Willow Master Development Plan

Appendix E.3B.2
Air Quality Technical Appendix

January 2023

Air Quality Technical Support Document – Attachments A – I

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Attachment A

Near-field Source Locations and Modeled Emission Rates

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A.1 Alternative B

A.1.1 Scenario 1: Construction

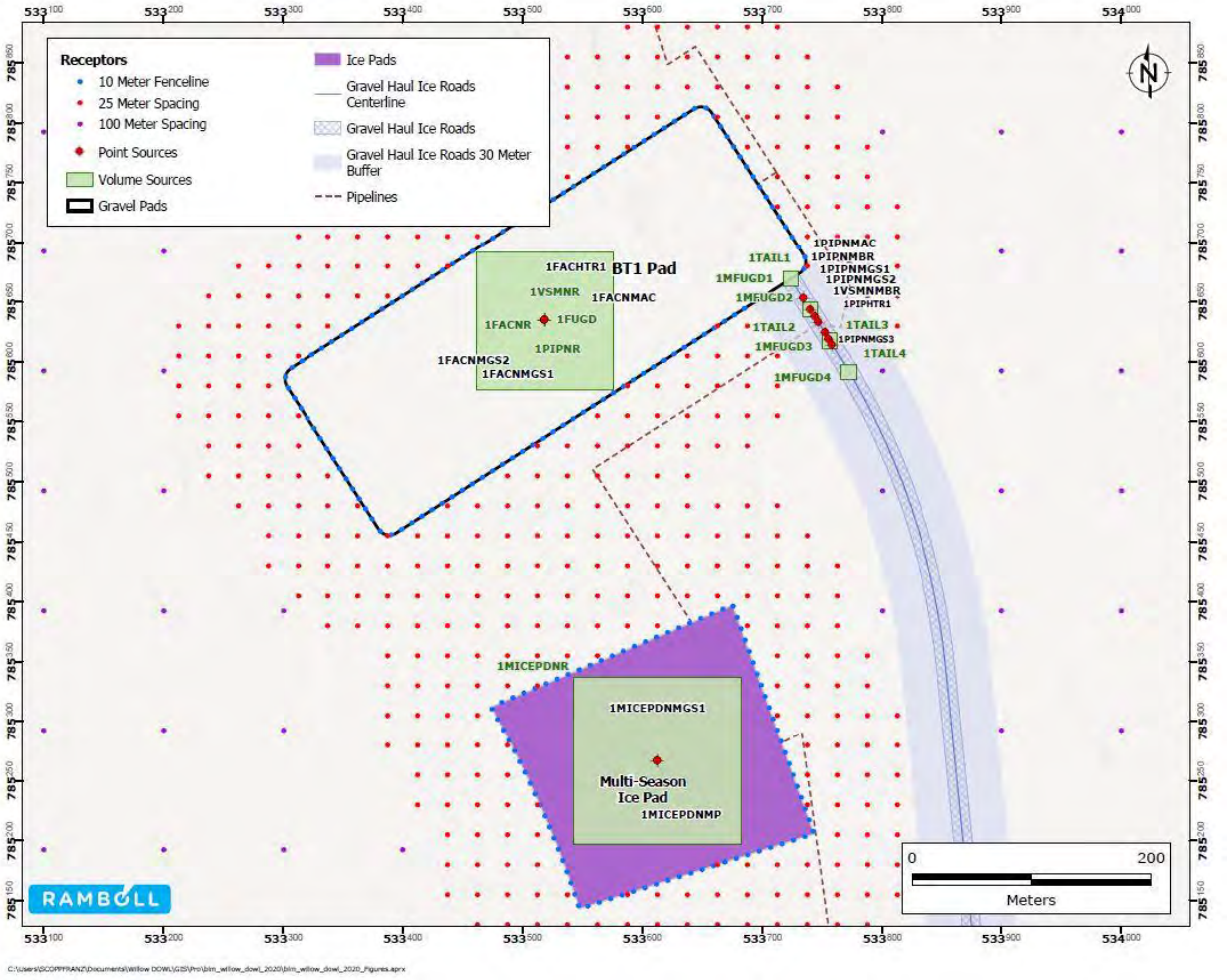


Figure A.1-1. Alternative B Near-field Model Scenario 1 Source Locations at BT1 with Ice Pad.

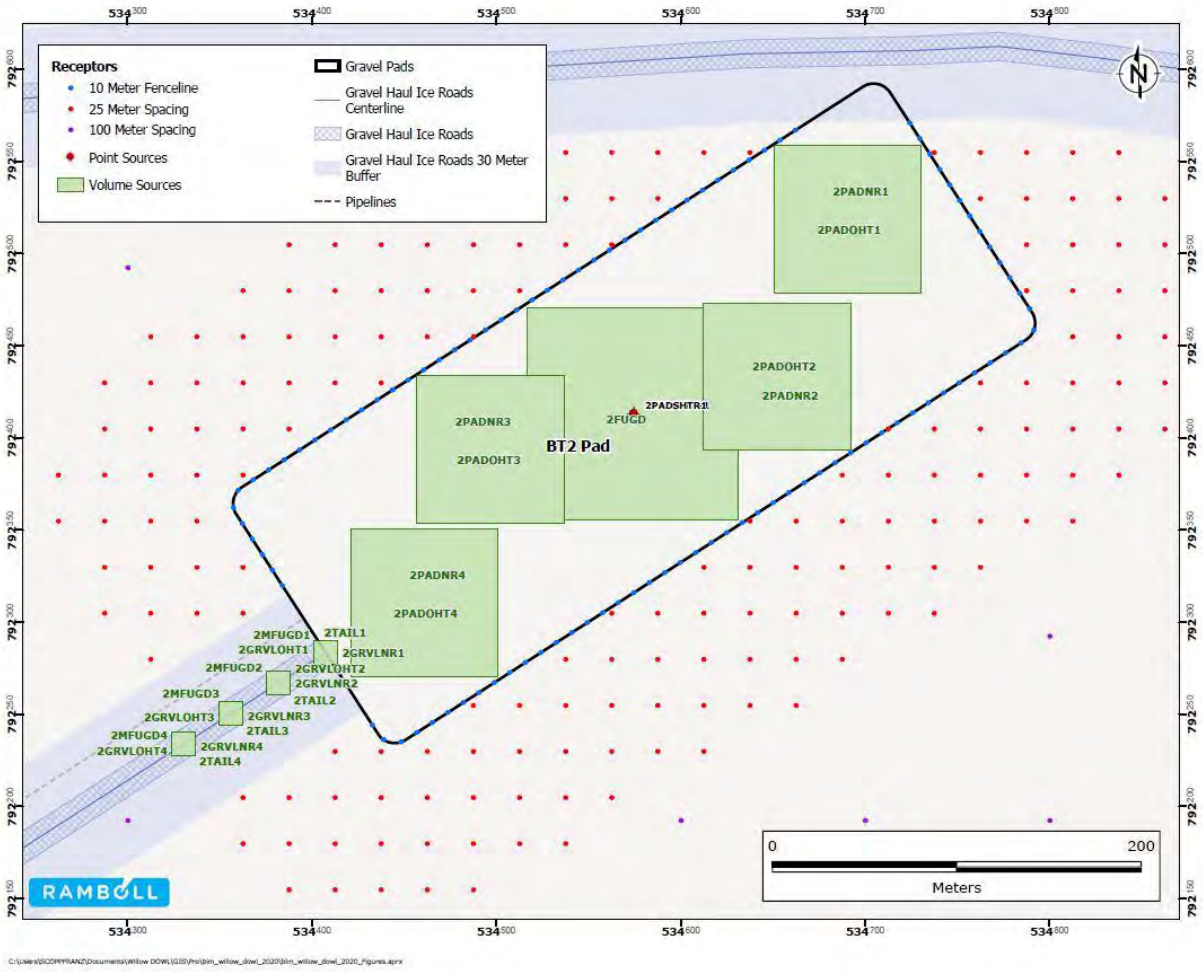


Figure A.1-2. Alternative B Near-field Model Scenario 1 Source Locations at BT2.

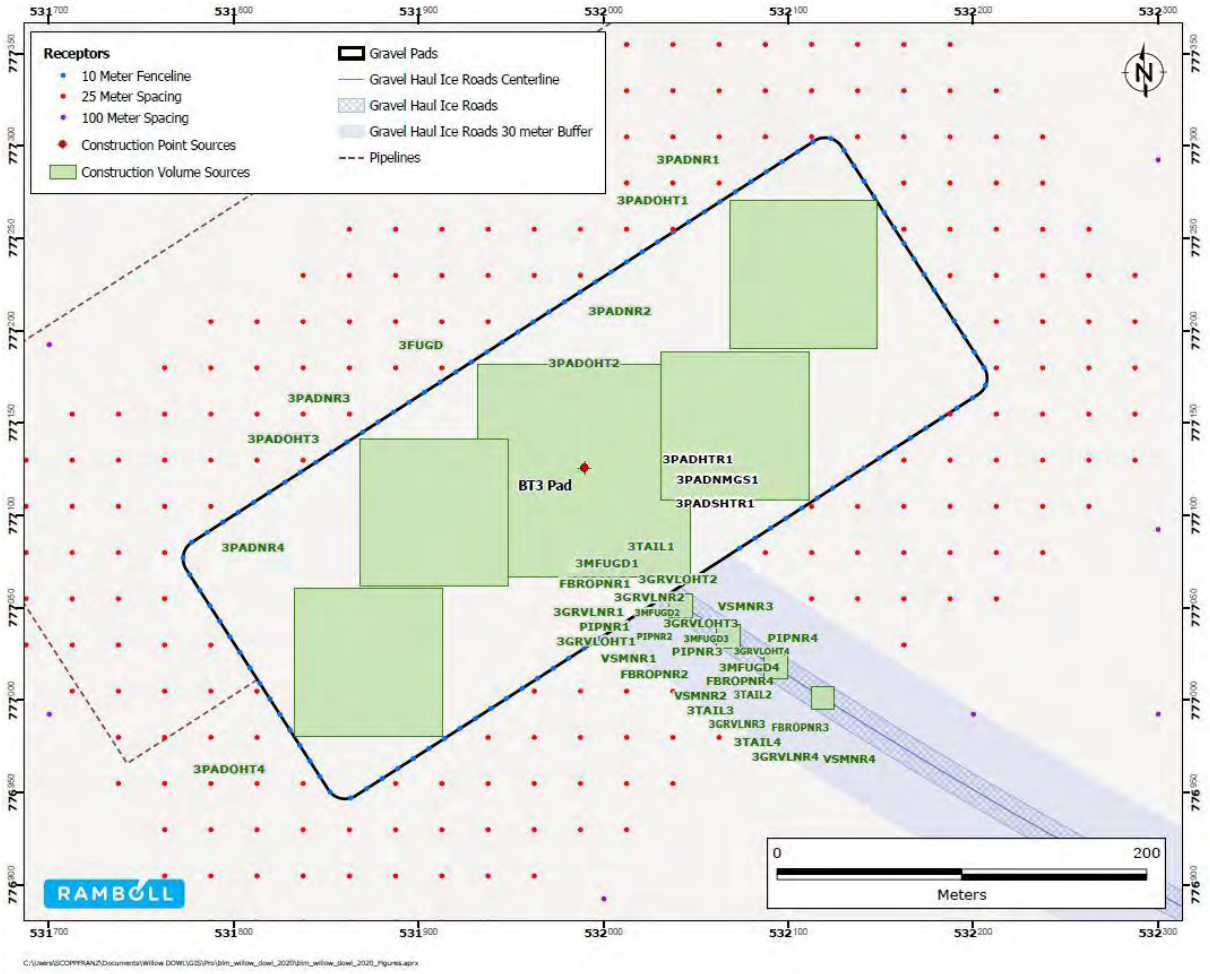


Figure A.1-3. Alternative B Near-field Model Scenario 1 Source Locations at BT3.

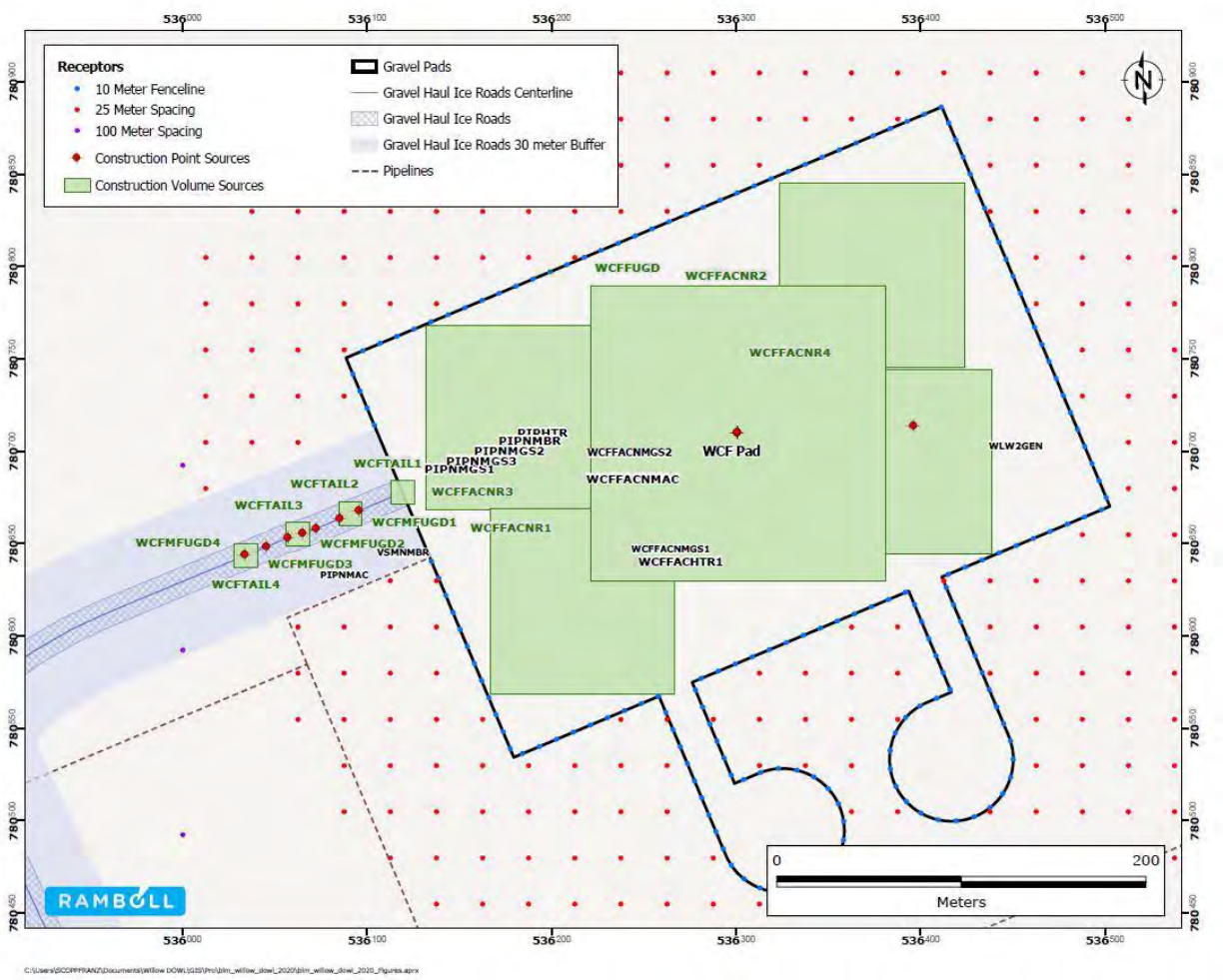


Figure A.1-4. Alternative B Near-field Model Scenario 1 Source Locations at WPF.

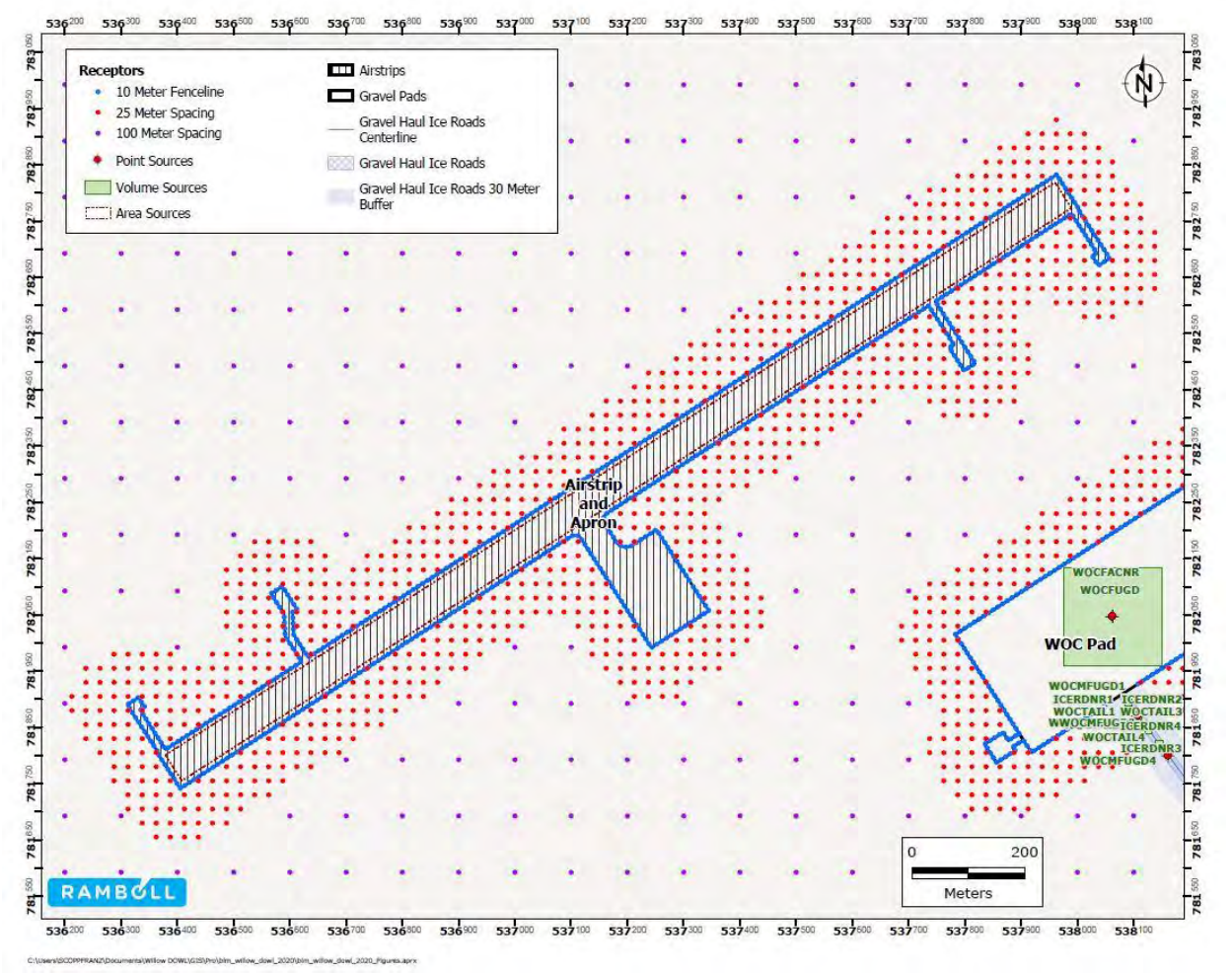


Figure A.1-5. Alternative B Near-field Model Scenario 1 Source Locations at Airstrip/Willow Operations Center.

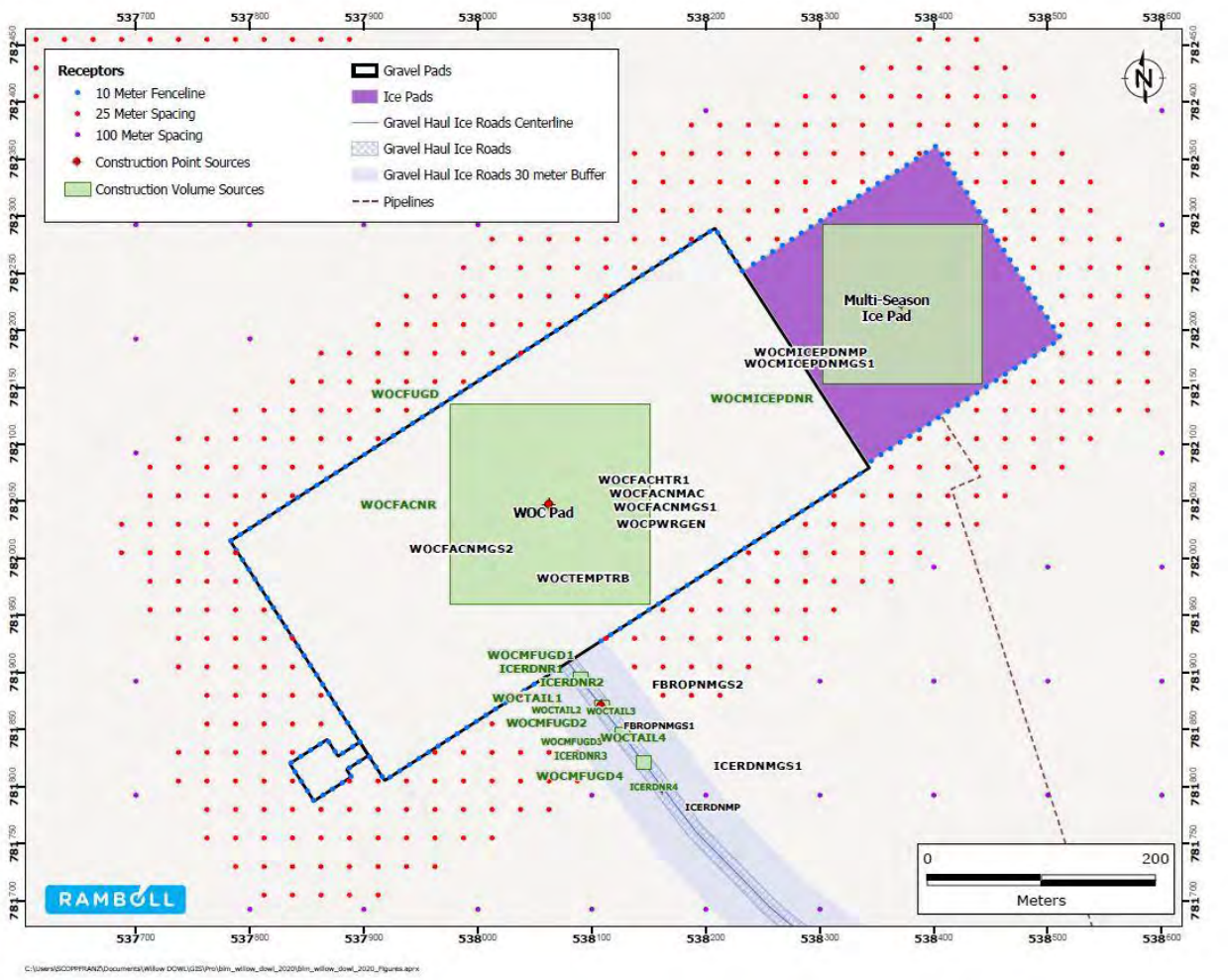


Figure A.1-6. Alternative B Near-field Model Scenario 1 Source Locations at WOC with Ice Pad.

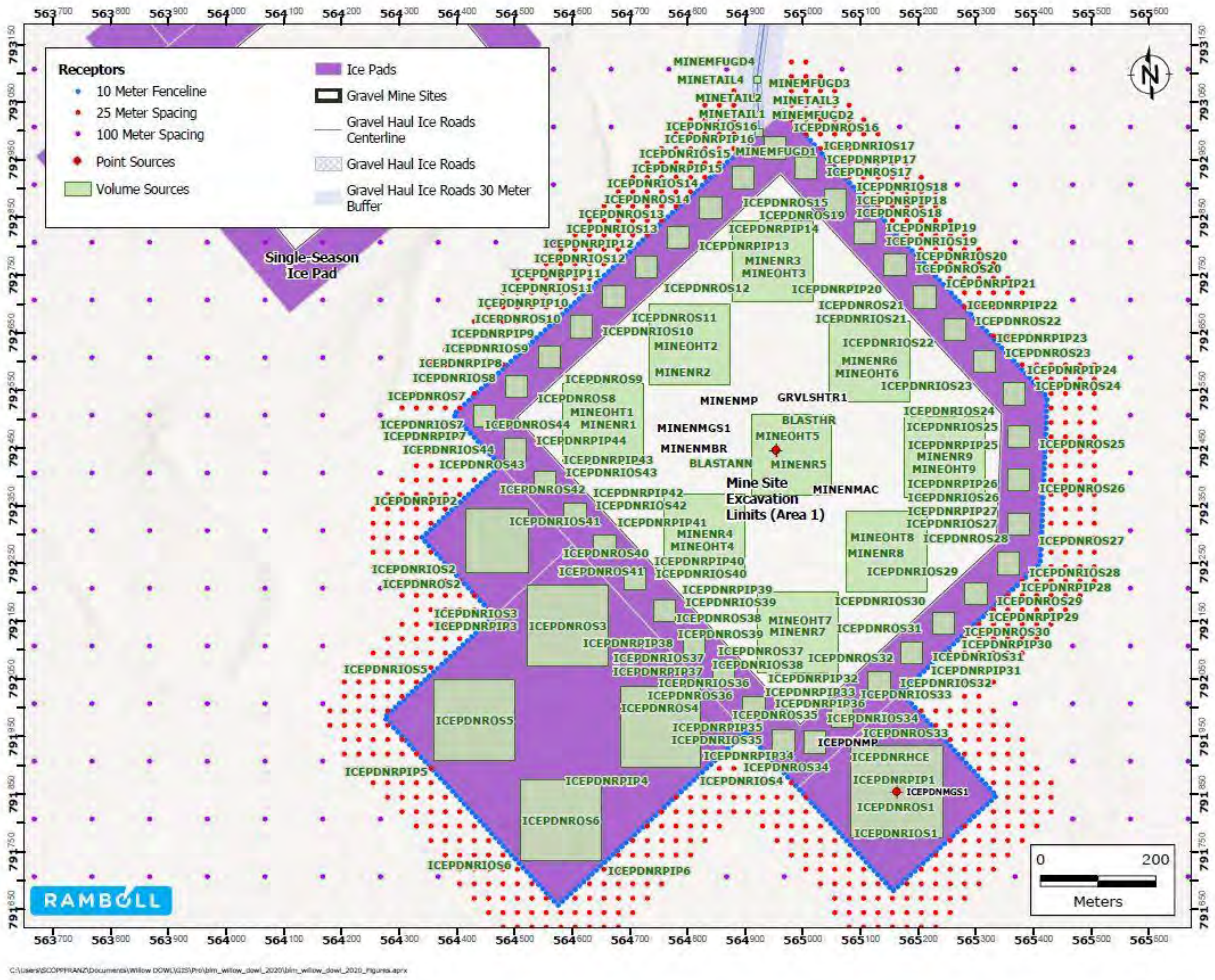


Figure A.1-7. Alternative B Near-field Model Scenario 1 Source Locations at Gravel Mine Site.

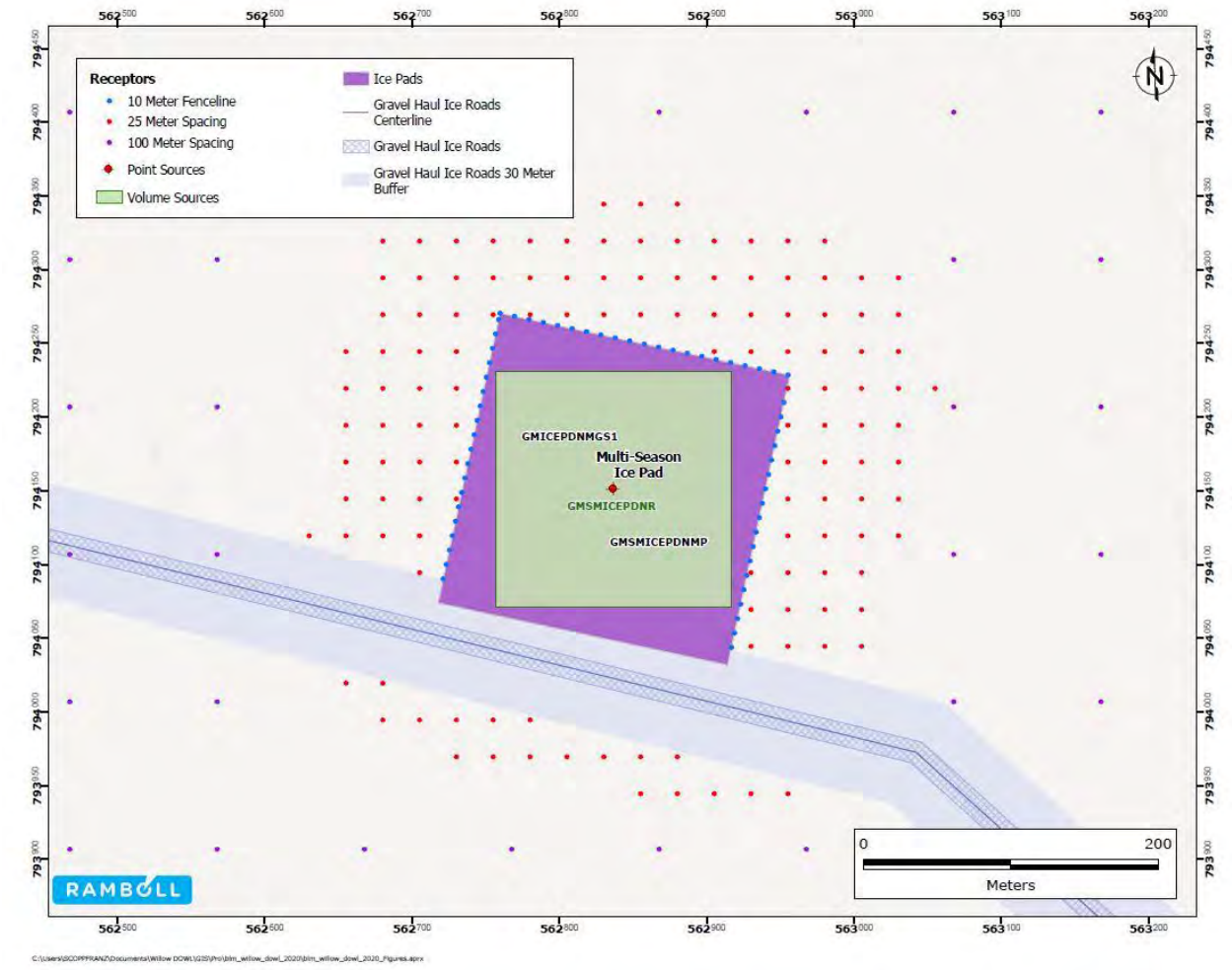


Figure A.1-8. Alternative B Near-field Model Scenario 1 Source Locations at Mine Camp.

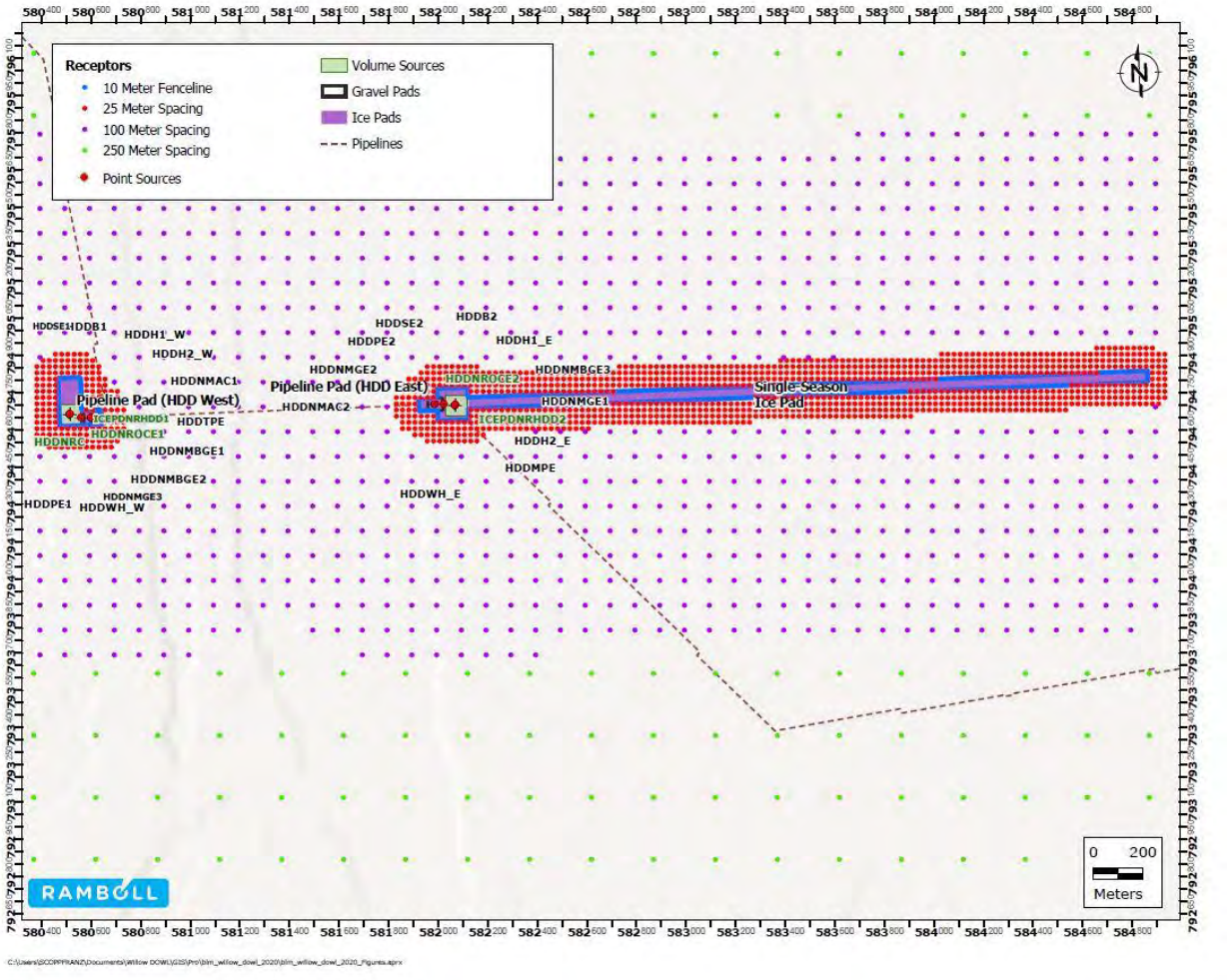


Figure A.1-9. Alternative B Near-field Model Scenario 1 Source Locations at HDD (wide view).

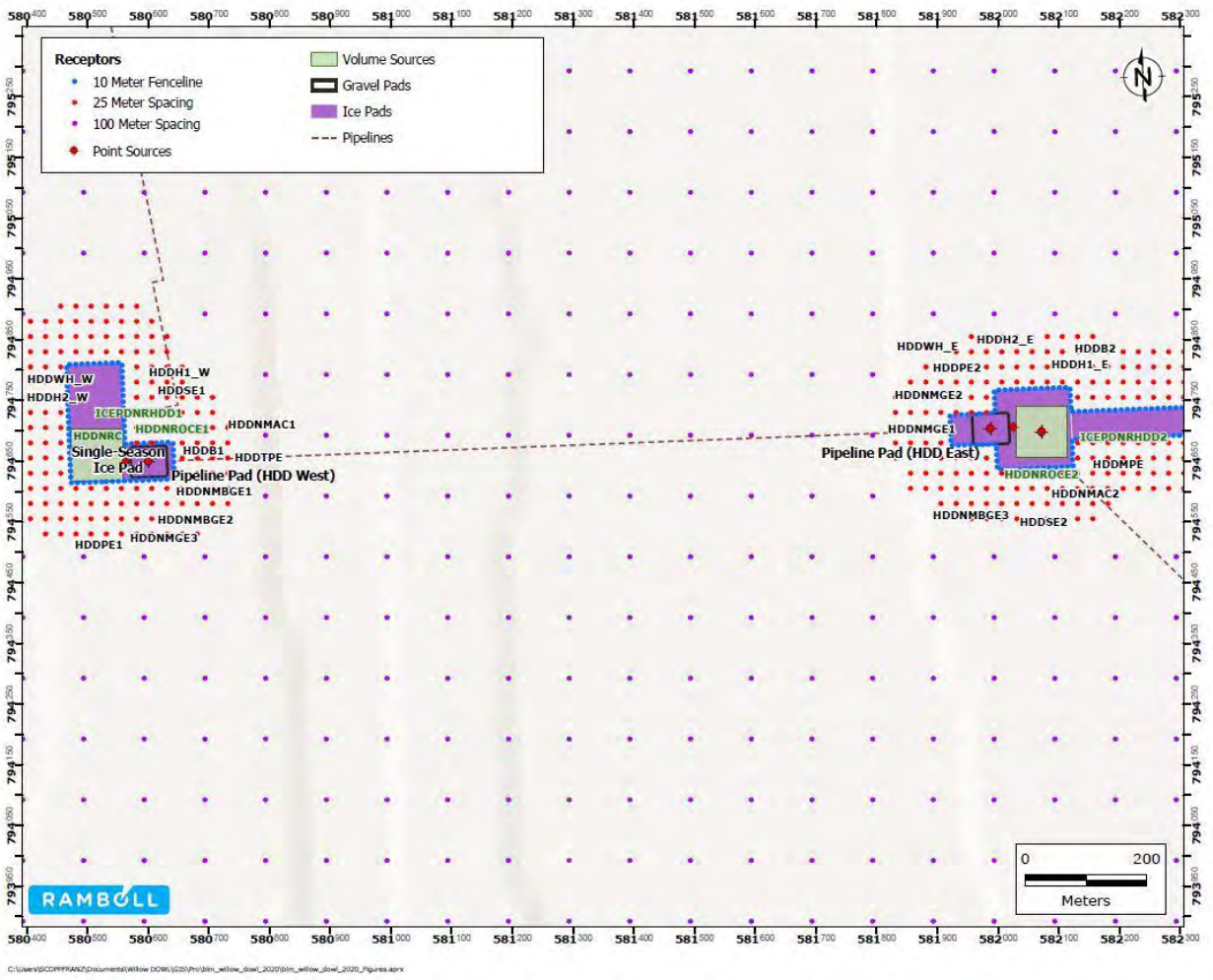


Figure A.1-10. Alternative B Near-field Model Scenario 1 Source Locations at HDD (close-up view).

Table A.1-1. Alternative B Near-field Model Scenario 1 Emissions Source Descriptions and In-stack Ratios.

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1FACHTR1	POINT	BT1 - Willow Facilities Installation - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
1FACNMAC	POINT	BT1 - Willow Facilities Installation - Air Compressors	0.1	Diesel engines
1FACNR	VOLUME	BT1 - Willow Facilities Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1FACNMGS1	POINT	BT1 - Willow Facilities Installation - Generator Sets	0.1	Diesel engines
1FACNMGS2	POINT	BT1 - Willow Facilities Installation - Generator Sets	0.1	Diesel engines
1PIPHTR1	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
1PIPNMAC	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Air Compressors	0.1	Diesel engines
1PIPNR	VOLUME	BT1 - Pipeline Installation - Wellsite to WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1PIPNMBR	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
1PIPNMGS1	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel engines
1PIPNMGS2	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel engines
1PIPNMGS3	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel engines
1VSMNR	VOLUME	BT1 - Vertical Support Member (VSM) Construction - Wellsite to WPF - Nonroad Equipment	0.2	Diesel engines
1VSMNMBR	POINT	BT1 - Vertical Support Member (VSM) Construction - Wellsite to WPF - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
1FUGD	VOLUME	BT1 - Wind Erosion Fugitive Dust - Wind Erosion Fugitive Dust	-	-
2PADHTR1	POINT	BT2 - Pad Construction - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
2PADSHTR1	POINT	BT2 - Pad Construction - Construction Shop Heaters	0.05	Diesel or natural gas heaters, or boiler
2PADNMGS1	POINT	BT2 - Pad Construction - Generator Sets	0.1	Diesel engines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2FUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust - Wind Erosion Fugitive Dust	-	-
3PADHTR1	POINT	BT3 - Pad Construction - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
3PADSHTR1	POINT	BT3 - Pad Construction - Construction Shop Heaters	0.05	Diesel or natural gas heaters, or boiler
3PADNMGS1	POINT	BT3 - Pad Construction - Generator Sets	0.1	Diesel engines
3FUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust - Wind Erosion Fugitive Dust	-	-
ALPAIR1	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 50.8m	0.5	USEPA default value
ALPAIR2	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 152.4m	0.5	USEPA default value
ALPAIR3	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 254m	0.5	USEPA default value
BDGHTR1	POINT	Bridge Installation - Construction Heater #1	0.05	Diesel or natural gas heaters, or boiler
BDGHTR2	POINT	Bridge Installation - Construction Heater #2	0.05	Diesel or natural gas heaters, or boiler
BDGNMAC1	POINT	Bridge Installation - Air Compressors	0.1	Diesel engines
BDGNMAC2	POINT	Bridge Installation - Air Compressors	0.1	Diesel engines
BDGNR	VOLUME	Bridge Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
BDGNMBR	POINT	Bridge Installation - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
BDGNMGS1	POINT	Bridge Installation - Generator Sets	0.1	Diesel engines
BDGNMGS2	POINT	Bridge Installation - Generator Sets	0.1	Diesel engines
MINENMAC	POINT	Gravel Mining - Air Compressors	0.1	Diesel engines
MINENMBR	POINT	Gravel Mining - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
MINENMGS1	POINT	Gravel Mining - Generator Sets	0.1	Diesel engines
MINENMP	POINT	Gravel Mining - Pumps	0.2	Diesel tailpipe from non-road equipment
BLASTANN	VOLUME	Blasting Emissions - Blasting Long Term	0.5	USEPA default value

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
BLASTHR	VOLUME	Blasting Emissions - Blasting Short Term	0.5	USEPA default value
GRVLHTR1	POINT	Gravel Roads Construction - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
GRVLSHTR1	POINT	Gravel Roads Construction - Construction Shop Heaters	0.05	Diesel or natural gas heaters, or boiler
GRVLNMGS1	POINT	Gravel Roads Construction - Generator Sets	0.1	Diesel engines
ICERDNMGS1	POINT	Seasonal Ice Road Construction - Generator Sets	0.1	Diesel engines
ICERDNMP	POINT	Seasonal Ice Road Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
ICEPDNMGS1	POINT	Single Season Ice Pad Construction - Generator Sets	0.1	Diesel engines
ICEPDNMP	POINT	Single Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
1MICEPDNR	VOLUME	Multi-Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1MICEPDNMGS1	POINT	Multi-Season Ice Pad Construction - Generator Sets	0.1	Diesel engines
1MICEPDNMP	POINT	Multi-Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
WOCMICEPDNR	VOLUME	Multi-Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WMICEPDNMGS1	POINT	Multi-Season Ice Pad Construction - Generator Sets	0.1	Diesel engines
WOCMICEPDNMP	POINT	Multi-Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
GMSMICEPDNR	VOLUME	Multi-Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
GMICEPDNMGS1	POINT	Multi-Season Ice Pad Construction - Generator Sets	0.1	Diesel engines
GMSMICEPDNMP	POINT	Multi-Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
STCKPL	VOLUME	Stockpile Fugitive Dust - Stockpile	-	-
FBROPHTR	POINT	Fiber Optic Line Installation - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
FBROPNMGS1	POINT	Fiber Optic Line Installation - Generator Sets	0.1	Diesel engines
FBROPNMGS2	POINT	Fiber Optic Line Installation - Generator Sets	0.1	Diesel engines
PIPHTR	POINT	Pipeline Installation - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
PIPNMAC	POINT	Pipeline Installation - Air Compressors	0.1	Diesel engines
PIPNMBR	POINT	Pipeline Installation - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
PIPNMGS1	POINT	Pipeline Installation - Generator Sets	0.1	Diesel engines
PIPNMGS2	POINT	Pipeline Installation - Generator Sets	0.1	Diesel engines
PIPNMGS3	POINT	Pipeline Installation - Generator Sets	0.1	Diesel engines
VSMNMBR	POINT	Vertical Support Member Construction - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
HDDPE1	POINT	Boring Equipment - Primary Power Engine #1	0.2	Diesel tailpipe from non-road equipment
HDDPE2	POINT	Boring Equipment - Primary Power Engine #2	0.2	Diesel tailpipe from non-road equipment
HDDSE1	POINT	Boring Equipment - Secondary Power Engine #1	0.2	Diesel tailpipe from non-road equipment
HDDSE2	POINT	Boring Equipment - Secondary Power Engine #2	0.2	Diesel tailpipe from non-road equipment
HDDMPE	POINT	Boring Equipment - Mud Pump Engine	0.2	Diesel tailpipe from non-road equipment
HDDTPE	POINT	Boring Equipment - Transfer Pump Engine	0.2	Diesel tailpipe from non-road equipment
HDDB1	POINT	Boring Equipment - Boiler #1	0.05	Diesel or natural gas heaters, or boiler
HDDB2	POINT	Boring Equipment - Boiler #2	0.05	Diesel or natural gas heaters, or boiler
HDDH1_W	POINT	Boring Equipment - Heater #1 - West	0.1	Diesel engines
HDDH1_E	POINT	Boring Equipment - Heater #1 - East	0.1	Diesel engines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
HDDH2_W	POINT	Boring Equipment - Heater #2 - West	0.1	Diesel engines
HDDH2_E	POINT	Boring Equipment - Heater #2 - East	0.1	Diesel engines
HDDWH_W	POINT	Boring Equipment - Water Heater - West	0.1	Diesel engines
HDDWH_E	POINT	Boring Equipment - Water Heater - East	0.1	Diesel engines
HDDNMGE1	POINT	Non-Mobile Support Equipment - Generator Sets	0.1	Diesel engines
HDDNMGE2	POINT	Non-Mobile Support Equipment - Generator Sets	0.1	Diesel engines
HDDNMGE3	POINT	Non-Mobile Support Equipment - Generator Sets	0.1	Diesel engines
HDDNMBGE1	POINT	Non-Mobile Support Equipment - Backup Generator Sets	0.1	Diesel engines
HDDNMBGE2	POINT	Non-Mobile Support Equipment - Backup Generator Sets	0.1	Diesel engines
HDDNMBGE3	POINT	Non-Mobile Support Equipment - Backup Generator Sets	0.1	Diesel engines
HDDNMAC1	POINT	Non-Mobile Support Equipment - Air Compressors #1	0.1	Diesel engines
HDDNMAC2	POINT	Non-Mobile Support Equipment - Air Compressors #2	0.1	Diesel engines
HDDNROCE1	VOLUME	Non-Mobile Support Equipment - Other Construction Equipment #1	0.2	Diesel tailpipe from non-road equipment
HDDNROCE2	VOLUME	Non-Mobile Support Equipment - Other Construction Equipment #2	0.2	Diesel tailpipe from non-road equipment
HDDNRC	VOLUME	Non-Mobile Support Equipment - Cranes	0.2	Diesel tailpipe from non-road equipment
WOCPWRGEN	POINT	Temporary Power Generation - Power Generation	0.1	Diesel engines
WOCTEMPTRB	POINT	Temporary Power Generation - Power Generation Turbine	0.3	Natural gas-fired turbines
WOCFACHTR1	POINT	Facilities Installation-WOC - Heaters	0.05	Diesel or natural gas heaters, or boiler
WOCFACNMAC	POINT	Facilities Installation-WOC - Air Compressors	0.1	Diesel engines
WOCFACNR	VOLUME	Facilities Installation-WOC - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WOCFACNMGS1	POINT	Facilities Installation-WOC - Generator Sets	0.1	Diesel engines
WOCFACNMGS2	POINT	Facilities Installation-WOC - Generator Sets	0.1	Diesel engines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCFUGD	VOLUME	Construction Fugitive Dust-WOC - Wind Erosion Fugitive Dust	-	-
WCFFACHTR1	POINT	Facilities Installation-WPF - Heaters	0.05	Diesel or natural gas heaters, or boiler
WCFFACNMAC	POINT	Facilities Installation-WPF - Air Compressors	0.1	Diesel engines
WCFFACNMGS1	POINT	Facilities Installation-WPF - Generator Sets	0.1	Diesel engines
WCFFACNMGS2	POINT	Facilities Installation-WPF - Generator Sets	0.1	Diesel engines
WCFFUGD	VOLUME	Construction Fugitive Dust-WPF - Wind Erosion Fugitive Dust	-	-
WILLOWAIR1	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 50.8m	0.5	USEPA default value
WILLOWAIR2	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 152.4m	0.5	USEPA default value
WILLOWAIR3	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 254m	0.5	USEPA default value
2TAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
3TAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
1TAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1TAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL1	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL2	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL3	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL4	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL1	VOLUME	Mobile Support Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL2	VOLUME	Mobile Support Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL3	VOLUME	Mobile Support Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL4	VOLUME	Mobile Support Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
MINETAIL1	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles
MINETAIL2	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles
MINETAIL3	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles
MINETAIL4	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1MFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
3MFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
WCFMFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - WPF	-	-
WCFMFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - WPF	-	-
WCFMFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - WPF	-	-
WCFMFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - WPF	-	-
WOCMFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
MINEMFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
MINEMFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
MINEMFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
MINEMFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
2GRVLNR1	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR2	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR3	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2GRVLNR4	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR1	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR2	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR3	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR4	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRHCE	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNROS11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNROS27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNROS43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS44	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	1.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRIOS15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRIOS31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS44	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRPIP3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRPIP19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRPIP35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP44	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRHDD1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRHDD2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR1	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR2	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR3	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR4	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
PIPNR1	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR2	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR3	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR4	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR1	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR2	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR3	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR4	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR1	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR2	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR3	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR4	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR1	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR2	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR3	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR4	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
3PADNR1	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR2	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR3	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR4	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR1	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR2	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR3	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR4	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR5	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR6	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR7	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR8	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR9	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADOHT1	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT2	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT3	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2PADOHT4	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT1	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT2	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT3	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT4	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT1	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT2	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT3	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT4	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT1	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT2	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT3	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT4	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT1	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT2	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT3	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
MINEOHT4	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT5	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT6	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT7	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT8	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT9	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
WCFFACNR1	VOLUME	Facilities Installation-WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WCFFACNR2	VOLUME	Facilities Installation-WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WCFFACNR3	VOLUME	Facilities Installation-WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WCFFACNR4	VOLUME	Facilities Installation-WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WLW2GEN	POINT	Stationary Combustion Sources - WPF - WPF Internal Combustion Equipment Non-Road Engines >140 HP	0.1	Diesel engines

Table A.1-2. Alternative B Near-field Model Scenario 1 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1FACHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
1FACNMAC	POINT	2.7432	13.3	0.4	10.5	614	-	-	-	-	-
1FACNR	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38	-	-	-
1FACNMGS1	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
1FACNMGS2	POINT	2.7432	6.5	0.2	47	761	-	-	-	-	-
1PIPHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
1PIPNMAC	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
1PIPNR	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38	-	-	-
1PIPNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
1PIPNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-	-	-	-
1PIPNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
1PIPNMGS3	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
1VSMNR	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38	-	-	-
1VSMNMBR	POINT	2.7432	13.3	0.4	10.5	614	-	-	-	-	-
1FUGD	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38	-	-	-
2PADHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
2PADSHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
2PADNMGS1	POINT	2.7432	6.5	0.2	47	761	-	-	-	-	-
2FUGD	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38	-	-	-
3PADHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
3PADSHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
3PADNMGS1	POINT	2.7432	6.5	0.2	47	761	-	-	-	-	-
3FUGD	VOLUME	3.6576	3.66	-	-	-	26.74419	3.38	-	-	-
ALPAIR1	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-
ALPAIR2	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ALPAIR3	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-
BDGHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
BDGHTR2	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
BDGNMAC1	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
BDGNMAC2	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
BDGNR	VOLUME	2.1336	3.66	-	-	-	11.62791	3.38	-	-	-
BDGNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
BDGNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-	-	-	-
BDGNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
MINENMAC	POINT	0	13.3	0.4	10.5	614	-	-	-	-	-
MINENMBR	POINT	0	13.3	0.4	10.5	614	-	-	-	-	-
MINENMGS1	POINT	0	6.5	0.2	47	761	-	-	-	-	-
MINENMP	POINT	0	13.3	0.4	10.5	614	-	-	-	-	-
BLASTANN	VOLUME	0	50	-	-	-	11.62791	11.63	-	-	-
BLASTHR	VOLUME	0	50	-	-	-	11.62791	11.63	-	-	-
GRVLHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
GRVLSHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
GRVLNMGS1	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
ICERDNMGS1	POINT	1.5	6.5	0.2	47	761	-	-	-	-	-
ICERDNMP	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
ICEPDNMGS1	POINT	1.5	6.5	0.2	47	761	-	-	-	-	-
ICEPDNMP	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
1MICEPDNR	VOLUME	3.048	3.66	-	-	-	32.55814	3.38	-	-	-
1MICEPDNMGS1	POINT	3.048	6.5	0.2	47	761	-	-	-	-	-
1MICEPDNMP	POINT	3.048	13.3	0.4	10.5	614	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCMICEPDNR	VOLUME	3.048	3.66	-	-	-	32.55814	3.38	-	-	-
WMICEPDNMGS1	POINT	3.048	6.5	0.2	47	761	-	-	-	-	-
WOCMICEPDNMP	POINT	3.048	13.3	0.4	10.5	614	-	-	-	-	-
GMSMICEPDNR	VOLUME	3.048	3.66	-	-	-	37.2093	3.38	-	-	-
GMICEPDNMGS1	POINT	3.048	6.5	0.2	47	761	-	-	-	-	-
GMSMICEPDNMP	POINT	3.048	13.3	0.4	10.5	614	-	-	-	-	-
STCKPL	VOLUME	1.52	3.66	-	-	-	46.51163	3.38	-	-	-
FBROPHTR	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
FBROPNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-	-	-	-
FBROPNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
PIPHTR	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
PIPNMAC	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
PIPNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
PIPNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-	-	-	-
PIPNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
PIPNMGS3	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
VSMNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
HDDPE1	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDPE2	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDSE1	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDSE2	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDMPE	POINT	1.5	10.4	0.13	43.5	750	-	-	-	-	-
HDDTPE	POINT	1.5	10.4	0.13	43.5	750	-	-	-	-	-
HDDB1	POINT	1.5	11.9	0.279	11.7	450	-	-	-	-	-
HDDB2	POINT	1.5	11.9	0.279	11.7	450	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
HDDH1_W	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDH1_E	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDH2_W	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDH2_E	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDWH_W	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDWH_E	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDNMGE1	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMGE2	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMGE3	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMBGE1	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMBGE2	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMBGE3	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMAC1	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDNMAC2	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDNROCE1	VOLUME	1.5	0	-	-	-	19.76744	8.7	-	-	-
HDDNROCE2	VOLUME	1.5	0	-	-	-	19.76744	8.7	-	-	-
HDDNRC	VOLUME	1.5	0	-	-	-	19.76744	8.7	-	-	-
WOCPWRGEN	POINT	3.048	8.6	0.3	20	760	-	-	-	-	-
WOCTEMPTRB	POINT	3.048	25	2	30	550	-	-	-	-	-
WOCFACHTR1	POINT	3.048	12.2	0.94	5.7	529	-	-	-	-	-
WOCFACNMAC	POINT	3.048	13.3	0.4	10.5	614	-	-	-	-	-
WOCFACNR	VOLUME	3.048	3.66	-	-	-	40.69767	3.38	-	-	-
WOCFACNMGS1	POINT	3.048	6.1	0.46	15.1	795	-	-	-	-	-
WOCFACNMGS2	POINT	3.048	6.5	0.2	47	761	-	-	-	-	-
WOCFUGD	VOLUME	3.048	3.66	-	-	-	40.69767	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WCFFACHTR1	POINT	3.6576	12.2	0.94	5.7	529	-	-	-	-	-
WCFFACNMAC	POINT	3.6576	13.3	0.4	10.5	614	-	-	-	-	-
WCFFACNMGS1	POINT	3.6576	6.1	0.46	15.1	795	-	-	-	-	-
WCFFACNMGS2	POINT	3.6576	6.5	0.2	47	761	-	-	-	-	-
WCFFUGD	VOLUME	3.6576	3.66	-	-	-	37.2093	3.38	-	-	-
WILLOWAIR1	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-
WILLOWAIR2	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-
WILLOWAIR3	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-
2TAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3TAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3TAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3TAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3TAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1TAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1TAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1TAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1TAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCTAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCTAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCTAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCTAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFTAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WCFTAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFTAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFTAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINETAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINETAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINETAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINETAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1MFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1MFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1MFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1MFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3MFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3MFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3MFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3MFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFMFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFMFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFMFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFMFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCMFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCMFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCMFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCMFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEMFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEMFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEMFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEMFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICEPDNRHCE	VOLUME	2.1336	3.66	-	-	-	37.21	3.38	-	-	-
ICEPDNROS1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38	-	-	-
ICEPDNROS2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38	-	-	-
ICEPDNROS3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNROS4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNROS5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNROS6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNROS7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNROS11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNROS36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS44	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38	-	-	-
ICEPDNRIOS2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38	-	-	-
ICEPDNRIOS3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRIOS4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRIOS5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRIOS6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRIOS7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNRIOS17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNRIOS42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS44	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38	-	-	-
ICEPDNRPIP2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38	-	-	-
ICEPDNRPIP3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRPIP4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRPIP5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRPIP6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRPIP7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNRPIP23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP44	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRHDD1	VOLUME	2.1336	3.66	-	-	-	19.76744	3.38	-	-	-
ICEPDNRHDD2	VOLUME	2.1336	3.66	-	-	-	19.76744	3.38	-	-	-
ICERDNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICERDNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICERDNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICERDNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
PIPNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
PIPNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
PIPNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
PIPNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
VSMNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
VSMNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
VSMNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
VSMNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
FBROPNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
FBROPNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
FBROPNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
FBROPNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2PADNR1	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2PADNR2	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2PADNR3	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2PADNR4	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADNR1	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADNR2	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADNR3	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADNR4	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
MINENR1	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR2	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
MINENR3	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR4	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR5	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR6	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR7	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR8	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR9	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
2PADOHT1	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2PADOHT2	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2PADOHT3	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2PADOHT4	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADOHT1	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADOHT2	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADOHT3	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADOHT4	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2GRVLOHT1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLOHT1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLOHT2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLOHT3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLOHT4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEOHT1	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT2	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
MINEOHT3	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT4	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT5	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT6	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT7	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT8	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT9	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
WCFFACNR1	VOLUME	3.6576	3.66	-	-	-	23.25581	3.38	-	-	-
WCFFACNR2	VOLUME	3.6576	3.66	-	-	-	23.25581	3.38	-	-	-
WCFFACNR3	VOLUME	3.6576	3.66	-	-	-	23.25581	3.38	-	-	-
WCFFACNR4	VOLUME	3.6576	3.66	-	-	-	23.25581	3.38	-	-	-
WLW2GEN	POINT	3.66	10.4	0.13	43.5	750	-	-	-	-	-

Table A.1-3. Alternative B Near-field Model Scenario 1 Emissions Rates

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1FACHTR1	2.65E-02	1.06E-01	2.75E-02	1.26E-02	1.13E-02	2.93E-03	1.13E-03	1.13E-03	2.93E-04	378.56
1FACNMAC	1.17E-02	1.78E-02	1.15E-03	1.53E-03	1.48E-03	9.62E-05	4.42E-05	4.42E-05	2.87E-06	94.64
1FACNR	5.85E-02	8.92E-02	4.91E-02	8.08E-03	7.83E-03	4.54E-03	1.43E-04	1.43E-04	7.69E-05	VARIES
1FACNMGS1	1.60E-02	5.78E-02	1.50E-02	3.46E-03	3.35E-03	8.69E-04	6.82E-05	6.82E-05	1.77E-05	378.56
1FACNMGS2	2.59E-02	4.89E-02	1.27E-02	3.84E-03	3.73E-03	9.67E-04	4.18E-05	4.18E-05	1.08E-05	378.56
1PIPHTR1	3.51E-03	1.40E-02	5.65E-03	1.67E-03	1.49E-03	6.02E-04	1.49E-04	1.49E-04	6.02E-05	882

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1PIPNMAC	1.19E-02	3.77E-02	1.14E-02	1.76E-03	1.70E-03	5.15E-04	6.37E-05	6.37E-05	1.93E-05	661.5
1PIPNR	8.10E-03	2.90E-02	2.10E-02	1.24E-03	1.20E-03	8.69E-04	9.20E-05	9.20E-05	6.57E-05	VARIES
1PIPNMBR	6.35E-03	2.57E-02	7.77E-03	1.36E-03	1.32E-03	3.97E-04	3.18E-05	3.18E-05	9.60E-06	661.5
1PIPNMGS1	5.08E-03	1.24E-02	4.99E-03	7.82E-04	7.59E-04	3.06E-04	1.06E-05	1.06E-05	4.29E-06	882
1PIPNMGS2	2.75E-03	2.84E-03	1.14E-03	2.56E-04	2.49E-04	1.00E-04	2.44E-06	2.44E-06	9.84E-07	882
1PIPNMGS3	5.14E-03	9.69E-03	3.90E-03	7.62E-04	7.39E-04	2.98E-04	8.29E-06	8.29E-06	3.34E-06	882
1VSMNR	6.81E-03	1.81E-02	1.69E-02	9.64E-04	9.35E-04	9.24E-04	3.53E-05	3.53E-05	3.13E-05	VARIES
1VSMNMBR	7.12E-03	2.99E-02	9.46E-03	1.48E-03	1.44E-03	4.55E-04	3.74E-05	3.74E-05	1.18E-05	693
1FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380
2PADHTR1	1.35E-02	5.41E-02	4.98E-02	6.44E-03	5.76E-03	5.31E-03	5.76E-04	5.76E-04	5.31E-04	4704
2PADSHTR1	4.67E-03	1.87E-02	1.72E-02	2.22E-03	1.99E-03	1.83E-03	1.99E-04	1.99E-04	1.83E-04	4704
2PADNMGS1	1.32E-02	2.49E-02	2.29E-02	1.96E-03	1.90E-03	1.75E-03	2.13E-05	2.13E-05	1.96E-05	4704
2FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380
3PADHTR1	1.35E-02	5.41E-02	4.98E-02	6.44E-03	5.76E-03	5.31E-03	5.76E-04	5.76E-04	5.31E-04	4704
3PADSHTR1	4.67E-03	1.87E-02	1.72E-02	2.22E-03	1.99E-03	1.83E-03	1.99E-04	1.99E-04	1.83E-04	4704
3PADNMGS1	1.32E-02	2.49E-02	2.29E-02	1.96E-03	1.90E-03	1.75E-03	2.13E-05	2.13E-05	1.96E-05	4704
3FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380
ALPAIR1	5.89E-09	5.93E-09	5.93E-09	1.67E-10	1.67E-10	1.67E-10	7.72E-10	7.72E-10	7.72E-10	8760
ALPAIR2	5.89E-09	5.93E-09	5.93E-09	1.67E-10	1.67E-10	1.67E-10	7.72E-10	7.72E-10	7.72E-10	8760
ALPAIR3	5.89E-09	5.93E-09	5.93E-09	1.67E-10	1.67E-10	1.67E-10	7.72E-10	7.72E-10	7.72E-10	8760
BDGHTR1	1.17E-03	4.67E-03	1.51E-03	5.55E-04	4.97E-04	1.61E-04	4.97E-05	4.97E-05	1.61E-05	708.75
BDGHTR2	3.50E-03	1.40E-02	4.53E-03	1.67E-03	1.49E-03	4.83E-04	1.49E-04	1.49E-04	4.83E-05	708.75
BDGNMAC1	8.97E-04	1.37E-03	2.95E-04	1.18E-04	1.14E-04	2.46E-05	3.40E-06	3.40E-06	7.34E-07	472.5
BDGNMAC2	1.79E-03	2.73E-03	5.90E-04	2.35E-04	2.28E-04	4.93E-05	6.80E-06	6.80E-06	1.47E-06	472.5
BDGNR	9.62E-03	3.13E-02	7.52E-03	1.42E-03	1.38E-03	3.16E-04	7.52E-05	7.52E-05	1.66E-05	472.5

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
BDGNMBR	1.46E-03	6.15E-03	1.33E-03	3.05E-04	2.95E-04	6.37E-05	7.69E-06	7.69E-06	1.66E-06	472.5
BDGNMGS1	4.23E-03	1.03E-02	4.45E-03	6.50E-04	6.31E-04	2.72E-04	8.85E-06	8.85E-06	3.82E-06	945
BDGNMGS2	3.42E-03	6.44E-03	2.78E-03	5.07E-04	4.92E-04	2.12E-04	5.51E-06	5.51E-06	2.38E-06	945
MINENMAC	3.11E-03	4.32E-02	3.98E-02	4.43E-04	4.30E-04	3.96E-04	4.05E-05	4.05E-05	3.73E-05	2688
MINENMBR	6.88E-02	2.45E-01	2.25E-01	1.03E-02	1.00E-02	9.22E-03	2.85E-04	2.85E-04	2.63E-04	2688
MINENMGS1	2.51E-02	4.74E-02	4.36E-02	3.73E-03	3.62E-03	3.33E-03	4.05E-05	4.05E-05	3.73E-05	2688
MINENMP	1.35E-02	6.76E-02	6.23E-03	2.35E-03	2.28E-03	2.10E-04	6.01E-05	6.01E-05	5.54E-06	268.8
BLASTANN	0.00E+00	0.00E+00	1.26E+00	0.00E+00	0.00E+00	7.38E-03	0.00E+00	0.00E+00	0.00E+00	680
BLASTHR	8.79E+00	2.23E+00	0.00E+00	2.26E-01	1.30E-02	0.00E+00	2.62E-01	2.62E-01	1.49E-01	680
GRVLHTR1	1.02E-02	4.10E-02	3.77E-02	4.87E-03	4.36E-03	4.02E-03	4.36E-04	4.36E-04	4.02E-04	2688
GRVLSHTR1	3.53E-03	1.41E-02	1.30E-02	1.68E-03	1.51E-03	1.39E-03	1.51E-04	1.51E-04	1.39E-04	2688
GRVLNMGS1	1.00E-02	1.88E-02	1.74E-02	1.48E-03	1.44E-03	1.32E-03	1.61E-05	1.61E-05	1.48E-05	2688
ICERDNMGS1	3.43E-01	2.11E-01	2.39E-02	5.09E-02	4.93E-02	5.57E-03	5.53E-04	5.53E-04	6.25E-05	464.7698
ICERDNMP	8.54E-01	1.05E+00	1.18E-01	1.29E-01	1.25E-01	1.41E-02	3.71E-03	3.71E-03	4.19E-04	464.7698
ICEPDNMGS1	5.18E-02	6.91E-02	3.37E-02	7.69E-03	7.46E-03	3.64E-03	8.36E-05	8.36E-05	4.08E-05	1858.032
ICEPDNMP	1.29E-01	3.43E-01	1.67E-01	1.95E-02	1.89E-02	9.22E-03	5.62E-04	5.62E-04	2.74E-04	1858.032
1MICEPDNR	9.68E-04	7.04E-02	6.48E-02	1.26E-04	1.22E-04	1.13E-04	4.41E-06	4.41E-06	3.45E-06	92.4
1MICEPDNMGS1	1.92E-03	6.91E-02	1.25E-03	2.85E-04	2.76E-04	5.00E-06	3.10E-06	3.10E-06	5.60E-08	92.4
1MICEPDNMP	4.78E-03	3.43E-01	6.19E-03	7.22E-04	7.01E-04	1.27E-05	2.08E-05	2.08E-05	3.76E-07	92.4
WOCMICEPDNR	9.68E-04	7.04E-02	6.48E-02	1.26E-04	1.22E-04	1.13E-04	4.41E-06	4.41E-06	3.45E-06	92.4
WMICEPDNMGS1	1.92E-03	6.91E-02	1.25E-03	2.85E-04	2.76E-04	5.00E-06	3.10E-06	3.10E-06	5.60E-08	92.4
WOCMICEPDNMP	4.78E-03	3.43E-01	6.19E-03	7.22E-04	7.01E-04	1.27E-05	2.08E-05	2.08E-05	3.76E-07	92.4
GMSMICEPDNR	9.68E-04	7.04E-02	6.48E-02	1.26E-04	1.22E-04	1.13E-04	4.41E-06	4.41E-06	3.45E-06	92.4
GMICEPDNMGS1	1.92E-03	6.91E-02	1.25E-03	2.85E-04	2.76E-04	5.00E-06	3.10E-06	3.10E-06	5.60E-08	92.4
GMSMICEPDNMP	4.78E-03	3.43E-01	6.19E-03	7.22E-04	7.01E-04	1.27E-05	2.08E-05	2.08E-05	3.76E-07	92.4

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
STCKPL	0.00E+00	0.00E+00	0.00E+00	5.64E-01	8.54E-02	8.54E-02	0.00E+00	0.00E+00	0.00E+00	0
FBROPHTR	1.95E-02	7.79E-02	5.38E-02	9.27E-03	8.30E-03	2.15E-03	8.30E-04	8.30E-04	5.73E-04	1512
FBROPNMGS1	2.35E-02	5.73E-02	1.98E-02	3.62E-03	3.51E-03	9.09E-04	4.93E-05	4.93E-05	1.70E-05	756
FBROPNMGS2	1.90E-02	3.59E-02	2.48E-02	2.82E-03	2.74E-03	7.08E-04	3.07E-05	3.07E-05	2.12E-05	1512
PIPHTR	6.23E-02	2.49E-01	1.00E-01	2.97E-02	2.65E-02	1.07E-02	2.65E-03	2.65E-03	1.07E-03	882
PIPNMAC	2.11E-01	6.69E-01	2.02E-01	3.12E-02	3.03E-02	9.14E-03	1.13E-03	1.13E-03	3.42E-04	661.5
PIPNMBR	1.13E-01	4.56E-01	1.38E-01	2.41E-02	2.34E-02	7.05E-03	5.64E-04	5.64E-04	1.71E-04	661.5
PIPNMGS1	9.03E-02	2.20E-01	8.87E-02	1.39E-02	1.35E-02	5.43E-03	1.89E-04	1.89E-04	7.62E-05	882
PIPNMGS2	4.88E-02	5.04E-02	2.03E-02	4.55E-03	4.41E-03	1.78E-03	4.34E-05	4.34E-05	1.75E-05	882
PIPNMGS3	9.13E-02	1.72E-01	6.93E-02	1.35E-02	1.31E-02	5.29E-03	1.47E-04	1.47E-04	5.93E-05	882
VSMNMBR	4.49E-02	1.89E-01	5.97E-02	9.34E-03	9.06E-03	2.87E-03	2.36E-04	2.36E-04	7.46E-05	693
HDDPE1	3.51E-01	6.42E-01	6.42E-01	2.01E-02	2.01E-02	2.01E-02	6.64E-04	6.64E-04	6.64E-04	2190
HDDPE2	2.73E-01	4.98E-01	4.98E-01	1.56E-02	1.56E-02	1.56E-02	5.15E-04	5.15E-04	5.15E-04	2190
HDDSE1	3.51E-01	6.42E-01	6.42E-02	2.01E-02	2.01E-02	2.01E-03	6.64E-04	6.64E-04	6.64E-05	219
HDDSE2	1.30E-01	2.46E-01	2.46E-02	7.46E-03	7.46E-03	7.46E-04	2.47E-04	2.47E-04	2.47E-05	219
HDDMPE	3.51E-01	6.42E-01	6.42E-01	2.01E-02	2.01E-02	2.01E-02	6.64E-04	6.64E-04	6.64E-04	2190
HDDTPE	1.50E-01	2.83E-01	2.83E-01	8.58E-03	8.58E-03	8.58E-03	2.84E-04	2.84E-04	2.84E-04	2190
HDDB1	7.87E-03	3.15E-02	3.15E-02	3.75E-03	3.35E-03	3.35E-03	3.35E-04	3.35E-04	3.35E-04	2190
HDDB2	1.57E-02	6.30E-02	6.30E-02	7.50E-03	6.71E-03	6.71E-03	6.71E-04	6.71E-04	6.71E-04	2190
HDDH1_W	2.40E-02	9.59E-02	9.59E-02	1.14E-02	1.02E-02	1.02E-02	1.02E-03	1.02E-03	1.02E-03	2190
HDDH1_E	2.40E-02	9.59E-02	9.59E-02	1.14E-02	1.02E-02	1.02E-02	1.02E-03	1.02E-03	1.02E-03	2190
HDDH2_W	1.10E-02	4.38E-02	4.38E-02	5.22E-03	4.67E-03	4.67E-03	4.67E-04	4.67E-04	4.67E-04	2190
HDDH2_E	1.10E-02	4.38E-02	4.38E-02	5.22E-03	4.67E-03	4.67E-03	4.67E-04	4.67E-04	4.67E-04	2190
HDDWH_W	5.69E-03	2.28E-02	2.28E-02	2.71E-03	2.42E-03	2.42E-03	2.42E-04	2.42E-04	2.42E-04	2190
HDDWH_E	5.69E-03	2.28E-02	2.28E-02	2.71E-03	2.42E-03	2.42E-03	2.42E-04	2.42E-04	2.42E-04	2190

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
HDDNMGE1	1.28E+00	1.46E+00	1.46E+00	7.31E-02	7.31E-02	7.31E-02	2.70E-03	2.70E-03	2.70E-03	2190
HDDNMGE2	6.14E-01	7.02E-01	7.02E-01	3.51E-02	3.51E-02	3.51E-02	1.29E-03	1.29E-03	1.29E-03	2190
HDDNMGE3	7.68E-01	8.77E-01	8.77E-01	4.39E-02	4.39E-02	4.39E-02	1.62E-03	1.62E-03	1.62E-03	2190
HDDNMBGE1	1.28E+00	1.46E+00	1.46E-01	7.31E-02	7.31E-02	7.31E-03	2.70E-03	2.70E-03	2.70E-04	219
HDDNMBGE2	6.14E-01	7.02E-01	7.02E-02	3.51E-02	3.51E-02	3.51E-03	1.29E-03	1.29E-03	1.29E-04	219
HDDNMBGE3	6.14E-01	7.02E-01	7.02E-02	3.51E-02	3.51E-02	3.51E-03	1.29E-03	1.29E-03	1.29E-04	219
HDDNMAC1	4.62E-03	2.13E-02	7.11E-03	8.81E-04	8.54E-04	2.85E-04	5.90E-05	5.90E-05	1.97E-05	730
HDDNMAC2	4.62E-03	2.13E-02	7.11E-03	8.81E-04	8.54E-04	2.85E-04	5.90E-05	5.90E-05	1.97E-05	730
HDDNROCE1	6.99E-03	2.11E-02	7.04E-03	1.22E-03	1.18E-03	3.93E-04	5.95E-05	5.95E-05	1.98E-05	730
HDDNROCE2	6.99E-03	2.11E-02	7.04E-03	1.22E-03	1.18E-03	3.93E-04	5.95E-05	5.95E-05	1.98E-05	730
HDDNRC	3.45E-03	1.68E-02	5.60E-03	5.90E-04	5.73E-04	1.91E-04	6.33E-05	6.33E-05	2.11E-05	730
WOCPWRGEN	3.89E+00	3.89E+00	1.94E+00	1.11E-01	1.11E-01	5.56E-02	7.35E-03	7.35E-03	3.67E-03	4380
WOCTEMPTRB	5.29E+00	6.96E+00	6.96E+00	1.83E-01	1.83E-01	1.83E-01	2.37E-02	2.37E-02	2.37E-02	8760
WOCFACHTR1	9.28E-02	3.71E-01	1.42E-01	4.42E-02	3.95E-02	1.52E-02	3.95E-03	3.95E-03	1.52E-03	2520
WOCFACNMAC	4.08E-02	6.21E-02	5.95E-03	5.35E-03	5.19E-03	4.97E-04	1.55E-04	1.55E-04	1.48E-05	630
WOCFACNR	2.04E-01	3.12E-01	2.54E-01	2.82E-02	2.74E-02	2.34E-02	5.01E-04	5.01E-04	3.97E-04	1890
WOCFACNMGS1	5.60E-02	2.02E-01	7.74E-02	1.21E-02	1.17E-02	4.49E-03	2.38E-04	2.38E-04	9.13E-05	2520
WOCFACNMGS2	9.06E-02	1.71E-01	6.55E-02	1.34E-02	1.30E-02	5.00E-03	1.46E-04	1.46E-04	5.60E-05	2520
WOCFUGD	0.00E+00	0.00E+00	0.00E+00	1.11E-01	1.66E-02	1.66E-02	0.00E+00	0.00E+00	0.00E+00	4380
WCFFACHTR1	1.64E-01	6.57E-01	2.52E-01	7.82E-02	7.00E-02	2.69E-02	7.00E-03	7.00E-03	2.69E-03	2520
WCFFACNMAC	6.74E-02	1.03E-01	9.84E-03	8.84E-03	8.58E-03	8.23E-04	2.55E-04	2.55E-04	2.45E-05	630
WCFFACNMGS1	2.76E-01	9.96E-01	3.82E-01	5.95E-02	5.78E-02	2.22E-02	1.17E-03	1.17E-03	4.51E-04	2520
WCFFACNMGS2	1.60E-01	3.03E-01	1.16E-01	2.38E-02	2.31E-02	8.85E-03	2.59E-04	2.59E-04	9.93E-05	2520
WCFFUGD	0.00E+00	0.00E+00	0.00E+00	3.45E-02	5.17E-03	5.17E-03	0.00E+00	0.00E+00	0.00E+00	4380
WILLOWAIR1	1.33E-07	4.40E-08	4.40E-08	2.66E-09	2.66E-09	2.66E-09	9.35E-09	9.35E-09	9.35E-09	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WILLOWAIR2	1.33E-07	4.40E-08	4.40E-08	2.66E-09	2.66E-09	2.66E-09	9.35E-09	9.35E-09	9.35E-09	8760
WILLOWAIR3	1.33E-07	4.40E-08	4.40E-08	2.66E-09	2.66E-09	2.66E-09	9.35E-09	9.35E-09	9.35E-09	8760
2TAIL1	1.06E-02	2.61E-02	1.81E-02	1.48E-03	1.42E-03	9.87E-04	6.87E-05	6.87E-05	4.78E-05	8760
2TAIL2	1.06E-02	2.61E-02	1.81E-02	1.48E-03	1.42E-03	9.87E-04	6.87E-05	6.87E-05	4.78E-05	8760
2TAIL3	1.06E-02	2.61E-02	1.81E-02	1.48E-03	1.42E-03	9.87E-04	6.87E-05	6.87E-05	4.78E-05	8760
2TAIL4	1.06E-02	2.61E-02	1.81E-02	1.48E-03	1.42E-03	9.87E-04	6.87E-05	6.87E-05	4.78E-05	8760
3TAIL1	1.06E-02	2.61E-02	1.81E-02	1.48E-03	1.42E-03	9.87E-04	6.87E-05	6.87E-05	4.78E-05	8760
3TAIL2	1.06E-02	2.61E-02	1.81E-02	1.48E-03	1.42E-03	9.87E-04	6.87E-05	6.87E-05	4.78E-05	8760
3TAIL3	1.06E-02	2.61E-02	1.81E-02	1.48E-03	1.42E-03	9.87E-04	6.87E-05	6.87E-05	4.78E-05	8760
3TAIL4	1.06E-02	2.61E-02	1.81E-02	1.48E-03	1.42E-03	9.87E-04	6.87E-05	6.87E-05	4.78E-05	8760
1TAIL1	2.56E-04	3.06E-04	3.06E-04	2.70E-05	1.65E-05	1.65E-05	1.10E-06	1.10E-06	1.10E-06	8760
1TAIL2	2.56E-04	3.06E-04	3.06E-04	2.70E-05	1.65E-05	1.65E-05	1.10E-06	1.10E-06	1.10E-06	8760
1TAIL3	2.56E-04	3.06E-04	3.06E-04	2.70E-05	1.65E-05	1.65E-05	1.10E-06	1.10E-06	1.10E-06	8760
1TAIL4	2.56E-04	3.06E-04	3.06E-04	2.70E-05	1.65E-05	1.65E-05	1.10E-06	1.10E-06	1.10E-06	8760
WOCTAIL1	2.56E-04	3.06E-04	3.06E-04	2.70E-05	1.65E-05	1.65E-05	1.10E-06	1.10E-06	1.10E-06	8760
WOCTAIL2	2.56E-04	3.06E-04	3.06E-04	2.70E-05	1.65E-05	1.65E-05	1.10E-06	1.10E-06	1.10E-06	8760
WOCTAIL3	2.56E-04	3.06E-04	3.06E-04	2.70E-05	1.65E-05	1.65E-05	1.10E-06	1.10E-06	1.10E-06	8760
WOCTAIL4	2.56E-04	3.06E-04	3.06E-04	2.70E-05	1.65E-05	1.65E-05	1.10E-06	1.10E-06	1.10E-06	8760
WCFTAIL1	2.56E-04	3.06E-04	3.06E-04	2.70E-05	1.65E-05	1.65E-05	1.10E-06	1.10E-06	1.10E-06	8760
WCFTAIL2	2.56E-04	3.06E-04	3.06E-04	2.70E-05	1.65E-05	1.65E-05	1.10E-06	1.10E-06	1.10E-06	8760
WCFTAIL3	2.56E-04	3.06E-04	3.06E-04	2.70E-05	1.65E-05	1.65E-05	1.10E-06	1.10E-06	1.10E-06	8760
WCFTAIL4	2.56E-04	3.06E-04	3.06E-04	2.70E-05	1.65E-05	1.65E-05	1.10E-06	1.10E-06	1.10E-06	8760
MINETAIL1	1.06E-02	2.61E-02	1.81E-02	1.48E-03	1.42E-03	9.87E-04	6.87E-05	6.87E-05	4.78E-05	8760
MINETAIL2	1.06E-02	2.61E-02	1.81E-02	1.48E-03	1.42E-03	9.87E-04	6.87E-05	6.87E-05	4.78E-05	8760
MINETAIL3	1.06E-02	2.61E-02	1.81E-02	1.48E-03	1.42E-03	9.87E-04	6.87E-05	6.87E-05	4.78E-05	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MINETAIL4	1.06E-02	2.61E-02	1.81E-02	1.48E-03	1.42E-03	9.87E-04	6.87E-05	6.87E-05	4.78E-05	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD1	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD1	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD2	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD3	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD4	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD1	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD2	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD3	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD4	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
MINEMFUGD1	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
MINEMFUGD2	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
MINEMFUGD3	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380
MINEMFUGD4	0.00E+00	0.00E+00	0.00E+00	2.14E-02	2.14E-03	2.14E-03	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
2GRVLNR1	9.40E-06	2.46E-05	2.11E-05	1.29E-06	1.25E-06	1.08E-06	1.01E-07	1.01E-07	8.67E-08	VARIES
2GRVLNR2	9.40E-06	2.46E-05	2.11E-05	1.29E-06	1.25E-06	1.08E-06	1.01E-07	1.01E-07	8.67E-08	VARIES
2GRVLNR3	9.40E-06	2.46E-05	2.11E-05	1.29E-06	1.25E-06	1.08E-06	1.01E-07	1.01E-07	8.67E-08	VARIES
2GRVLNR4	9.40E-06	2.46E-05	2.11E-05	1.29E-06	1.25E-06	1.08E-06	1.01E-07	1.01E-07	8.67E-08	VARIES
3GRVLNR1	9.40E-06	2.46E-05	2.11E-05	1.29E-06	1.25E-06	1.08E-06	1.01E-07	1.01E-07	8.67E-08	VARIES
3GRVLNR2	9.40E-06	2.46E-05	2.11E-05	1.29E-06	1.25E-06	1.08E-06	1.01E-07	1.01E-07	8.67E-08	VARIES
3GRVLNR3	9.40E-06	2.46E-05	2.11E-05	1.29E-06	1.25E-06	1.08E-06	1.01E-07	1.01E-07	8.67E-08	VARIES
3GRVLNR4	9.40E-06	2.46E-05	2.11E-05	1.29E-06	1.25E-06	1.08E-06	1.01E-07	1.01E-07	8.67E-08	VARIES
ICEPDNRHCE	3.84E-02	1.03E-01	9.51E-02	4.99E-03	4.84E-03	4.46E-03	1.75E-04	1.75E-04	1.61E-04	2492.952
ICEPDNROS1	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS2	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS3	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS4	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS5	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS6	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS7	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS8	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS9	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS10	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS11	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS12	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS13	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS14	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS15	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS16	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNROS17	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS18	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS19	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS20	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS21	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS22	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS23	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS24	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS25	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS26	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS27	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS28	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS29	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS30	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS31	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS32	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS33	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS34	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS35	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS36	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS37	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS38	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS39	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS40	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS41	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNROS42	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS43	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNROS44	5.01E-04	1.35E-03	1.24E-03	6.52E-05	6.33E-05	5.83E-05	2.28E-06	2.28E-06	2.10E-06	2492.952
ICEPDNRIOS1	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS2	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS3	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS4	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS5	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS6	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS7	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS8	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS9	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS10	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS11	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS12	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS13	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS14	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS15	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS16	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS17	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS18	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS19	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS20	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS21	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS22	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRIOS23	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS24	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS25	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS26	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS27	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS28	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS29	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS30	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS31	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS32	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS33	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS34	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS35	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS36	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS37	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS38	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS39	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS40	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS41	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS42	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS43	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRIOS44	2.89E-03	7.78E-03	7.16E-03	3.76E-04	3.65E-04	3.36E-04	1.31E-05	1.31E-05	1.21E-05	2492.952
ICEPDNRPIP1	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP2	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP3	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRPIP4	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP5	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP6	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP7	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP8	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP9	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP10	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP11	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP12	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP13	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP14	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP15	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP16	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP17	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP18	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP19	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP20	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP21	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP22	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP23	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP24	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP25	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP26	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP27	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP28	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRPIP29	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP30	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP31	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP32	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP33	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP34	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP35	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP36	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP37	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP38	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP39	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP40	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP41	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP42	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP43	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRPIP44	3.24E-03	8.74E-03	8.05E-03	4.22E-04	4.10E-04	3.77E-04	1.48E-05	1.48E-05	1.36E-05	2492.952
ICEPDNRHDD1	1.46E-02	3.94E-02	3.63E-02	1.90E-03	1.85E-03	1.70E-03	6.66E-05	6.66E-05	6.13E-05	2492.952
ICEPDNRHDD2	1.30E-02	3.50E-02	3.22E-02	1.69E-03	1.64E-03	1.51E-03	5.91E-05	5.91E-05	5.44E-05	2492.952
ICERDNR1	9.89E-04	1.23E-03	1.21E-04	1.29E-04	1.25E-04	1.23E-05	4.50E-06	4.50E-06	4.43E-07	576.8895
ICERDNR2	9.89E-04	1.23E-03	1.21E-04	1.29E-04	1.25E-04	1.23E-05	4.50E-06	4.50E-06	4.43E-07	576.8895
ICERDNR3	9.89E-04	1.23E-03	1.21E-04	1.29E-04	1.25E-04	1.23E-05	4.50E-06	4.50E-06	4.43E-07	576.8895
ICERDNR4	9.89E-04	1.23E-03	1.21E-04	1.29E-04	1.25E-04	1.23E-05	4.50E-06	4.50E-06	4.43E-07	576.8895
PIPNR1	1.41E-05	5.04E-05	3.65E-05	2.16E-06	2.09E-06	1.51E-06	1.60E-07	1.60E-07	1.14E-07	VARIES
PIPNR2	1.41E-05	5.04E-05	3.65E-05	2.16E-06	2.09E-06	1.51E-06	1.60E-07	1.60E-07	1.14E-07	VARIES
PIPNR3	1.41E-05	5.04E-05	3.65E-05	2.16E-06	2.09E-06	1.51E-06	1.60E-07	1.60E-07	1.14E-07	VARIES

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
PIPNR4	1.41E-05	5.04E-05	3.65E-05	2.16E-06	2.09E-06	1.51E-06	1.60E-07	1.60E-07	1.14E-07	VARIES
VSMNR1	4.21E-06	1.12E-05	1.04E-05	5.96E-07	5.78E-07	5.71E-07	2.18E-08	2.18E-08	1.94E-08	VARIES
VSMNR2	4.21E-06	1.12E-05	1.04E-05	5.96E-07	5.78E-07	5.71E-07	2.18E-08	2.18E-08	1.94E-08	VARIES
VSMNR3	4.21E-06	1.12E-05	1.04E-05	5.96E-07	5.78E-07	5.71E-07	2.18E-08	2.18E-08	1.94E-08	VARIES
VSMNR4	4.21E-06	1.12E-05	1.04E-05	5.96E-07	5.78E-07	5.71E-07	2.18E-08	2.18E-08	1.94E-08	VARIES
FBROPNR1	2.05E-06	3.39E-06	2.55E-06	2.69E-07	2.61E-07	9.02E-08	7.10E-09	7.10E-09	4.19E-09	VARIES
FBROPNR2	2.05E-06	3.39E-06	2.55E-06	2.69E-07	2.61E-07	9.02E-08	7.10E-09	7.10E-09	4.19E-09	VARIES
FBROPNR3	2.05E-06	3.39E-06	2.55E-06	2.69E-07	2.61E-07	9.02E-08	7.10E-09	7.10E-09	4.19E-09	VARIES
FBROPNR4	2.05E-06	3.39E-06	2.55E-06	2.69E-07	2.61E-07	9.02E-08	7.10E-09	7.10E-09	4.19E-09	VARIES
2PADNR1	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADNR2	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADNR3	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADNR4	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR1	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR2	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR3	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR4	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
MINENR1	1.64E-02	3.83E-02	2.24E-02	2.26E-03	2.19E-03	1.38E-03	9.26E-05	9.26E-05	5.03E-05	VARIES
MINENR2	1.64E-02	3.83E-02	2.24E-02	2.26E-03	2.19E-03	1.38E-03	9.26E-05	9.26E-05	5.03E-05	VARIES
MINENR3	1.64E-02	3.83E-02	2.24E-02	2.26E-03	2.19E-03	1.38E-03	9.26E-05	9.26E-05	5.03E-05	VARIES
MINENR4	1.64E-02	3.83E-02	2.24E-02	2.26E-03	2.19E-03	1.38E-03	9.26E-05	9.26E-05	5.03E-05	VARIES
MINENR5	1.64E-02	3.83E-02	2.24E-02	2.26E-03	2.19E-03	1.38E-03	9.26E-05	9.26E-05	5.03E-05	VARIES
MINENR6	1.64E-02	3.83E-02	2.24E-02	2.26E-03	2.19E-03	1.38E-03	9.26E-05	9.26E-05	5.03E-05	VARIES
MINENR7	1.64E-02	3.83E-02	2.24E-02	2.26E-03	2.19E-03	1.38E-03	9.26E-05	9.26E-05	5.03E-05	VARIES
MINENR8	1.64E-02	3.83E-02	2.24E-02	2.26E-03	2.19E-03	1.38E-03	9.26E-05	9.26E-05	5.03E-05	VARIES

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MINENR9	1.64E-02	3.83E-02	2.24E-02	2.26E-03	2.19E-03	1.38E-03	9.26E-05	9.26E-05	5.03E-05	VARIES
2PADOHT1	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT2	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT3	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT4	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT1	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT2	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT3	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT4	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2GRVLOHT1	1.73E-05	4.32E-05	2.99E-05	2.43E-06	2.36E-06	1.63E-06	1.13E-07	1.13E-07	7.82E-08	1512
2GRVLOHT2	1.73E-05	4.32E-05	2.99E-05	2.43E-06	2.36E-06	1.63E-06	1.13E-07	1.13E-07	7.82E-08	1512
2GRVLOHT3	1.73E-05	4.32E-05	2.99E-05	2.43E-06	2.36E-06	1.63E-06	1.13E-07	1.13E-07	7.82E-08	1512
2GRVLOHT4	1.73E-05	4.32E-05	2.99E-05	2.43E-06	2.36E-06	1.63E-06	1.13E-07	1.13E-07	7.82E-08	1512
3GRVLOHT1	1.73E-05	4.32E-05	2.99E-05	2.43E-06	2.36E-06	1.63E-06	1.13E-07	1.13E-07	7.82E-08	1512
3GRVLOHT2	1.73E-05	4.32E-05	2.99E-05	2.43E-06	2.36E-06	1.63E-06	1.13E-07	1.13E-07	7.82E-08	1512
3GRVLOHT3	1.73E-05	4.32E-05	2.99E-05	2.43E-06	2.36E-06	1.63E-06	1.13E-07	1.13E-07	7.82E-08	1512
3GRVLOHT4	1.73E-05	4.32E-05	2.99E-05	2.43E-06	2.36E-06	1.63E-06	1.13E-07	1.13E-07	7.82E-08	1512
MINEOHT1	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT2	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT3	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT4	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT5	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT6	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT7	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT8	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MINEOHT9	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
WCFFACNR1	7.87E-02	1.26E-01	1.05E-01	1.09E-02	1.06E-02	9.14E-03	2.16E-04	2.16E-04	1.78E-04	VARIES
WCFFACNR2	7.87E-02	1.26E-01	1.05E-01	1.09E-02	1.06E-02	9.14E-03	2.16E-04	2.16E-04	1.78E-04	VARIES
WCFFACNR3	7.87E-02	1.26E-01	1.05E-01	1.09E-02	1.06E-02	9.14E-03	2.16E-04	2.16E-04	1.78E-04	VARIES
WCFFACNR4	7.87E-02	1.26E-01	1.05E-01	1.09E-02	1.06E-02	9.14E-03	2.16E-04	2.16E-04	1.78E-04	VARIES
WLW2GEN	1.25E-01	2.28E-01	1.30E-02	7.13E-03	7.13E-03	4.07E-04	0.00E+00	0.00E+00	0.00E+00	500

A.1.2 Scenario 2: BT1 Pre-Drill

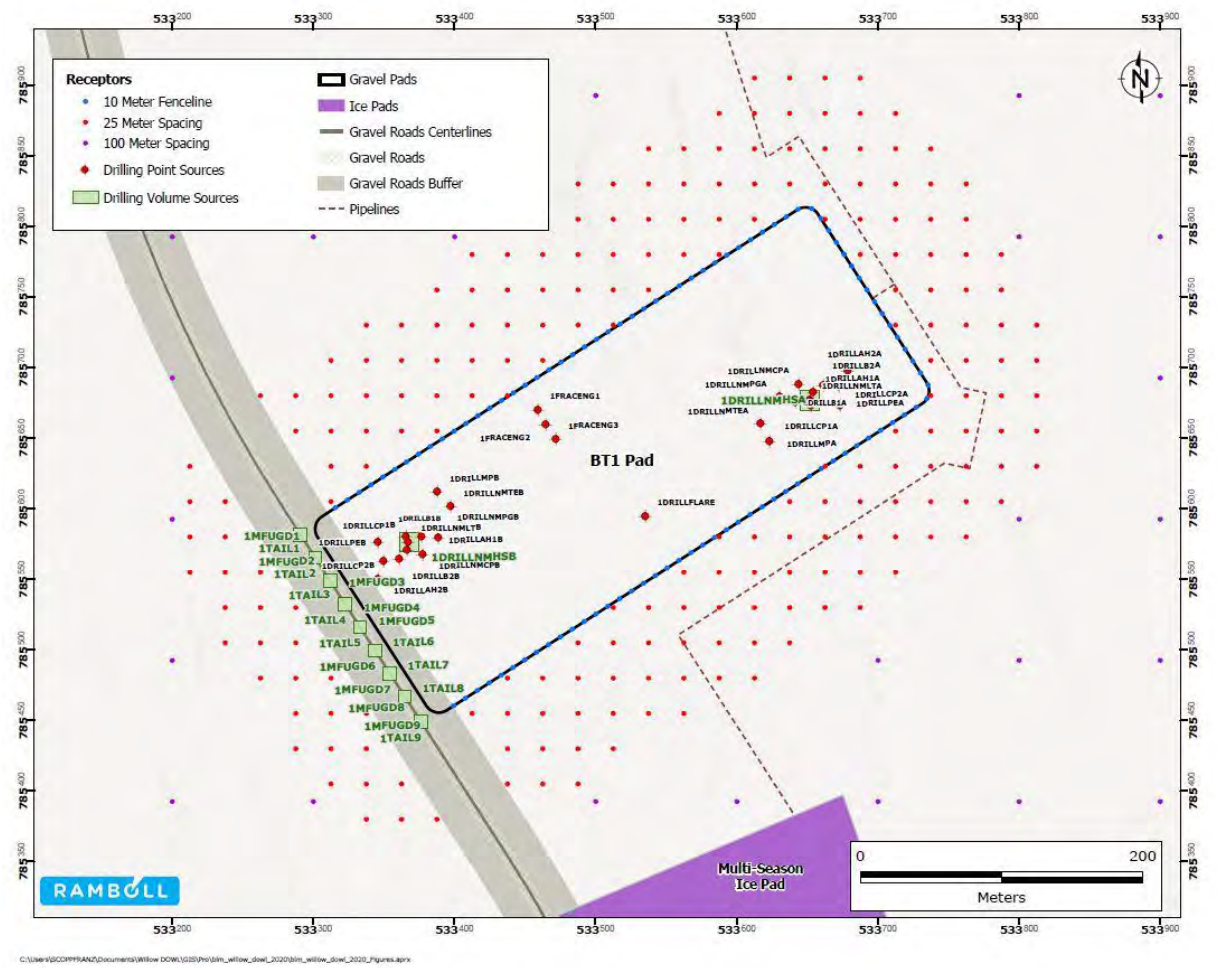


Figure A.1-11. Alternative B Near-field Model Scenario 2 Source Locations at BT1.

Table A.1-4. Alternative B Near-field Model Scenario 2 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1DRILLPEA	POINT	Drill Rigs - Primary Power Engines A	0.1	Diesel engines
1DRILLPEB	POINT	Drill Rigs - Primary Power Engines B	0.1	Diesel engines
1DRILLCP1A	POINT	Drill Rigs - Cement Pumping Unit #1 A	0.2	Diesel tailpipe from non-road equipment
1DRILLCP1B	POINT	Drill Rigs - Cement Pumping Unit #1 B	0.2	Diesel tailpipe from non-road equipment
1DRILLCP2A	POINT	Drill Rigs - Cement Pumping Unit #2 A	0.2	Diesel tailpipe from non-road equipment
1DRILLCP2B	POINT	Drill Rigs - Cement Pumping Unit #2 B	0.2	Diesel tailpipe from non-road equipment
1DRILLB1A	POINT	Drill Rigs - Boiler #1 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLB1B	POINT	Drill Rigs - Boiler #1 B	0.05	Diesel or natural gas heaters, or boiler
1DRILLB2A	POINT	Drill Rigs - Boiler #2 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLB2B	POINT	Drill Rigs - Boiler #2 B	0.05	Diesel or natural gas heaters, or boiler
1DRILLAH1A	POINT	Drill Rigs - Air Heater #1 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLAH1B	POINT	Drill Rigs - Air Heater #1 B	0.05	Diesel or natural gas heaters, or boiler
1DRILLAH2A	POINT	Drill Rigs - Air Heater #2 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLAH2B	POINT	Drill Rigs - Air Heater #2 B	0.05	Diesel or natural gas heaters, or boiler
1DRILLMPA	POINT	Drill Rigs - Mud Pit Heater A	0.05	Diesel or natural gas heaters, or boiler
1DRILLMPB	POINT	Drill Rigs - Mud Pit Heater B	0.05	Diesel or natural gas heaters, or boiler
1DRILLNMTEA	POINT	Drilling Non-Mobile Support Equipment - Total Engine A	0.1	Diesel engines
1DRILLNMTEB	POINT	Drilling Non-Mobile Support Equipment - Total Engine B	0.1	Diesel engines
1DRILLNMLTA	POINT	Drilling Non-Mobile Support Equipment - Total Lighting Engine A	0.2	Diesel tailpipe from non-road equipment
1DRILLNMLTB	POINT	Drilling Non-Mobile Support Equipment - Total Lighting Engine B	0.2	Diesel tailpipe from non-road equipment
1DRILLNMPGA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Generators A	0.1	Diesel engines
1DRILLNMPGB	POINT	Drilling Non-Mobile Support Equipment - Total Portable Generators B	0.1	Diesel engines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1DRILLNMCPA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine A	0.1	Diesel engines
1DRILLNMCPB	POINT	Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine B	0.1	Diesel engines
1DRILLNMHSA	VOLUME	Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel or natural gas heaters, or boiler
1DRILLNMHSB	VOLUME	Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel or natural gas heaters, or boiler
1FRACENG1	POINT	Hydraulic Fracturing - Well Frac Engine 1	0.1	Diesel engines
1FRACENG2	POINT	Hydraulic Fracturing - Well Frac Engine 2	0.1	Diesel engines
1FRACENG3	POINT	Hydraulic Fracturing - Well Frac Engine 3	0.1	Diesel engines
1DRILLFLARE	POINT	Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	USEPA default value
1TAIL1	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL6	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL7	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL8	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL9	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD6	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1MFUGD7	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD8	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD9	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-

Table A.1-5. Alternative B Near-field Model Scenario 2 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1DRILLPEA	POINT	2.74	13.3	0.4	10.5	614	-	-	-	-	-
1DRILLPEB	POINT	2.74	13.3	0.4	10.5	614	-	-	-	-	-
1DRILLCP1A	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
1DRILLCP1B	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
1DRILLCP2A	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
1DRILLCP2B	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
1DRILLB1A	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
1DRILLB1B	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
1DRILLB2A	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
1DRILLB2B	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
1DRILLAH1A	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
1DRILLAH1B	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
1DRILLAH2A	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
1DRILLAH2B	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
1DRILLMPA	POINT	2.74	7.2	0.3	10.8	533	-	-	-	-	-
1DRILLMPB	POINT	2.74	7.2	0.3	10.8	533	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1DRILLNMTEA	POINT	2.74	6.5	0.3	47	761	-	-	-	-	-
1DRILLNMTEB	POINT	2.74	6.5	0.3	47	761	-	-	-	-	-
1DRILLNMLTA	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
1DRILLNMLTB	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
1DRILLNMPGA	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
1DRILLNMPGB	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
1DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-	-	-	-
1DRILLNMCPB	POINT	2.74	3.7	0.3	46	689	-	-	-	-	-
1DRILLNMHSA	VOLUME	2.74	3.7	-	-	-	13.95	3.38	-	-	-
1DRILLNMHSB	VOLUME	2.74	3.7	-	-	-	13.95	3.38	-	-	-
1FRACENG1	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
1FRACENG2	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
1FRACENG3	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
1DRILLFLARE	POINT	2.74	10.1	0.3	6.1	1033	-	-	-	-	-
1TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL7	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL8	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL9	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD7	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD8	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD9	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-

Table A.1-6. Alternative B Near-field Model Scenario 2 Emissions Rates

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1DRILLPEA	3.21E+00	6.15E-01	6.15E-01	2.75E-02	2.75E-02	2.75E-02	4.74E-03	4.74E-03	4.74E-03	8760
1DRILLPEB	3.21E+00	6.15E-01	6.15E-01	2.75E-02	2.75E-02	2.75E-02	4.74E-03	4.74E-03	4.74E-03	8760
1DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLCP1B	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLCP2B	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLB1B	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLB2B	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
1DRILLAH1B	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
1DRILLAH2B	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
1DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
1DRILLMPB	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
1DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
1DRILLNMTEB	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
1DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
1DRILLNMLTB	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
1DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
1DRILLNMPGB	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
1DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
1DRILLNMCPB	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
1DRILLNMHSA	2.15E-02	8.59E-02	6.44E-02	1.02E-02	9.15E-03	6.86E-03	9.15E-04	9.15E-04	6.86E-04	8760
1DRILLNMHSB	2.15E-02	8.59E-02	6.44E-02	1.02E-02	9.15E-03	6.86E-03	9.15E-04	9.15E-04	6.86E-04	8760
1FRACENG1	3.11E-02	2.49E-03	8.17E-04	1.24E-04	1.24E-04	4.09E-05	4.11E-05	4.11E-05	1.35E-05	5840
1FRACENG2	1.79E-01	3.43E-02	1.13E-02	1.54E-03	1.54E-03	5.06E-04	3.78E-04	3.78E-04	1.24E-04	5840
1FRACENG3	2.61E+00	5.00E-01	1.64E-01	2.24E-02	2.24E-02	7.35E-03	5.50E-03	5.50E-03	1.81E-03	5840
1DRILLFLARE	1.08E+00	1.98E-01	1.95E-02	4.79E-05	4.79E-05	4.72E-06	1.16E-02	1.16E-02	1.14E-03	864
1TAIL1	4.76E-06	9.26E-06	9.26E-06	1.46E-06	4.49E-07	4.49E-07	5.97E-08	5.97E-08	5.97E-08	8760
1TAIL2	4.76E-06	9.26E-06	9.26E-06	1.46E-06	4.49E-07	4.49E-07	5.97E-08	5.97E-08	5.97E-08	8760
1TAIL3	4.76E-06	9.26E-06	9.26E-06	1.46E-06	4.49E-07	4.49E-07	5.97E-08	5.97E-08	5.97E-08	8760
1TAIL4	4.76E-06	9.26E-06	9.26E-06	1.46E-06	4.49E-07	4.49E-07	5.97E-08	5.97E-08	5.97E-08	8760
1TAIL5	4.76E-06	9.26E-06	9.26E-06	1.46E-06	4.49E-07	4.49E-07	5.97E-08	5.97E-08	5.97E-08	8760
1TAIL6	4.76E-06	9.26E-06	9.26E-06	1.46E-06	4.49E-07	4.49E-07	5.97E-08	5.97E-08	5.97E-08	8760
1TAIL7	4.76E-06	9.26E-06	9.26E-06	1.46E-06	4.49E-07	4.49E-07	5.97E-08	5.97E-08	5.97E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1TAIL8	4.76E-06	9.26E-06	9.26E-06	1.46E-06	4.49E-07	4.49E-07	5.97E-08	5.97E-08	5.97E-08	8760
1TAIL9	4.76E-06	9.26E-06	9.26E-06	1.46E-06	4.49E-07	4.49E-07	5.97E-08	5.97E-08	5.97E-08	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	2.61E-03	2.61E-04	2.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.61E-03	2.61E-04	2.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.61E-03	2.61E-04	2.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.61E-03	2.61E-04	2.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	2.61E-03	2.61E-04	2.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	2.61E-03	2.61E-04	2.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD7	0.00E+00	0.00E+00	0.00E+00	2.61E-03	2.61E-04	2.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD8	0.00E+00	0.00E+00	0.00E+00	2.61E-03	2.61E-04	2.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD9	0.00E+00	0.00E+00	0.00E+00	2.61E-03	2.61E-04	2.61E-04	0.00E+00	0.00E+00	0.00E+00	4380

A.1.3 Scenario 3: BT1/BT2 Pre-Drill

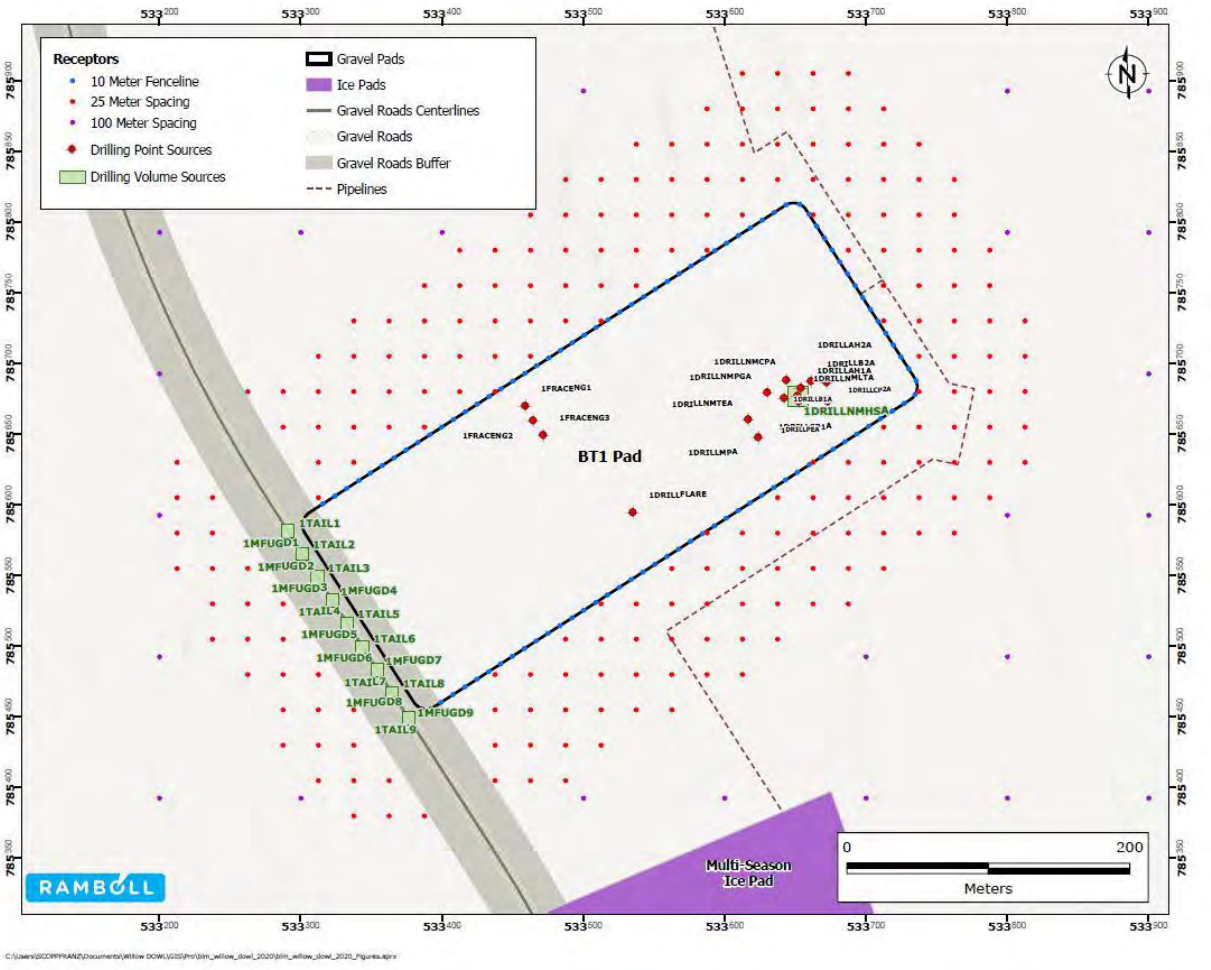


Figure A.1-12. Alternative B Near-field Model Scenario 3 Source Locations at BT1.

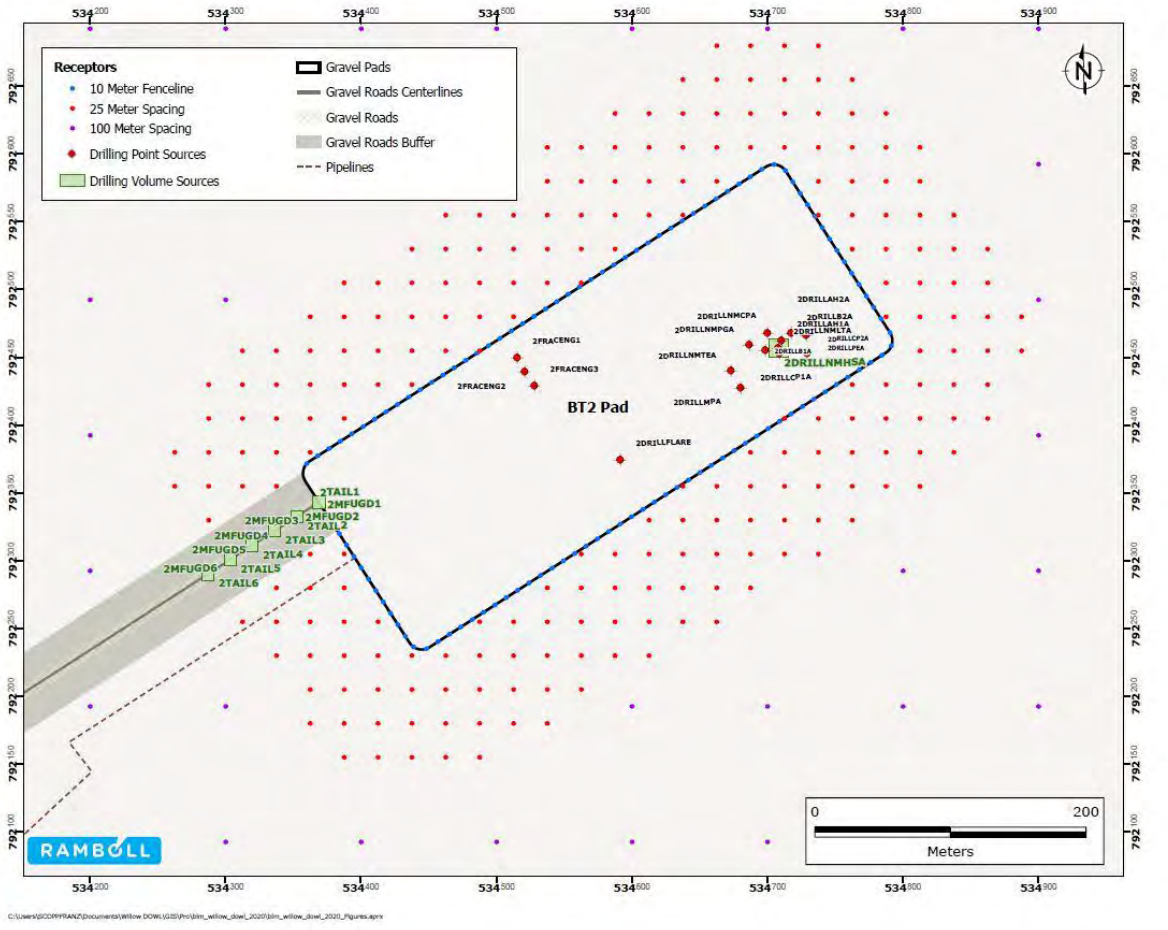


Figure A.1-13. Alternative B Near-field Model Scenario 3 Source Locations at BT2.

Table A.1-7. Alternative B Near-field Model Scenario 3 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1DRILLPEA	POINT	Drill Rigs - Primary Power Engines A	0.1	Diesel engines
2DRILLPEA	POINT	Drill Rigs - Primary Power Engines A	0.1	Diesel engines
1DRILLCP1A	POINT	Drill Rigs - Cement Pumping Unit #1 A	0.2	Diesel tailpipe from non-road equipment
2DRILLCP1A	POINT	Drill Rigs - Cement Pumping Unit #1 A	0.2	Diesel tailpipe from non-road equipment
1DRILLCP2A	POINT	Drill Rigs - Cement Pumping Unit #2 A	0.2	Diesel tailpipe from non-road equipment
2DRILLCP2A	POINT	Drill Rigs - Cement Pumping Unit #2 A	0.2	Diesel tailpipe from non-road equipment
1DRILLB1A	POINT	Drill Rigs - Boiler #1 A	0.05	Diesel or natural gas heaters, or boiler
2DRILLB1A	POINT	Drill Rigs - Boiler #1 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLB2A	POINT	Drill Rigs - Boiler #2 A	0.05	Diesel or natural gas heaters, or boiler
2DRILLB2A	POINT	Drill Rigs - Boiler #2 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLAH1A	POINT	Drill Rigs - Air Heater #1 A	0.05	Diesel or natural gas heaters, or boiler
2DRILLAH1A	POINT	Drill Rigs - Air Heater #1 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLAH2A	POINT	Drill Rigs - Air Heater #2 A	0.05	Diesel or natural gas heaters, or boiler
2DRILLAH2A	POINT	Drill Rigs - Air Heater #2 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLMPA	POINT	Drill Rigs - Mud Pit Heater A	0.05	Diesel or natural gas heaters, or boiler
2DRILLMPA	POINT	Drill Rigs - Mud Pit Heater A	0.05	Diesel or natural gas heaters, or boiler
1DRILLNMTEA	POINT	Drilling Non-Mobile Support Equipment - Total Engine A	0.1	Diesel engines
2DRILLNMTEA	POINT	Drilling Non-Mobile Support Equipment - Total Engine A	0.1	Diesel engines
1DRILLNMLTA	POINT	Drilling Non-Mobile Support Equipment - Total Lighting Engine A	0.2	Diesel tailpipe from non-road equipment
2DRILLNMLTA	POINT	Drilling Non-Mobile Support Equipment - Total Lighting Engine A	0.2	Diesel tailpipe from non-road equipment
1DRILLNMPGA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Generators A	0.1	Diesel engines
2DRILLNMPGA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Generators A	0.1	Diesel engines
1DRILLNMCPA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine A	0.1	Diesel engines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2DRILLNMCPA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine A	0.1	Diesel engines
1DRILLNMHSA	VOLUME	Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel or natural gas heaters, or boiler
2DRILLNMHSA	VOLUME	Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel or natural gas heaters, or boiler
1FRACENG1	POINT	Hydraulic Fracturing - Well Frac Engine 1	0.1	Diesel engines
1FRACENG2	POINT	Hydraulic Fracturing - Well Frac Engine 2	0.1	Diesel engines
1FRACENG3	POINT	Hydraulic Fracturing - Well Frac Engine 3	0.1	Diesel engines
1DRILLFLARE	POINT	Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	USEPA default value
2FRACENG1	POINT	Hydraulic Fracturing - Well Frac Engine 1	0.1	Diesel engines
2FRACENG2	POINT	Hydraulic Fracturing - Well Frac Engine 2	0.1	Diesel engines
2FRACENG3	POINT	Hydraulic Fracturing - Well Frac Engine 3	0.1	Diesel engines
2DRILLFLARE	POINT	Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	USEPA default value
1TAIL1	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL6	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL7	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL8	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL9	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
2TAIL1	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL4	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2TAIL5	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL6	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD6	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD7	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD8	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD9	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD3	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD5	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD6	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-

Table A.1-8. Alternative B Near-field Model Scenario 3 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1DRILLPEA	POINT	2.74	13.3	0.4	10.5	614	-	-	-	-	-
2DRILLPEA	POINT	2.74	13.3	0.4	10.5	614	-	-	-	-	-
1DRILLCP1A	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
2DRILLCP1A	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
1DRILLCP2A	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
2DRILLCP2A	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
1DRILLB1A	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
2DRILLB1A	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
1DRILLB2A	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
2DRILLB2A	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
1DRILLAH1A	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
2DRILLAH1A	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
1DRILLAH2A	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
2DRILLAH2A	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
1DRILLMPA	POINT	2.74	7.2	0.3	10.8	533	-	-	-	-	-
2DRILLMPA	POINT	2.74	7.2	0.3	10.8	533	-	-	-	-	-
1DRILLNMTEA	POINT	2.74	6.5	0.3	47	761	-	-	-	-	-
2DRILLNMTEA	POINT	2.74	6.5	0.3	47	761	-	-	-	-	-
1DRILLNMLTA	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
2DRILLNMLTA	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
1DRILLNMPGA	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
2DRILLNMPGA	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
1DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-	-	-	-
2DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-	-	-	-
1DRILLNMHSA	VOLUME	2.74	3.7	-	-	-	13.95	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2DRILLNMHSA	VOLUME	2.74	3.7	-	-	-	13.95	3.38	-	-	-
1FRACENG1	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
1FRACENG2	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
1FRACENG3	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
1DRILLFLARE	POINT	2.74	10.1	0.3	6.1	1033	-	-	-	-	-
2FRACENG1	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
2FRACENG2	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
2FRACENG3	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
2DRILLFLARE	POINT	2.74	10.1	0.3	6.1	1033	-	-	-	-	-
1TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL7	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL8	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL9	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD7	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD8	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD9	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-

Table A.1-9. Alternative B Near-field Model Scenario 3 Emissions Rates

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1DRILLPEA	3.21E+00	6.15E-01	6.15E-01	2.75E-02	2.75E-02	2.75E-02	4.74E-03	4.74E-03	4.74E-03	8760
2DRILLPEA	3.21E+00	6.15E-01	6.15E-01	2.75E-02	2.75E-02	2.75E-02	4.74E-03	4.74E-03	4.74E-03	8760
1DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
2DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
2DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
2DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
2DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
2DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
1DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
2DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
1DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
2DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
1DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
2DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
1DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
2DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
1DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
2DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
1DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
2DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1DRILLNMHSA	2.15E-02	8.59E-02	6.44E-02	1.02E-02	9.15E-03	6.86E-03	9.15E-04	9.15E-04	6.86E-04	8760
2DRILLNMHSA	2.15E-02	8.59E-02	6.44E-02	1.02E-02	9.15E-03	6.86E-03	9.15E-04	9.15E-04	6.86E-04	8760
1FRACENG1	3.11E-02	2.49E-03	8.17E-04	1.24E-04	1.24E-04	4.09E-05	4.11E-05	4.11E-05	1.35E-05	5840
1FRACENG2	1.79E-01	3.43E-02	1.13E-02	1.54E-03	1.54E-03	5.06E-04	3.78E-04	3.78E-04	1.24E-04	5840
1FRACENG3	2.61E+00	5.00E-01	1.64E-01	2.24E-02	2.24E-02	7.35E-03	5.50E-03	5.50E-03	1.81E-03	5840
1DRILLFLARE	1.08E+00	1.98E-01	1.95E-02	4.79E-05	4.79E-05	4.72E-06	1.16E-02	1.16E-02	1.14E-03	864
2FRACENG1	3.11E-02	2.49E-03	8.17E-04	1.24E-04	1.24E-04	4.09E-05	4.11E-05	4.11E-05	1.35E-05	5840
2FRACENG2	1.79E-01	3.43E-02	1.13E-02	1.54E-03	1.54E-03	5.06E-04	3.78E-04	3.78E-04	1.24E-04	5840
2FRACENG3	2.61E+00	5.00E-01	1.64E-01	2.24E-02	2.24E-02	7.35E-03	5.50E-03	5.50E-03	1.81E-03	5840
2DRILLFLARE	1.08E+00	1.98E-01	1.95E-02	4.79E-05	4.79E-05	4.72E-06	1.16E-02	1.16E-02	1.14E-03	864
1TAIL1	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760
1TAIL2	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760
1TAIL3	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760
1TAIL4	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760
1TAIL5	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760
1TAIL6	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760
1TAIL7	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760
1TAIL8	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760
1TAIL9	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760
2TAIL1	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760
2TAIL2	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760
2TAIL3	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760
2TAIL4	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760
2TAIL5	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760
2TAIL6	6.08E-06	1.18E-05	1.18E-05	1.86E-06	5.74E-07	5.74E-07	7.62E-08	7.62E-08	7.62E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD7	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD8	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD9	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.34E-03	3.34E-04	3.34E-04	0.00E+00	0.00E+00	0.00E+00	4380

A.1.4 Scenario 4: Development Drilling

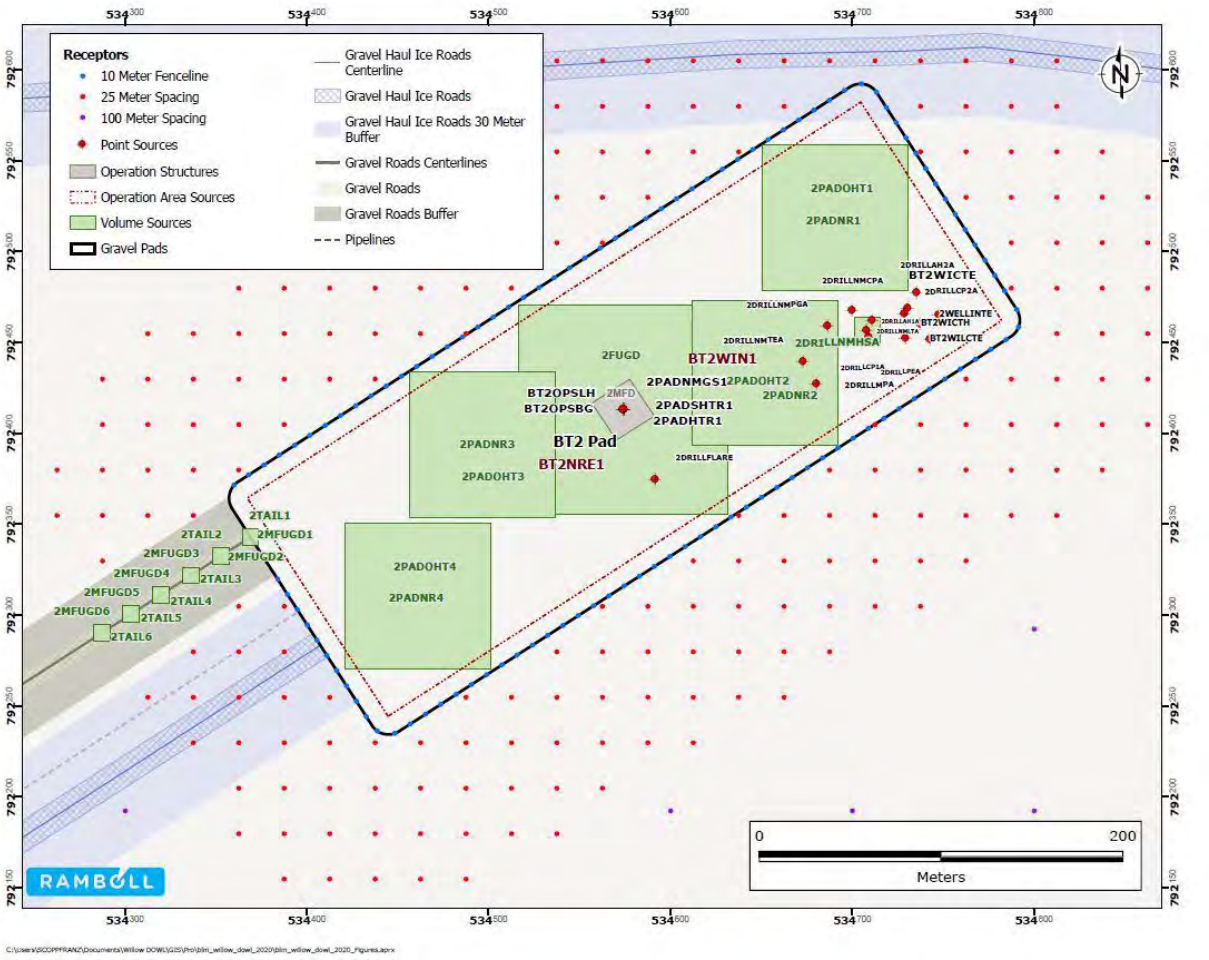


Figure A.1-14. Alternative B Near-field Model Scenario 4 Source Locations at BT2.

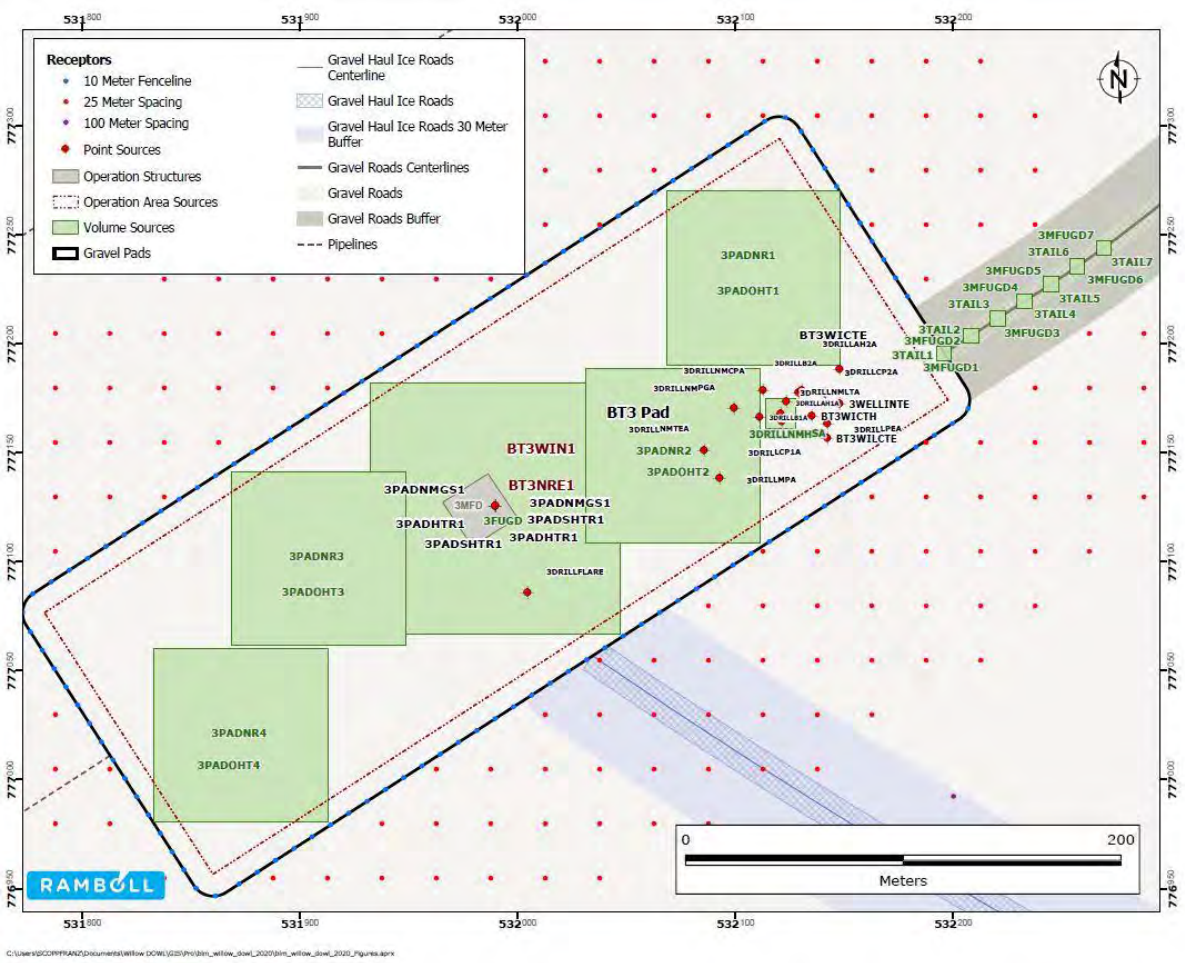


Figure A.1-15. Alternative B Near-field Model Scenario 4 Source Locations at BT3.

Table A.1-10. Alternative B Near-field Model Scenario 4 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCOPSTDR	POINT	WOC - Storage Tanks - VFRT/ DRA (drag reducing agent)	-	-
BT1OPSLH	POINT	BT1 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT1OPSBG	POINT	BT1 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT1OPSFUG	VOLUME	BT1 - Fugitive Components	-	-
BT1OPSFUGD	VOLUME	BT1 - Wind Erosion Fugitive Dust	-	-
BT1OPSTEB	POINT	BT1 - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
BT1OPSTD	POINT	BT1 - Storage Tanks - VFRT/ Diesel	-	-
BT1OPSTCO	POINT	BT1 - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
BT1WICTH	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT1WICTE	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT1WILCTE	POINT	BT1 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT2OPSLH	POINT	BT2 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT2OPSBG	POINT	BT2 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT2OPSFUG	VOLUME	BT2 - Fugitive Components	-	-
BT2OPSFUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust	-	-
BT2WICTH	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT2WICTE	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT2WILCTE	POINT	BT2 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT3OPSFUG	VOLUME	BT3 - Fugitive Components	-	-
BT3OPSFUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust	-	-
BT3WICTH	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT3WICTE	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT3WILCTE	POINT	BT3 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT4OPSLH	POINT	BT4 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT4OPSBG	POINT	BT4 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT4OPSFUG	VOLUME	BT4 - Fugitive Components	-	-
BT4OPSFUGD	VOLUME	BT4 - Wind Erosion Fugitive Dust	-	-
BT4OPSTEB	POINT	BT4 - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
BT4OPSTD	POINT	BT4 - Storage Tanks - VFRT/ Diesel	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
BT4OPSTCO	POINT	BT4 - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
BT4WICTH	POINT	BT4 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT4WICTE	POINT	BT4 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT4WILCTE	POINT	BT4 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT5OPSLH	POINT	BT5 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT5OPSBG	POINT	BT5 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT5OPSFUG	VOLUME	BT5 - Fugitive Components	-	-
BT5OPSFUGD	VOLUME	BT5 - Wind Erosion Fugitive Dust	-	-
BT5WICTH	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT5WICTE	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT5WILCTE	POINT	BT5 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
WLWTG03A	POINT	WPF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG03B	POINT	WPF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG01A	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG01B	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02A	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02B	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG04	POINT	WPF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines
WLWTG05	POINT	WPF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines
WLWGL05	POINT	WPF - Stationary Combustion Sources - Black Start Engine	0.1	Diesel engines
WLWHG03	POINT	WPF - Stationary Combustion Sources - Crude Production Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG04	POINT	WPF - Stationary Combustion Sources - Crude Production Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG01	POINT	WPF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG02	POINT	WPF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG06	POINT	WPF - Stationary Combustion Sources - Hot Oil Heater	0.05	Diesel or natural gas heaters, or boiler
WLWFGLP	POINT	WPF - Stationary Combustion Sources - LP Flare (pilot/purge/assist)	0.5	USEPA default value

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WLWFGHP	POINT	WPF - Stationary Combustion Sources - HP Flare (pilot/purge/assist)	0.5	USEPA default value
WCFOPSDS	POINT	WPF - Stationary Combustion Sources - Diesel Fueling Station	-	-
WCFOPSTSO	POINT	WPF - Storage Tanks - VFRT/ Slop Oil	-	-
WCFOPSTCO	POINT	WPF - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
WCFOPSTUD	POINT	WPF - Storage Tanks - VFRT/ ULSD	-	-
WCFOPSTLD	POINT	WPF - Storage Tanks - VFRT/ LEPD	-	-
WCFOPSTEB	POINT	WPF - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
WCFOPSFUG	VOLUME	WPF - Fugitive Equipment Leaks	-	-
WCFOPSFUGD	VOLUME	WPF - Wind Erosion Fugitive Dust	-	-
WOCPWRGEN1	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines
WOCPWRGEN2	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines
WOCPWRGEN3	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines
WLWIG01	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value
WLWIG02	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value
WLWHL05	POINT	WOC - Stationary Combustion Sources - Mud Plant Glycol Boiler	0.05	Diesel or natural gas heaters, or boiler
WOCOPSTJF	POINT	WOC - Storage Tanks - VFRT/ Aircraft Jet Fuel	-	-
WOCOPSTHC	POINT	WOC - Storage Tanks - VFRT/ Hydrocarbon	-	-
WOCOPSTD	POINT	WOC - Storage Tanks - VFRT/ Diesel	-	-
WILLOWAIR1	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 50.8m	0.5	USEPA default value
WILLOWAIR2	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 152.4m	0.5	USEPA default value
WILLOWAIR3	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 254m	0.5	USEPA default value
WOCOPSFUGD	VOLUME	WOC - Wind Erosion Fugitive Dust - Wind Erosion	-	-
WCFPCE1	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE2	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE3	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE4	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFPCE5	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE6	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE7	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE1	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE2	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE3	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE4	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE5	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE6	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE7	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFNRE1	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE2	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE3	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE4	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE5	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE6	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFNRE7	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WLW2GEN	POINT	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines >140 HP	0.1	Diesel engines
BT3NRE1	AREAPOLY	BT3 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT3WIN1	AREAPOLY	BT3 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
3WELLINTE	POINT	BT3 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT1NRE1	AREAPOLY	BT1 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT1WIN1	AREAPOLY	BT1 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
1WELLINTE	POINT	BT1 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT2NRE1	AREAPOLY	BT2 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT2WIN1	AREAPOLY	BT2 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
2WELLINTE	POINT	BT2 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT4NRE1	AREAPOLY	BT4 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT4WIN1	AREAPOLY	BT4 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
4WELLINTE	POINT	BT4 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT5NRE1	AREAPOLY	BT5 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT5WIN1	AREAPOLY	BT5 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
5WELLINTE	POINT	BT5 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
WOCPCE	AREAPOLY	WOC - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCSCE	AREAPOLY	WOC - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCNRE	AREAPOLY	WOC - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
1TAIL1	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1TAIL6	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL7	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL8	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL9	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
2TAIL1	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL4	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL5	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL6	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
3TAIL1	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL2	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL3	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL4	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL5	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL6	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL7	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
4TAIL1	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL2	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL3	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL4	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL5	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL6	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL7	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
5TAIL1	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL2	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL3	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL4	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL5	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL6	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
5TAIL7	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL8	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL9	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL10	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL11	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL12	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL13	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL14	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL15	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL16	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL17	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL18	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL19	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL20	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL21	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL22	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL23	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL24	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL25	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL26	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL27	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL28	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL29	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCTAIL30	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL31	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL32	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL33	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL1	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL2	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL3	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL4	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL5	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL6	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL7	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL8	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL9	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL10	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL11	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL12	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL13	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL14	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL15	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL16	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL17	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL18	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL19	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD8	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD9	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
3MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
4MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
5MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
5MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
WCFMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD8	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD9	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD10	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD11	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD12	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD13	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD14	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD15	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD16	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD17	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD18	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD19	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WOCMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD8	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD9	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD10	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD11	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD12	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD13	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD14	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD15	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD16	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD17	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD18	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD19	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD20	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD21	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD22	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD23	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD24	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD25	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD26	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD27	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD28	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD29	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD30	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD31	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD32	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD33	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
AIRMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCTEMPTRB1	POINT	WOC - Stationary Conbustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WOCTEMPTRB2	POINT	WOC - Stationary Conbustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
RFDGMT1	POINT	RFD - GMT1	0.2	Diesel tailpipe from non-road equipment
RFDGMT2	POINT	RFD - GMT2	0.2	Diesel tailpipe from non-road equipment
RFDGWPDS1	POINT	RFD - Greater Willow Project Drill Site #1	0.15	Diesel engines/natural gas-fired turbines
RFDGWPDS2	POINT	RFD - Greater Willow Project Drill Site #2	0.15	Diesel engines/natural gas-fired turbines
RFDCD5	POINT	RFD - CD5	0.2	Diesel tailpipe from non-road equipment
2DRILLPEA	POINT	BT2 - Drill Rigs - Primary Power Engines	0.1	Diesel engines
2DRILLCP1A	POINT	BT2 - Drill Rigs - Cement Pumping Unit #1	0.2	Diesel tailpipe from non-road equipment
2DRILLCP2A	POINT	BT2 - Drill Rigs - Cement Pumping Unit #2	0.2	Diesel tailpipe from non-road equipment
2DRILLB1A	POINT	BT2 - Drill Rigs - Boiler #1	0.05	Diesel or natural gas heaters, or boiler
2DRILLB2A	POINT	BT2 - Drill Rigs - Boiler #2	0.05	Diesel or natural gas heaters, or boiler
2DRILLAH1A	POINT	BT2 - Drill Rigs - Air Heater #1	0.05	Diesel or natural gas heaters, or boiler
2DRILLAH2A	POINT	BT2 - Drill Rigs - Air Heater #2	0.05	Diesel or natural gas heaters, or boiler
2DRILLMPA	POINT	BT2 - Drill Rigs - Mud Pit Heater	0.05	Diesel or natural gas heaters, or boiler
2DRILLNMTEA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
2DRILLNMLTA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Lighting Engine	0.2	Diesel tailpipe from non-road equipment
2DRILLNMPGA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Portable Generators	0.1	Diesel engines
2DRILLNMCPA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine	0.1	Diesel engines
2DRILLNMHSA	VOLUME	BT2 - Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
2DRILLFLARE	POINT	BT2 - Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	USEPA default value
3DRILLPEA	POINT	BT3 - Drill Rigs - Primary Power Engines	0.1	Diesel engines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
3DRILLCP1A	POINT	BT3 - Drill Rigs - Cement Pumping Unit #1	0.2	Diesel tailpipe from non-road equipment
3DRILLCP2A	POINT	BT3 - Drill Rigs - Cement Pumping Unit #2	0.2	Diesel tailpipe from non-road equipment
3DRILLB1A	POINT	BT3 - Drill Rigs - Boiler #1	0.05	Diesel or natural gas heaters, or boiler
3DRILLB2A	POINT	BT3 - Drill Rigs - Boiler #2	0.05	Diesel or natural gas heaters, or boiler
3DRILLAH1A	POINT	BT3 - Drill Rigs - Air Heater #1	0.05	Diesel or natural gas heaters, or boiler
3DRILLAH2A	POINT	BT3 - Drill Rigs - Air Heater #2	0.05	Diesel or natural gas heaters, or boiler
3DRILLMPA	POINT	BT3 - Drill Rigs - Mud Pit Heater	0.05	Diesel or natural gas heaters, or boiler
3DRILLNMTEA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
3DRILLNMLTA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Lighting Engine	0.2	Diesel tailpipe from non-road equipment
3DRILLNMPGA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Portable Generators	0.1	Diesel engines
3DRILLNMCPA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine	0.1	Diesel engines
3DRILLNMHSA	VOLUME	BT3 - Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
3DRILLFLARE	POINT	BT3 - Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	USEPA default value
2PADHTR1	POINT	BT2 - Pad Construction - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
2PADSHTR1	POINT	BT2 - Pad Construction - Construction Shop Heaters	0.05	Diesel or natural gas heaters, or boiler
2PADNMGS1	POINT	BT2 - Pad Construction - Generator Sets	0.1	Diesel engines
3PADHTR1	POINT	BT3 - Pad Construction - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
3PADSHTR1	POINT	BT3 - Pad Construction - Construction Shop Heaters	0.05	Diesel or natural gas heaters, or boiler
3PADNMGS1	POINT	BT3 - Pad Construction - Generator Sets	0.1	Diesel engines
2PADNR1	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR2	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR3	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR4	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR1	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR2	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR3	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR4	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2PADOHT1	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT2	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT3	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT4	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT1	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT2	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT3	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT4	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2FUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust	-	-
3FUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust	-	-

Table A.1-11. Alternative B Near-field Model Scenario 4 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCOPSTDR	POINT	3.05	5.4864	0.1016	1.67652	294.261111	-	-	-	-	-
BT1OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT1OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT1OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT1OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT1OPSTEB	POINT	2.7432	5.4864	0.1016	1.67652	283.15	-	-	-	-	-
BT1OPSTD	POINT	2.7432	5.4864	0.1016	1.67652	299.816667	-	-	-	-	-
BT1OPSTCO	POINT	2.7432	5.4864	0.1016	1.67652	277.594444	-	-	-	-	-
BT1WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT1WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT1WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
BT2OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT2OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT2OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT2WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT3OPSFUG	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
BT3OPSFUGD	VOLUME	3.66	3.7	-	-	-	26.74	3.38	-	-	-
BT3WICTH	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT3WICTE	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT3WILCTE	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT4OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT4OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT4OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT4OPSFUGD	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT4OPSTEB	POINT	2.7432	5.4864	0.1016	1.67652	283.15	-	-	-	-	-
BT4OPSTD	POINT	2.7432	5.4864	0.1016	1.67652	299.816667	-	-	-	-	-
BT4OPSTCO	POINT	2.7432	5.4864	0.1016	1.67652	277.594444	-	-	-	-	-
BT4WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT4WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT4WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT5OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT5OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT5OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT5WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
WLWTG03A	POINT	3.66	25	2	30	370	-	-	-	-	-
WLWTG03B	POINT	3.66	25	2	30	370	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WLWTG01A	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG01B	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG02A	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG02B	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG04	POINT	3.66	25	2	30	550	-	-	-	-	-
WLWTG05	POINT	3.66	25	2	30	550	-	-	-	-	-
WLWGL05	POINT	3.66	5.5	0.3	20	760	-	-	-	-	-
WLWHG03	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG04	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG01	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG02	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG06	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWFGLP	POINT	3.66	25	0.2	20	1273	-	-	-	-	-
WLWFGHP	POINT	3.66	25	0.2	20	1273	-	-	-	-	-
WCFOPSDS	POINT	3.66	5.5	0.1	1.68	0	-	-	-	-	-
WCFOPSTSO	POINT	3.66	5.4864	0.1016	1.67652	319.261111	-	-	-	-	-
WCFOPSTCO	POINT	3.66	5.4864	0.1016	1.67652	277.594444	-	-	-	-	-
WCFOPSTUD	POINT	3.66	12.8016	0.1524	0.74512	299.816667	-	-	-	-	-
WCFOPSTLD	POINT	3.66	5.4864	0.1016	1.67652	299.816667	-	-	-	-	-
WCFOPSTEB	POINT	3.66	5.4864	0.1016	1.67652	283.15	-	-	-	-	-
WCFOPSFUG	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
WCFOPSFUGD	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
WOCPWRGEN1	POINT	3.05	8.6	0.3	20	760	-	-	-	-	-
WOCPWRGEN2	POINT	3.05	8.6	0.3	20	760	-	-	-	-	-
WOCPWRGEN3	POINT	3.05	8.6	0.3	20	760	-	-	-	-	-
WLWIG01	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWIG02	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWHL05	POINT	3.05	13.19	0.3	10	525	-	-	-	-	-
WOCOPSTJF	POINT	3.05	5.4864	0.1016	1.67652	283.15	-	-	-	-	-
WOCOPSTHC	POINT	3.05	5.4864	0.1016	1.67652	0	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCOPSTD	POINT	3.05	5.4864	0.1016	1.67652	299.816667	-	-	-	-	-
WILLOWAIR1	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-
WILLOWAIR2	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-
WILLOWAIR3	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-
WOCOPSFUGD	VOLUME	3.05	3.7	-	-	-	15.1	3.38	-	-	-
WCFPCE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFPCE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFPCE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFPCE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFSCE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFSCE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFSCE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFNRE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFNRE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFNRE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WLW2GEN	POINT	3.66	6.1	0.46	15.1	795	-	-	-	-	-
BT3NRE1	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
BT3WIN1	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
3WELLINTE	POINT	3.66	6.1	0.46	15.1	795	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
BT1NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT1WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
1WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT2NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT2WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
2WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT4NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT4WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
4WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT5NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT5WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
5WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
WOCPCE	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCSCE	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCNRE	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
1TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL7	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL8	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL9	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
3TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WOCTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCTAIL10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL32	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL33	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRTAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
AIRTAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WCFTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD7	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD8	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD9	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2MFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WCFMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WCFMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCMFUGD16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD32	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD33	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRMFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WOCTEMPTRB1	POINT	3.05	30	2	30	550	-	-	-	-	-
WOCTEMPTRB2	POINT	3.05	30	2	30	550	-	-	-	-	-
RFDGMT1	POINT	1.524	4.88	0.305	35	820	-	-	-	-	-
RFDGMT2	POINT	1.524	12.2	0.94	5.7	529	-	-	-	-	-
RFDGWPDS1	POINT	1.524	3.7	0.356	41.6	644	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
RFDGWPDS2	POINT	1.524	3.7	0.356	41.6	644	-	-	-	-	-
RFDCD5	POINT	1.524	4.88	0.305	35	820	-	-	-	-	-
2DRILLPEA	POINT	2.7432	13.3	0.4	10.5	614	-	-	-	-	-
2DRILLCP1A	POINT	2.7432	10.4	0.13	43.5	750	-	-	-	-	-
2DRILLCP2A	POINT	2.7432	10.4	0.13	43.5	750	-	-	-	-	-
2DRILLB1A	POINT	2.7432	11.9	0.279	11.7	450	-	-	-	-	-
2DRILLB2A	POINT	2.7432	11.9	0.279	11.7	450	-	-	-	-	-
2DRILLAH1A	POINT	2.7432	10.5	0.3	3.2	533	-	-	-	-	-
2DRILLAH2A	POINT	2.7432	10.5	0.3	3.2	533	-	-	-	-	-
2DRILLMPA	POINT	2.7432	7.2	0.3	10.8	533	-	-	-	-	-
2DRILLNMTEA	POINT	2.7432	6.5	0.3	47	761	-	-	-	-	-
2DRILLNMLTA	POINT	2.7432	6.1	0.3	15.1	795	-	-	-	-	-
2DRILLNMPGA	POINT	2.7432	6.1	0.3	15.1	795	-	-	-	-	-
2DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-	-	-	-
2DRILLNMHSA	VOLUME	2.7432	3.7	-	-	-	13.95	3.38	-	-	-
2DRILLFLARE	POINT	2.7432	10.1	0.3	6.1	1033	-	-	-	-	-
3DRILLPEA	POINT	3.6576	13.3	0.4	10.5	614	-	-	-	-	-
3DRILLCP1A	POINT	3.6576	10.4	0.13	43.5	750	-	-	-	-	-
3DRILLCP2A	POINT	3.6576	10.4	0.13	43.5	750	-	-	-	-	-
3DRILLB1A	POINT	3.6576	11.9	0.279	11.7	450	-	-	-	-	-
3DRILLB2A	POINT	3.6576	11.9	0.279	11.7	450	-	-	-	-	-
3DRILLAH1A	POINT	3.6576	10.5	0.3	3.2	533	-	-	-	-	-
3DRILLAH2A	POINT	3.6576	10.5	0.3	3.2	533	-	-	-	-	-
3DRILLMPA	POINT	3.6576	7.2	0.3	10.8	533	-	-	-	-	-
3DRILLNMTEA	POINT	3.6576	6.5	0.3	47	761	-	-	-	-	-
3DRILLNMLTA	POINT	3.6576	6.1	0.3	15.1	795	-	-	-	-	-
3DRILLNMPGA	POINT	3.6576	6.1	0.3	15.1	795	-	-	-	-	-
3DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-	-	-	-
3DRILLNMHSA	VOLUME	3.6576	3.7	-	-	-	13.95	3.38	-	-	-
3DRILLFLARE	POINT	3.6576	10.1	0.3	6.1	1033	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2PADHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
2PADSHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
2PADNMGS1	POINT	2.7432	6.5	0.2	47	761	-	-	-	-	-
3PADHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
3PADSHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
3PADNMGS1	POINT	2.7432	6.5	0.2	47	761	-	-	-	-	-
2PADNR1	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADNR2	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADNR3	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADNR4	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADNR1	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADNR2	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADNR3	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADNR4	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADOHT1	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADOHT2	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADOHT3	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADOHT4	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADOHT1	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADOHT2	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADOHT3	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADOHT4	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2FUGD	VOLUME	2.7432	3.66	-	-	-	26.7442	3.38	-	-	-
3FUGD	VOLUME	3.6576	3.66	-	-	-	26.7442	3.38	-	-	-

Table A.1-12. Alternative B Near-field Model Scenario 4 Emissions Rates

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCOPSTDR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT1OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT1OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT1OPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1OPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1OPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT1WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT1WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT2OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT2OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT2OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT2OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT2WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT2WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT2WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT3OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT3OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT3WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT3WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT3WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT4OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT4OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT4OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT4OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.18E-02	3.27E-03	3.27E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT4OPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT4OPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
BT4OPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT4WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT4WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT4WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT5OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT5OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT5OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT5OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.18E-02	3.27E-03	3.27E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT5WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT5WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT5WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
WLWTG03A	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	8760
WLWTG03B	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	8760
WLWTG01A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG01B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG02A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG02B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG04	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	8760
WLWTG05	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	8760
WLWGL05	6.48E-01	1.19E+00	6.76E-02	3.70E-02	3.70E-02	2.11E-03	1.22E-03	1.22E-03	6.99E-05	500
WLWHG03	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8760
WLWHG04	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8760
WLWHG01	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	8760
WLWHG02	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	8760
WLWHG06	3.84E-01	4.57E-01	4.57E-01	3.47E-02	3.47E-02	3.47E-02	3.09E-02	3.09E-02	3.09E-02	8760
WLWFGLP	4.15E-02	4.94E-02	4.94E-02	3.76E-03	3.76E-03	3.76E-03	3.34E-03	3.34E-03	3.34E-03	8760
WLWFGHP	4.15E-02	4.94E-02	4.94E-02	3.76E-03	3.76E-03	3.76E-03	3.34E-03	3.34E-03	3.34E-03	8760
WCFOPSDS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTSO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WCFOPSTUD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTLD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSFUGD	0.00E+00	0.00E+00	0.00E+00	3.45E-02	5.17E-03	5.17E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCPWRGEN1	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WOCPWRGEN2	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WOCPWRGEN3	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WLWIG01	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	7300
WLWIG02	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	7300
WLWHL05	5.93E-03	2.37E-02	2.37E-02	2.82E-03	2.53E-03	2.53E-03	2.54E-04	2.54E-04	2.54E-04	8760
WOCOPSTJF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WOCOPSTHC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WOCOPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WILLOWAIR1	1.06E-07	2.91E-08	2.91E-08	1.20E-09	1.20E-09	1.20E-09	4.52E-09	4.52E-09	4.52E-09	8760
WILLOWAIR2	1.06E-07	2.91E-08	2.91E-08	1.20E-09	1.20E-09	1.20E-09	4.52E-09	4.52E-09	4.52E-09	8760
WILLOWAIR3	1.06E-07	2.91E-08	2.91E-08	1.20E-09	1.20E-09	1.20E-09	4.52E-09	4.52E-09	4.52E-09	8760
WOCOPSFUGD	0.00E+00	0.00E+00	0.00E+00	1.11E-01	1.66E-02	1.66E-02	0.00E+00	0.00E+00	0.00E+00	4380
WCFPCE1	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE2	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE3	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE4	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE5	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE6	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE7	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFSCE1	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE2	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE3	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE4	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE5	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WCFSCE6	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE7	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFNRE1	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE2	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE3	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE4	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE5	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE6	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE7	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WLW2GEN	1.19E-01	5.87E-01	6.08E-01	3.46E-02	3.46E-02	3.53E-02	3.51E-04	3.51E-04	3.51E-04	8760
BT3NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	876
BT3WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	288
3WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
BT1NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	876
BT1WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	288
1WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
BT2NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	876
BT2WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	288
2WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
BT4NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	876
BT4WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	288
4WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
BT5NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	876
BT5WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	288
5WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
WOCPCE	7.88E-08	3.56E-07	3.56E-07	2.83E-08	2.75E-08	2.75E-08	7.86E-10	7.86E-10	7.86E-10	8760
WOCSCE	6.12E-08	1.07E-07	1.07E-07	8.44E-09	8.44E-09	8.44E-09	7.50E-09	7.50E-09	7.50E-09	8760
WOCNRE	5.55E-07	2.47E-06	1.86E-06	2.08E-07	1.99E-07	1.35E-07	7.98E-09	7.98E-09	1.46E-09	8760
1TAIL1	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL2	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1TAIL3	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL4	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL5	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL6	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL7	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL8	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL9	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
2TAIL1	9.54E-06	1.44E-05	2.37E-05	2.21E-06	6.95E-07	1.13E-06	9.01E-08	9.01E-08	1.40E-07	8760
2TAIL2	9.54E-06	1.44E-05	2.37E-05	2.21E-06	6.95E-07	1.13E-06	9.01E-08	9.01E-08	1.40E-07	8760
2TAIL3	9.54E-06	1.44E-05	2.37E-05	2.21E-06	6.95E-07	1.13E-06	9.01E-08	9.01E-08	1.40E-07	8760
2TAIL4	9.54E-06	1.44E-05	2.37E-05	2.21E-06	6.95E-07	1.13E-06	9.01E-08	9.01E-08	1.40E-07	8760
2TAIL5	9.54E-06	1.44E-05	2.37E-05	2.21E-06	6.95E-07	1.13E-06	9.01E-08	9.01E-08	1.40E-07	8760
2TAIL6	9.54E-06	1.44E-05	2.37E-05	2.21E-06	6.95E-07	1.13E-06	9.01E-08	9.01E-08	1.40E-07	8760
3TAIL1	8.17E-06	1.23E-05	2.03E-05	1.89E-06	5.96E-07	9.71E-07	7.72E-08	7.72E-08	1.20E-07	8760
3TAIL2	8.17E-06	1.23E-05	2.03E-05	1.89E-06	5.96E-07	9.71E-07	7.72E-08	7.72E-08	1.20E-07	8760
3TAIL3	8.17E-06	1.23E-05	2.03E-05	1.89E-06	5.96E-07	9.71E-07	7.72E-08	7.72E-08	1.20E-07	8760
3TAIL4	8.17E-06	1.23E-05	2.03E-05	1.89E-06	5.96E-07	9.71E-07	7.72E-08	7.72E-08	1.20E-07	8760
3TAIL5	8.17E-06	1.23E-05	2.03E-05	1.89E-06	5.96E-07	9.71E-07	7.72E-08	7.72E-08	1.20E-07	8760
3TAIL6	8.17E-06	1.23E-05	2.03E-05	1.89E-06	5.96E-07	9.71E-07	7.72E-08	7.72E-08	1.20E-07	8760
3TAIL7	8.17E-06	1.23E-05	2.03E-05	1.89E-06	5.96E-07	9.71E-07	7.72E-08	7.72E-08	1.20E-07	8760
4TAIL1	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
4TAIL2	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
4TAIL3	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
4TAIL4	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
4TAIL5	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
4TAIL6	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
4TAIL7	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
5TAIL1	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
5TAIL2	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
5TAIL3	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
5TAIL4	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
5TAIL5	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
5TAIL6	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
5TAIL7	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
WOCTAIL1	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL2	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL3	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL4	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL5	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL6	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL7	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL8	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL9	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL10	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL11	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL12	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL13	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL14	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL15	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL16	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL17	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL18	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL19	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL20	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL21	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL22	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL23	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL24	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL25	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL26	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCTAIL27	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL28	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL29	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL30	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL31	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL32	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL33	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
AIRTAIL1	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
AIRTAIL2	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
AIRTAIL3	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
AIRTAIL4	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
AIRTAIL5	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
AIRTAIL6	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
AIRTAIL7	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WCFTAIL1	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL2	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL3	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL4	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL5	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL6	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL7	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL8	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL9	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL10	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL11	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL12	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL13	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL14	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL15	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL16	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WCFTAIL17	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL18	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL19	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD7	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD8	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD9	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	6.19E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	5.82E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	5.82E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	5.82E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	5.82E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	5.82E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	5.43E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	4.99E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	4.99E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	4.99E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD5	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	4.99E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD6	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	4.99E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD7	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD1	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD5	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
4MFUGD6	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD7	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD1	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD5	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD6	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD7	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD5	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD6	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD7	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD8	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD9	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD10	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD11	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD12	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD13	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD14	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD15	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD16	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD17	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD18	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD19	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD1	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD2	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCMFUGD3	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD4	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD5	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD6	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD7	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD8	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD9	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD10	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD11	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD12	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD13	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD14	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD15	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD16	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD17	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD18	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD19	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD20	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD21	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD22	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD23	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD24	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD25	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD26	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD27	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD28	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD29	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD30	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD31	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD32	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCMFUGD33	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD1	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD2	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD3	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD4	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD5	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD6	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD7	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCTEMPTRB1	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	8760
WOCTEMPTRB2	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	8760
RFDGMT1	3.50E-01	3.50E-01	2.69E+00	3.50E-01	3.50E-01	9.50E-02	3.80E-02	3.80E-02	1.96E-02	8760
RFDGMT2	4.06E+00	7.21E+00	7.34E-01	4.06E+00	6.44E-01	7.71E-02	1.40E-02	1.40E-02	6.33E-03	8760
RFDGWPDS1	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	8760
RFDGWPDS2	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	8760
RFDCD5	1.82E+00	2.15E+00	2.15E+00	1.27E-01	1.27E-01	1.27E-01	2.70E-01	2.70E-01	2.70E-01	8760
2DRILLPEA	1.07E+00	2.05E-01	2.05E-01	9.17E-03	9.17E-03	9.17E-03	5.64E-04	5.64E-04	5.64E-04	8760
2DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
2DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
2DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
2DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
2DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
2DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
2DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
2DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
2DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
2DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
2DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
2DRILLNMHSA	2.15E-02	8.59E-02	8.59E-02	1.02E-02	9.15E-03	9.15E-03	9.15E-04	9.15E-04	9.15E-04	8760
2DRILLFLARE	1.08E+00	1.98E-01	9.38E-02	4.79E-05	4.79E-05	2.27E-05	1.16E-02	1.16E-02	5.47E-03	1728
3DRILLPEA	1.07E+00	2.05E-01	2.05E-01	9.17E-03	9.17E-03	9.17E-03	5.64E-04	5.64E-04	5.64E-04	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
3DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
3DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
3DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
3DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
3DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
3DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
3DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
3DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
3DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
3DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
3DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
3DRILLNMHSA	2.15E-02	8.59E-02	8.59E-02	1.02E-02	9.15E-03	9.15E-03	9.15E-04	9.15E-04	9.15E-04	8760
3DRILLFLARE	1.08E+00	1.98E-01	3.91E-02	4.79E-05	4.79E-05	9.44E-06	1.16E-02	1.16E-02	2.28E-03	1728
2PADHTR1	1.35E-02	5.41E-02	4.98E-02	6.44E-03	5.76E-03	5.31E-03	5.76E-04	5.76E-04	5.31E-04	4704
2PADSHTR1	4.67E-03	1.87E-02	1.72E-02	2.22E-03	1.99E-03	1.83E-03	1.99E-04	1.99E-04	1.83E-04	4704
2PADNMGS1	1.32E-02	2.49E-02	2.29E-02	1.96E-03	1.90E-03	1.75E-03	2.13E-05	2.13E-05	1.96E-05	4704
3PADHTR1	1.35E-02	5.41E-02	4.98E-02	6.44E-03	5.76E-03	5.31E-03	5.76E-04	5.76E-04	5.31E-04	4704
3PADSHTR1	4.67E-03	1.87E-02	1.72E-02	2.22E-03	1.99E-03	1.83E-03	1.99E-04	1.99E-04	1.83E-04	4704
3PADNMGS1	1.32E-02	2.49E-02	2.29E-02	1.96E-03	1.90E-03	1.75E-03	2.13E-05	2.13E-05	1.96E-05	4704
2PADNR1	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADNR2	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADNR3	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADNR4	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR1	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR2	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR3	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR4	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADOHT1	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT2	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT3	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
2PADOHT4	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT1	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT2	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT3	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT4	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380
3FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380

A.1.5 Scenario 5: Routine Operations

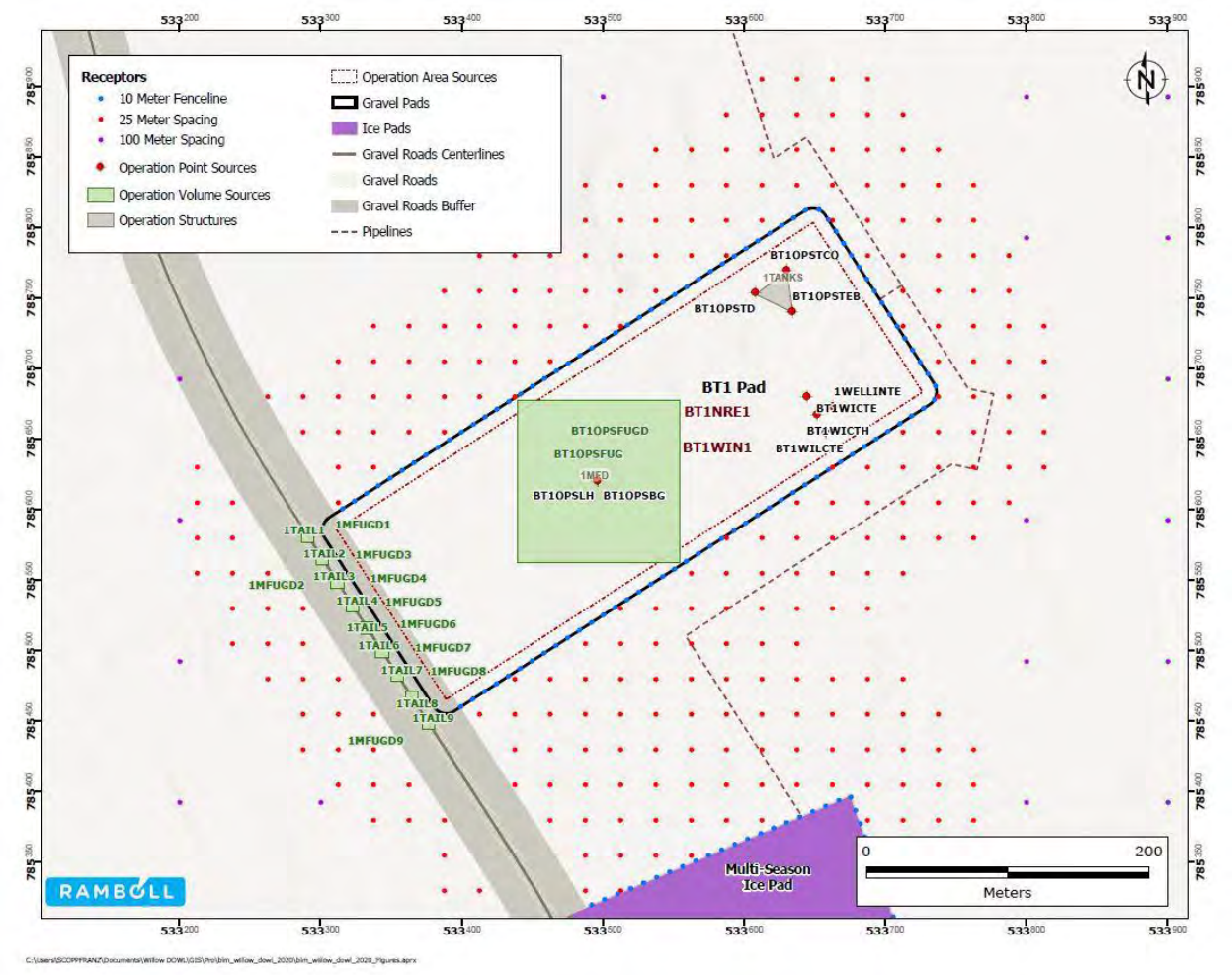


Figure A.1-16. Alternative B Near-field Model Scenario 5 Source Locations at BT1.

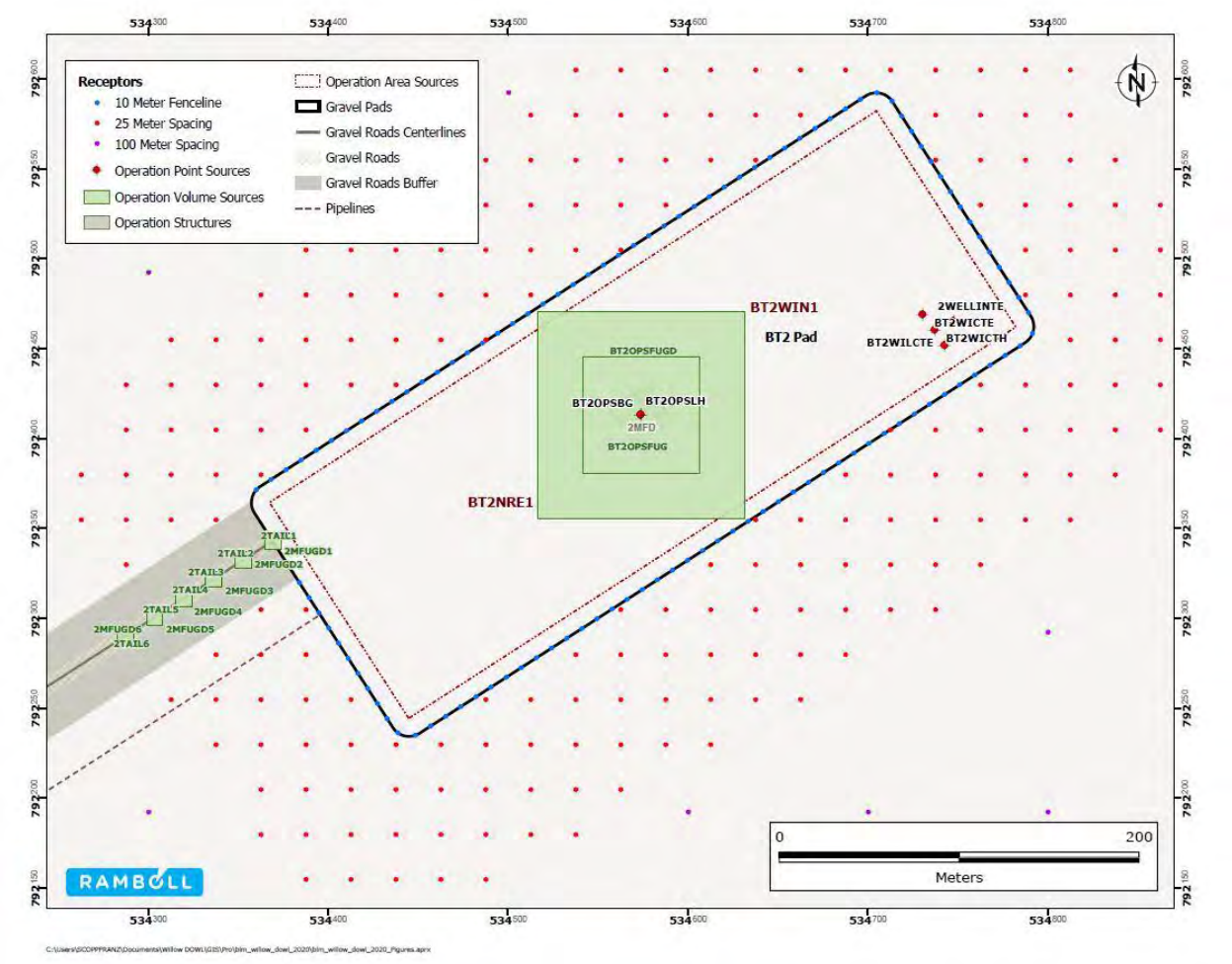


Figure A.1-17. Alternative B Near-field Model Scenario 5 Source Locations at BT2.

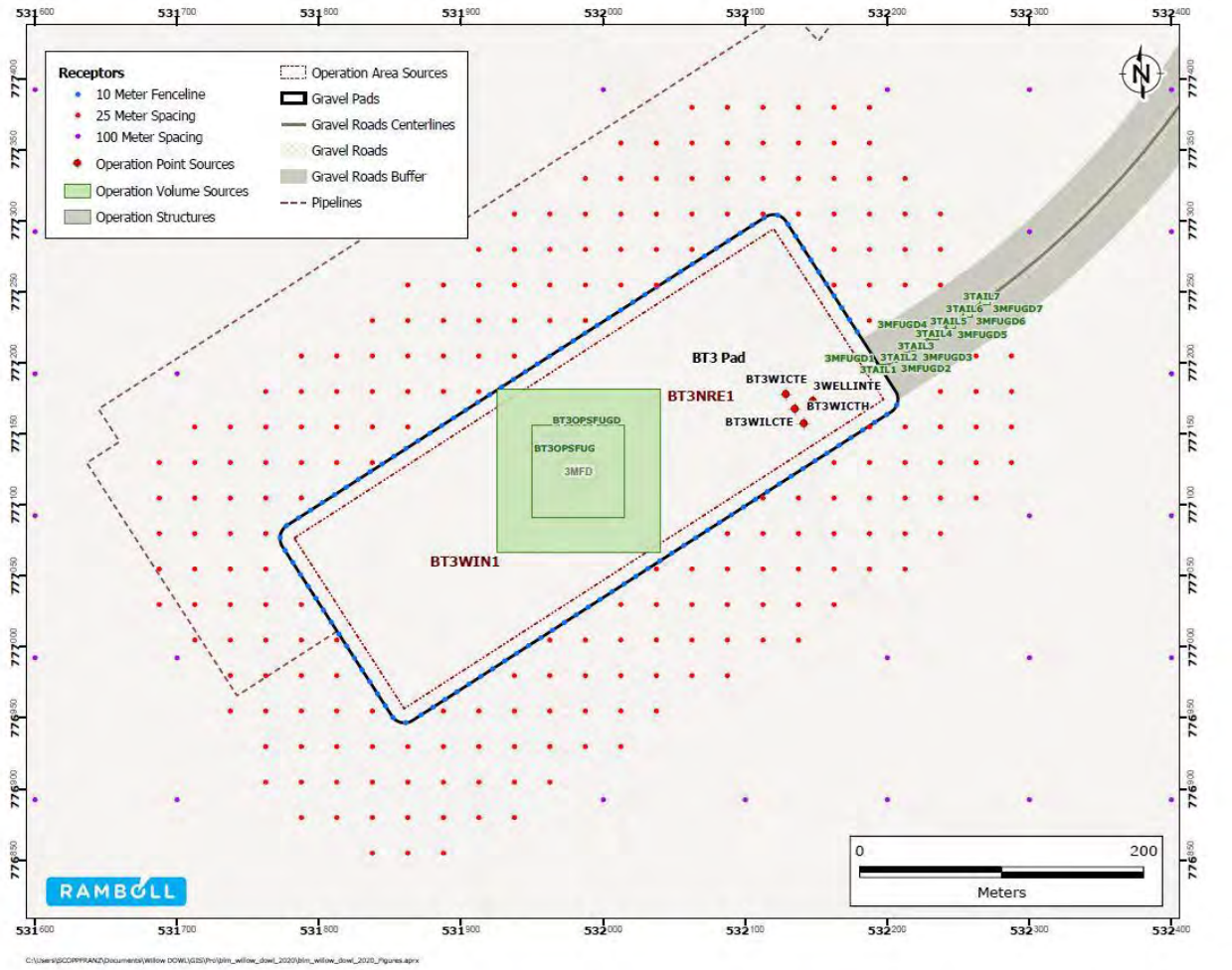


Figure A.1-18. Alternative B Near-field Model Scenario 5 Source Locations at BT3.

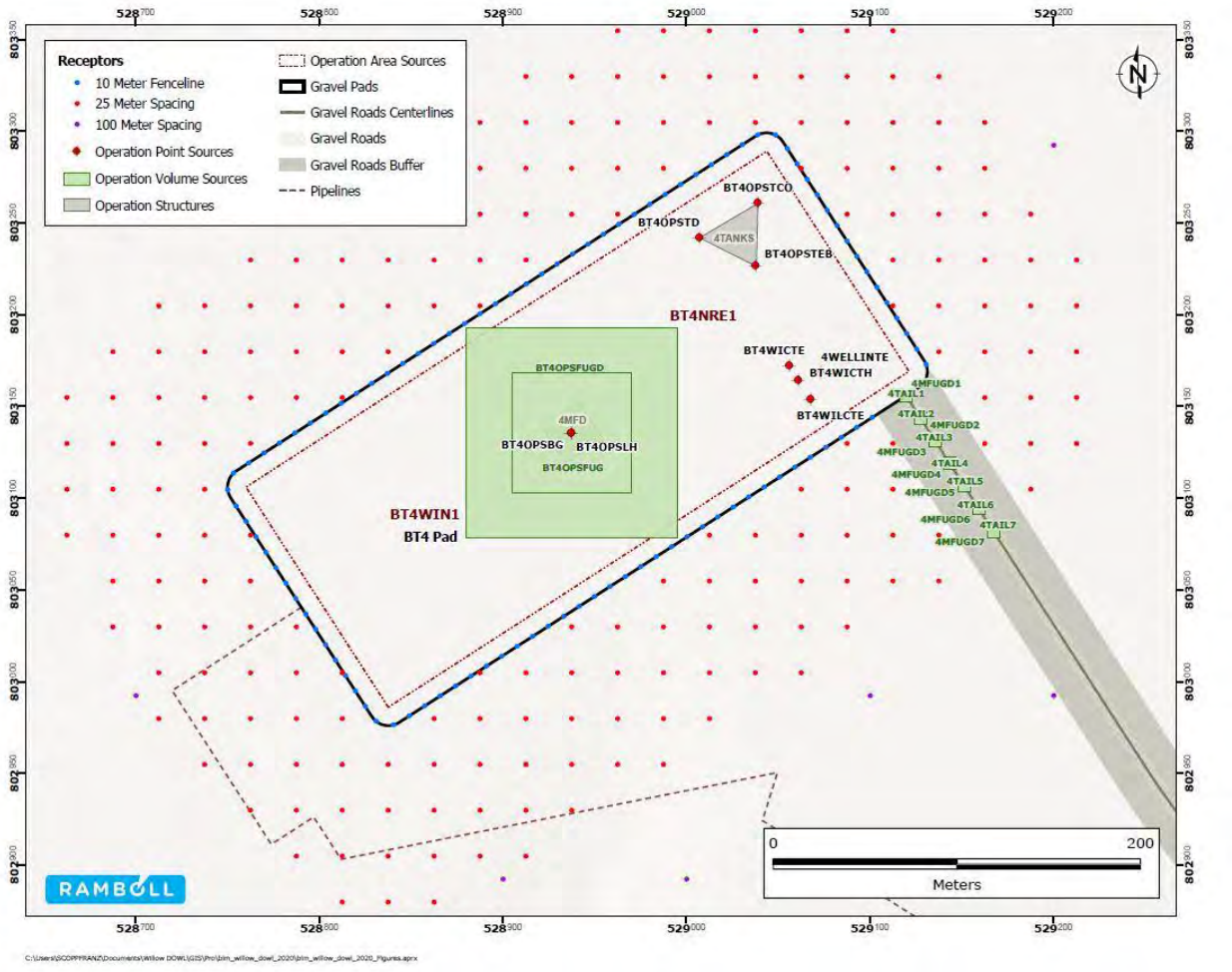


Figure A.1-19. Alternative B Near-field Model Scenario 5 Source Locations at BT4.

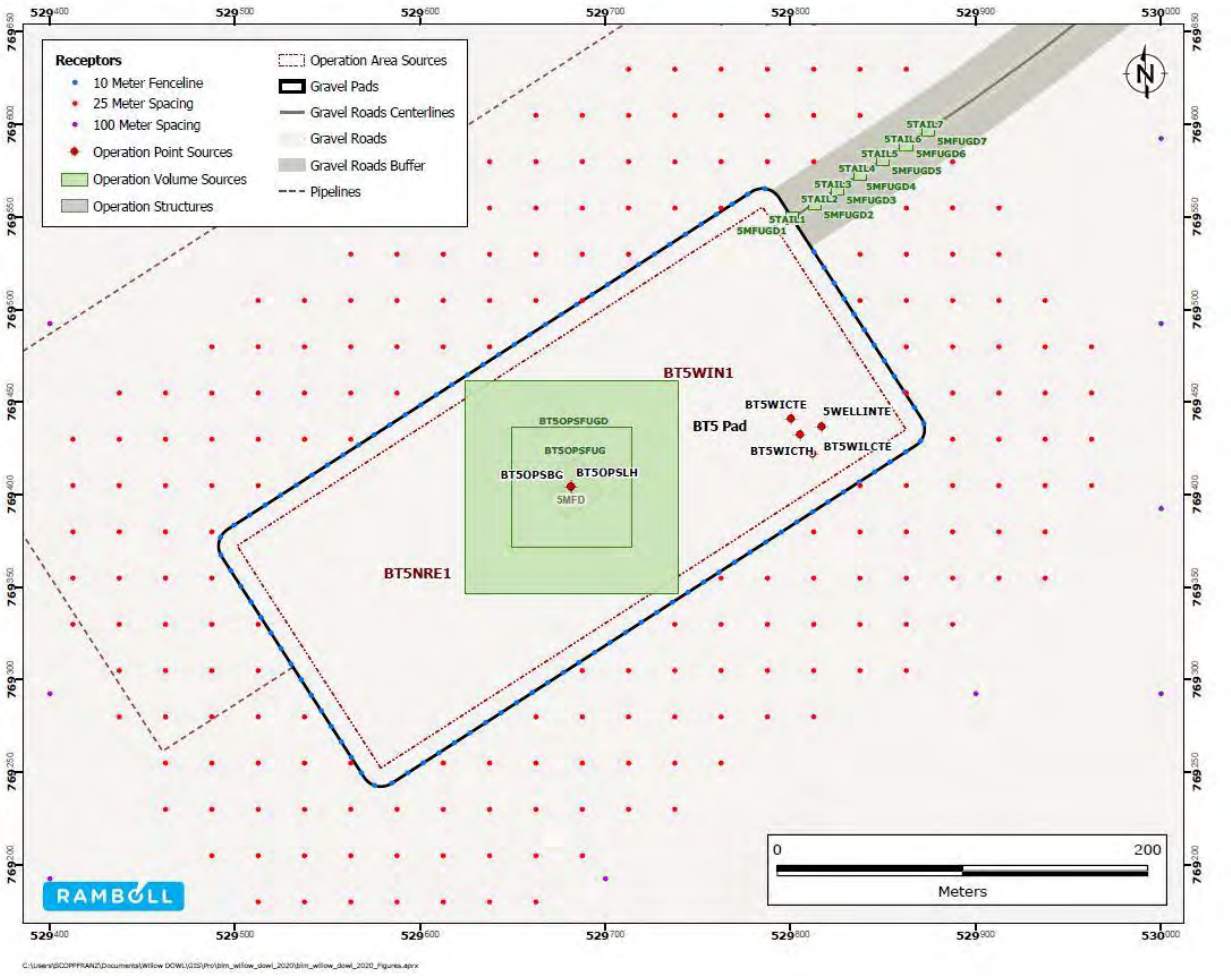


Figure A.1-20. Alternative B Near-field Model Scenario 5 Source Locations at BT5.

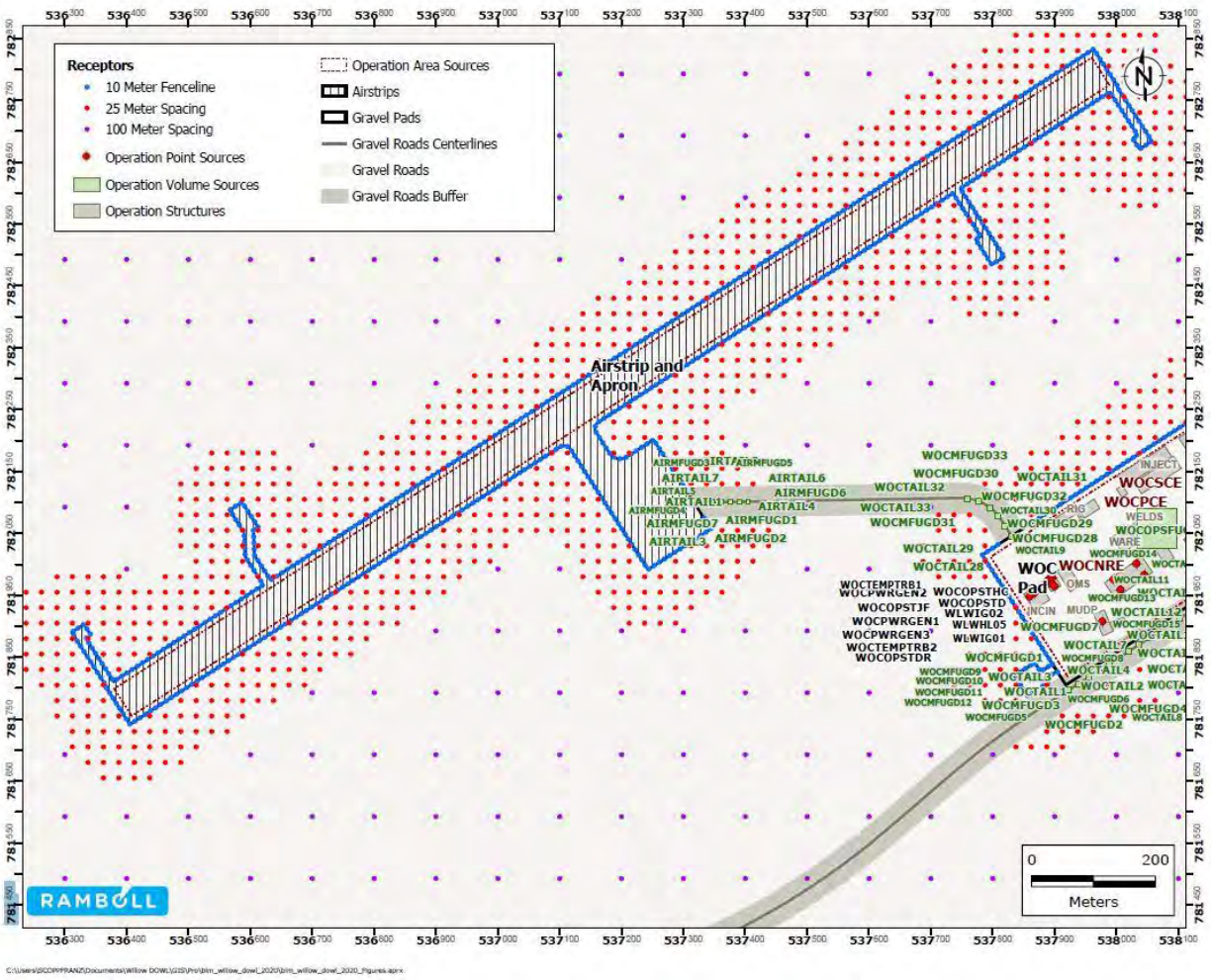


Figure A.1-21. Alternative B Near-field Model Scenario 5 Source Locations at Airstrip.

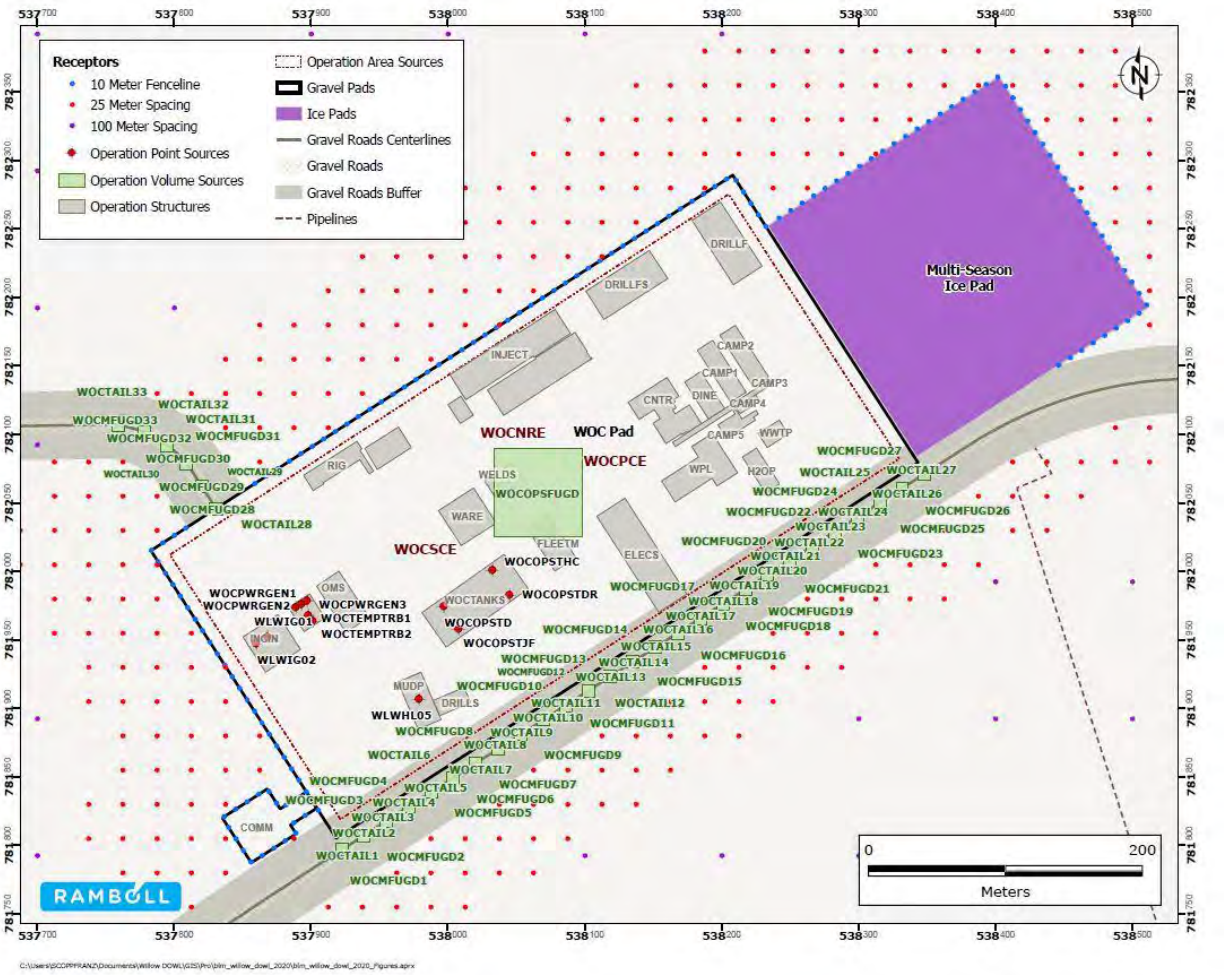


Figure A.1-22. Alternative B Near-field Model Scenario 5 Source Locations at WOC.

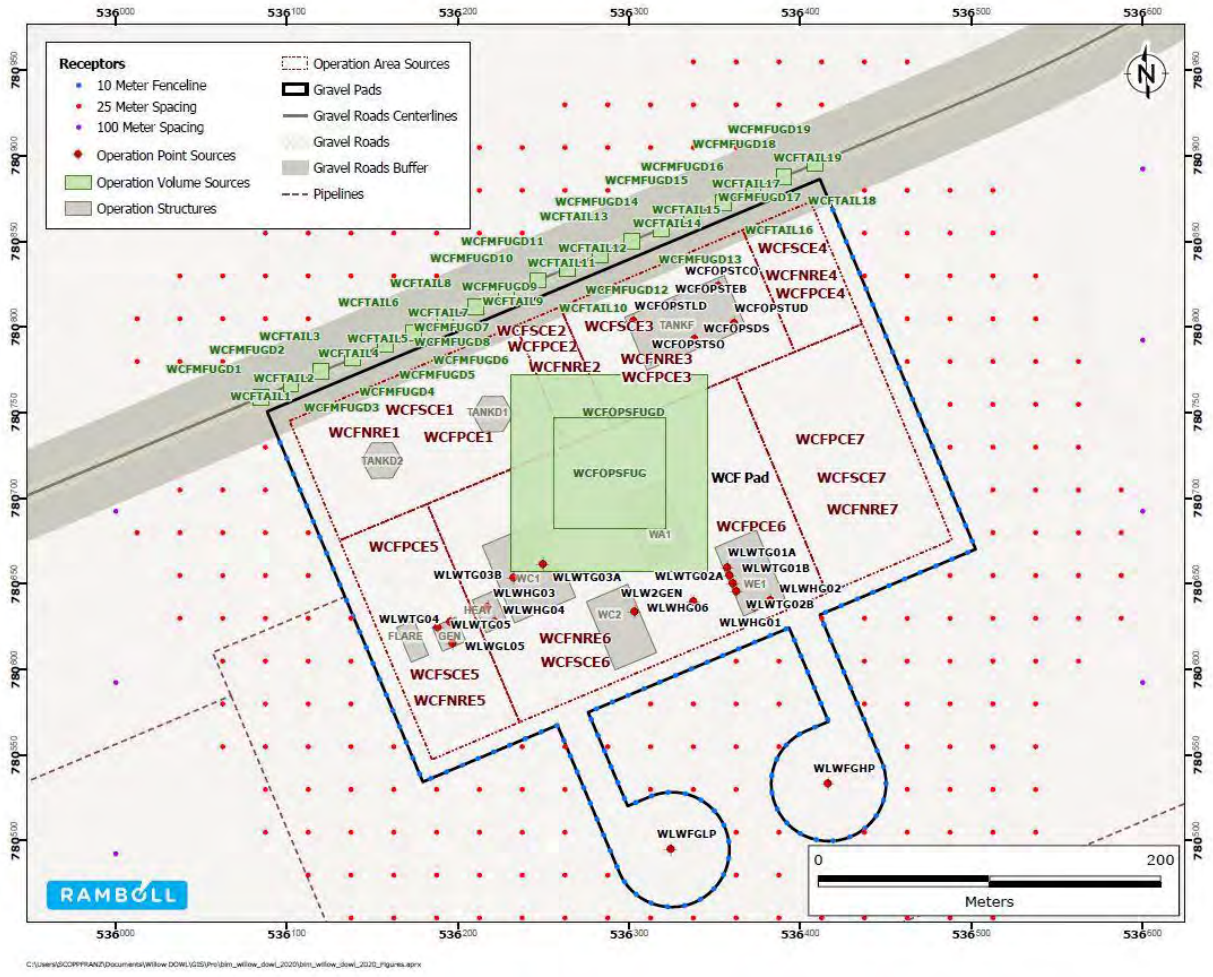


Figure A.1-23. Alternative B Near-field Model Scenario 5 Source Locations at WPF.

Table A.1-13. Alternative B Near-field Model Scenario 5 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCOPSTDR	POINT	WOC - Storage Tanks - VFRT/ DRA (drag reducing agent)	-	-
BT1OPSLH	POINT	BT1 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT1OPSBG	POINT	BT1 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT1OPSFUG	VOLUME	BT1 - Fugitive Components	-	-
BT1OPSFUGD	VOLUME	BT1 - Wind Erosion Fugitive Dust	-	-
BT1OPSTEB	POINT	BT1 - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
BT1OPSTD	POINT	BT1 - Storage Tanks - VFRT/ Diesel	-	-
BT1OPSTCO	POINT	BT1 - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
BT1WICTH	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT1WICTE	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT1WILCTE	POINT	BT1 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT2OPSLH	POINT	BT2 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT2OPSBG	POINT	BT2 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT2OPSFUG	VOLUME	BT2 - Fugitive Components	-	-
BT2OPSFUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust	-	-
BT2WICTH	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT2WICTE	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT2WILCTE	POINT	BT2 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT3OPSFUG	VOLUME	BT3 - Fugitive Components	-	-
BT3OPSFUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust	-	-
BT3WICTH	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT3WICTE	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT3WILCTE	POINT	BT3 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
BT4OPSLH	POINT	BT4 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT4OPSBG	POINT	BT4 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT4OPSFUG	VOLUME	BT4 - Fugitive Components	-	-
BT4OPSFUGD	VOLUME	BT4 - Wind Erosion Fugitive Dust	-	-
BT4OPSTEB	POINT	BT4 - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
BT4OPSTD	POINT	BT4 - Storage Tanks - VFRT/ Diesel	-	-
BT4OPSTCO	POINT	BT4 - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
BT4WICTH	POINT	BT4 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT4WICTE	POINT	BT4 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT4WILCTE	POINT	BT4 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT5OPSLH	POINT	BT5 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT5OPSBG	POINT	BT5 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT5OPSFUG	VOLUME	BT5 - Fugitive Components	-	-
BT5OPSFUGD	VOLUME	BT5 - Wind Erosion Fugitive Dust	-	-
BT5WICTH	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT5WICTE	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT5WILCTE	POINT	BT5 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
WLWTG03A	POINT	WPF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG03B	POINT	WPF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG01A	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG01B	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02A	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02B	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WLWTG04	POINT	WPF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines
WLWTG05	POINT	WPF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines
WLWGL05	POINT	WPF - Stationary Combustion Sources - Black Start Engine	0.1	Diesel engines
WLWHG03	POINT	WPF - Stationary Combustion Sources - Crude Production Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG04	POINT	WPF - Stationary Combustion Sources - Crude Production Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG01	POINT	WPF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG02	POINT	WPF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG06	POINT	WPF - Stationary Combustion Sources - Hot Oil Heater	0.05	Diesel or natural gas heaters, or boiler
WLWFGLP	POINT	WPF - Stationary Combustion Sources - LP Flare (pilot/purge/assist)	0.5	USEPA default value
WLWFGHP	POINT	WPF - Stationary Combustion Sources - HP Flare (pilot/purge/assist)	0.5	USEPA default value
WCFOPSDS	POINT	WPF - Stationary Combustion Sources - Diesel Fueling Station	-	-
WCFOPSTSO	POINT	WPF - Storage Tanks - VFRT/ Slop Oil	-	-
WCFOPSTCO	POINT	WPF - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
WCFOPSTUD	POINT	WPF - Storage Tanks - VFRT/ ULSD	-	-
WCFOPSTLD	POINT	WPF - Storage Tanks - VFRT/ LEPD	-	-
WCFOPSTEB	POINT	WPF - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
WCFOPSFUG	VOLUME	WPF - Fugitive Equipment Leaks	-	-
WCFOPSFUGD	VOLUME	WPF - Wind Erosion Fugitive Dust	-	-
WOCPWRGEN1	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines
WOCPWRGEN2	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines
WOCPWRGEN3	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines
WLWIG01	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WLWIG02	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value
WLWHL05	POINT	WOC - Stationary Combustion Sources - Mud Plant Glycol Boiler	0.05	Diesel or natural gas heaters, or boiler
WOCOPSTJF	POINT	WOC - Storage Tanks - VFRT/ Aircraft Jet Fuel	-	-
WOCOPSTHC	POINT	WOC - Storage Tanks - VFRT/ Hydrocarbon	-	-
WOCOPSTD	POINT	WOC - Storage Tanks - VFRT/ Diesel	-	-
WILLOWAIR1	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 50.8m	0.5	USEPA default value
WILLOWAIR2	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 152.4m	0.5	USEPA default value
WILLOWAIR3	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 254m	0.5	USEPA default value
WOCOPSFUGD	VOLUME	WOC - Wind Erosion Fugitive Dust - Wind Erosion	-	-
WCFPCE1	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE2	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE3	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE4	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE5	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE6	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE7	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE1	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE2	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE3	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFSCE4	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE5	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE6	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE7	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFNRE1	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE2	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE3	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE4	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE5	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE6	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE7	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WLW2GEN	POINT	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines >140 HP	0.1	Diesel engines
BT3NRE1	AREAPOLY	BT3 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT3WIN1	AREAPOLY	BT3 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
3WELLINTE	POINT	BT3 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT1NRE1	AREAPOLY	BT1 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT1WIN1	AREAPOLY	BT1 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1WELLINTE	POINT	BT1 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT2NRE1	AREAPOLY	BT2 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT2WIN1	AREAPOLY	BT2 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
2WELLINTE	POINT	BT2 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT4NRE1	AREAPOLY	BT4 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT4WIN1	AREAPOLY	BT4 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
4WELLINTE	POINT	BT4 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT5NRE1	AREAPOLY	BT5 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT5WIN1	AREAPOLY	BT5 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
5WELLINTE	POINT	BT5 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
WOCPCE	AREAPOLY	WOC - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCSCE	AREAPOLY	WOC - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCNRE	AREAPOLY	WOC - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
1TAIL1	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL6	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL7	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL8	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1TAIL9	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
2TAIL1	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL4	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL5	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL6	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
3TAIL1	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL2	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL3	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL4	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL5	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL6	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL7	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
4TAIL1	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL2	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL3	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL4	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL5	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL6	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL7	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
5TAIL1	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL2	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL3	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL4	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
5TAIL5	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL6	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL7	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL8	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL9	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL10	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL11	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL12	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL13	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL14	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL15	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL16	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL17	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL18	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL19	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL20	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL21	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL22	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCTAIL23	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL24	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL25	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL26	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL27	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL28	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL29	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL30	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL31	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL32	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL33	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL1	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL2	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL3	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL4	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL5	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL6	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL7	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFTAIL8	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL9	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL10	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL11	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL12	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL13	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL14	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL15	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL16	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL17	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL18	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL19	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD8	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD9	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
3MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
4MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
5MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
WCFMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD8	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD9	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD10	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD11	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD12	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD13	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD14	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD15	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD16	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD17	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD18	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD19	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WOCMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD8	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCMFUGD9	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD10	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD11	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD12	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD13	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD14	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD15	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD16	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD17	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD18	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD19	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD20	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD21	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD22	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD23	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD24	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD25	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD26	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD27	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD28	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD29	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD30	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD31	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD32	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD33	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
AIRMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCTEMPTRB1	POINT	WOC - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WOCTEMPTRB2	POINT	WOC - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
RFDGMT1	POINT	RFD - GMT1	0.2	Diesel tailpipe from non-road equipment
RFDGMT2	POINT	RFD - GMT2	0.2	Diesel tailpipe from non-road equipment
RFDGWPDS1	POINT	RFD - Greater Willow Project Drill Site #1	0.15	Diesel engines/natural gas-fired turbines
RFDGWPDS2	POINT	RFD - Greater Willow Project Drill Site #2	0.15	Diesel engines/natural gas-fired turbines
RFDCD5	POINT	RFD - CD5	0.2	Diesel tailpipe from non-road equipment

Table A.1-14. Alternative B Near-field Model Scenario 5 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCOPSTDR	POINT	3.05	5.4864	0.1016	1.676522	294.261111	-	-	-	-	-
BT1OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT1OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT1OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT1OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT1OPSTEB	POINT	2.7432	5.4864	0.1016	1.676522	283.15	-	-	-	-	-
BT1OPSTD	POINT	2.7432	5.4864	0.1016	1.676522	299.816667	-	-	-	-	-
BT1OPSTCO	POINT	2.7432	5.4864	0.1016	1.676522	277.594444	-	-	-	-	-
BT1WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT1WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT1WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT2OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT2OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT2OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT2WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT3OPSFUG	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
BT3OPSFUGD	VOLUME	3.66	3.7	-	-	-	26.74	3.38	-	-	-
BT3WICTH	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT3WICTE	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT3WILCTE	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT4OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT4OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
BT4OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT4OPSFUGD	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT4OPSTEB	POINT	2.7432	5.4864	0.1016	1.676522	283.15	-	-	-	-	-
BT4OPSTD	POINT	2.7432	5.4864	0.1016	1.676522	299.816667	-	-	-	-	-
BT4OPSTCO	POINT	2.7432	5.4864	0.1016	1.676522	277.594444	-	-	-	-	-
BT4WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT4WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT4WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT5OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT5OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT5OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT5WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
WLWTG03A	POINT	3.66	25	2	30	370	-	-	-	-	-
WLWTG03B	POINT	3.66	25	2	30	370	-	-	-	-	-
WLWTG01A	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG01B	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG02A	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG02B	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG04	POINT	3.66	25	2	30	550	-	-	-	-	-
WLWTG05	POINT	3.66	25	2	30	550	-	-	-	-	-
WLWGL05	POINT	3.66	5.5	0.3	20	760	-	-	-	-	-
WLWHG03	POINT	3.66	25	1	10	525	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WLWHG04	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG01	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG02	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG06	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWFGLP	POINT	3.66	25	0.2	20	1273	-	-	-	-	-
WLWFGHP	POINT	3.66	25	0.2	20	1273	-	-	-	-	-
WCFOPSDS	POINT	3.66	5.5	0.1	1.68	-	-	-	-	-	-
WCFOPSTSO	POINT	3.66	5.4864	0.1016	1.676522	319.261111	-	-	-	-	-
WCFOPSTCO	POINT	3.66	5.4864	0.1016	1.676522	277.594444	-	-	-	-	-
WCFOPSTUD	POINT	3.66	12.8016	0.1524	0.745121	299.816667	-	-	-	-	-
WCFOPSTLD	POINT	3.66	5.4864	0.1016	1.676522	299.816667	-	-	-	-	-
WCFOPSTEB	POINT	3.66	5.4864	0.1016	1.676522	283.15	-	-	-	-	-
WCFOPSFUG	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
WCFOPSFUGD	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
WOCPWRGEN1	POINT	3.05	8.6	0.3	20	760	-	-	-	-	-
WOCPWRGEN2	POINT	3.05	8.6	0.3	20	760	-	-	-	-	-
WOCPWRGEN3	POINT	3.05	8.6	0.3	20	760	-	-	-	-	-
WLWIG01	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWIG02	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWHL05	POINT	3.05	13.19	0.3	10	525	-	-	-	-	-
WOCOPSTJF	POINT	3.05	5.4864	0.1016	1.676522	283.15	-	-	-	-	-
WOCOPSTHC	POINT	3.05	5.4864	0.1016	1.676522	-	-	-	-	-	-
WOCOPSTD	POINT	3.05	5.4864	0.1016	1.676522	299.816667	-	-	-	-	-
WILLOWAIR1	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-
WILLOWAIR2	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WILLOWAIR3	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-
WOCOPSFUGD	VOLUME	3.05	3.7	-	-	-	15.1	3.38	-	-	-
WCFPCE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFPCE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFPCE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFPCE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFSCE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFSCE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFSCE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFNRE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFNRE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFNRE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WLW2GEN	POINT	3.66	6.1	0.46	15.1	795	-	-	-	-	-
BT3NRE1	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
BT3WIN1	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
3WELLINTE	POINT	3.66	6.1	0.46	15.1	795	-	-	-	-	-
BT1NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT1WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
1WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT2NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT2WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
2WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT4NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT4WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
4WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT5NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT5WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
5WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
WOCPCE	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCSCE	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCNRE	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
1TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL7	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL8	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1TAIL9	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
5TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WOCTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCTAIL23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL32	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL33	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRTAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WCFTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WCFTAIL8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD7	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD8	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD9	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2MFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WCFMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WCFMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCMFUGD9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD32	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD33	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
AIRMFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WOCTEMPTRB1	POINT	3.05	30	2	30	550	-	-	-	-	-
WOCTEMPTRB2	POINT	3.05	30	2	30	550	-	-	-	-	-
RFDGMT1	POINT	1.524	4.88	0.305	35	820	-	-	-	-	-
RFDGMT2	POINT	1.524	12.2	0.94	5.7	529	-	-	-	-	-
RFDGWPDS1	POINT	1.524	3.7	0.356	41.6	644	-	-	-	-	-
RFDGWPDS2	POINT	1.524	3.7	0.356	41.6	644	-	-	-	-	-
RFDCD5	POINT	1.524	4.88	0.305	35	820	-	-	-	-	-

Table A.1-15. Alternative B Near-field Model Scenario 5 Emissions Rates

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCOPSTDR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05	5.85E-05	2.85E-05	2.85E-05	3.88E-06	3.88E-06	1.14E-05	1.14E-05	6.29E-05	6.29E-05	0.00E+00	0.00E+00	8760
BT1OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT1OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT1OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	2.80E-03	8.20E-03	8.20E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.80E-01	1.80E-01	0.00E+00	0.00E+00	8760
BT1OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT1OPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	5.19E-05	4.73E-05	4.73E-05	3.74E-06	3.74E-06	1.55E-05	1.55E-05	2.17E-04	2.17E-04	0.00E+00	0.00E+00	8760
BT1OPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-07	4.31E-07	5.90E-06	5.90E-06	8.63E-07	8.63E-07	1.58E-05	1.58E-05	1.44E-07	1.44E-07	0.00E+00	0.00E+00	8760
BT1OPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	9.98E-05	4.37E-05	4.37E-05	5.32E-06	5.32E-06	1.54E-05	1.54E-05	1.13E-04	1.13E-04	0.00E+00	0.00E+00	8760
BT1WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT1WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT1WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
BT2OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT2OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT2OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	2.80E-03	8.20E-03	8.20E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.80E-01	1.80E-01	0.00E+00	0.00E+00	8760
BT2OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT2WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT2WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT2WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
BT3OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	2.80E-03	8.20E-03	8.20E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.80E-01	1.80E-01	0.00E+00	0.00E+00	8760
BT3OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT3WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT3WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT3WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
BT4OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT4OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT4OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	2.20E-03	6.44E-03	6.44E-03	5.81E-02	5.81E-02	1.14E-01	1.14E-01	1.42E-01	1.42E-01	0.00E+00	0.00E+00	8760
BT4OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.18E-02	3.27E-03	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT4OPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	5.19E-05	4.73E-05	4.73E-05	3.74E-06	3.74E-06	1.55E-05	1.55E-05	2.17E-04	2.17E-04	0.00E+00	0.00E+00	8760
BT4OPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-07	4.31E-07	5.90E-06	5.90E-06	8.63E-07	8.63E-07	1.58E-05	1.58E-05	1.44E-07	1.44E-07	0.00E+00	0.00E+00	8760
BT4OPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	9.98E-05	4.37E-05	4.37E-05	5.32E-06	5.32E-06	1.54E-05	1.54E-05	1.13E-04	1.13E-04	0.00E+00	0.00E+00	8760
BT4WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT4WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT4WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
BT5OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT5OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT5OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	2.20E-03	6.44E-03	6.44E-03	5.81E-02	5.81E-02	1.14E-01	1.14E-01	1.42E-01	1.42E-01	0.00E+00	0.00E+00	8760
BT5OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.18E-02	3.27E-03	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT5WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT5WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT5WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
WLWTG03A	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	4.02E-04	4.02E-04	4.36E-03	4.36E-03	1.07E-03	1.07E-03	2.15E-03	2.15E-03	0.00E+00	0.00E+00	7.37E-03	7.37E-03	8760
WLWTG03B	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	4.02E-04	4.02E-04	4.36E-03	4.36E-03	1.07E-03	1.07E-03	2.15E-03	2.15E-03	0.00E+00	0.00E+00	7.37E-03	7.37E-03	8760
WLWTG01A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG01B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG02A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG02B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG04	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	1.17E-04	1.17E-04	1.05E-03	1.05E-03	2.59E-04	2.59E-04	5.19E-04	5.19E-04	0.00E+00	0.00E+00	1.81E-03	1.81E-03	8760
WLWTG05	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	1.17E-04	1.17E-04	1.05E-03	1.05E-03	2.59E-04	2.59E-04	5.19E-04	5.19E-04	0.00E+00	0.00E+00	1.81E-03	1.81E-03	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WLWGL05	6.48E-01	1.19E+00	6.76E-02	3.70E-02	3.70E-02	2.11E-03	1.22E-03	1.22E-03	6.99E-05	6.12E-04	3.49E-05	2.22E-04	1.26E-05	0.00E+00	0.00E+00	1.52E-04	8.69E-06	0.00E+00	0.00E+00	6.22E-05	3.55E-06	500
WLWHG03	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8.56E-06	8.56E-06	1.39E-05	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	1.88E-05	3.06E-04	3.06E-04	8760
WLWHG04	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8.56E-06	8.56E-06	1.39E-05	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	1.88E-05	3.06E-04	3.06E-04	8760
WLWHG01	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	5.19E-06	5.19E-06	8.40E-06	8.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	1.14E-05	1.85E-04	1.85E-04	8760
WLWHG02	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	5.19E-06	5.19E-06	8.40E-06	8.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	1.14E-05	1.85E-04	1.85E-04	8760
WLWHG06	3.84E-01	4.57E-01	4.57E-01	3.47E-02	3.47E-02	3.47E-02	3.09E-02	3.09E-02	3.09E-02	9.60E-06	9.60E-06	1.55E-05	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	2.10E-05	3.43E-04	3.43E-04	8760
WLWFGLP	4.15E-02	4.94E-02	4.94E-02	3.76E-03	3.76E-03	3.76E-03	3.34E-03	3.34E-03	3.34E-03	1.04E-06	1.04E-06	1.68E-06	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-06	3.11E-06	3.71E-05	3.71E-05	8760
WLWFGHP	4.15E-02	4.94E-02	4.94E-02	3.76E-03	3.76E-03	3.76E-03	3.34E-03	3.34E-03	3.34E-03	1.04E-06	1.04E-06	1.68E-06	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-06	3.11E-06	3.71E-05	3.71E-05	8760
WCFOPSDS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06	3.71E-06	4.50E-05	4.50E-05	6.45E-06	6.45E-06	1.20E-04	1.20E-04	8.06E-07	8.06E-07	0.00E+00	0.00E+00	8760
WCFOPSTSO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-04	6.89E-04	3.83E-04	3.83E-04	6.00E-05	6.00E-05	1.78E-04	1.78E-04	6.94E-04	6.94E-04	0.00E+00	0.00E+00	8760
WCFOPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	9.98E-05	4.37E-05	4.37E-05	5.32E-06	5.32E-06	1.54E-05	1.54E-05	1.13E-04	1.13E-04	0.00E+00	0.00E+00	8760
WCFOPSTUD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-06	3.31E-06	4.01E-05	4.01E-05	5.75E-06	5.75E-06	1.07E-04	1.07E-04	7.19E-07	7.19E-07	0.00E+00	0.00E+00	8760
WCFOPSTLD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-07	2.88E-07	3.88E-06	3.88E-06	5.75E-07	5.75E-07	1.05E-05	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	5.19E-05	4.73E-05	4.73E-05	3.74E-06	3.74E-06	1.55E-05	1.55E-05	2.17E-04	2.17E-04	0.00E+00	0.00E+00	8760
WCFOPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	3.52E-04	1.49E-03	1.49E-03	1.41E-03	1.41E-03	2.22E-03	2.22E-03	1.33E-02	1.33E-02	0.00E+00	0.00E+00	8760
WCFOPSFUGD	0.00E+00	0.00E+00	0.00E+00	3.45E-02	5.17E-03	5.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCPWRGEN 1	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WOCPWRGEN 2	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WOCPWRGEN 3	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WLWIG01	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	9.34E-07	7.78E-07	1.51E-06	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-06	2.33E-06	3.34E-05	2.78E-05	7300
WLWIG02	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	9.34E-07	7.78E-07	1.51E-06	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-06	2.33E-06	3.34E-05	2.78E-05	7300
WLWHL05	5.93E-03	2.37E-02	2.37E-02	2.82E-03	2.53E-03	2.53E-03	2.54E-04	2.54E-04	2.54E-04	2.54E-07	2.54E-07	7.36E-06	7.36E-06	7.55E-08	7.55E-08	1.29E-07	1.29E-07	0.00E+00	0.00E+00	3.92E-05	3.92E-05	8760
WOCOPSTJF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-06	1.01E-06	8.49E-06	8.49E-06	2.59E-06	2.59E-06	5.18E-06	5.18E-06	2.01E-06	2.01E-06	0.00E+00	0.00E+00	8760
WOCOPSTHC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05	8.50E-05	3.37E-05	3.37E-05	3.60E-06	3.60E-06	1.05E-05	1.05E-05	1.02E-04	1.02E-04	0.00E+00	0.00E+00	8760
WOCOPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-07	2.88E-07	2.73E-06	2.73E-06	4.31E-07	4.31E-07	7.19E-06	7.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WILLOWAIR1	1.06E-07	2.91E-08	2.91E-08	1.20E-09	1.20E-09	1.20E-09	4.52E-09	4.52E-09	4.52E-09	3.13E-10	3.13E-10	1.35E-10	1.35E-10	3.57E-11	3.57E-11	8.53E-11	8.53E-11	9.34E-12	9.34E-12	2.28E-09	2.28E-09	8760
WILLOWAIR2	1.06E-07	2.91E-08	2.91E-08	1.20E-09	1.20E-09	1.20E-09	4.52E-09	4.52E-09	4.52E-09	3.13E-10	3.13E-10	1.35E-10	1.35E-10	3.57E-11	3.57E-11	8.53E-11	8.53E-11	9.34E-12	9.34E-12	2.28E-09	2.28E-09	8760
WILLOWAIR3	1.06E-07	2.91E-08	2.91E-08	1.20E-09	1.20E-09	1.20E-09	4.52E-09	4.52E-09	4.52E-09	3.13E-10	3.13E-10	1.35E-10	1.35E-10	3.57E-11	3.57E-11	8.53E-11	8.53E-11	9.34E-12	9.34E-12	2.28E-09	2.28E-09	8760
WOCOPSFUGD	0.00E+00	0.00E+00	0.00E+00	1.11E-01	1.66E-02	1.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFPCE1	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	3.94E-10	3.94E-10	2.30E-10	2.30E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-10	8.04E-10	8760
WCFPCE2	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	3.94E-10	3.94E-10	2.30E-10	2.30E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-10	8.04E-10	8760
WCFPCE3	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	3.94E-10	3.94E-10	2.30E-10	2.30E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-10	8.04E-10	8760
WCFPCE4	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	3.94E-10	3.94E-10	2.30E-10	2.30E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-10	8.04E-10	8760
WCFPCE5	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	3.94E-10	3.94E-10	2.30E-10	2.30E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-10	8.04E-10	8760
WCFPCE6	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	3.94E-10	3.94E-10	2.30E-10	2.30E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-10	8.04E-10	8760
WCFPCE7	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	3.94E-10	3.94E-10	2.30E-10	2.30E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-10	8.04E-10	8760
WCFSCE1	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8.80E-12	8.80E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.14E-10	3.14E-10	8760
WCFSCE2	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8.80E-12	8.80E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.14E-10	3.14E-10	8760
WCFSCE3	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8.80E-12	8.80E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.14E-10	3.14E-10	8760
WCFSCE4	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8.80E-12	8.80E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.14E-10	3.14E-10	8760
WCFSCE5	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8.80E-12	8.80E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.14E-10	3.14E-10	8760
WCFSCE6	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8.80E-12	8.80E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.14E-10	3.14E-10	8760
WCFSCE7	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8.80E-12	8.80E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.14E-10	3.14E-10	8760
WCFNRE1	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	1.93E-09	1.93E-09	8.47E-10	8.47E-10	5.90E-10	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-09	2.44E-09	8760
WCFNRE2	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	1.93E-09	1.93E-09	8.47E-10	8.47E-10	5.90E-10	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-09	2.44E-09	8760
WCFNRE3	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	1.93E-09	1.93E-09	8.47E-10	8.47E-10	5.90E-10	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-09	2.44E-09	8760
WCFNRE4	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	1.93E-09	1.93E-09	8.47E-10	8.47E-10	5.90E-10	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-09	2.44E-09	8760
WCFNRE5	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	1.93E-09	1.93E-09	8.47E-10	8.47E-10	5.90E-10	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-09	2.44E-09	8760
WCFNRE6	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	1.93E-09	1.93E-09	8.47E-10	8.47E-10	5.90E-10	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-09	2.44E-09	8760
WCFNRE7	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	1.93E-09	1.93E-09	8.47E-10	8.47E-10	5.90E-10	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-09	2.44E-09	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WLW2GEN	1.19E-01	5.87E-01	6.08E-01	3.46E-02	3.46E-02	3.53E-02	3.51E-04	3.51E-04	3.51E-04	1.91E-04	2.05E-04	7.62E-05	8.20E-05	5.24E-05	5.24E-05	2.47E-07	4.32E-06	0.00E+00	0.00E+00	1.24E-04	1.41E-04	8760
BT3NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	1.33E-09	1.33E-10	6.42E-10	6.42E-11	6.32E-13	6.32E-14	4.06E-10	4.06E-11	0.00E+00	0.00E+00	1.23E-09	1.23E-10	876
BT3WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	1.71E-09	6.73E-10	1.19E-09	4.68E-10	4.57E-12	1.80E-12	5.24E-10	2.07E-10	0.00E+00	0.00E+00	4.37E-09	1.72E-09	288
3WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
BT1NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	1.33E-09	1.33E-10	6.42E-10	6.42E-11	6.32E-13	6.32E-14	4.06E-10	4.06E-11	0.00E+00	0.00E+00	1.23E-09	1.23E-10	876
BT1WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	1.71E-09	6.73E-10	1.19E-09	4.68E-10	4.57E-12	1.80E-12	5.24E-10	2.07E-10	0.00E+00	0.00E+00	4.37E-09	1.72E-09	288
1WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
BT2NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	1.33E-09	1.33E-10	6.42E-10	6.42E-11	6.32E-13	6.32E-14	4.06E-10	4.06E-11	0.00E+00	0.00E+00	1.23E-09	1.23E-10	876
BT2WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	1.71E-09	6.73E-10	1.19E-09	4.68E-10	4.57E-12	1.80E-12	5.24E-10	2.07E-10	0.00E+00	0.00E+00	4.37E-09	1.72E-09	288
2WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
BT4NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	1.33E-09	1.33E-10	6.42E-10	6.42E-11	6.32E-13	6.32E-14	4.06E-10	4.06E-11	0.00E+00	0.00E+00	1.23E-09	1.23E-10	876
BT4WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	1.71E-09	6.73E-10	1.19E-09	4.68E-10	4.57E-12	1.80E-12	5.24E-10	2.07E-10	0.00E+00	0.00E+00	4.37E-09	1.72E-09	288
4WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
BT5NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	1.33E-09	1.33E-10	6.42E-10	6.42E-11	6.32E-13	6.32E-14	4.06E-10	4.06E-11	0.00E+00	0.00E+00	1.23E-09	1.23E-10	876
BT5WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	1.71E-09	6.73E-10	1.19E-09	4.68E-10	4.57E-12	1.80E-12	5.24E-10	2.07E-10	0.00E+00	0.00E+00	4.37E-09	1.72E-09	288
5WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
WOCPCE	7.88E-08	3.56E-07	3.56E-07	2.83E-08	2.75E-08	2.75E-08	7.86E-10	7.86E-10	7.86E-10	6.22E-11	6.22E-11	4.67E-11	4.67E-11	1.90E-11	1.90E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-10	1.83E-10	8760
WOCSCE	6.12E-08	1.07E-07	1.07E-07	8.44E-09	8.44E-09	8.44E-09	7.50E-09	7.50E-09	7.50E-09	2.33E-12	2.33E-12	3.77E-12	3.77E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-12	6.99E-12	8.33E-11	8.33E-11	8760
WOCNRE	5.55E-07	2.47E-06	1.86E-06	2.08E-07	1.99E-07	1.35E-07	7.98E-09	7.98E-09	1.46E-09	3.82E-10	3.76E-10	3.77E-10	1.89E-10	1.17E-10	1.15E-10	3.74E-12	4.27E-13	0.00E+00	0.00E+00	1.61E-09	6.04E-10	8760
1TAIL1	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	1.18E-08	1.18E-08	1.42E-08	1.42E-08	4.77E-09	4.77E-09	1.54E-08	1.54E-08	5.07E-09	5.07E-09	1.33E-07	1.33E-07	8760
1TAIL2	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	1.18E-08	1.18E-08	1.42E-08	1.42E-08	4.77E-09	4.77E-09	1.54E-08	1.54E-08	5.07E-09	5.07E-09	1.33E-07	1.33E-07	8760
1TAIL3	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	1.18E-08	1.18E-08	1.42E-08	1.42E-08	4.77E-09	4.77E-09	1.54E-08	1.54E-08	5.07E-09	5.07E-09	1.33E-07	1.33E-07	8760
1TAIL4	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	1.18E-08	1.18E-08	1.42E-08	1.42E-08	4.77E-09	4.77E-09	1.54E-08	1.54E-08	5.07E-09	5.07E-09	1.33E-07	1.33E-07	8760
1TAIL5	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	1.18E-08	1.18E-08	1.42E-08	1.42E-08	4.77E-09	4.77E-09	1.54E-08	1.54E-08	5.07E-09	5.07E-09	1.33E-07	1.33E-07	8760
1TAIL6	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	1.18E-08	1.18E-08	1.42E-08	1.42E-08	4.77E-09	4.77E-09	1.54E-08	1.54E-08	5.07E-09	5.07E-09	1.33E-07	1.33E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
1TAIL7	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	1.18E-08	1.18E-08	1.42E-08	1.42E-08	4.77E-09	4.77E-09	1.54E-08	1.54E-08	5.07E-09	5.07E-09	1.33E-07	1.33E-07	8760
1TAIL8	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	1.18E-08	1.18E-08	1.42E-08	1.42E-08	4.77E-09	4.77E-09	1.54E-08	1.54E-08	5.07E-09	5.07E-09	1.33E-07	1.33E-07	8760
1TAIL9	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	1.18E-08	1.18E-08	1.42E-08	1.42E-08	4.77E-09	4.77E-09	1.54E-08	1.54E-08	5.07E-09	5.07E-09	1.33E-07	1.33E-07	8760
2TAIL1	9.54E-06	9.27E-06	9.27E-06	1.20E-06	4.38E-07	4.38E-07	4.95E-08	4.95E-08	4.95E-08	1.05E-08	1.05E-08	1.27E-08	1.27E-08	4.26E-09	4.26E-09	1.37E-08	1.37E-08	4.52E-09	4.52E-09	1.19E-07	1.19E-07	8760
2TAIL2	9.54E-06	9.27E-06	9.27E-06	1.20E-06	4.38E-07	4.38E-07	4.95E-08	4.95E-08	4.95E-08	1.05E-08	1.05E-08	1.27E-08	1.27E-08	4.26E-09	4.26E-09	1.37E-08	1.37E-08	4.52E-09	4.52E-09	1.19E-07	1.19E-07	8760
2TAIL3	9.54E-06	9.27E-06	9.27E-06	1.20E-06	4.38E-07	4.38E-07	4.95E-08	4.95E-08	4.95E-08	1.05E-08	1.05E-08	1.27E-08	1.27E-08	4.26E-09	4.26E-09	1.37E-08	1.37E-08	4.52E-09	4.52E-09	1.19E-07	1.19E-07	8760
2TAIL4	9.54E-06	9.27E-06	9.27E-06	1.20E-06	4.38E-07	4.38E-07	4.95E-08	4.95E-08	4.95E-08	1.05E-08	1.05E-08	1.27E-08	1.27E-08	4.26E-09	4.26E-09	1.37E-08	1.37E-08	4.52E-09	4.52E-09	1.19E-07	1.19E-07	8760
2TAIL5	9.54E-06	9.27E-06	9.27E-06	1.20E-06	4.38E-07	4.38E-07	4.95E-08	4.95E-08	4.95E-08	1.05E-08	1.05E-08	1.27E-08	1.27E-08	4.26E-09	4.26E-09	1.37E-08	1.37E-08	4.52E-09	4.52E-09	1.19E-07	1.19E-07	8760
2TAIL6	9.54E-06	9.27E-06	9.27E-06	1.20E-06	4.38E-07	4.38E-07	4.95E-08	4.95E-08	4.95E-08	1.05E-08	1.05E-08	1.27E-08	1.27E-08	4.26E-09	4.26E-09	1.37E-08	1.37E-08	4.52E-09	4.52E-09	1.19E-07	1.19E-07	8760
3TAIL1	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
3TAIL2	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
3TAIL3	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
3TAIL4	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
3TAIL5	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
3TAIL6	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
3TAIL7	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
4TAIL1	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
4TAIL2	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
4TAIL3	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
4TAIL4	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
4TAIL5	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
4TAIL6	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
4TAIL7	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
5TAIL1	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
5TAIL2	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
5TAIL3	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
5TAIL4	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
5TAIL5	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
5TAIL6	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
5TAIL7	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
WOCTAIL1	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL2	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL3	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL4	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL5	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL6	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL7	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL8	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL9	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL10	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL11	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL12	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL13	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL14	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL15	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL16	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL17	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL18	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL19	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL20	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCTAIL21	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL22	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL23	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL24	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL25	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL26	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL27	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL28	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL29	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL30	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL31	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL32	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WOCTAIL33	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
AIRTAIL1	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
AIRTAIL2	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
AIRTAIL3	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
AIRTAIL4	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
AIRTAIL5	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
AIRTAIL6	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
AIRTAIL7	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	9.53E-09	9.53E-09	1.15E-08	1.15E-08	3.87E-09	3.87E-09	1.25E-08	1.25E-08	4.11E-09	4.11E-09	1.08E-07	1.08E-07	8760
WCFTAIL1	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL2	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL3	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL4	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL5	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WCFTAIL6	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL7	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL8	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL9	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL10	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL11	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL12	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL13	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL14	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL15	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL16	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL17	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL18	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
WCFTAIL19	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	1.16E-08	1.16E-08	1.41E-08	1.41E-08	4.72E-09	4.72E-09	1.52E-08	1.52E-08	5.01E-09	5.01E-09	1.32E-07	1.32E-07	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD7	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD8	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD9	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD1	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD5	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD6	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD7	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD1	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD5	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD6	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD7	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD1	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD5	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD6	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD7	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WCFMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD5	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD6	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD7	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD8	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD9	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD10	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD11	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD12	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD13	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD14	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD15	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD16	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD17	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD18	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD19	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD1	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD2	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD3	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD4	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD5	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD6	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCMFUGD7	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD8	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD9	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD10	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD11	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD12	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD13	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD14	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD15	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD16	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD17	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD18	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD19	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD20	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD21	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD22	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD23	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD24	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD25	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD26	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD27	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD28	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCMFUGD29	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD30	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD31	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD32	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD33	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD1	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD2	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD3	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD4	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD5	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD6	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD7	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCTEMPTRB1	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	9.17E-05	9.17E-05	9.93E-04	9.93E-04	2.45E-04	2.45E-04	4.89E-04	4.89E-04	0.00E+00	0.00E+00	1.68E-03	1.68E-03	8760
WOCTEMPTRB2	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	9.17E-05	9.17E-05	9.93E-04	9.93E-04	2.45E-04	2.45E-04	4.89E-04	4.89E-04	0.00E+00	0.00E+00	1.68E-03	1.68E-03	8760
RFDGMT1	3.50E-01	3.50E-01	2.69E+00	3.50E-01	3.50E-01	1.29E-01	1.67E-01	1.67E-01	1.67E-01	8.87E-03	8.87E-03	3.32E-03	3.32E-03	1.29E-02	1.29E-02	1.51E-02	1.51E-02	6.49E-02	6.49E-02	3.69E-03	3.69E-03	8760
RFDGMT2	4.06E+00	7.21E+00	7.34E-01	4.06E+00	6.44E-01	7.71E-02	1.40E-02	1.40E-02	6.33E-03	4.03E-04	4.03E-04	4.60E-04	4.60E-04	3.16E-04	3.16E-04	5.75E-04	5.75E-04	6.62E-03	6.62E-03	4.03E-04	4.03E-04	8760
RFDGWPDS1	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	3.02E-03	3.02E-03	8.32E-03	8.32E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.81E-01	1.81E-01	5.98E-05	5.98E-05	8760
RFDGWPDS2	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	3.02E-03	3.02E-03	8.32E-03	8.32E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.81E-01	1.81E-01	5.98E-05	5.98E-05	8760
RFDCD5	1.82E+00	2.15E+00	2.15E+00	1.27E-01	1.27E-01	1.27E-01	2.70E-01	2.70E-01	2.70E-01	6.26E-02	6.26E-02	2.31E-02	2.31E-02	5.05E-02	5.05E-02	6.60E-02	6.60E-02	2.54E-01	2.54E-01	1.73E-02	1.73E-02	8760

1. Annual emission rate calculations are based on the number of actual daily operating hours provided in the EI. If actual daily operating hour timeframes were not known, 8760 hours were assumed.

A.2 Alternative C

A.2.1 Scenario 1: Construction

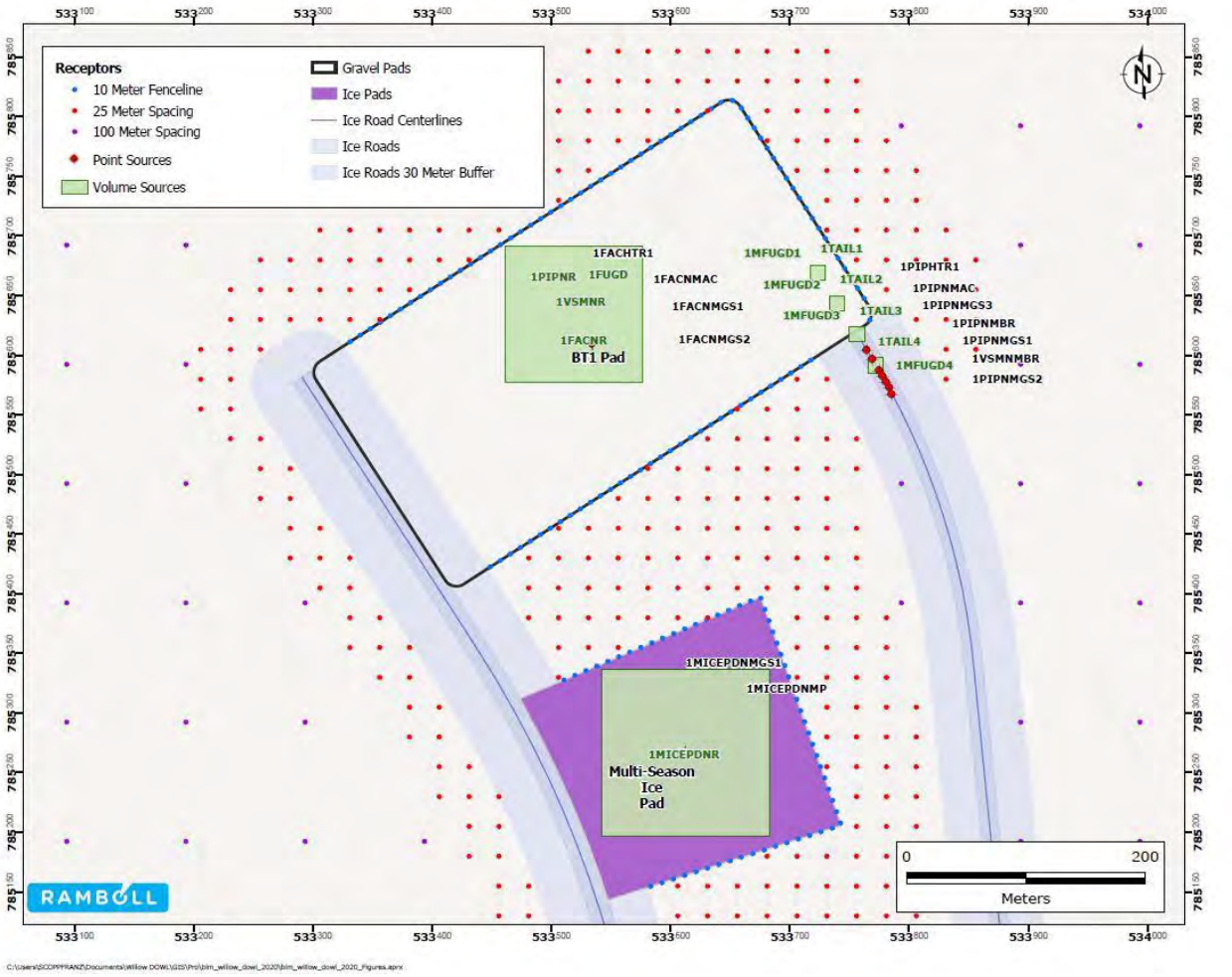


Figure A.2-1. Alternative C Near-field Model Scenario 1 Source Locations at BT1 with Ice Pad.

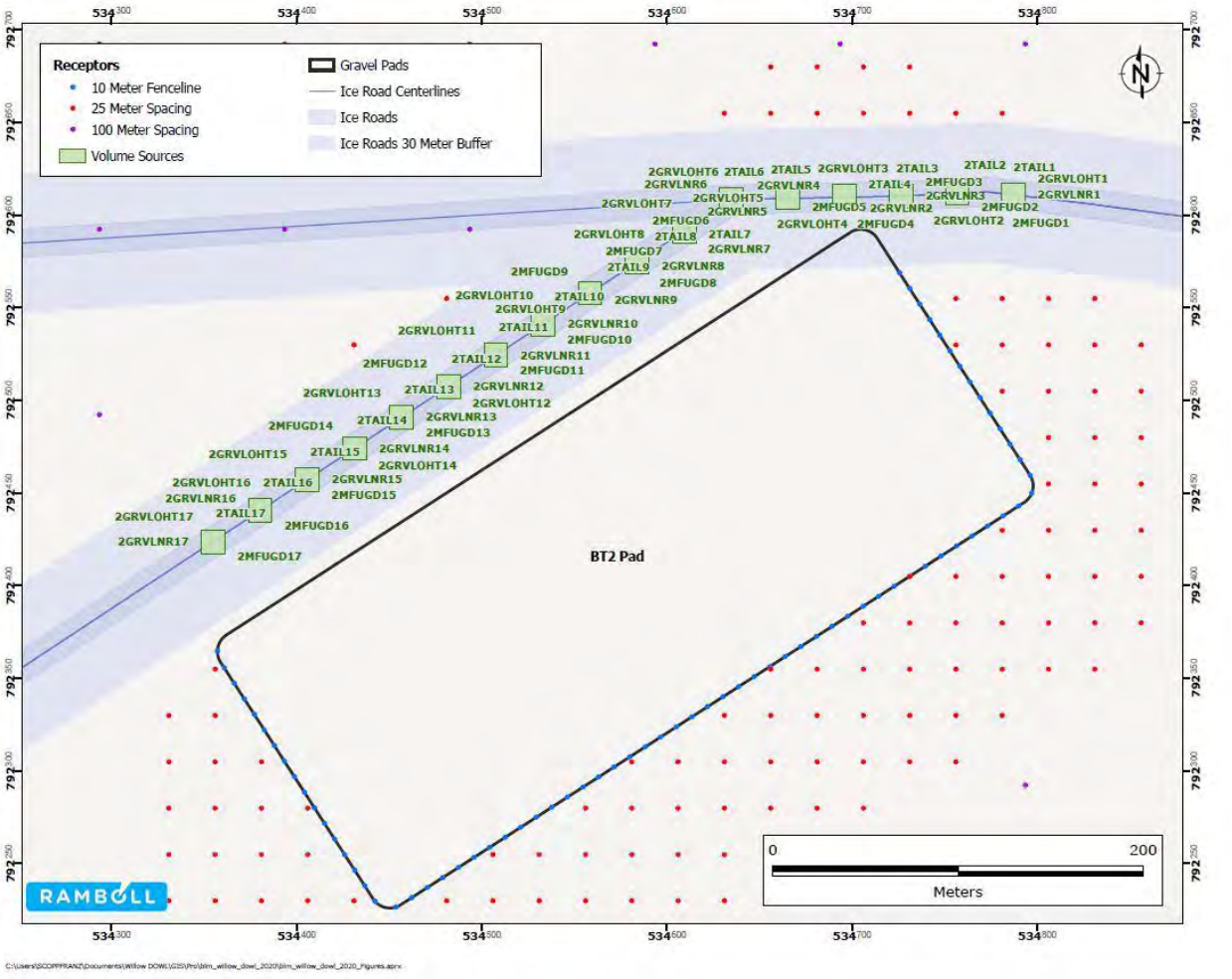


Figure A.2-2. Alternative C Near-field Model Scenario 1 Source Locations at BT2.

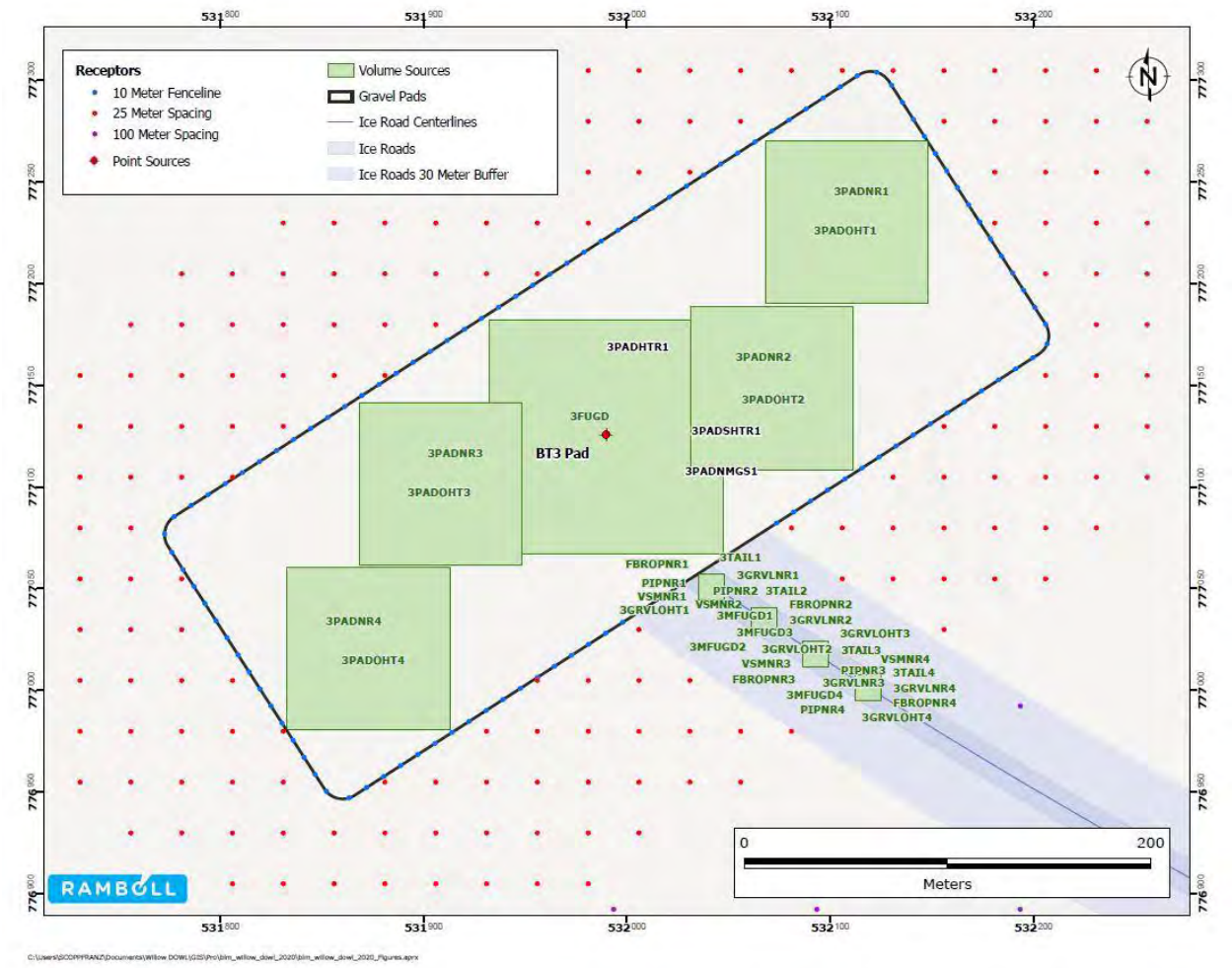


Figure A.2-3. Alternative C Near-field Model Scenario 1 Source Locations at BT3.

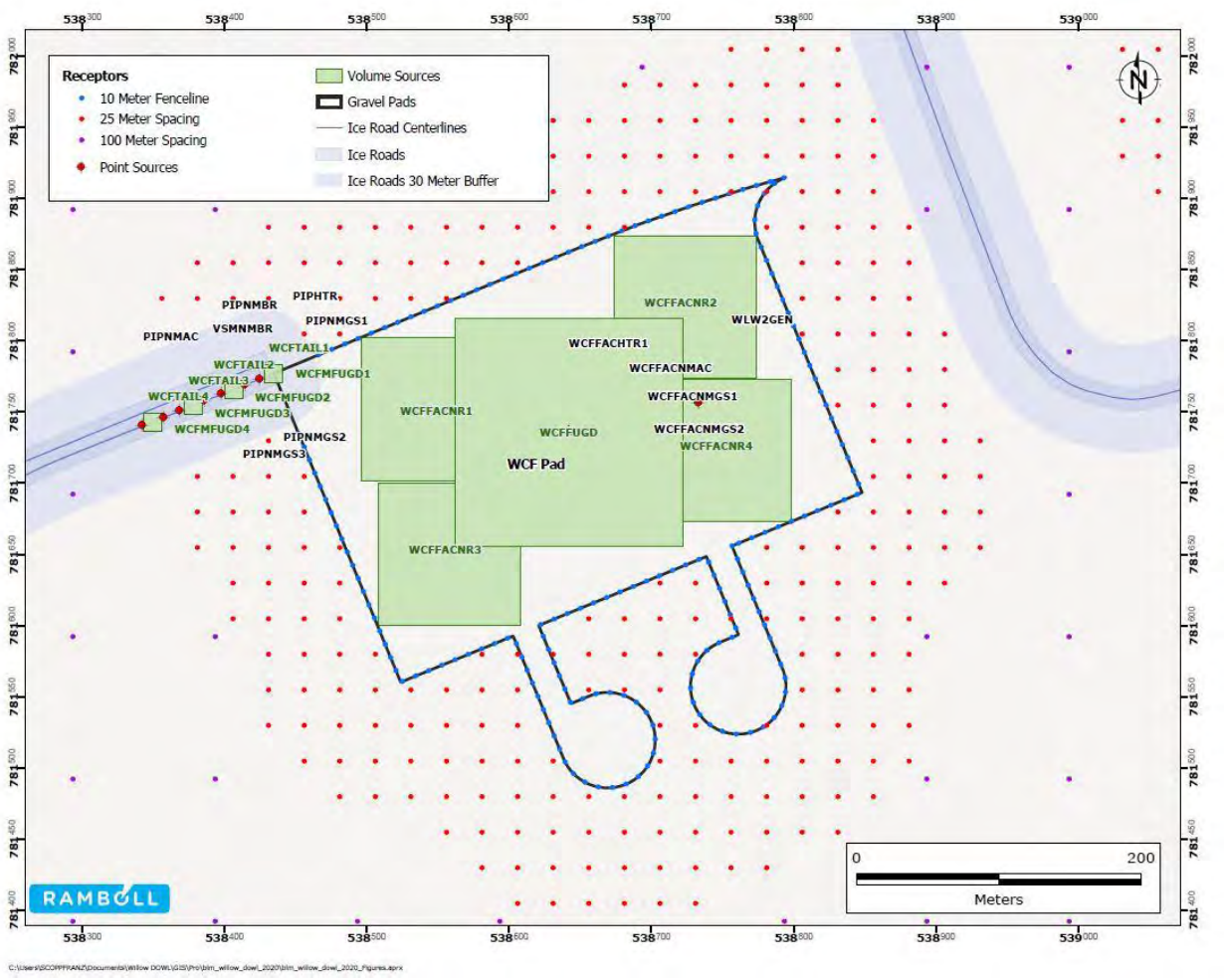


Figure A.2-4. Alternative C Near-field Model Scenario 1 Source Locations at WPF.

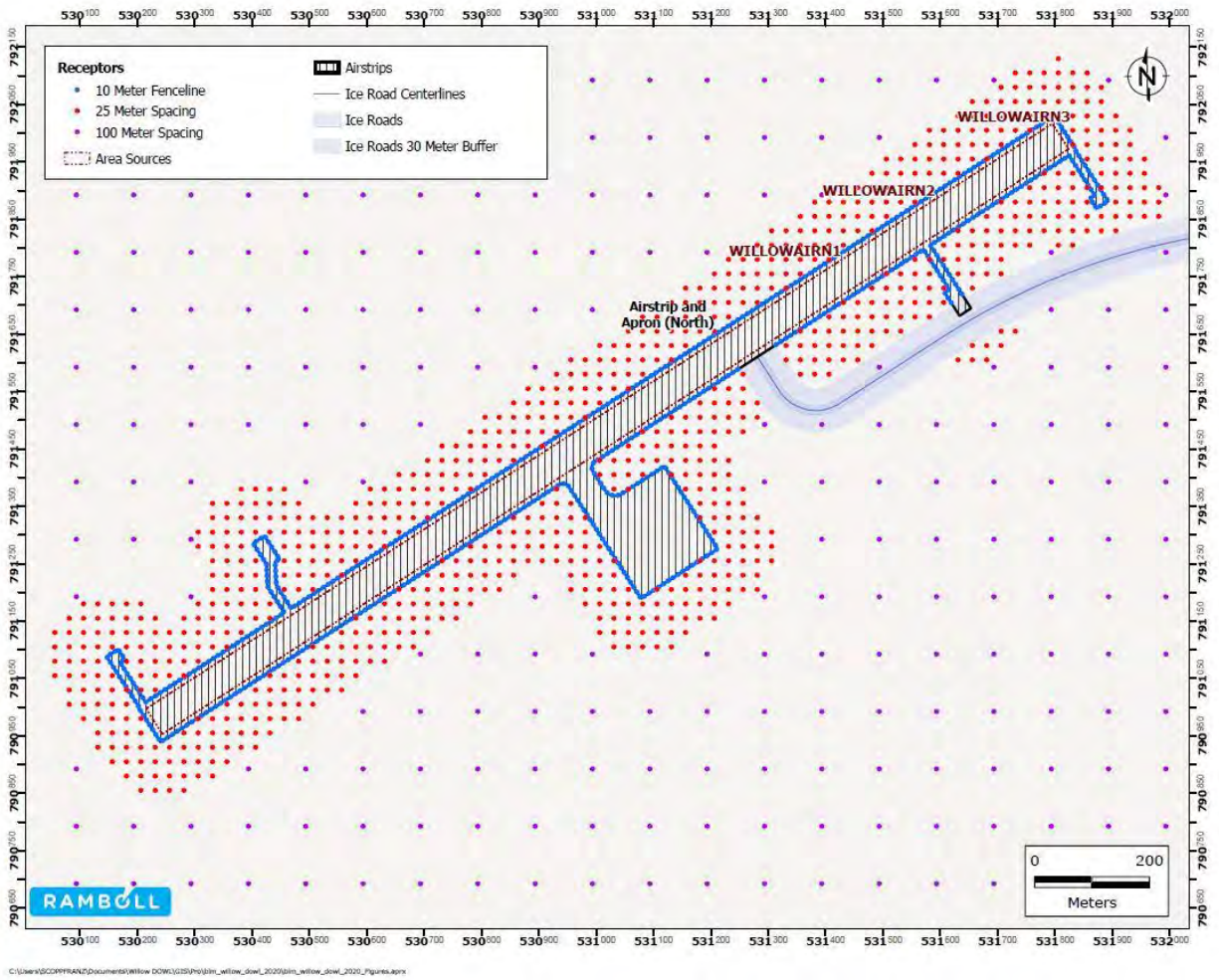


Figure A.2-5. Alternative C Near-field Model Scenario 1 Source Locations at North Airstrip.

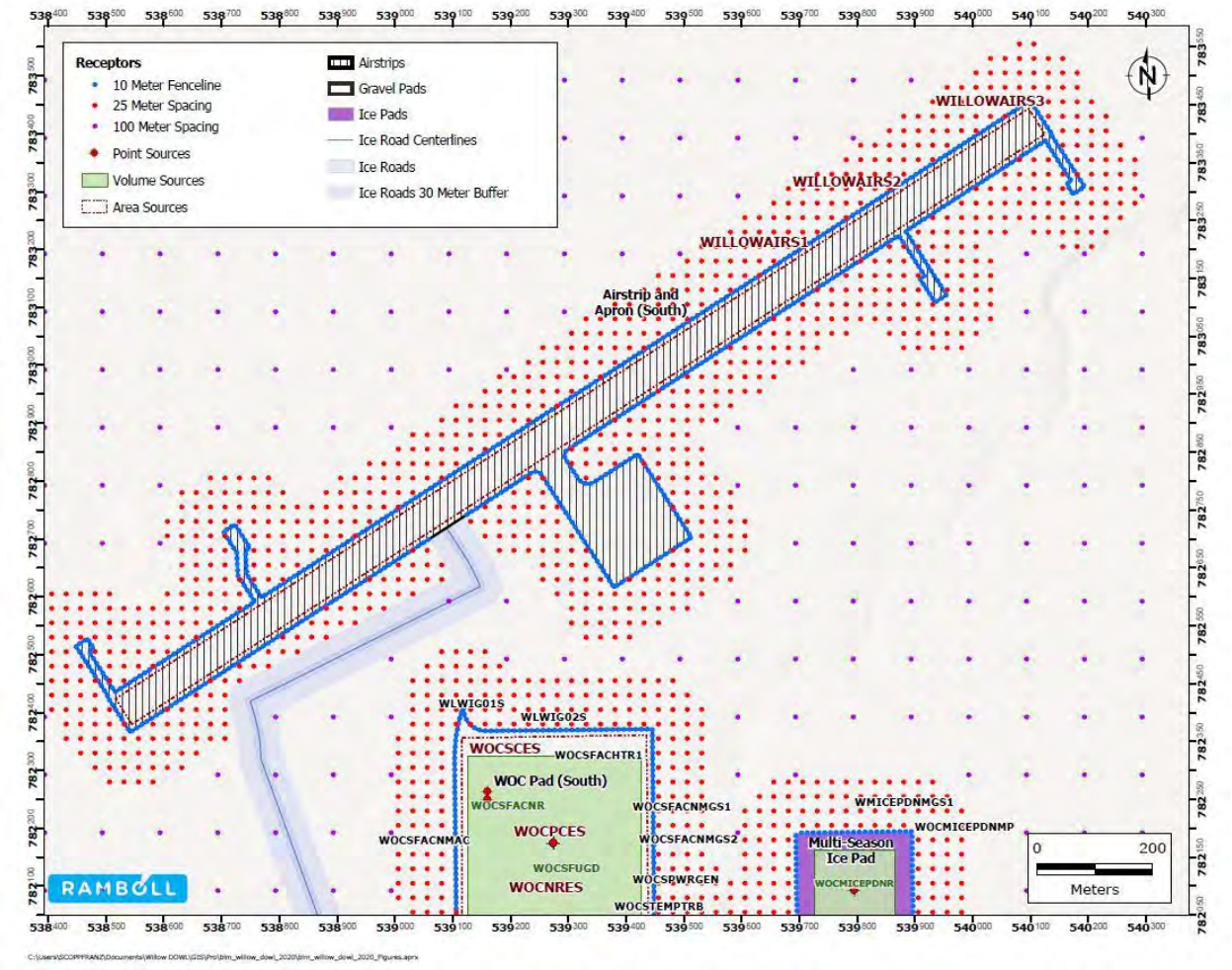


Figure A.2-6. Alternative C Near-field Model Scenario 1 Source Locations at South Airstrip/Willow Operations Center.

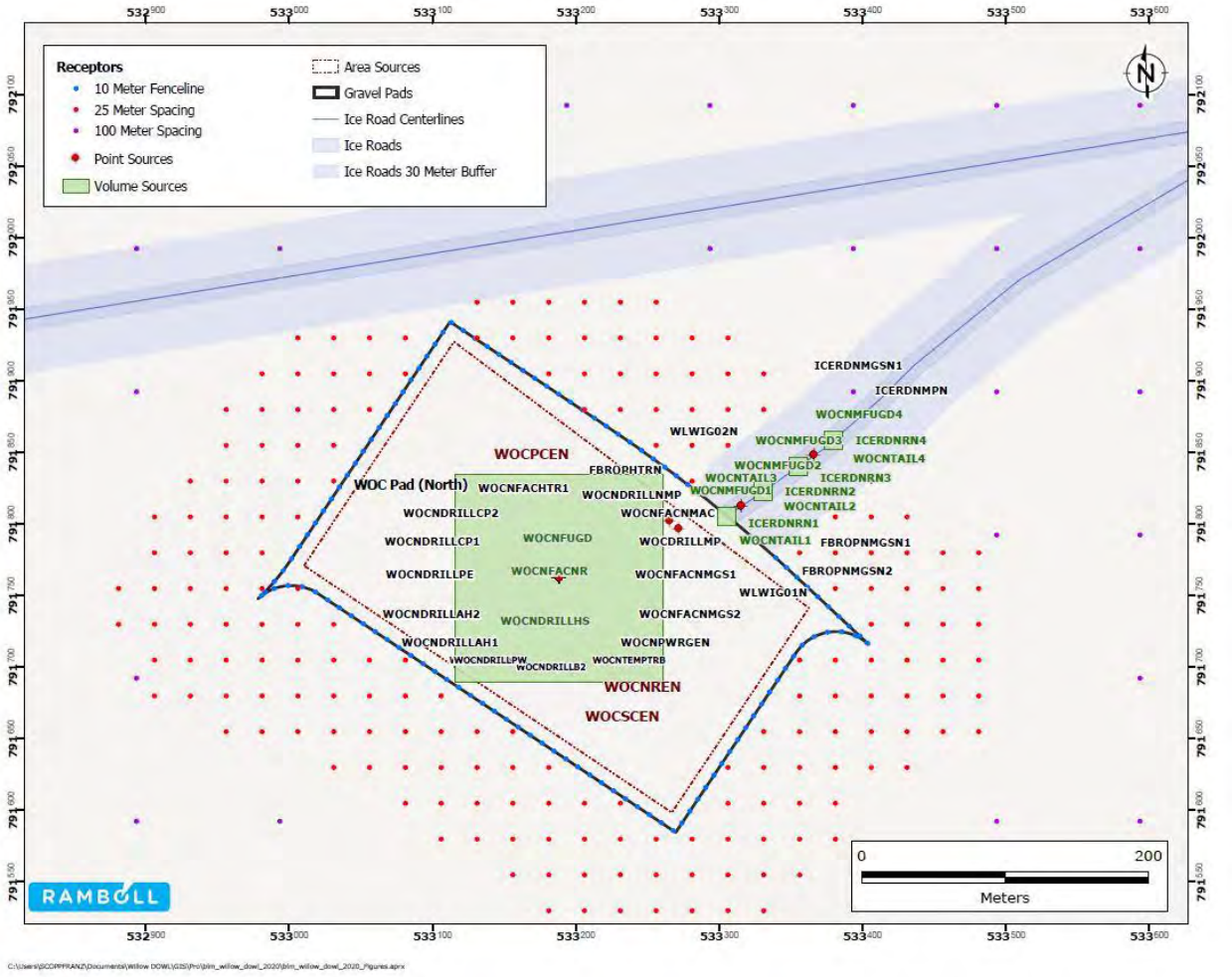


Figure A.2-7. Alternative C Near-field Model Scenario 1 Source Locations at WOC North.

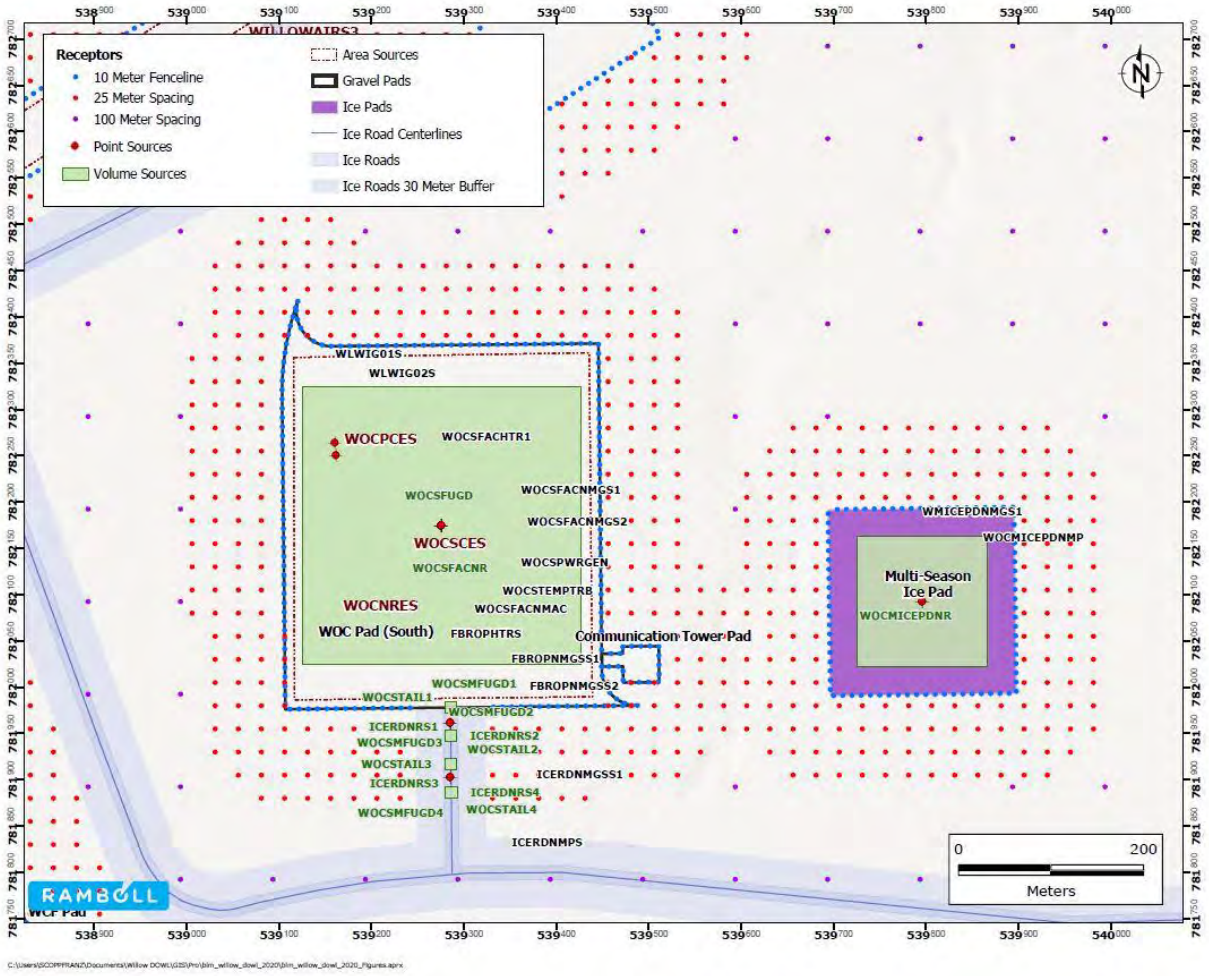


Figure A.2-8. Alternative C Near-field Model Scenario 1 Source Locations at WOC South.

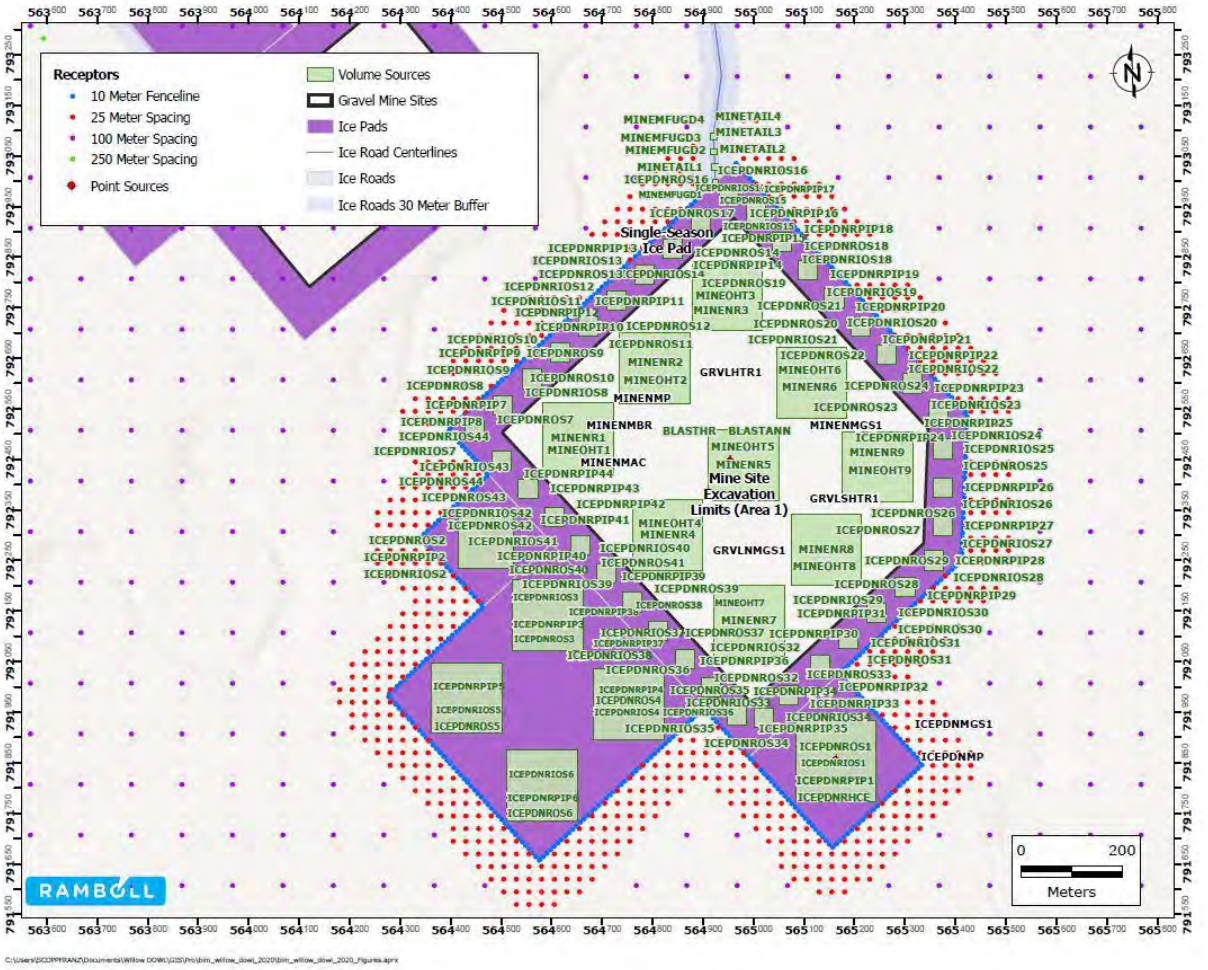


Figure A.2-9. Alternative C Near-field Model Scenario 1 Source Locations at Gravel Mine Site.

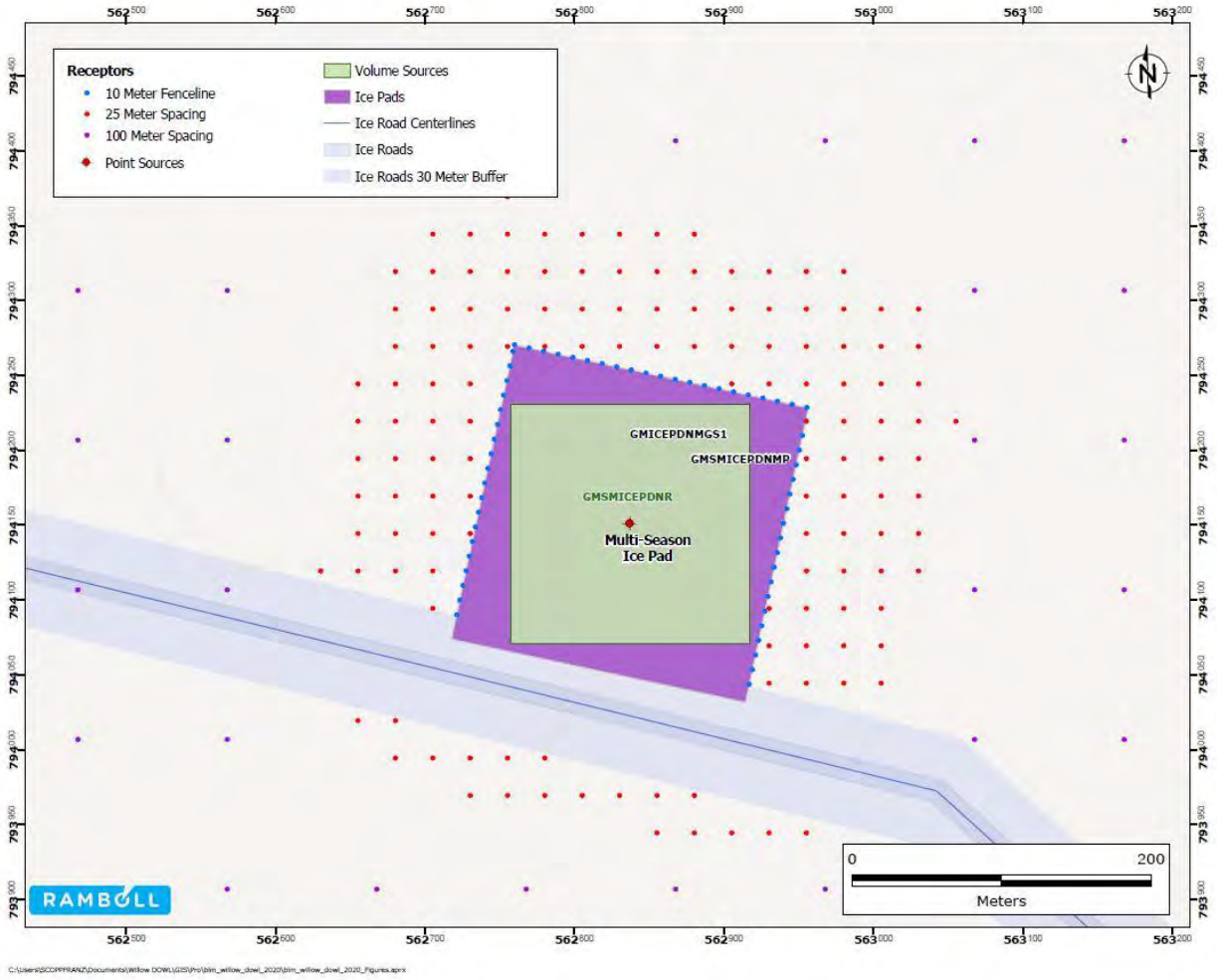


Figure A.2-10. Alternative C Near-field Model Scenario 1 Source Locations at Mine Camp.

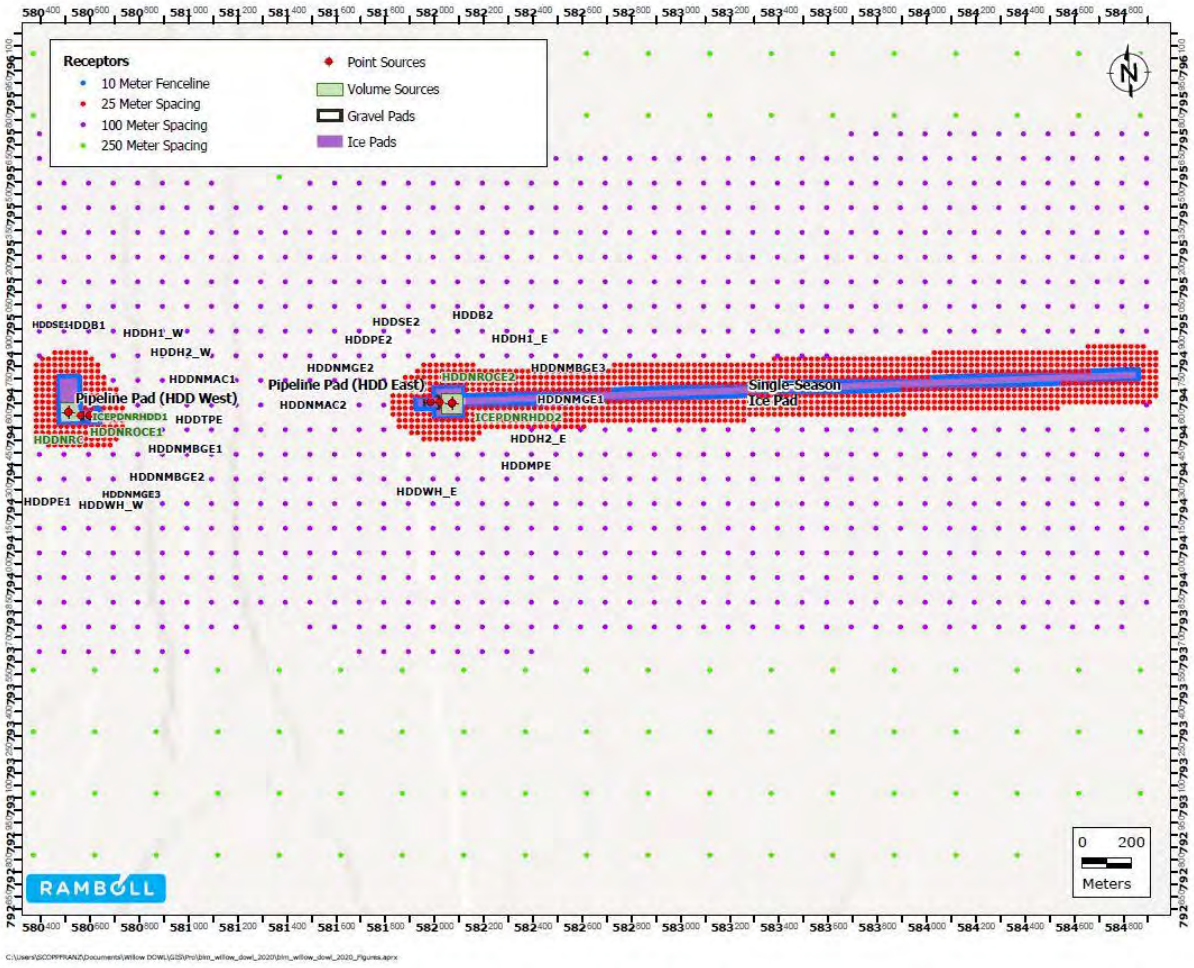


Figure A.2-11. Alternative C Near-field Model Scenario 1 Source Locations at HDD (wide view).

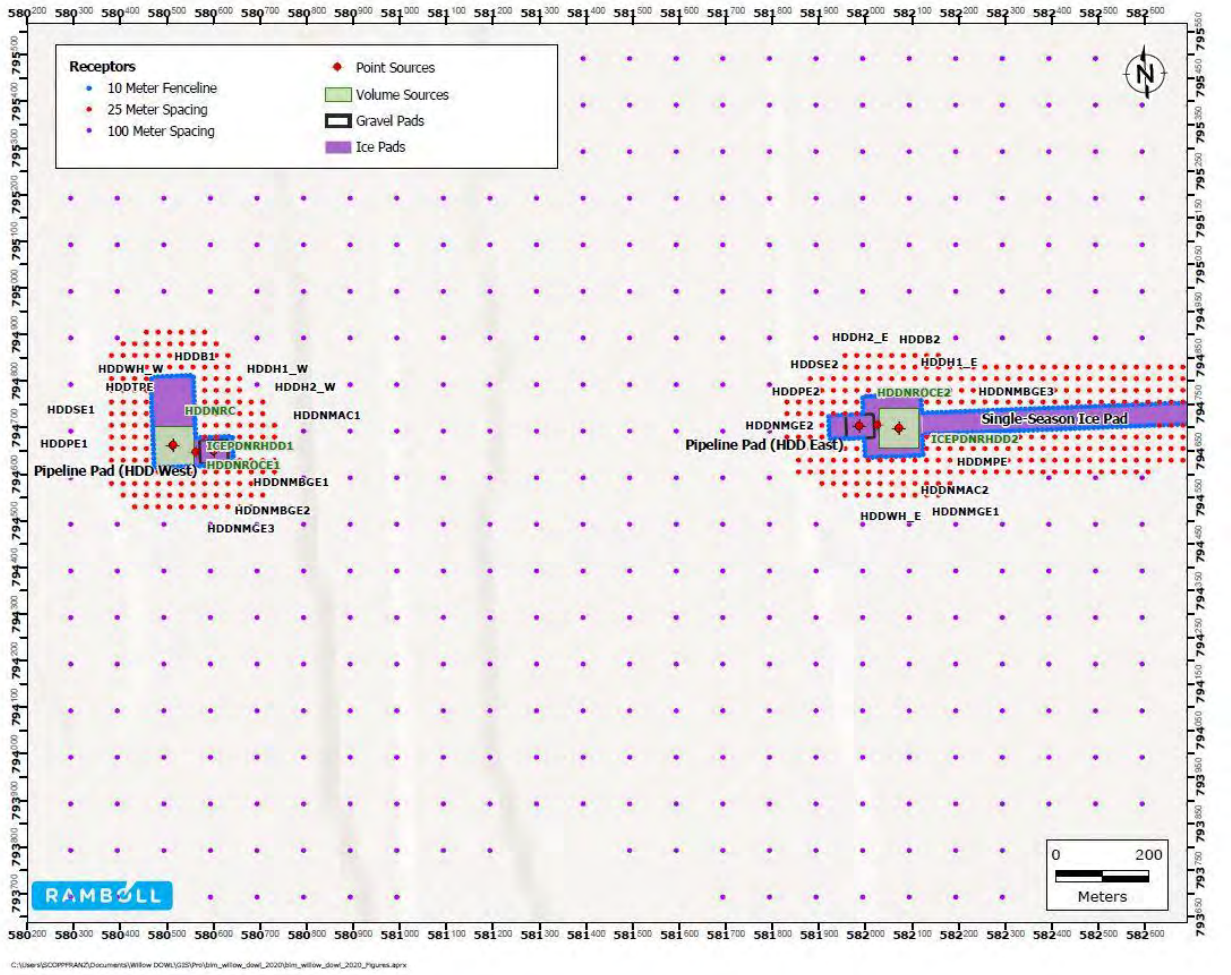


Figure A.2-12. Alternative C Near-field Model Scenario 1 Source Locations at HDD (close-up view).

Table A.2-1. Alternative C Near-field Model Scenario 1 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1FACHTR1	POINT	BT1 - Willow Facilities Installation - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
1FACNMAC	POINT	BT1 - Willow Facilities Installation - Air Compressors	0.1	Diesel engines
1FACNR	VOLUME	BT1 - Willow Facilities Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1FACNMGS1	POINT	BT1 - Willow Facilities Installation - Generator Sets	0.1	Diesel engines
1FACNMGS2	POINT	BT1 - Willow Facilities Installation - Generator Sets	0.1	Diesel engines
1PIPHTR1	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
1PIPNMAC	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Air Compressors	0.1	Diesel engines
1PIPNR	VOLUME	BT1 - Pipeline Installation - Wellsite to WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1PIPNMBR	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
1PIPNMGS1	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel engines
1PIPNMGS2	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel engines
1PIPNMGS3	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel engines
1VSMNR	VOLUME	BT1 - Vertical Support Member (VSM) Construction - Wellsite to WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1VSMNMBR	POINT	BT1 - Vertical Support Member (VSM) Construction - Wellsite to WPF - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
1FUGD	VOLUME	BT1 - Wind Erosion Fugitive Dust - Wind Erosion Fugitive Dust	-	-
3PADHTR1	POINT	BT3 - Pad Construction - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
3PADSHTR1	POINT	BT3 - Pad Construction - Construction Shop Heaters	0.05	Diesel or natural gas heaters, or boiler
3PADNMGS1	POINT	BT3 - Pad Construction - Generator Sets	0.1	Diesel engines
3FUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust - Wind Erosion Fugitive Dust	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ALPAIR1	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 50.8m	0.5	USEPA default value
ALPAIR2	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 152.4m	0.5	USEPA default value
ALPAIR3	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 254m	0.5	USEPA default value
BDGHTR1	POINT	Bridge Installation - Construction Heater #1	0.05	Diesel or natural gas heaters, or boiler
BDGHTR2	POINT	Bridge Installation - Construction Heater #2	0.05	Diesel or natural gas heaters, or boiler
BDGNMAC1	POINT	Bridge Installation - Air Compressors	0.1	Diesel engines
BDGNMAC2	POINT	Bridge Installation - Air Compressors	0.1	Diesel engines
BDGNR	VOLUME	Bridge Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
BDGNMBR	POINT	Bridge Installation - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
BDGNMGS1	POINT	Bridge Installation - Generator Sets	0.1	Diesel engines
BDGNMGS2	POINT	Bridge Installation - Generator Sets	0.1	Diesel engines
MINENMAC	POINT	Gravel Mining - Air Compressors	0.1	Diesel engines
MINENMBR	POINT	Gravel Mining - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
MINENMGS1	POINT	Gravel Mining - Generator Sets	0.1	Diesel engines
MINENMP	POINT	Gravel Mining - Pumps	0.2	Diesel tailpipe from non-road equipment
BLASTANN	VOLUME	Blasting Emissions - Blasting Long Term	0.5	USEPA default value
BLASTHR	VOLUME	Blasting Emissions - Blasting Short Term	0.5	USEPA default value
GRVLHTR1	POINT	Gravel Roads Construction - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
GRVLSHTR1	POINT	Gravel Roads Construction - Construction Shop Heaters	0.05	Diesel or natural gas heaters, or boiler
GRVLNMGS1	POINT	Gravel Roads Construction - Generator Sets	0.1	Diesel engines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICERDNMGSS1	POINT	Seasonal Ice Road Construction - Generator Sets	0.1	Diesel engines
ICERDNMPS	POINT	Seasonal Ice Road Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
ICERDNMGSN1	POINT	Seasonal Ice Road Construction - Generator Sets	0.1	Diesel engines
ICERDNMPN	POINT	Seasonal Ice Road Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
ICEPDNMGS1	POINT	Single Season Ice Pad Construction - Generator Sets	0.1	Diesel engines
ICEPDNMP	POINT	Single Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
1MICEPDNR	VOLUME	Multi-Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1MICEPDNMGS1	POINT	Multi-Season Ice Pad Construction - Generator Sets	0.1	Diesel engines
1MICEPDNMP	POINT	Multi-Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
WOCMICEPDNR	VOLUME	Multi-Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WMICEPDNMGS1	POINT	Multi-Season Ice Pad Construction - Generator Sets	0.1	Diesel engines
WOCMICEPDNMP	POINT	Multi-Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
GMSMICEPDNR	VOLUME	Multi-Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
GMICEPDNMGS1	POINT	Multi-Season Ice Pad Construction - Generator Sets	0.1	Diesel engines
GMSMICEPDNMP	POINT	Multi-Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
FBROPHTRN	POINT	Fiber Optic Line Installation - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
FBROPNMGSN1	POINT	Fiber Optic Line Installation - Generator Sets	0.1	Diesel engines
FBROPNMGSN2	POINT	Fiber Optic Line Installation - Generator Sets	0.1	Diesel engines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
FBROPHTRS	POINT	Fiber Optic Line Installation - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
FBROPNMGSS1	POINT	Fiber Optic Line Installation - Generator Sets	0.1	Diesel engines
FBROPNMGSS2	POINT	Fiber Optic Line Installation - Generator Sets	0.1	Diesel engines
PIPHTR	POINT	Pipeline Installation - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
PIPNMAC	POINT	Pipeline Installation - Air Compressors	0.1	Diesel engines
PIPNMBR	POINT	Pipeline Installation - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
PIPNMGS1	POINT	Pipeline Installation - Generator Sets	0.1	Diesel engines
PIPNMGS2	POINT	Pipeline Installation - Generator Sets	0.1	Diesel engines
PIPNMGS3	POINT	Pipeline Installation - Generator Sets	0.1	Diesel engines
VSMNMBR	POINT	Vertical Support Member Construction - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
HDDPE1	POINT	Boring Equipment - Primary Power Engine #1	0.2	Diesel tailpipe from non-road equipment
HDDPE2	POINT	Boring Equipment - Primary Power Engine #2	0.2	Diesel tailpipe from non-road equipment
HDDSE1	POINT	Boring Equipment - Secondary Power Engine #1	0.2	Diesel tailpipe from non-road equipment
HDDSE2	POINT	Boring Equipment - Secondary Power Engine #2	0.2	Diesel tailpipe from non-road equipment
HDDMPE	POINT	Boring Equipment - Mud Pump Engine	0.2	Diesel tailpipe from non-road equipment
HDDTPE	POINT	Boring Equipment - Transfer Pump Engine	0.2	Diesel tailpipe from non-road equipment
HDDB1	POINT	Boring Equipment - Boiler #1	0.05	Diesel or natural gas heaters, or boiler
HDDB2	POINT	Boring Equipment - Boiler #2	0.05	Diesel or natural gas heaters, or boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
HDDH1_W	POINT	Boring Equipment - Heater #1 - West	0.1	Diesel engines
HDDH1_E	POINT	Boring Equipment - Heater #1 - East	0.1	Diesel engines
HDDH2_W	POINT	Boring Equipment - Heater #2 - West	0.1	Diesel engines
HDDH2_E	POINT	Boring Equipment - Heater #2 - East	0.1	Diesel engines
HDDWH_W	POINT	Boring Equipment - Water Heater - West	0.1	Diesel engines
HDDWH_E	POINT	Boring Equipment - Water Heater - East	0.1	Diesel engines
HDDNMGE1	POINT	Non-Mobile Support Equipment - Generator Sets	0.1	Diesel engines
HDDNMGE2	POINT	Non-Mobile Support Equipment - Generator Sets	0.1	Diesel engines
HDDNMGE3	POINT	Non-Mobile Support Equipment - Generator Sets	0.1	Diesel engines
HDDNMBGE1	POINT	Non-Mobile Support Equipment - Backup Generator Sets	0.1	Diesel engines
HDDNMBGE2	POINT	Non-Mobile Support Equipment - Backup Generator Sets	0.1	Diesel engines
HDDNMBGE3	POINT	Non-Mobile Support Equipment - Backup Generator Sets	0.1	Diesel engines
HDDNMAC1	POINT	Non-Mobile Support Equipment - Air Compressors #1	0.1	Diesel engines
HDDNMAC2	POINT	Non-Mobile Support Equipment - Air Compressors #2	0.1	Diesel engines
HDDNROCE1	VOLUME	Non-Mobile Support Equipment - Other Construction Equipment #1	0.2	Diesel tailpipe from non-road equipment
HDDNROCE2	VOLUME	Non-Mobile Support Equipment - Other Construction Equipment #2	0.2	Diesel tailpipe from non-road equipment
HDDNRC	VOLUME	Non-Mobile Support Equipment - Cranes	0.2	Diesel tailpipe from non-road equipment
WOCSPWRGEN	POINT	All - Power Generation	0.1	Diesel engines
WOCSTEMPTRB	POINT	All - Power Generation Turbine	0.3	Natural gas-fired turbines
WOCSFACHTR1	POINT	Facilities Installation-WOC - Heaters	0.05	Diesel or natural gas heaters, or boiler
WOCSFACNMAC	POINT	Facilities Installation-WOC - Air Compressors	0.1	Diesel engines
WOCSFACNR	VOLUME	Facilities Installation-WOC - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCSFACNMGS1	POINT	Facilities Installation-WOC - Generator Sets	0.1	Diesel engines
WOCSFACNMGS2	POINT	Facilities Installation-WOC - Generator Sets	0.1	Diesel engines
WCFFACHTR1	POINT	Facilities Installation-WPF - Heaters	0.05	Diesel or natural gas heaters, or boiler
WCFFACNMAC	POINT	Facilities Installation-WPF - Air Compressors	0.1	Diesel engines
WCFFACNMGS1	POINT	Facilities Installation-WPF - Generator Sets	0.1	Diesel engines
WCFFACNMGS2	POINT	Facilities Installation-WPF - Generator Sets	0.1	Diesel engines
WCFFUGD	VOLUME	Construction Fugitive Dust-WPF - Wind Erosion Fugitive Dust	-	-
WILLOWAIRS1	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 50.8m	0.5	USEPA default value
WILLOWAIRS2	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 152.4m	0.5	USEPA default value
WILLOWAIRS3	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 254m	0.5	USEPA default value
2TAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL5	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL6	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL7	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL8	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL9	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2TAIL10	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL11	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL12	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL13	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL14	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL15	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL16	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL17	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
3TAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
1TAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCSTAIL1	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL2	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL3	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL4	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL1	VOLUME	Mobile Support Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL2	VOLUME	Mobile Support Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL3	VOLUME	Mobile Support Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL4	VOLUME	Mobile Support Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
MINETAIL1	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles
MINETAIL2	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles
MINETAIL3	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles
MINETAIL4	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2MFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD5	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD6	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD7	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD8	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD9	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD10	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD11	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD12	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD13	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD14	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD15	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD16	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD17	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
WCFMFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - WPF	-	-
WCFMFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - WPF	-	-
WCFMFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - WPF	-	-
WCFMFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - WPF	-	-
WOCSMFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCSMFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
MINEMFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
MINEMFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
MINEMFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
MINEMFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
2GRVLNR1	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR2	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR3	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR4	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR5	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR6	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR7	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR8	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR9	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR10	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR11	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2GRVLNR12	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR13	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR14	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR15	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR16	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR17	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR1	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR2	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR3	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR4	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRHCE	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNROS6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNROS22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNROS38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS44	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRIOS10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRIOS26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRIOS42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS44	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRPIP14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRPIP30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP44	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRHDD1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRHDD2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNRS1	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNRS2	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNRS3	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNRS4	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNRN1	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNRN2	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNRN3	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNRN4	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR1	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR2	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR3	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR4	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR1	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR2	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR3	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
VSMNR4	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR1	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR2	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR3	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR4	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR1	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR2	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR3	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR4	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR1	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR2	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR3	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR4	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR5	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR6	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR7	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
MINENR8	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR9	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADOHT1	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT2	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT3	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT4	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT1	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT2	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT3	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT4	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT5	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT6	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT7	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT8	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT9	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT10	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2GRVLOHT11	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT12	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT13	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT14	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT15	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT16	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT17	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT1	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT2	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT3	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT4	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT1	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT2	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT3	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT4	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT5	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
MINEOHT6	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT7	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT8	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT9	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
WCFFACNR1	VOLUME	Facilities Installation-WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WCFFACNR2	VOLUME	Facilities Installation-WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WCFFACNR3	VOLUME	Facilities Installation-WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WCFFACNR4	VOLUME	Facilities Installation-WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WLW2GEN	POINT	Stationary Combustion Sources - WPF - WPF Internal Combustion Equipment Non-Road Engines >140 HP	0.1	Diesel engines
WOCNPWRGEN	POINT	Temporary Power Generation - Power Generation	0.1	Diesel engines
WOCNTEMPTRB	POINT	Temporary Power Generation - Power Generation Turbine	0.3	Natural gas-fired turbines
WOCNFACHTR1	POINT	Facilities Installation-WOC - Heaters	0.05	Diesel or natural gas heaters, or boiler
WOCNFACNMAC	POINT	Facilities Installation-WOC - Air Compressors	0.1	Diesel engines
WOCNFACNR	VOLUME	Facilities Installation-WOC - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WOCNFACNMGS1	POINT	Facilities Installation-WOC - Generator Sets	0.1	Diesel engines
WOCNFACNMGS2	POINT	Facilities Installation-WOC - Generator Sets	0.1	Diesel engines
WOCNFUGD	VOLUME	Construction Fugitive Dust-WOCN - Wind Erosion Fugitive Dust	-	-
WOCNDRILLPE	POINT	Drill Rigs - Cement Pumping Unit #2	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCNDRILLCP1	POINT	Drill Rigs - Primary Power Engines	0.2	Diesel tailpipe from non-road equipment
WOCNDRILLCP2	POINT	Drill Rigs - Cement Pumping Unit #1	0.2	Diesel tailpipe from non-road equipment
WOCNDRILLB1	POINT	Drill Rigs - Boiler #1	0.05	Diesel or natural gas heaters, or boiler
WOCNDRILLB2	POINT	Drill Rigs - Boiler #2	0.05	Diesel or natural gas heaters, or boiler
WOCNDRILLAH1	POINT	Drill Rigs - Air Heater #1	0.05	Diesel or natural gas heaters, or boiler
WOCNDRILLAH2	POINT	Drill Rigs - Air Heater #2	0.05	Diesel or natural gas heaters, or boiler
WOCDRILLMP	POINT	Drill Rigs - Mud Pit Heater	0.05	Diesel or natural gas heaters, or boiler
WOCNDRILLNMT	POINT	Drilling Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
WOCNDRILLNML	POINT	Drilling Non-Mobile Support Equipment - Lighting Engines	0.2	Diesel tailpipe from non-road equipment
WOCNDRILLNMP	POINT	Drilling Non-Mobile Support Equipment - Portable Generator Engine	0.1	Diesel engines
WOCNDRILLPW	POINT	Drilling Non-Mobile Support Equipment - Portable Welders or Compressors	0.1	Diesel engines
WOCNDRILLHS	VOLUME	Drilling Non-Mobile Support Equipment - Portable Heaters and Snow Melters	0.05	Diesel tailpipe from non-road equipment
WOCNTAIL1	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL2	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL3	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL4	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNMFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCNMFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCNMFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCNMFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WILLOWAIRN1	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 50.8m	0.5	USEPA default value
WILLOWAIRN2	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 152.4m	0.5	USEPA default value
WILLOWAIRN3	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 254m	0.5	USEPA default value
WOCPCES	AREAPOLY	WOC - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCSCES	AREAPOLY	WOC - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCNRES	AREAPOLY	WOC - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WOCPCEN	AREAPOLY	WOC - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCSCEN	AREAPOLY	WOC - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCNREN	AREAPOLY	WOC - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WLWIG01S	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value
WLWIG02S	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value
WLWIG01N	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value
WLWIG02N	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value

Table A.2-2. Alternative C Near-field Model Scenario 1 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1FACHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
1FACNMAC	POINT	2.7432	13.3	0.4	10.5	614	-	-	-	-	-
1FACNR	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38	-	-	-
1FACNMGS1	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
1FACNMGS2	POINT	2.7432	6.5	0.2	47	761	-	-	-	-	-
1PIPHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
1PIPNMAC	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
1PIPNR	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38	-	-	-
1PIPNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
1PIPNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-	-	-	-
1PIPNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
1PIPNMGS3	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
1VSMNR	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38	-	-	-
1VSMNMBR	POINT	2.7432	13.3	0.4	10.5	614	-	-	-	-	-
1FUGD	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38	-	-	-
3PADHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
3PADSHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
3PADNMGS1	POINT	2.7432	6.5	0.2	47	761	-	-	-	-	-
3FUGD	VOLUME	3.6576	3.66	-	-	-	26.74419	3.38	-	-	-
ALPAIR1	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-
ALPAIR2	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-
ALPAIR3	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-
BDGHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
BDGHTR2	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
BDGNMAC1	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
BDGNMAC2	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
BDGNR	VOLUME	2.1336	3.66	-	-	-	11.62791	3.38	-	-	-
BDGNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
BDGNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-	-	-	-
BDGNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
MINENMAC	POINT	0	13.3	0.4	10.5	614	-	-	-	-	-
MINENMBR	POINT	0	13.3	0.4	10.5	614	-	-	-	-	-
MINENMGS1	POINT	0	6.5	0.2	47	761	-	-	-	-	-
MINENMP	POINT	0	13.3	0.4	10.5	614	-	-	-	-	-
BLASTANN	VOLUME	0	50	-	-	-	11.62791	11.63	-	-	-
BLASTHR	VOLUME	0	50	-	-	-	11.62791	11.63	-	-	-
GRVLHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
GRVLSHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
GRVLNMGS1	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
ICERDNMGSS1	POINT	1.5	6.5	0.2	47	761	-	-	-	-	-
ICERDNMPS	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
ICERDNMGSN1	POINT	1.5	6.5	0.2	47	761	-	-	-	-	-
ICERDNMPN	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
ICEPDNMGS1	POINT	1.5	6.5	0.2	47	761	-	-	-	-	-
ICEPDNMP	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
1MICEPDNR	VOLUME	3.048	3.66	-	-	-	32.55814	3.38	-	-	-
1MICEPDNMGS1	POINT	3.048	6.5	0.2	47	761	-	-	-	-	-
1MICEPDNMP	POINT	3.048	13.3	0.4	10.5	614	-	-	-	-	-
WOCMICEPDNR	VOLUME	3.048	3.66	-	-	-	32.55814	3.38	-	-	-
WMICEPDNMGS1	POINT	3.048	6.5	0.2	47	761	-	-	-	-	-
WOCMICEPDNMP	POINT	3.048	13.3	0.4	10.5	614	-	-	-	-	-
GMSMICEPDNR	VOLUME	3.048	3.66	-	-	-	37.2093	3.38	-	-	-
GMICEPDNMGS1	POINT	3.048	6.5	0.2	47	761	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
GMSMICEPDNMP	POINT	3.048	13.3	0.4	10.5	614	-	-	-	-	-
FBROPHTRN	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
FBROPNMGSN1	POINT	2.1336	6.1	0.46	15.1	795	-	-	-	-	-
FBROPNMGSN2	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
FBROPHTRS	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
FBROPNMGSS1	POINT	2.1336	6.1	0.46	15.1	795	-	-	-	-	-
FBROPNMGSS2	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
PIPHTR	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
PIPNMAC	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
PIPNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
PIPNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-	-	-	-
PIPNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
PIPNMGS3	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
VSMNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
HDDPE1	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDPE2	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDSE1	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDSE2	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDMPE	POINT	1.5	10.4	0.13	43.5	750	-	-	-	-	-
HDDTPE	POINT	1.5	10.4	0.13	43.5	750	-	-	-	-	-
HDDB1	POINT	1.5	11.9	0.279	11.7	450	-	-	-	-	-
HDDB2	POINT	1.5	11.9	0.279	11.7	450	-	-	-	-	-
HDDH1_W	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDH1_E	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDH2_W	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDH2_E	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDWH_W	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
HDDWH_E	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDNMGE1	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMGE2	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMGE3	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMBGE1	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMBGE2	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMBGE3	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMAC1	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDNMAC2	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDNROCE1	VOLUME	1.5	0	-	-	-	19.76744	8.7	-	-	-
HDDNROCE2	VOLUME	1.5	0	-	-	-	19.76744	8.7	-	-	-
HDDNRC	VOLUME	1.5	0	-	-	-	19.76744	8.7	-	-	-
WOCSPWRGEN	POINT	3.05	8.6	0.3	20	760	-	-	-	-	-
WOCSTEMPTRB	POINT	3.05	25	2	30	550	-	-	-	-	-
WOCSFACHTR1	POINT	3.048	12.2	0.94	5.7	529	-	-	-	-	-
WOCSFACNMAC	POINT	3.048	13.3	0.4	10.5	614	-	-	-	-	-
WOCSFACNR	VOLUME	3.048	3.66	-	-	-	69.76744	3.38	-	-	-
WOCSFACNMGS1	POINT	3.048	6.1	0.46	15.1	795	-	-	-	-	-
WOCSFACNMGS2	POINT	3.048	6.5	0.2	47	761	-	-	-	-	-
WCFFACHTR1	POINT	3.6576	12.2	0.94	5.7	529	-	-	-	-	-
WCFFACNMAC	POINT	3.6576	13.3	0.4	10.5	614	-	-	-	-	-
WCFFACNMGS1	POINT	3.6576	6.1	0.46	15.1	795	-	-	-	-	-
WCFFACNMGS2	POINT	3.6576	6.5	0.2	47	761	-	-	-	-	-
WCFFUGD	VOLUME	3.6576	3.66	-	-	-	37.2093	3.38	-	-	-
WILLOWAIRS1	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-
WILLOWAIRS2	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-
WILLOWAIRS3	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2TAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL5	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL6	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL7	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL8	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL9	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL10	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL11	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL12	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL13	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL14	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL15	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL16	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL17	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3TAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3TAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3TAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3TAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1TAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1TAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1TAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1TAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCSTAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCSTAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCSTAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCSTAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFTAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFTAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFTAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFTAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINETAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINETAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINETAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINETAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1MFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1MFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1MFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1MFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.66	-	-	-
2MFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD5	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD6	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD7	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD8	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD9	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD10	VOLUME	2.1336	3.66	-	-	-	14.17674	3.66	-	-	-
2MFUGD11	VOLUME	2.1336	3.66	-	-	-	14.17674	3.66	-	-	-
2MFUGD12	VOLUME	2.1336	3.66	-	-	-	14.17674	3.66	-	-	-
2MFUGD13	VOLUME	2.1336	3.66	-	-	-	14.17674	3.66	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2MFUGD14	VOLUME	2.1336	3.66	-	-	-	14.17674	3.66	-	-	-
2MFUGD15	VOLUME	2.1336	3.66	-	-	-	14.17674	3.66	-	-	-
2MFUGD16	VOLUME	2.1336	3.66	-	-	-	14.17674	3.66	-	-	-
2MFUGD17	VOLUME	2.1336	3.66	-	-	-	14.17674	3.66	-	-	-
3MFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3MFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3MFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3MFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFMFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFMFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFMFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WCFMFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCSMFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCSMFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCSMFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCSMFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEMFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEMFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEMFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEMFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR5	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR6	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR7	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2GRVLNR8	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR9	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR10	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR11	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR12	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR13	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR14	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR15	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR16	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR17	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICEPDNRHCE	VOLUME	2.1336	3.66	-	-	-	37.21	3.38	-	-	-
ICEPDNROS1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38	-	-	-
ICEPDNROS2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38	-	-	-
ICEPDNROS3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNROS4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNROS5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNROS6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNROS7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNROS13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNROS40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS44	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38	-	-	-
ICEPDNRIOS2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38	-	-	-
ICEPDNRIOS3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRIOS4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRIOS5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRIOS6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRIOS7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNRIOS23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS44	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38	-	-	-
ICEPDNRPIP2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38	-	-	-
ICEPDNRPIP3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRPIP4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRPIP5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNRPIP6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRPIP7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNRPIP33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP44	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRHDD1	VOLUME	2.1336	3.66	-	-	-	19.76744	3.38	-	-	-
ICEPDNRHDD2	VOLUME	2.1336	3.66	-	-	-	19.76744	3.38	-	-	-
ICERDNRS1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICERDNRS2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICERDNRS3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICERDNRS4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICERDNRN1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICERDNRN2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICERDNRN3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICERDNRN4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
PIPNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
PIPNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
PIPNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
PIPNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
VSMNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
VSMNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
VSMNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
VSMNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
FBROPNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
FBROPNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
FBROPNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
FBROPNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3PADNR1	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADNR2	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADNR3	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADNR4	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
MINENR1	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR2	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR3	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR4	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR5	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR6	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR7	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR8	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR9	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
3PADOHT1	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADOHT2	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADOHT3	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADOHT4	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2GRVLOHT1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2GRVLOHT4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT5	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT6	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT7	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT8	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT9	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT10	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT11	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT12	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT13	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT14	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT15	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT16	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT17	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLOHT1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLOHT2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLOHT3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLOHT4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEOHT1	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT2	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT3	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT4	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT5	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT6	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT7	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT8	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT9	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WCFFACNR1	VOLUME	3.6576	3.66	-	-	-	23.25581	3.38	-	-	-
WCFFACNR2	VOLUME	3.6576	3.66	-	-	-	23.25581	3.38	-	-	-
WCFFACNR3	VOLUME	3.6576	3.66	-	-	-	23.25581	3.38	-	-	-
WCFFACNR4	VOLUME	3.6576	3.66	-	-	-	23.25581	3.38	-	-	-
WLW2GEN	POINT	3.66	10.4	0.13	43.5	750	-	-	-	-	-
WOCNPWRGEN	POINT	3.05	8.6	0.3	20	760	-	-	-	-	-
WOCNTEMPTRB	POINT	3.05	25	2	30	550	-	-	-	-	-
WOCNFACHTR1	POINT	3.048	12.2	0.94	5.7	529	-	-	-	-	-
WOCNFACNMAC	POINT	3.048	13.3	0.4	10.5	614	-	-	-	-	-
WOCNFACNR	VOLUME	3.048	3.66	-	-	-	33.72093	3.38	-	-	-
WOCNFACNMGS1	POINT	3.048	6.1	0.46	15.1	795	-	-	-	-	-
WOCNFACNMGS2	POINT	3.048	6.5	0.2	47	761	-	-	-	-	-
WOCNFUGD	VOLUME	3.048	3.66	-	-	-	33.72093	3.38	-	-	-
WOCNDRILLPE	POINT	3.048	13.3	0.4	10.5	614	-	-	-	-	-
WOCNDRILLCP1	POINT	3.048	10.4	0.13	43.5	750	-	-	-	-	-
WOCNDRILLCP2	POINT	3.048	10.4	0.13	43.5	750	-	-	-	-	-
WOCNDRILLB1	POINT	3.048	11.9	0.279	11.7	450	-	-	-	-	-
WOCNDRILLB2	POINT	3.048	11.9	0.279	11.7	450	-	-	-	-	-
WOCNDRILLAH1	POINT	3.048	10.5	0.3	3.2	533	-	-	-	-	-
WOCNDRILLAH2	POINT	3.048	10.5	0.3	3.2	533	-	-	-	-	-
WOCDRILLMP	POINT	3.048	7.2	0.3	10.8	533	-	-	-	-	-
WOCNDRILLNMT	POINT	3.048	6.1	0.46	15.1	795	-	-	-	-	-
WOCNDRILLNML	POINT	3.048	6.5	0.2	47	761	-	-	-	-	-
WOCNDRILLNMP	POINT	3.048	6.1	0.46	15.1	795	-	-	-	-	-
WOCNDRILLPW	POINT	3.048	6.1	0.46	15.1	795	-	-	-	-	-
WOCNDRILLHS	VOLUME	3.048	3.66	-	-	-	33.72093	3.38	-	-	-
WOCNTAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCNTAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCNTAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCNTAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCNMFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCNMFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCNMFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCNMFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WILLOWAIRN1	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-
WILLOWAIRN2	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-
WILLOWAIRN3	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-
WOCPCES	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCSCES	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCNRES	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCPCEN	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCSCEN	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCNREN	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WLWIG01S	POINT	3.05	15	0.3	10	1200	-	-	-	-	-
WLWIG02S	POINT	3.05	15	0.3	10	1200	-	-	-	-	-
WLWIG01N	POINT	3.05	15	0.3	10	1200	-	-	-	-	-
WLWIG02N	POINT	3.05	15	0.3	10	1200	-	-	-	-	-

Table A.2-3. Alternative C Near-field Model Scenario 1 Emissions Rates

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1FACHTR1	2.65E-02	1.06E-01	2.75E-02	1.26E-02	1.13E-02	2.93E-03	1.13E-03	1.13E-03	2.93E-04	378.56
1FACNMAC	1.17E-02	1.78E-02	1.15E-03	1.53E-03	1.48E-03	9.62E-05	4.42E-05	4.42E-05	2.87E-06	94.64
1FACNR	5.85E-02	8.92E-02	4.91E-02	8.08E-03	7.83E-03	4.54E-03	1.43E-04	1.43E-04	7.69E-05	283.92
1FACNMGS1	1.60E-02	5.78E-02	1.50E-02	3.46E-03	3.35E-03	8.69E-04	6.82E-05	6.82E-05	1.77E-05	378.56
1FACNMGS2	2.59E-02	4.89E-02	1.27E-02	3.84E-03	3.73E-03	9.67E-04	4.18E-05	4.18E-05	1.08E-05	378.56
1PIPHTR1	4.90E-03	1.96E-02	7.89E-03	2.33E-03	2.09E-03	8.40E-04	2.09E-04	2.09E-04	8.40E-05	882
1PIPNMAC	1.66E-02	5.26E-02	1.59E-02	2.45E-03	2.38E-03	7.18E-04	8.89E-05	8.89E-05	2.69E-05	661.5
1PIPNR	1.13E-02	4.05E-02	2.93E-02	1.73E-03	1.68E-03	1.21E-03	1.28E-04	1.28E-04	9.17E-05	661.5
1PIPNMBR	8.87E-03	3.59E-02	1.08E-02	1.89E-03	1.84E-03	5.54E-04	4.44E-05	4.44E-05	1.34E-05	661.5
1PIPNMGS1	7.09E-03	1.73E-02	6.97E-03	1.09E-03	1.06E-03	4.26E-04	1.49E-05	1.49E-05	5.98E-06	882
1PIPNMGS2	3.83E-03	3.96E-03	1.60E-03	3.58E-04	3.47E-04	1.40E-04	3.41E-06	3.41E-06	1.37E-06	882
1PIPNMGS3	7.17E-03	1.35E-02	5.44E-03	1.06E-03	1.03E-03	4.15E-04	1.16E-05	1.16E-05	4.66E-06	882
1VSMNR	9.50E-03	2.53E-02	2.35E-02	1.35E-03	1.31E-03	1.29E-03	4.93E-05	4.93E-05	4.37E-05	693
1VSMNMBR	9.93E-03	4.17E-02	1.32E-02	2.07E-03	2.01E-03	6.35E-04	5.22E-05	5.22E-05	1.65E-05	693
1FUGD	0.00E+00	0.00E+00	0.00E+00	3.95E-02	5.93E-03	5.93E-03	0.00E+00	0.00E+00	0.00E+00	4380
3PADHTR1	1.35E-02	5.41E-02	4.98E-02	6.44E-03	5.76E-03	5.31E-03	5.76E-04	5.76E-04	5.31E-04	4704
3PADSHTR1	4.67E-03	1.87E-02	1.72E-02	2.22E-03	1.99E-03	1.83E-03	1.99E-04	1.99E-04	1.83E-04	4704
3PADNMGS1	1.32E-02	2.49E-02	2.29E-02	1.96E-03	1.90E-03	1.75E-03	2.13E-05	2.13E-05	1.96E-05	4704
3FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380
ALPAIR1	9.28E-09	8.21E-09	8.21E-09	1.16E-10	1.16E-10	1.16E-10	3.47E-10	3.47E-10	3.47E-10	8760
ALPAIR2	9.28E-09	8.21E-09	8.21E-09	1.16E-10	1.16E-10	1.16E-10	3.47E-10	3.47E-10	3.47E-10	8760
ALPAIR3	9.28E-09	8.21E-09	8.21E-09	1.16E-10	1.16E-10	1.16E-10	3.47E-10	3.47E-10	3.47E-10	8760
BDGHTR1	1.35E-03	5.41E-03	1.75E-03	6.44E-04	5.76E-04	1.86E-04	5.76E-05	5.76E-05	1.86E-05	708.75
BDGHTR2	4.06E-03	1.62E-02	5.25E-03	1.93E-03	1.73E-03	5.59E-04	1.73E-04	1.73E-04	5.59E-05	708.75
BDGNMAC1	1.04E-03	1.58E-03	3.42E-04	1.36E-04	1.32E-04	2.86E-05	3.94E-06	3.94E-06	8.51E-07	472.5

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
BDGNMAC2	2.08E-03	3.17E-03	6.84E-04	2.73E-04	2.65E-04	5.71E-05	7.89E-06	7.89E-06	1.70E-06	472.5
BDGNR	1.12E-02	3.63E-02	8.72E-03	1.65E-03	1.60E-03	3.67E-04	8.72E-05	8.72E-05	1.92E-05	472.5
BDGNMBR	1.70E-03	7.13E-03	1.54E-03	3.53E-04	3.42E-04	7.39E-05	8.91E-06	8.91E-06	1.92E-06	472.5
BDGNMGS1	4.90E-03	1.19E-02	5.16E-03	7.54E-04	7.31E-04	3.16E-04	1.03E-05	1.03E-05	4.43E-06	945
BDGNMGS2	3.96E-03	7.47E-03	3.22E-03	5.88E-04	5.70E-04	2.46E-04	6.39E-06	6.39E-06	2.76E-06	945
MINENMAC	3.10E-03	4.30E-02	3.96E-02	4.41E-04	4.28E-04	3.94E-04	4.03E-05	4.03E-05	3.71E-05	3360
MINENMBR	6.84E-02	2.43E-01	2.24E-01	1.03E-02	9.96E-03	9.17E-03	2.84E-04	2.84E-04	2.61E-04	3360
MINENMGS1	2.50E-02	4.71E-02	4.34E-02	3.71E-03	3.60E-03	3.31E-03	4.03E-05	4.03E-05	3.71E-05	3360
MINENMP	1.35E-02	6.73E-02	6.19E-03	2.34E-03	2.27E-03	2.09E-04	5.98E-05	5.98E-05	5.51E-06	336
BLASTANN	0.00E+00	0.00E+00	1.26E+00	0.00E+00	0.00E+00	7.38E-03	0.00E+00	0.00E+00	1.49E-01	4344
BLASTHR	8.79E+00	2.23E+00	0.00E+00	2.26E-01	1.30E-02	0.00E+00	2.62E-01	2.62E-01	0.00E+00	4344
GRVLHTR1	9.66E-03	3.87E-02	3.56E-02	4.60E-03	4.12E-03	3.79E-03	4.12E-04	4.12E-04	3.79E-04	2688
GRVLSHTR1	3.33E-03	1.33E-02	1.23E-02	1.59E-03	1.42E-03	1.31E-03	1.42E-04	1.42E-04	1.31E-04	2688
GRVLNMGS1	9.44E-03	1.78E-02	1.64E-02	1.40E-03	1.36E-03	1.25E-03	1.52E-05	1.52E-05	1.40E-05	2688
ICERDNMGSS1	8.89E-02	6.91E-02	5.78E-02	1.32E-02	1.28E-02	1.07E-02	1.43E-04	1.43E-04	1.20E-04	4272.8
ICERDNMPS	2.21E-01	3.43E-01	2.86E-01	3.34E-02	3.24E-02	2.71E-02	9.62E-04	9.62E-04	8.05E-04	4272.8
ICERDNMGSN1	8.89E-02	6.91E-02	5.78E-02	1.32E-02	1.28E-02	1.07E-02	1.43E-04	1.43E-04	1.20E-04	4272.8
ICERDNMPN	2.21E-01	3.43E-01	2.86E-01	3.34E-02	3.24E-02	2.71E-02	9.62E-04	9.62E-04	8.05E-04	4272.8
ICEPDNMGS1	4.82E-02	6.91E-02	3.14E-02	7.15E-03	6.93E-03	3.14E-03	7.77E-05	7.77E-05	3.52E-05	2317.392
ICEPDNMP	1.20E-01	3.43E-01	1.55E-01	1.81E-02	1.76E-02	7.97E-03	5.22E-04	5.22E-04	2.37E-04	2317.392
1MICEPDNR	9.68E-04	7.04E-02	6.48E-02	1.26E-04	1.22E-04	1.13E-04	4.41E-06	4.41E-06	3.45E-06	92.4
1MICEPDNMGS1	1.92E-03	6.91E-02	1.25E-03	2.85E-04	2.76E-04	5.00E-06	3.10E-06	3.10E-06	5.60E-08	92.4
1MICEPDNMP	4.78E-03	3.43E-01	6.19E-03	7.22E-04	7.01E-04	1.27E-05	2.08E-05	2.08E-05	3.76E-07	92.4
WOCMICEPDNR	9.68E-04	7.04E-02	6.48E-02	1.26E-04	1.22E-04	1.13E-04	4.41E-06	4.41E-06	3.45E-06	92.4
WMICEPDNMGS1	1.92E-03	6.91E-02	1.25E-03	2.85E-04	2.76E-04	5.00E-06	3.10E-06	3.10E-06	5.60E-08	92.4
WOCMICEPDNMP	4.78E-03	3.43E-01	6.19E-03	7.22E-04	7.01E-04	1.27E-05	2.08E-05	2.08E-05	3.76E-07	92.4

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
GMSMICEPDNR	9.68E-04	7.04E-02	6.48E-02	1.26E-04	1.22E-04	1.13E-04	4.41E-06	4.41E-06	3.45E-06	92.4
GMICEPDNMGS1	1.92E-03	6.91E-02	1.25E-03	2.85E-04	2.76E-04	5.00E-06	3.10E-06	3.10E-06	5.60E-08	92.4
GMSMICEPDNMP	4.78E-03	3.43E-01	6.19E-03	7.22E-04	7.01E-04	1.27E-05	2.08E-05	2.08E-05	3.76E-07	92.4
FBROPHTRN	9.74E-03	3.90E-02	2.69E-02	4.64E-03	4.15E-03	1.07E-03	4.15E-04	4.15E-04	2.86E-04	1512
FBROPNMGSN1	2.35E-02	5.73E-02	1.98E-02	3.62E-03	3.51E-03	9.09E-04	4.93E-05	4.93E-05	1.70E-05	756
FBROPNMGSN2	1.90E-02	3.59E-02	2.48E-02	2.82E-03	2.74E-03	7.08E-04	3.07E-05	3.07E-05	2.12E-05	1512
FBROPHTRS	9.74E-03	3.90E-02	2.69E-02	4.64E-03	4.15E-03	1.07E-03	4.15E-04	4.15E-04	2.86E-04	1512
FBROPNMGSS1	2.35E-02	5.73E-02	1.98E-02	3.62E-03	3.51E-03	9.09E-04	4.93E-05	4.93E-05	1.70E-05	756
FBROPNMGSS2	1.90E-02	3.59E-02	2.48E-02	2.82E-03	2.74E-03	7.08E-04	3.07E-05	3.07E-05	2.12E-05	1512
PIPHTR	8.41E-02	3.36E-01	1.35E-01	4.00E-02	3.58E-02	1.44E-02	3.58E-03	3.58E-03	1.44E-03	882
PIPNMAC	2.85E-01	9.03E-01	2.73E-01	4.21E-02	4.08E-02	1.23E-02	1.53E-03	1.53E-03	4.61E-04	661.5
PIPNMBR	1.52E-01	6.16E-01	1.86E-01	3.25E-02	3.15E-02	9.52E-03	7.62E-04	7.62E-04	2.30E-04	661.5
PIPNMGS1	1.22E-01	2.97E-01	1.20E-01	1.88E-02	1.82E-02	7.32E-03	2.55E-04	2.55E-04	1.03E-04	882
PIPNMGS2	6.58E-02	6.80E-02	2.74E-02	6.14E-03	5.96E-03	2.40E-03	5.85E-05	5.85E-05	2.36E-05	882
PIPNMGS3	1.23E-01	2.32E-01	9.35E-02	1.83E-02	1.77E-02	7.14E-03	1.99E-04	1.99E-04	8.00E-05	882
VSMNMBR	4.25E-02	1.78E-01	5.65E-02	8.84E-03	8.58E-03	2.71E-03	2.23E-04	2.23E-04	7.06E-05	693
HDDPE1	3.51E-01	6.42E-01	6.42E-01	2.01E-02	2.01E-02	2.01E-02	6.64E-04	6.64E-04	6.64E-04	2190
HDDPE2	2.73E-01	4.98E-01	4.98E-01	1.56E-02	1.56E-02	1.56E-02	5.15E-04	5.15E-04	5.15E-04	2190
HDDSE1	3.51E-01	6.42E-01	6.42E-02	2.01E-02	2.01E-02	2.01E-03	6.64E-04	6.64E-04	6.64E-05	219
HDDSE2	1.30E-01	2.46E-01	2.46E-02	7.46E-03	7.46E-03	7.46E-04	2.47E-04	2.47E-04	2.47E-05	219
HDDMPE	3.51E-01	6.42E-01	6.42E-01	2.01E-02	2.01E-02	2.01E-02	6.64E-04	6.64E-04	6.64E-04	2190
HDDTPE	1.50E-01	2.83E-01	2.83E-01	8.58E-03	8.58E-03	8.58E-03	2.84E-04	2.84E-04	2.84E-04	2190
HDDB1	7.87E-03	3.15E-02	3.15E-02	3.75E-03	3.35E-03	3.35E-03	3.35E-04	3.35E-04	3.35E-04	2190
HDDB2	1.57E-02	6.30E-02	6.30E-02	7.50E-03	6.71E-03	6.71E-03	6.71E-04	6.71E-04	6.71E-04	2190
HDDH1_W	2.40E-02	9.59E-02	9.59E-02	1.14E-02	1.02E-02	1.02E-02	1.02E-03	1.02E-03	1.02E-03	2190
HDDH1_E	2.40E-02	9.59E-02	9.59E-02	1.14E-02	1.02E-02	1.02E-02	1.02E-03	1.02E-03	1.02E-03	2190

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
HDDH2_W	1.10E-02	4.38E-02	4.38E-02	5.22E-03	4.67E-03	4.67E-03	4.67E-04	4.67E-04	4.67E-04	2190
HDDH2_E	1.10E-02	4.38E-02	4.38E-02	5.22E-03	4.67E-03	4.67E-03	4.67E-04	4.67E-04	4.67E-04	2190
HDDWH_W	5.69E-03	2.28E-02	2.28E-02	2.71E-03	2.42E-03	2.42E-03	2.42E-04	2.42E-04	2.42E-04	2190
HDDWH_E	5.69E-03	2.28E-02	2.28E-02	2.71E-03	2.42E-03	2.42E-03	2.42E-04	2.42E-04	2.42E-04	2190
HDDNMGE1	1.28E+00	1.46E+00	1.46E+00	7.31E-02	7.31E-02	7.31E-02	2.70E-03	2.70E-03	2.70E-03	2190
HDDNMGE2	6.14E-01	7.02E-01	7.02E-01	3.51E-02	3.51E-02	3.51E-02	1.29E-03	1.29E-03	1.29E-03	2190
HDDNMGE3	7.68E-01	8.77E-01	8.77E-01	4.39E-02	4.39E-02	4.39E-02	1.62E-03	1.62E-03	1.62E-03	2190
HDDNMBGE1	1.28E+00	1.46E+00	1.46E-01	7.31E-02	7.31E-02	7.31E-03	2.70E-03	2.70E-03	2.70E-04	219
HDDNMBGE2	6.14E-01	7.02E-01	7.02E-02	3.51E-02	3.51E-02	3.51E-03	1.29E-03	1.29E-03	1.29E-04	219
HDDNMBGE3	6.14E-01	7.02E-01	7.02E-02	3.51E-02	3.51E-02	3.51E-03	1.29E-03	1.29E-03	1.29E-04	219
HDDNMAC1	4.62E-03	2.13E-02	7.11E-03	8.81E-04	8.54E-04	2.85E-04	5.90E-05	5.90E-05	1.97E-05	730
HDDNMAC2	4.62E-03	2.13E-02	7.11E-03	8.81E-04	8.54E-04	2.85E-04	5.90E-05	5.90E-05	1.97E-05	730
HDDNROCE1	6.99E-03	2.11E-02	7.04E-03	1.22E-03	1.18E-03	3.93E-04	5.95E-05	5.95E-05	1.98E-05	730
HDDNROCE2	6.99E-03	2.11E-02	7.04E-03	1.22E-03	1.18E-03	3.93E-04	5.95E-05	5.95E-05	1.98E-05	730
HDDNRC	3.45E-03	1.68E-02	5.60E-03	5.90E-04	5.73E-04	1.91E-04	6.33E-05	6.33E-05	2.11E-05	730
WOCSPWRGEN	3.89E+00	3.89E+00	1.94E+00	1.11E-01	1.11E-01	5.56E-02	7.35E-03	7.35E-03	3.67E-03	4380
WOCSTEMPTRB	5.29E+00	6.96E+00	6.96E+00	1.83E-01	1.83E-01	1.83E-01	2.37E-02	2.37E-02	2.37E-02	8760
WOCSFACHTR1	5.99E-02	2.39E-01	9.18E-02	2.85E-02	2.55E-02	9.78E-03	2.55E-03	2.55E-03	9.78E-04	1680
WOCSFACNMAC	2.63E-02	4.01E-02	3.84E-03	3.45E-03	3.35E-03	3.21E-04	9.97E-05	9.97E-05	9.56E-06	420
WOCSFACNR	1.32E-01	2.01E-01	1.64E-01	1.82E-02	1.77E-02	1.51E-02	3.23E-04	3.23E-04	2.56E-04	1260
WOCSFACNMGS1	3.61E-02	1.30E-01	4.99E-02	7.79E-03	7.55E-03	2.90E-03	1.54E-04	1.54E-04	5.89E-05	1680
WOCSFACNMGS2	5.85E-02	1.10E-01	4.23E-02	8.67E-03	8.41E-03	3.22E-03	9.43E-05	9.43E-05	3.62E-05	1680
WCFFACHTR1	2.05E-01	8.22E-01	3.15E-01	9.78E-02	8.75E-02	3.36E-02	8.75E-03	8.75E-03	3.36E-03	3360
WCFFACNMAC	8.43E-02	1.28E-01	1.23E-02	1.11E-02	1.07E-02	1.03E-03	3.19E-04	3.19E-04	3.06E-05	840
WCFFACNMGS1	3.45E-01	1.24E+00	4.78E-01	7.44E-02	7.22E-02	2.77E-02	1.47E-03	1.47E-03	5.63E-04	3360
WCFFACNMGS2	2.01E-01	3.78E-01	1.45E-01	2.97E-02	2.89E-02	1.11E-02	3.24E-04	3.24E-04	1.24E-04	3360

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WCFFUGD	0.00E+00	0.00E+00	0.00E+00	3.45E-02	5.17E-03	5.17E-03	0.00E+00	0.00E+00	0.00E+00	4380
WILLOWAIRS1	5.43E-07	1.94E-07	1.94E-07	8.11E-09	8.11E-09	8.11E-09	2.75E-08	2.75E-08	2.75E-08	8760
WILLOWAIRS2	5.43E-07	1.94E-07	1.94E-07	8.11E-09	8.11E-09	8.11E-09	2.75E-08	2.75E-08	2.75E-08	8760
WILLOWAIRS3	5.43E-07	1.94E-07	1.94E-07	8.11E-09	8.11E-09	8.11E-09	2.75E-08	2.75E-08	2.75E-08	8760
2TAIL1	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL2	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL3	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL4	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL5	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL6	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL7	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL8	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL9	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL10	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL11	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL12	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL13	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL14	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL15	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL16	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
2TAIL17	2.46E-04	2.93E-04	2.93E-04	2.57E-05	1.57E-05	1.57E-05	1.05E-06	1.05E-06	1.05E-06	8760
3TAIL1	1.13E-02	2.78E-02	1.93E-02	1.57E-03	1.52E-03	1.05E-03	7.33E-05	7.33E-05	5.10E-05	8760
3TAIL2	1.13E-02	2.78E-02	1.93E-02	1.57E-03	1.52E-03	1.05E-03	7.33E-05	7.33E-05	5.10E-05	8760
3TAIL3	1.13E-02	2.78E-02	1.93E-02	1.57E-03	1.52E-03	1.05E-03	7.33E-05	7.33E-05	5.10E-05	8760
3TAIL4	1.13E-02	2.78E-02	1.93E-02	1.57E-03	1.52E-03	1.05E-03	7.33E-05	7.33E-05	5.10E-05	8760
1TAIL1	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1TAIL2	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
1TAIL3	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
1TAIL4	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
WOCSTAIL1	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
WOCSTAIL2	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
WOCSTAIL3	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
WOCSTAIL4	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
WCFTAIL1	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
WCFTAIL2	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
WCFTAIL3	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
WCFTAIL4	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
MINETAIL1	1.06E-02	2.62E-02	1.82E-02	1.48E-03	1.42E-03	9.90E-04	6.90E-05	6.90E-05	4.80E-05	8760
MINETAIL2	1.06E-02	2.62E-02	1.82E-02	1.48E-03	1.42E-03	9.90E-04	6.90E-05	6.90E-05	4.80E-05	8760
MINETAIL3	1.06E-02	2.62E-02	1.82E-02	1.48E-03	1.42E-03	9.90E-04	6.90E-05	6.90E-05	4.80E-05	8760
MINETAIL4	1.06E-02	2.62E-02	1.82E-02	1.48E-03	1.42E-03	9.90E-04	6.90E-05	6.90E-05	4.80E-05	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD5	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD6	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD7	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
2MFUGD8	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD9	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD10	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD11	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD12	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD13	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD14	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD15	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD16	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD17	0.00E+00	0.00E+00	0.00E+00	2.11E-02	2.11E-03	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD1	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD1	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD2	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD3	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD4	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD1	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD2	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD3	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD4	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
MINEMFUGD1	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
MINEMFUGD2	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
MINEMFUGD3	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
MINEMFUGD4	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
2GRVLNR1	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR2	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR3	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR4	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR5	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR6	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR7	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR8	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR9	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR10	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR11	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR12	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR13	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR14	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR15	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR16	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
2GRVLNR17	2.19E-06	5.73E-06	4.92E-06	3.01E-07	2.92E-07	2.51E-07	2.35E-08	2.35E-08	2.02E-08	Varies
3GRVLNR1	9.31E-06	2.43E-05	2.09E-05	1.28E-06	1.24E-06	1.07E-06	1.00E-07	1.00E-07	8.59E-08	Varies
3GRVLNR2	9.31E-06	2.43E-05	2.09E-05	1.28E-06	1.24E-06	1.07E-06	1.00E-07	1.00E-07	8.59E-08	Varies
3GRVLNR3	9.31E-06	2.43E-05	2.09E-05	1.28E-06	1.24E-06	1.07E-06	1.00E-07	1.00E-07	8.59E-08	Varies
3GRVLNR4	9.31E-06	2.43E-05	2.09E-05	1.28E-06	1.24E-06	1.07E-06	1.00E-07	1.00E-07	8.59E-08	Varies
ICEPDNRHCE	3.31E-02	9.61E-02	8.84E-02	4.31E-03	4.18E-03	3.85E-03	1.51E-04	1.51E-04	1.39E-04	2317.392
ICEPDNROS1	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS2	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS3	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS4	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNROS5	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS6	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS7	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS8	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS9	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS10	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS11	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS12	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS13	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS14	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS15	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS16	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS17	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS18	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS19	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS20	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS21	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS22	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS23	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS24	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS25	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS26	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS27	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS28	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS29	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS30	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNROS31	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS32	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS33	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS34	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS35	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS36	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS37	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS38	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS39	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS40	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS41	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS42	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS43	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNROS44	4.33E-04	1.26E-03	1.16E-03	5.64E-05	5.47E-05	5.04E-05	1.97E-06	1.97E-06	1.82E-06	2317.392
ICEPDNRIOS1	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS2	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS3	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS4	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS5	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS6	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS7	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS8	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS9	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS10	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS11	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS12	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRIOS13	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS14	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS15	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS16	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS17	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS18	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS19	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS20	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS21	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS22	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS23	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS24	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS25	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS26	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS27	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS28	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS29	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS30	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS31	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS32	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS33	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS34	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS35	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS36	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS37	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS38	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRIOS39	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS40	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS41	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS42	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS43	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRIOS44	2.50E-03	7.23E-03	6.66E-03	3.25E-04	3.15E-04	2.90E-04	1.14E-05	1.14E-05	1.05E-05	2317.392
ICEPDNRPIP1	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP2	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP3	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP4	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP5	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP6	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP7	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP8	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP9	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP10	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP11	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP12	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP13	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP14	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP15	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP16	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP17	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP18	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP19	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP20	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRPIP21	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP22	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP23	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP24	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP25	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP26	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP27	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP28	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP29	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP30	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP31	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP32	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP33	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP34	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP35	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP36	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP37	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP38	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP39	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP40	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP41	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP42	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP43	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRPIP44	2.80E-03	8.13E-03	7.48E-03	3.65E-04	3.54E-04	3.26E-04	1.28E-05	1.28E-05	1.17E-05	2317.392
ICEPDNRHDD1	1.26E-02	3.66E-02	3.37E-02	1.64E-03	1.59E-03	1.47E-03	5.75E-05	5.75E-05	5.29E-05	2317.392
ICEPDNRHDD2	1.12E-02	3.25E-02	2.99E-02	1.46E-03	1.42E-03	1.30E-03	5.11E-05	5.11E-05	4.70E-05	2317.392

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICERDNRS1	1.73E-04	2.73E-04	2.51E-04	2.26E-05	2.19E-05	2.02E-05	7.89E-07	7.89E-07	7.27E-07	4272.8
ICERDNRS2	1.73E-04	2.73E-04	2.51E-04	2.26E-05	2.19E-05	2.02E-05	7.89E-07	7.89E-07	7.27E-07	4272.8
ICERDNRS3	1.73E-04	2.73E-04	2.51E-04	2.26E-05	2.19E-05	2.02E-05	7.89E-07	7.89E-07	7.27E-07	4272.8
ICERDNRS4	1.73E-04	2.73E-04	2.51E-04	2.26E-05	2.19E-05	2.02E-05	7.89E-07	7.89E-07	7.27E-07	4272.8
ICERDNRN1	1.73E-04	2.73E-04	2.51E-04	2.26E-05	2.19E-05	2.02E-05	7.89E-07	7.89E-07	7.27E-07	4272.8
ICERDNRN2	1.73E-04	2.73E-04	2.51E-04	2.26E-05	2.19E-05	2.02E-05	7.89E-07	7.89E-07	7.27E-07	4272.8
ICERDNRN3	1.73E-04	2.73E-04	2.51E-04	2.26E-05	2.19E-05	2.02E-05	7.89E-07	7.89E-07	7.27E-07	4272.8
ICERDNRN4	1.73E-04	2.73E-04	2.51E-04	2.26E-05	2.19E-05	2.02E-05	7.89E-07	7.89E-07	7.27E-07	4272.8
PIPNR1	3.25E-06	1.16E-05	8.42E-06	4.98E-07	4.83E-07	3.49E-07	3.69E-08	3.69E-08	2.64E-08	Varies
PIPNR2	3.25E-06	1.16E-05	8.42E-06	4.98E-07	4.83E-07	3.49E-07	3.69E-08	3.69E-08	2.64E-08	Varies
PIPNR3	3.25E-06	1.16E-05	8.42E-06	4.98E-07	4.83E-07	3.49E-07	3.69E-08	3.69E-08	2.64E-08	Varies
PIPNR4	3.25E-06	1.16E-05	8.42E-06	4.98E-07	4.83E-07	3.49E-07	3.69E-08	3.69E-08	2.64E-08	Varies
VSMNR1	3.40E-06	9.07E-06	8.44E-06	4.82E-07	4.68E-07	4.62E-07	1.77E-08	1.77E-08	1.57E-08	Varies
VSMNR2	3.40E-06	9.07E-06	8.44E-06	4.82E-07	4.68E-07	4.62E-07	1.77E-08	1.77E-08	1.57E-08	Varies
VSMNR3	3.40E-06	9.07E-06	8.44E-06	4.82E-07	4.68E-07	4.62E-07	1.77E-08	1.77E-08	1.57E-08	Varies
VSMNR4	3.40E-06	9.07E-06	8.44E-06	4.82E-07	4.68E-07	4.62E-07	1.77E-08	1.77E-08	1.57E-08	Varies
FBROPNR1	1.75E-06	2.90E-06	2.18E-06	2.30E-07	2.23E-07	7.70E-08	6.07E-09	6.07E-09	3.58E-09	Varies
FBROPNR2	1.75E-06	2.90E-06	2.18E-06	2.30E-07	2.23E-07	7.70E-08	6.07E-09	6.07E-09	3.58E-09	Varies
FBROPNR3	1.75E-06	2.90E-06	2.18E-06	2.30E-07	2.23E-07	7.70E-08	6.07E-09	6.07E-09	3.58E-09	Varies
FBROPNR4	1.75E-06	2.90E-06	2.18E-06	2.30E-07	2.23E-07	7.70E-08	6.07E-09	6.07E-09	3.58E-09	Varies
3PADNR1	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	Varies
3PADNR2	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	Varies
3PADNR3	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	Varies
3PADNR4	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	Varies
MINENR1	1.63E-02	3.81E-02	2.23E-02	2.24E-03	2.18E-03	1.37E-03	9.24E-05	9.24E-05	5.02E-05	Varies
MINENR2	1.63E-02	3.81E-02	2.23E-02	2.24E-03	2.18E-03	1.37E-03	9.24E-05	9.24E-05	5.02E-05	Varies

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MINENR3	1.63E-02	3.81E-02	2.23E-02	2.24E-03	2.18E-03	1.37E-03	9.24E-05	9.24E-05	5.02E-05	Varies
MINENR4	1.63E-02	3.81E-02	2.23E-02	2.24E-03	2.18E-03	1.37E-03	9.24E-05	9.24E-05	5.02E-05	Varies
MINENR5	1.63E-02	3.81E-02	2.23E-02	2.24E-03	2.18E-03	1.37E-03	9.24E-05	9.24E-05	5.02E-05	Varies
MINENR6	1.63E-02	3.81E-02	2.23E-02	2.24E-03	2.18E-03	1.37E-03	9.24E-05	9.24E-05	5.02E-05	Varies
MINENR7	1.63E-02	3.81E-02	2.23E-02	2.24E-03	2.18E-03	1.37E-03	9.24E-05	9.24E-05	5.02E-05	Varies
MINENR8	1.63E-02	3.81E-02	2.23E-02	2.24E-03	2.18E-03	1.37E-03	9.24E-05	9.24E-05	5.02E-05	Varies
MINENR9	1.63E-02	3.81E-02	2.23E-02	2.24E-03	2.18E-03	1.37E-03	9.24E-05	9.24E-05	5.02E-05	Varies
3PADOHT1	2.19E-02	5.49E-02	3.79E-02	3.08E-03	2.99E-03	2.07E-03	1.44E-04	1.44E-04	9.94E-05	3528
3PADOHT2	2.19E-02	5.49E-02	3.79E-02	3.08E-03	2.99E-03	2.07E-03	1.44E-04	1.44E-04	9.94E-05	3528
3PADOHT3	2.19E-02	5.49E-02	3.79E-02	3.08E-03	2.99E-03	2.07E-03	1.44E-04	1.44E-04	9.94E-05	3528
3PADOHT4	2.19E-02	5.49E-02	3.79E-02	3.08E-03	2.99E-03	2.07E-03	1.44E-04	1.44E-04	9.94E-05	3528
2GRVLOHT1	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT2	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT3	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT4	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT5	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT6	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT7	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT8	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT9	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT10	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT11	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT12	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT13	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT14	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT15	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
2GRVLOHT16	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
2GRVLOHT17	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
3GRVLOHT1	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
3GRVLOHT2	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
3GRVLOHT3	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
3GRVLOHT4	6.91E-06	1.73E-05	1.19E-05	9.71E-07	9.42E-07	6.50E-07	4.53E-08	4.53E-08	3.13E-08	1512
MINEOHT1	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT2	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT3	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT4	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT5	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT6	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT7	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT8	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT9	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
WCFFACNR1	9.84E-02	1.58E-01	1.31E-01	1.37E-02	1.33E-02	1.14E-02	2.69E-04	2.69E-04	2.23E-04	Varies
WCFFACNR2	9.84E-02	1.58E-01	1.31E-01	1.37E-02	1.33E-02	1.14E-02	2.69E-04	2.69E-04	2.23E-04	Varies
WCFFACNR3	9.84E-02	1.58E-01	1.31E-01	1.37E-02	1.33E-02	1.14E-02	2.69E-04	2.69E-04	2.23E-04	Varies
WCFFACNR4	9.84E-02	1.58E-01	1.31E-01	1.37E-02	1.33E-02	1.14E-02	2.69E-04	2.69E-04	2.23E-04	Varies
WLW2GEN	1.25E-01	2.28E-01	1.30E-02	7.13E-03	7.13E-03	4.07E-04	0.00E+00	0.00E+00	0.00E+00	500
WOCNPWRGEN	3.89E+00	3.89E+00	1.94E+00	1.11E-01	1.11E-01	5.56E-02	7.35E-03	7.35E-03	3.67E-03	4380
WOCNTEMPTRB	5.29E+00	6.96E+00	6.96E+00	1.83E-01	1.83E-01	1.83E-01	2.37E-02	2.37E-02	2.37E-02	8760
WOCNFACHTR1	5.99E-02	2.39E-01	9.18E-02	2.85E-02	2.55E-02	9.78E-03	2.55E-03	2.55E-03	9.78E-04	1680
WOCNFACNMAC	2.63E-02	4.01E-02	3.84E-03	3.45E-03	3.35E-03	3.21E-04	9.97E-05	9.97E-05	9.56E-06	420
WOCNFACNR	1.32E-01	2.01E-01	1.64E-01	1.82E-02	1.77E-02	1.51E-02	3.23E-04	3.23E-04	2.56E-04	Varies
WOCNFACNMGS1	3.61E-02	1.30E-01	4.99E-02	7.79E-03	7.55E-03	2.90E-03	1.54E-04	1.54E-04	5.89E-05	1680

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCNFACNMGS2	5.85E-02	1.10E-01	4.23E-02	8.67E-03	8.41E-03	3.22E-03	9.43E-05	9.43E-05	3.62E-05	1680
WOCNFUGD	0.00E+00	0.00E+00	0.00E+00	9.17E-02	1.75E-02	1.75E-02	0.00E+00	0.00E+00	0.00E+00	4380
WOCNDRILLPE	1.07E+00	2.05E-01	2.46E+00	9.17E-03	9.17E-03	1.10E-01	5.64E-04	5.64E-04	6.77E-03	8760
WOCNDRILLCP1	1.75E-01	2.00E-02	1.37E-02	1.00E-03	1.00E-03	6.85E-04	3.31E-04	3.31E-04	2.27E-04	500
WOCNDRILLCP2	1.75E-01	2.00E-02	1.37E-02	1.00E-03	1.00E-03	6.85E-04	3.31E-04	3.31E-04	2.27E-04	500
WOCNDRILLB1	1.53E-02	6.12E-02	7.34E-01	7.28E-03	6.51E-03	7.82E-02	6.51E-04	6.51E-04	7.82E-03	8760
WOCNDRILLB2	1.53E-02	6.12E-02	7.34E-01	7.28E-03	6.51E-03	7.82E-02	6.51E-04	6.51E-04	7.82E-03	8760
WOCNDRILLAH1	1.83E-02	7.30E-02	8.77E-01	8.69E-03	7.78E-03	9.33E-02	7.78E-04	7.78E-04	9.33E-03	8760
WOCNDRILLAH2	9.13E-03	3.65E-02	4.38E-01	4.35E-03	3.89E-03	4.67E-02	3.89E-04	3.89E-04	4.67E-03	8760
WOCDRILLMP	1.37E-02	5.48E-02	6.57E-01	6.52E-03	5.83E-03	7.00E-02	5.83E-04	5.83E-04	7.00E-03	8760
WOCNDRILLNMT	4.91E-01	5.61E-01	6.74E+00	2.81E-02	2.81E-02	3.37E-01	1.04E-03	1.04E-03	1.24E-02	8760
WOCNDRILLNML	7.22E-02	8.20E-02	9.84E-01	8.75E-03	8.75E-03	1.05E-01	7.24E-05	7.24E-05	8.69E-04	8760
WOCNDRILLNMP	3.51E-02	3.30E-02	3.96E-01	2.81E-03	2.81E-03	3.37E-02	4.64E-05	4.64E-05	5.57E-04	8760
WOCNDRILLPW	5.97E-02	5.61E-02	6.73E-01	4.77E-03	4.77E-03	5.73E-02	7.90E-05	7.90E-05	9.48E-04	8760
WOCNDRILLHS	2.15E-02	8.59E-02	1.03E+00	1.02E-02	9.15E-03	1.10E-01	9.15E-04	9.15E-04	1.10E-02	8760
WOCNTAIL1	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
WOCNTAIL2	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
WOCNTAIL3	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
WOCNTAIL4	3.12E-04	3.72E-04	3.72E-04	3.27E-05	1.99E-05	1.99E-05	1.33E-06	1.33E-06	1.33E-06	8760
WOCNMFUGD1	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD2	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD3	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD4	0.00E+00	0.00E+00	0.00E+00	2.68E-02	2.68E-03	2.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
WILLOWAIRN1	1.33E-07	4.55E-08	4.55E-08	2.17E-09	2.17E-09	2.17E-09	3.92E-09	3.92E-09	3.92E-09	8760
WILLOWAIRN2	1.33E-07	4.55E-08	4.55E-08	2.17E-09	2.17E-09	2.17E-09	3.92E-09	3.92E-09	3.92E-09	8760
WILLOWAIRN3	1.33E-07	4.55E-08	4.55E-08	2.17E-09	2.17E-09	2.17E-09	3.92E-09	3.92E-09	3.92E-09	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCPCES	7.88E-08	3.56E-07	3.56E-07	2.83E-08	2.75E-08	2.75E-08	7.86E-10	7.86E-10	7.86E-10	8760
WOCSCES	6.12E-08	1.07E-07	1.07E-07	8.44E-09	8.44E-09	8.44E-09	7.50E-09	7.50E-09	7.50E-09	8760
WOCNRES	5.55E-07	2.47E-06	1.86E-06	2.08E-07	1.99E-07	1.35E-07	7.98E-09	7.98E-09	1.46E-09	8760
WOCPCEN	7.88E-08	3.56E-07	3.56E-07	2.83E-08	2.75E-08	2.75E-08	7.86E-10	7.86E-10	7.86E-10	8760
WOCSCEN	6.12E-08	1.07E-07	1.07E-07	8.44E-09	8.44E-09	8.44E-09	7.50E-09	7.50E-09	7.50E-09	8760
WOCNREN	5.55E-07	2.47E-06	1.86E-06	2.08E-07	1.99E-07	1.35E-07	7.98E-09	7.98E-09	1.46E-09	8760
WLWIG01S	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	7300
WLWIG02S	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	7300
WLWIG01N	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	7300
WLWIG02N	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	7300

A.2.2 Scenario 2: BT1 Pre-Drill

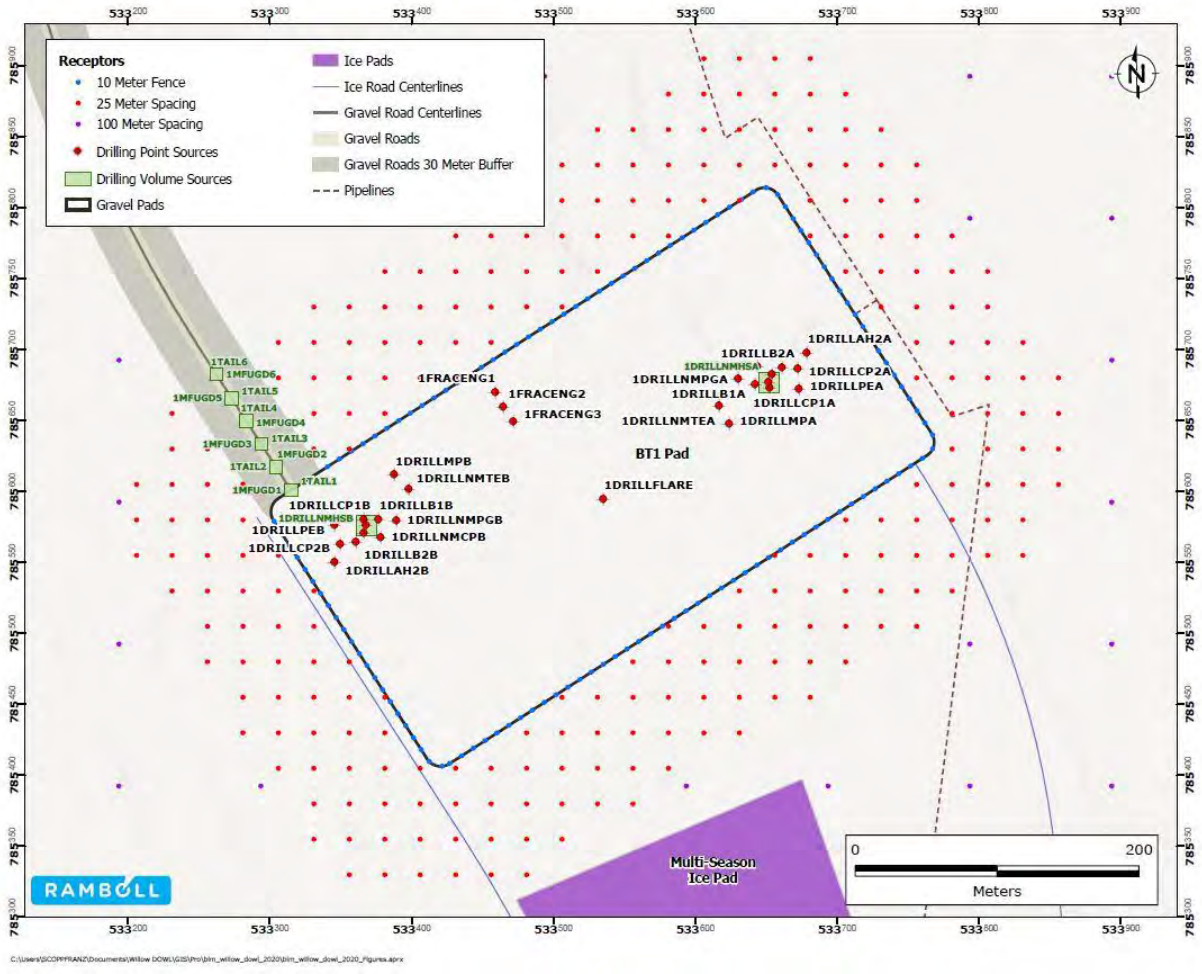


Figure A.2-13. Alternative C Near-field Model Scenario 2 Source Locations at BT1.

Table A.2-4. Alternative C Near-field Model Scenario 2 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1DRILLPEA	POINT	Drill Rigs - Primary Power Engines A	0.1	Diesel engines
1DRILLPEB	POINT	Drill Rigs - Primary Power Engines B	0.1	Diesel engines
1DRILLCP1A	POINT	Drill Rigs - Cement Pumping Unit #1 A	0.2	Diesel tailpipe from non-road equipment
1DRILLCP1B	POINT	Drill Rigs - Cement Pumping Unit #1 B	0.2	Diesel tailpipe from non-road equipment
1DRILLCP2A	POINT	Drill Rigs - Cement Pumping Unit #2 A	0.2	Diesel tailpipe from non-road equipment
1DRILLCP2B	POINT	Drill Rigs - Cement Pumping Unit #2 B	0.2	Diesel tailpipe from non-road equipment
1DRILLB1A	POINT	Drill Rigs - Boiler #1 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLB1B	POINT	Drill Rigs - Boiler #1 B	0.05	Diesel or natural gas heaters, or boiler
1DRILLB2A	POINT	Drill Rigs - Boiler #2 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLB2B	POINT	Drill Rigs - Boiler #2 B	0.05	Diesel or natural gas heaters, or boiler
1DRILLAH1A	POINT	Drill Rigs - Air Heater #1 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLAH1B	POINT	Drill Rigs - Air Heater #1 B	0.05	Diesel or natural gas heaters, or boiler
1DRILLAH2A	POINT	Drill Rigs - Air Heater #2 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLAH2B	POINT	Drill Rigs - Air Heater #2 B	0.05	Diesel or natural gas heaters, or boiler
1DRILLMPA	POINT	Drill Rigs - Mud Pit Heater A	0.05	Diesel or natural gas heaters, or boiler
1DRILLMPB	POINT	Drill Rigs - Mud Pit Heater B	0.05	Diesel or natural gas heaters, or boiler
1DRILLNMTEA	POINT	Drilling Non-Mobile Support Equipment - Total Engine A	0.1	Diesel engines
1DRILLNMTEB	POINT	Drilling Non-Mobile Support Equipment - Total Engine B	0.1	Diesel engines
1DRILLNMLTA	POINT	Drilling Non-Mobile Support Equipment - Total Lighting Engine A	0.2	Diesel tailpipe from non-road equipment
1DRILLNMLTB	POINT	Drilling Non-Mobile Support Equipment - Total Lighting Engine B	0.2	Diesel tailpipe from non-road equipment
1DRILLNMPGA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Generators A	0.1	Diesel engines
1DRILLNMPGB	POINT	Drilling Non-Mobile Support Equipment - Total Portable Generators B	0.1	Diesel engines
1DRILLNMCPA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine A	0.1	Diesel engines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1DRILLNMCPB	POINT	Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine B	0.1	Diesel engines
1DRILLNMHSA	VOLUME	Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
1DRILLNMHSB	VOLUME	Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
1FRACENG1	POINT	Hydraulic Fracturing - Well Frac Engine 1	0.1	Diesel engines
1FRACENG2	POINT	Hydraulic Fracturing - Well Frac Engine 2	0.1	Diesel engines
1FRACENG3	POINT	Hydraulic Fracturing - Well Frac Engine 3	0.1	Diesel engines
1DRILLFLARE	POINT	Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	USEPA default value
1TAIL1	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL6	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD6	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-

Table A.2-5. Alternative C Near-field Model Scenario 2 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1DRILLPEA	POINT	2.74	13.3	0.4	10.5	614	-	-	-	-	-
1DRILLPEB	POINT	2.74	13.3	0.4	10.5	614	-	-	-	-	-
1DRILLCP1A	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
1DRILLCP1B	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
1DRILLCP2A	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
1DRILLCP2B	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
1DRILLB1A	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
1DRILLB1B	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
1DRILLB2A	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
1DRILLB2B	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
1DRILLAH1A	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
1DRILLAH1B	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
1DRILLAH2A	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
1DRILLAH2B	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
1DRILLMPA	POINT	2.74	7.2	0.3	10.8	533	-	-	-	-	-
1DRILLMPB	POINT	2.74	7.2	0.3	10.8	533	-	-	-	-	-
1DRILLNMTEA	POINT	2.74	6.5	0.3	47	761	-	-	-	-	-
1DRILLNMTEB	POINT	2.74	6.5	0.3	47	761	-	-	-	-	-
1DRILLNMLTA	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
1DRILLNMLTB	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
1DRILLNMPGA	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
1DRILLNMPGB	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
1DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-	-	-	-
1DRILLNMCPB	POINT	2.74	3.7	0.3	46	689	-	-	-	-	-
1DRILLNMHSA	VOLUME	2.74	3.7	-	-	-	13.95	13.95	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1DRILLNMHSB	VOLUME	2.74	3.7	-	-	-	13.95	13.95	-	-	-
1FRACENG1	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
1FRACENG2	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
1FRACENG3	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
1DRILLFLARE	POINT	2.74	10.1	0.3	6.1	1033	-	-	-	-	-
1TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	9.07	-	-	-
1TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	9.07	-	-	-
1TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	9.07	-	-	-
1TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	9.07	-	-	-
1TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	9.07	-	-	-
1TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	9.07	-	-	-
1MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	9.07	-	-	-
1MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	9.07	-	-	-
1MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	9.07	-	-	-
1MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	9.07	-	-	-
1MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	9.07	-	-	-
1MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	9.07	-	-	-

Table A.2-6. Alternative C Near-field Model Scenario 2 Emissions Rates

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1DRILLPEA	3.21E+00	6.15E-01	6.15E-01	2.75E-02	2.75E-02	2.75E-02	4.74E-03	4.74E-03	4.74E-03	8760
1DRILLPEB	3.21E+00	6.15E-01	6.15E-01	2.75E-02	2.75E-02	2.75E-02	4.74E-03	4.74E-03	4.74E-03	8760
1DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLCP1B	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLCP2B	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLB1B	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLB2B	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
1DRILLAH1B	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
1DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
1DRILLAH2B	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
1DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
1DRILLMPB	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
1DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
1DRILLNMTEB	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
1DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
1DRILLNMLTB	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
1DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
1DRILLNMPGB	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
1DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
1DRILLNMCPB	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1DRILLNMHSA	2.15E-02	8.59E-02	6.44E-02	1.02E-02	9.15E-03	6.86E-03	9.15E-04	9.15E-04	6.86E-04	8760
1DRILLNMHSB	2.15E-02	8.59E-02	6.44E-02	1.02E-02	9.15E-03	6.86E-03	9.15E-04	9.15E-04	6.86E-04	8760
1FRACENG1	3.11E-02	2.49E-03	8.17E-04	1.24E-04	1.24E-04	4.09E-05	4.11E-05	4.11E-05	1.35E-05	1920
1FRACENG2	1.79E-01	3.43E-02	1.13E-02	1.54E-03	1.54E-03	5.06E-04	3.78E-04	3.78E-04	1.24E-04	1920
1FRACENG3	2.61E+00	5.00E-01	1.64E-01	2.24E-02	2.24E-02	7.35E-03	5.50E-03	5.50E-03	1.81E-03	1920
1DRILLFLARE	1.08E+00	1.98E-01	1.95E-02	4.79E-05	4.79E-05	4.72E-06	1.16E-02	1.16E-02	1.14E-03	864
1TAIL1	4.54E-06	9.44E-06	9.44E-06	1.51E-06	4.59E-07	4.59E-07	6.17E-08	6.17E-08	6.17E-08	8760
1TAIL2	4.54E-06	9.44E-06	9.44E-06	1.51E-06	4.59E-07	4.59E-07	6.17E-08	6.17E-08	6.17E-08	8760
1TAIL3	4.54E-06	9.44E-06	9.44E-06	1.51E-06	4.59E-07	4.59E-07	6.17E-08	6.17E-08	6.17E-08	8760
1TAIL4	4.54E-06	9.44E-06	9.44E-06	1.51E-06	4.59E-07	4.59E-07	6.17E-08	6.17E-08	6.17E-08	8760
1TAIL5	4.54E-06	9.44E-06	9.44E-06	1.51E-06	4.59E-07	4.59E-07	6.17E-08	6.17E-08	6.17E-08	8760
1TAIL6	4.54E-06	9.44E-06	9.44E-06	1.51E-06	4.59E-07	4.59E-07	6.17E-08	6.17E-08	6.17E-08	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	2.74E-03	2.74E-04	2.74E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.74E-03	2.74E-04	2.74E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.74E-03	2.74E-04	2.74E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.74E-03	2.74E-04	2.74E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	2.74E-03	2.74E-04	2.74E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	2.74E-03	2.74E-04	2.74E-04	0.00E+00	0.00E+00	0.00E+00	4380

1. Annual emission rate calculations are based on the number of actual daily operating hours provided in the EI. If actual daily operating hour timeframes were not known, 8760 hours were assumed.

A.2.3 Scenario 3: BT1/BT2 Pre-Drill

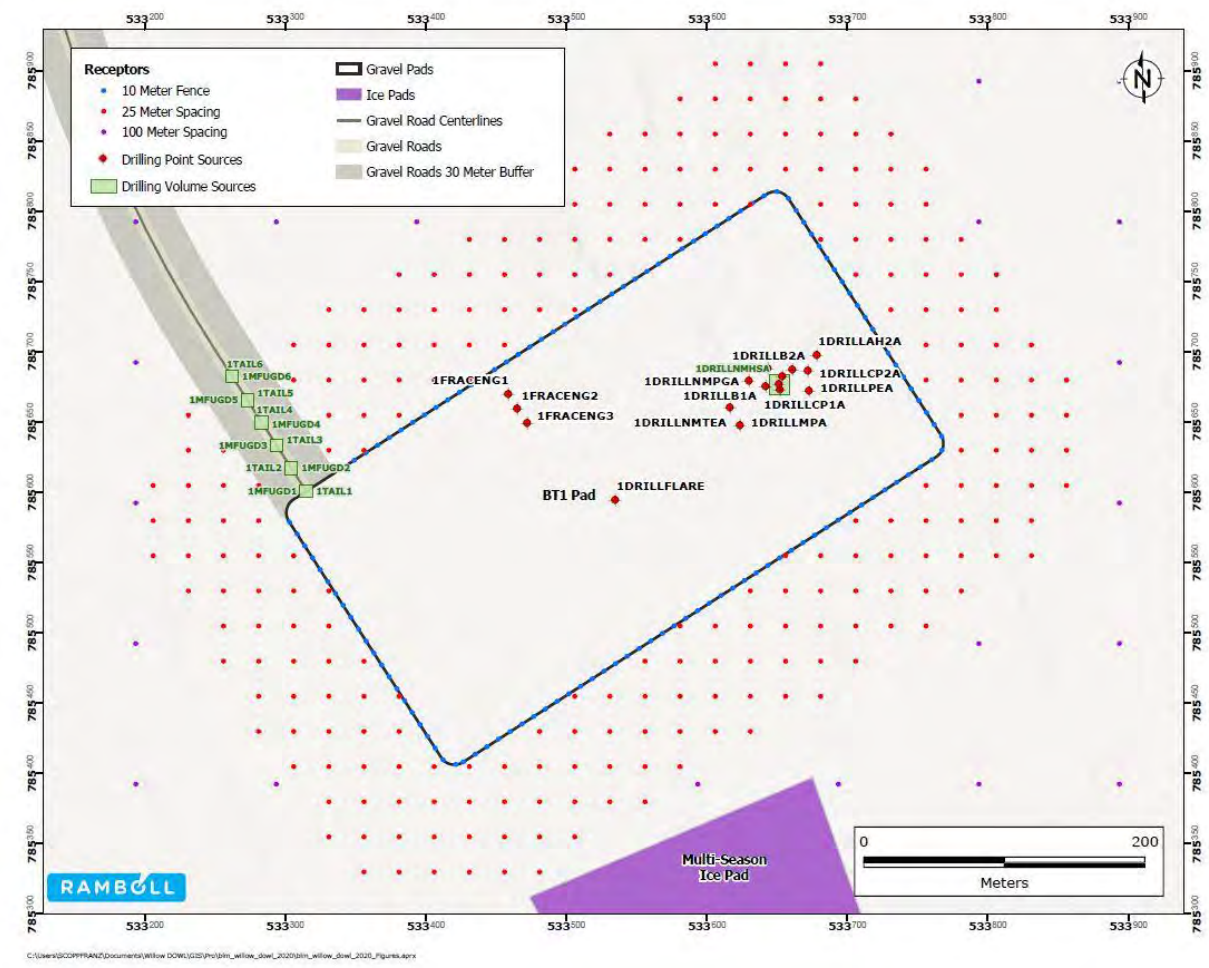


Figure A.2-14. Alternative C Near-field Model Scenario 3 Source Locations at BT1.

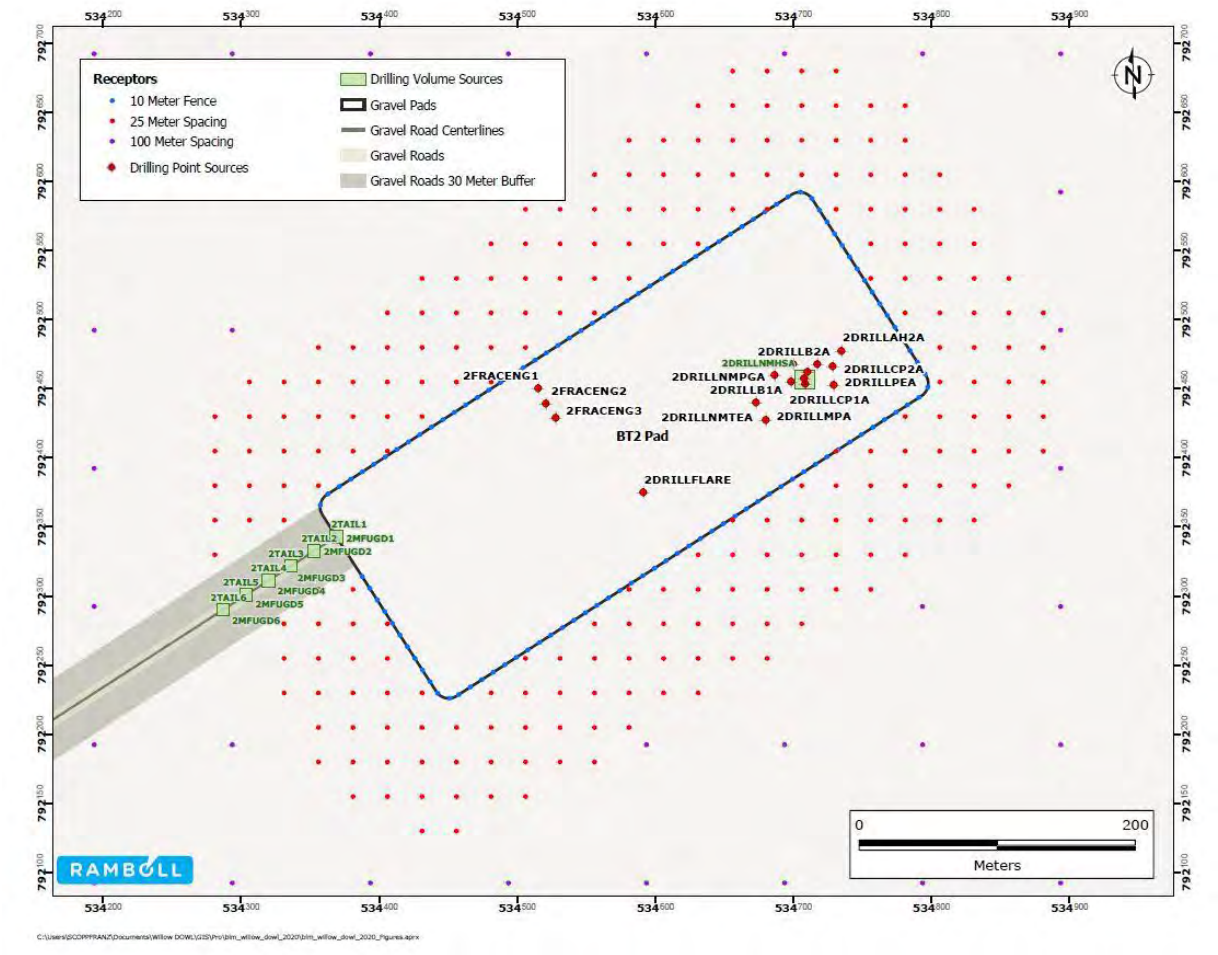


Figure A.2-15. Alternative C Near-field Model Scenario 3 Source Locations at BT2.

Table A.2-7. Alternative C Near-field Model Scenario 3 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1DRILLPEA	POINT	Drill Rigs - Primary Power Engines A	0.1	Diesel engines
2DRILLPEA	POINT	Drill Rigs - Primary Power Engines A	0.1	Diesel engines
1DRILLCP1A	POINT	Drill Rigs - Cement Pumping Unit #1 A	0.2	Diesel tailpipe from non-road equipment
2DRILLCP1A	POINT	Drill Rigs - Cement Pumping Unit #1 A	0.2	Diesel tailpipe from non-road equipment
1DRILLCP2A	POINT	Drill Rigs - Cement Pumping Unit #2 A	0.2	Diesel tailpipe from non-road equipment
2DRILLCP2A	POINT	Drill Rigs - Cement Pumping Unit #2 A	0.2	Diesel tailpipe from non-road equipment
1DRILLB1A	POINT	Drill Rigs - Boiler #1 A	0.05	Diesel or natural gas heaters, or boiler
2DRILLB1A	POINT	Drill Rigs - Boiler #1 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLB2A	POINT	Drill Rigs - Boiler #2 A	0.05	Diesel or natural gas heaters, or boiler
2DRILLB2A	POINT	Drill Rigs - Boiler #2 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLAH1A	POINT	Drill Rigs - Air Heater #1 A	0.05	Diesel or natural gas heaters, or boiler
2DRILLAH1A	POINT	Drill Rigs - Air Heater #1 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLAH2A	POINT	Drill Rigs - Air Heater #2 A	0.05	Diesel or natural gas heaters, or boiler
2DRILLAH2A	POINT	Drill Rigs - Air Heater #2 A	0.05	Diesel or natural gas heaters, or boiler
1DRILLMPA	POINT	Drill Rigs - Mud Pit Heater A	0.05	Diesel or natural gas heaters, or boiler
2DRILLMPA	POINT	Drill Rigs - Mud Pit Heater A	0.05	Diesel or natural gas heaters, or boiler
1DRILLNMTEA	POINT	Drilling Non-Mobile Support Equipment - Total Engine A	0.1	Diesel engines
2DRILLNMTEA	POINT	Drilling Non-Mobile Support Equipment - Total Engine A	0.1	Diesel engines
1DRILLNMLTA	POINT	Drilling Non-Mobile Support Equipment - Total Lighting Engine A	0.2	Diesel tailpipe from non-road equipment
2DRILLNMLTA	POINT	Drilling Non-Mobile Support Equipment - Total Lighting Engine A	0.2	Diesel tailpipe from non-road equipment
1DRILLNMPGA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Generators A	0.1	Diesel engines
2DRILLNMPGA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Generators A	0.1	Diesel engines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1DRILLNMCPA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine A	0.1	Diesel engines
2DRILLNMCPA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine A	0.1	Diesel engines
1DRILLNMHSA	VOLUME	Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
2DRILLNMHSA	VOLUME	Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
1FRACENG1	POINT	Hydraulic Fracturing - Well Frac Engine 1	0.1	Diesel engines
1FRACENG2	POINT	Hydraulic Fracturing - Well Frac Engine 2	0.1	Diesel engines
1FRACENG3	POINT	Hydraulic Fracturing - Well Frac Engine 3	0.1	Diesel engines
1DRILLFLARE	POINT	Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	USEPA default value
2FRACENG1	POINT	Hydraulic Fracturing - Well Frac Engine 1	0.1	Diesel engines
2FRACENG2	POINT	Hydraulic Fracturing - Well Frac Engine 2	0.1	Diesel engines
2FRACENG3	POINT	Hydraulic Fracturing - Well Frac Engine 3	0.1	Diesel engines
2DRILLFLARE	POINT	Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	USEPA default value
1TAIL1	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL6	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
2TAIL1	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL4	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL5	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2TAIL6	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD6	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD3	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD5	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD6	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-

Table A.2-8. Alternative C Near-field Model Scenario 3 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1DRILLPEA	POINT	2.74	13.3	0.4	10.5	614	-	-	-	-	-
2DRILLPEA	POINT	2.74	13.3	0.4	10.5	614	-	-	-	-	-
1DRILLCP1A	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
2DRILLCP1A	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
1DRILLCP2A	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-
2DRILLCP2A	POINT	2.74	10.4	0.13	43.5	750	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1DRILLB1A	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
2DRILLB1A	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
1DRILLB2A	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
2DRILLB2A	POINT	2.74	11.9	0.279	11.7	450	-	-	-	-	-
1DRILLAH1A	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
2DRILLAH1A	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
1DRILLAH2A	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
2DRILLAH2A	POINT	2.74	10.5	0.3	3.2	533	-	-	-	-	-
1DRILLMPA	POINT	2.74	7.2	0.3	10.8	533	-	-	-	-	-
2DRILLMPA	POINT	2.74	7.2	0.3	10.8	533	-	-	-	-	-
1DRILLNMTEA	POINT	2.74	6.5	0.3	47	761	-	-	-	-	-
2DRILLNMTEA	POINT	2.74	6.5	0.3	47	761	-	-	-	-	-
1DRILLNMLTA	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
2DRILLNMLTA	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
1DRILLNMPGA	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
2DRILLNMPGA	POINT	2.74	6.1	0.3	15.1	795	-	-	-	-	-
1DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-	-	-	-
2DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-	-	-	-
1DRILLNMHSA	VOLUME	2.74	3.7	-	-	-	13.95	3.38	-	-	-
2DRILLNMHSA	VOLUME	2.74	3.7	-	-	-	13.95	3.38	-	-	-
1FRACENG1	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
1FRACENG2	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
1FRACENG3	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
1DRILLFLARE	POINT	2.74	10.1	0.3	6.1	1033	-	-	-	-	-
2FRACENG1	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2FRACENG2	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
2FRACENG3	POINT	2.74	3.7	0.356	41.6	644	-	-	-	-	-
2DRILLFLARE	POINT	2.74	10.1	0.3	6.1	1033	-	-	-	-	-
1TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-

Table A.2-9. Alternative C Near-field Model Scenario 3 Emissions Rates

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1DRILLPEA	3.21E+00	6.15E-01	6.15E-01	2.75E-02	2.75E-02	2.75E-02	4.74E-03	4.74E-03	4.74E-03	8760
2DRILLPEA	3.21E+00	6.15E-01	6.15E-01	2.75E-02	2.75E-02	2.75E-02	4.74E-03	4.74E-03	4.74E-03	8760
1DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
2DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
2DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
2DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
2DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
2DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
1DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
2DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
1DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
2DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
2DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
1DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
2DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
1DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
2DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
1DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
2DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
1DRILLNMHSA	2.15E-02	8.59E-02	6.44E-02	1.02E-02	9.15E-03	6.86E-03	9.15E-04	9.15E-04	6.86E-04	8760
2DRILLNMHSA	2.15E-02	8.59E-02	6.44E-02	1.02E-02	9.15E-03	6.86E-03	9.15E-04	9.15E-04	6.86E-04	8760
1FRACENG1	3.11E-02	2.49E-03	8.17E-04	1.24E-04	1.24E-04	4.09E-05	4.11E-05	4.11E-05	1.35E-05	1920
1FRACENG2	1.79E-01	3.43E-02	1.13E-02	1.54E-03	1.54E-03	5.06E-04	3.78E-04	3.78E-04	1.24E-04	1920
1FRACENG3	2.61E+00	5.00E-01	1.64E-01	2.24E-02	2.24E-02	7.35E-03	5.50E-03	5.50E-03	1.81E-03	1920
1DRILLFLARE	1.08E+00	1.98E-01	1.95E-02	4.79E-05	4.79E-05	4.72E-06	1.16E-02	1.16E-02	1.14E-03	864
2FRACENG1	3.11E-02	2.49E-03	8.17E-04	1.24E-04	1.24E-04	4.09E-05	4.11E-05	4.11E-05	1.35E-05	1920
2FRACENG2	1.79E-01	3.43E-02	1.13E-02	1.54E-03	1.54E-03	5.06E-04	3.78E-04	3.78E-04	1.24E-04	1920
2FRACENG3	2.61E+00	5.00E-01	1.64E-01	2.24E-02	2.24E-02	7.35E-03	5.50E-03	5.50E-03	1.81E-03	1920
2DRILLFLARE	1.08E+00	1.98E-01	1.95E-02	4.79E-05	4.79E-05	4.72E-06	1.16E-02	1.16E-02	1.14E-03	864
1TAIL1	5.67E-06	1.10E-05	1.10E-05	1.74E-06	5.35E-07	5.35E-07	7.11E-08	7.11E-08	7.11E-08	8760
1TAIL2	5.67E-06	1.10E-05	1.10E-05	1.74E-06	5.35E-07	5.35E-07	7.11E-08	7.11E-08	7.11E-08	8760
1TAIL3	5.67E-06	1.10E-05	1.10E-05	1.74E-06	5.35E-07	5.35E-07	7.11E-08	7.11E-08	7.11E-08	8760
1TAIL4	5.67E-06	1.10E-05	1.10E-05	1.74E-06	5.35E-07	5.35E-07	7.11E-08	7.11E-08	7.11E-08	8760
1TAIL5	5.67E-06	1.10E-05	1.10E-05	1.74E-06	5.35E-07	5.35E-07	7.11E-08	7.11E-08	7.11E-08	8760
1TAIL6	5.67E-06	1.10E-05	1.10E-05	1.74E-06	5.35E-07	5.35E-07	7.11E-08	7.11E-08	7.11E-08	8760
2TAIL1	5.67E-06	1.10E-05	1.10E-05	1.74E-06	5.35E-07	5.35E-07	7.11E-08	7.11E-08	7.11E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
2TAIL2	5.67E-06	1.10E-05	1.10E-05	1.74E-06	5.35E-07	5.35E-07	7.11E-08	7.11E-08	7.11E-08	8760
2TAIL3	5.67E-06	1.10E-05	1.10E-05	1.74E-06	5.35E-07	5.35E-07	7.11E-08	7.11E-08	7.11E-08	8760
2TAIL4	5.67E-06	1.10E-05	1.10E-05	1.74E-06	5.35E-07	5.35E-07	7.11E-08	7.11E-08	7.11E-08	8760
2TAIL5	5.67E-06	1.10E-05	1.10E-05	1.74E-06	5.35E-07	5.35E-07	7.11E-08	7.11E-08	7.11E-08	8760
2TAIL6	5.67E-06	1.10E-05	1.10E-05	1.74E-06	5.35E-07	5.35E-07	7.11E-08	7.11E-08	7.11E-08	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.11E-03	3.11E-04	3.11E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.11E-03	3.11E-04	3.11E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.11E-03	3.11E-04	3.11E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.11E-03	3.11E-04	3.11E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.11E-03	3.11E-04	3.11E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.11E-03	3.11E-04	3.11E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.11E-03	3.11E-04	3.11E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.11E-03	3.11E-04	3.11E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.11E-03	3.11E-04	3.11E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.11E-03	3.11E-04	3.11E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.11E-03	3.11E-04	3.11E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.11E-03	3.11E-04	3.11E-04	0.00E+00	0.00E+00	0.00E+00	4380

A.2.5 Scenario 4: Development Drilling

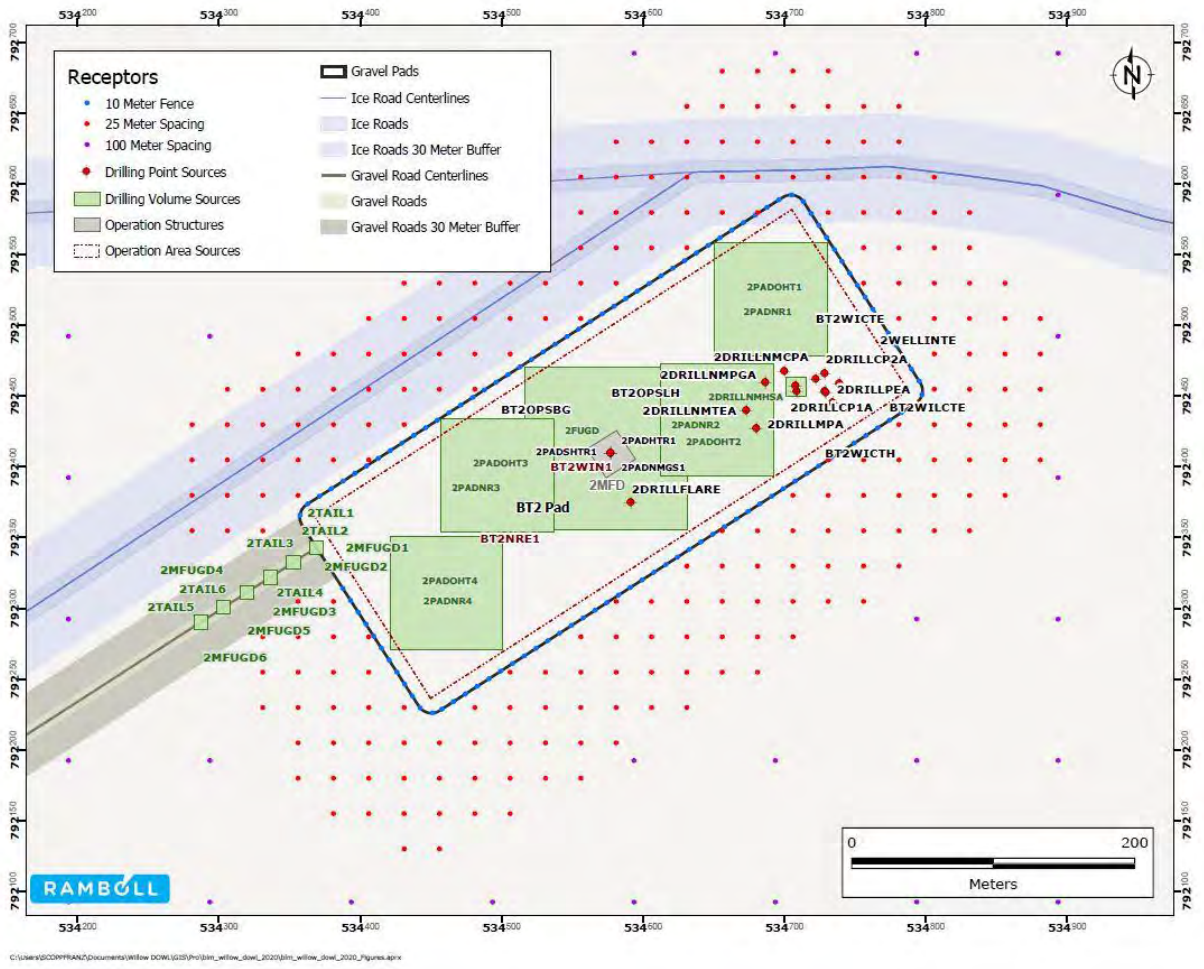


Figure A.2-16. Alternative C Near-field Model Scenario 4 Source Locations at BT2.

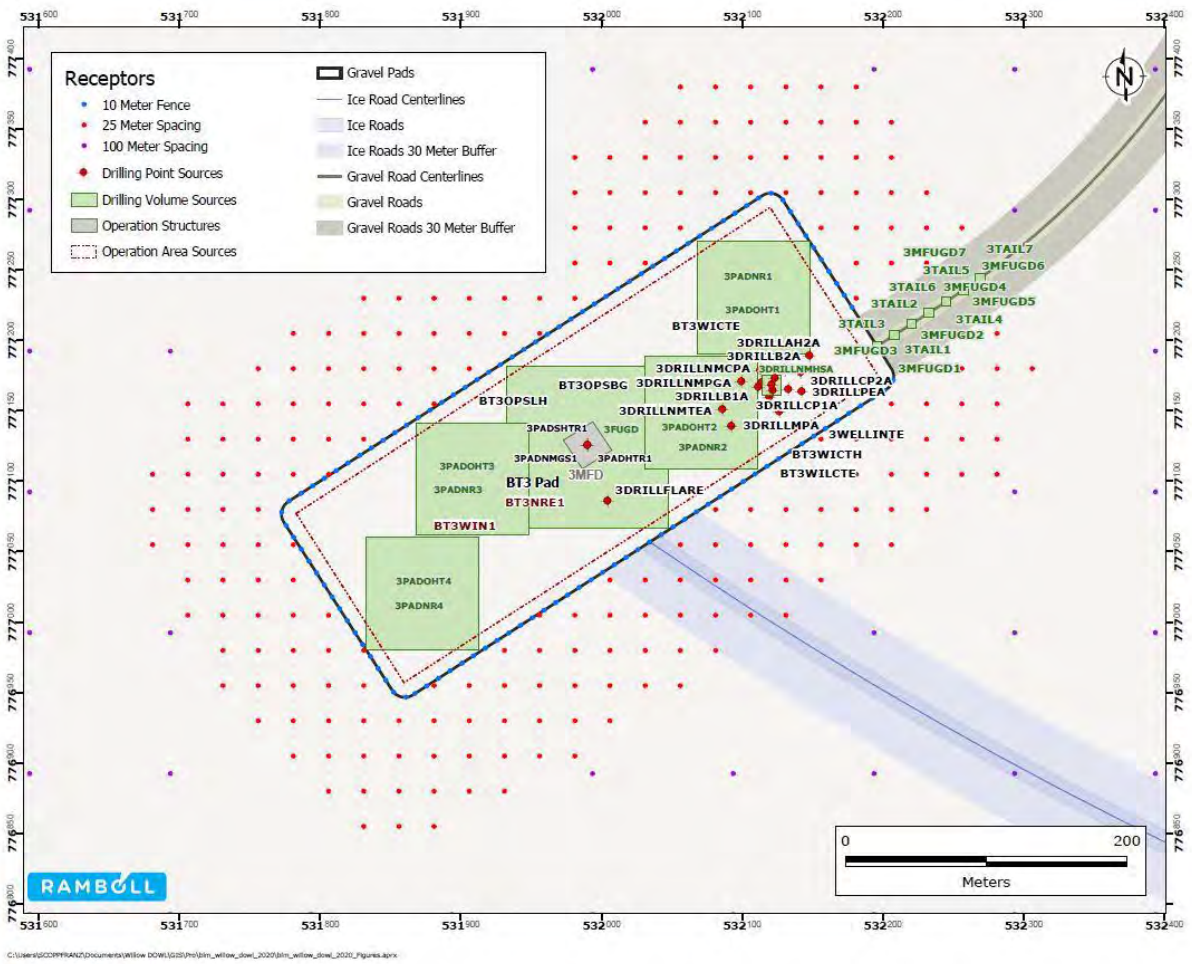


Figure A.2-17. Alternative C Near-field Model Scenario 4 Source Locations at BT3.

Table A.2-10. Alternative C Near-field Model Scenario 4 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCOPSTDRN	POINT	WOC - Storage Tanks - VFRT/ DRA (drag reducing agent)	-	-
BT1OPSLH	POINT	BT1 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT1OPSBG	POINT	BT1 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT1OPSFUG	VOLUME	BT1 - Fugitive Components	-	-
BT1OPSFUGD	VOLUME	BT1 - Wind Erosion Fugitive Dust	-	-
BT1OPSTEB	POINT	BT1 - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
BT1OPSTD	POINT	BT1 - Storage Tanks - VFRT/ Diesel	-	-
BT1OPSTCO	POINT	BT1 - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
BT1WICTH	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT1WICTE	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Engine	0.2	Diesel tailpipe from non-road equipment
BT1WILCTE	POINT	BT1 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT2OPSLH	POINT	BT2 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT2OPSBG	POINT	BT2 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT2OPSFUG	VOLUME	BT2 - Fugitive Components	-	-
BT2OPSFUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust	-	-
BT2WICTH	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT2WICTE	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Engine	0.2	Diesel tailpipe from non-road equipment
BT2WILCTE	POINT	BT2 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT3OPSLH	POINT	BT3 - Line Heater	0	-
BT3OPSBG	POINT	BT3 - Backup Generator	0	-
BT3OPSFUG	VOLUME	BT3 - Fugitive Components	-	-
BT3OPSFUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust	-	-
BT3WICTH	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT3WICTE	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Engine	0.2	Diesel tailpipe from non-road equipment
BT3WILCTE	POINT	BT3 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT4OPSLH	POINT	BT4 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT4OPSBG	POINT	BT4 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT4OPSFUG	VOLUME	BT4 - Fugitive Components	-	-
BT4OPSFUGD	VOLUME	BT4 - Wind Erosion Fugitive Dust	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
BT4OPSTEB	POINT	BT4 - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
BT4OPSTD	POINT	BT4 - Storage Tanks - VFRT/ Diesel	-	-
BT4OPSTCO	POINT	BT4 - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
BT4WICTH	POINT	BT4 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT4WICTE	POINT	BT4 - Well Intervention Main Equipment - Coil Tubing Engine	0.2	Diesel tailpipe from non-road equipment
BT4WILCTE	POINT	BT4 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT5OPSLH	POINT	BT5 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT5OPSBG	POINT	BT5 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT5OPSFUG	VOLUME	BT5 - Fugitive Components	-	-
BT5OPSFUGD	VOLUME	BT5 - Wind Erosion Fugitive Dust	-	-
BT5WICTH	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT5WICTE	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Engine	0.2	Diesel tailpipe from non-road equipment
BT5WILCTE	POINT	BT5 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
WLWTG03A	POINT	WPF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG03B	POINT	WPF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG01A	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG01B	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02A	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02B	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG04	POINT	WPF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines
WLWTG05	POINT	WPF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines
WLWGL05	POINT	WPF - Stationary Combustion Sources - Black Start Engine	0.2	Diesel tailpipe from non-road equipment
WLWHG03	POINT	WPF - Stationary Combustion Sources - Crude Production Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG04	POINT	WPF - Stationary Combustion Sources - Crude Production Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG01	POINT	WPF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Diesel or natural gas heaters, or boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WLWHG02	POINT	WPF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG06	POINT	WPF - Stationary Combustion Sources - Hot Oil Heater	0.05	Diesel or natural gas heaters, or boiler
WLWFGLP	POINT	WPF - Stationary Combustion Sources - LP Flare (pilot/purge/assist)	0.5	USEPA default value
WLWFGHP	POINT	WPF - Stationary Combustion Sources - HP Flare (pilot/purge/assist)	0.5	USEPA default value
WCFOPSDS	POINT	WPF - Stationary Combustion Sources - Diesel Fueling Station	-	-
WCFOPSTSO	POINT	WPF - Storage Tanks - VFRT/ Slop Oil	-	-
WCFOPSTCO	POINT	WPF - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
WCFOPSTUD	POINT	WPF - Storage Tanks - VFRT/ ULSD	-	-
WCFOPSTLD	POINT	WPF - Storage Tanks - VFRT/ LEPD	-	-
WCFOPSTEB	POINT	WPF - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
WCFOPSFUG	VOLUME	WPF - Fugitive Equipment Leaks	-	-
WCFOPSFUGD	VOLUME	WPF - Wind Erosion Fugitive Dust	-	-
WOCPWRGENN1	POINT	WOC - Stationary Combustion Sources N - Power Generation	0.1	Diesel engines
WOCPWRGENN2	POINT	WOC - Stationary Combustion Sources N - Power Generation	0.1	Diesel engines
WOCPWRGENN3	POINT	WOC - Stationary Combustion Sources N - Power Generation	0.1	Diesel engines
WLWIG01S	POINT	WOC - Stationary Combustion Sources - Incinerator	0.2	Diesel tailpipe from non-road equipment
WLWIG02S	POINT	WOC - Stationary Combustion Sources - Incinerator	0.05	Diesel or natural gas heaters, or boiler
WLWHL05S	POINT	WOC - Stationary Combustion Sources - Mud Plant Glycol Boiler	0.05	Diesel or natural gas heaters, or boiler
WOCOPSTJFS	POINT	WOC - Storage Tanks - VFRT/ Aircraft Jet Fuel	-	-
WOCOPSTHCS	POINT	WOC - Storage Tanks - VFRT/ Hydrocarbon	-	-
WOCOPSTDS	POINT	WOC - Storage Tanks - VFRT/ Diesel	-	-
WILLOWAIR1S	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 50.8m	0.5	USEPA default value
WILLOWAIR2S	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 152.4m	0.5	USEPA default value
WILLOWAIR3S	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 254m	0.5	USEPA default value
WOCOPSFUGDS	VOLUME	WOC - Wind Erosion Fugitive Dust - Wind Erosion	-	-
WCFPCE1	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE2	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFPCE3	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE4	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE5	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE6	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE7	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE1	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE2	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE3	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE4	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE5	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE6	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE7	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFNRE1	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE2	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE3	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE4	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFNRE5	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE6	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE7	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WLW2GEN	POINT	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines >140 HP	0.15	Diesel tailpipe from non-road equipment
BT3NRE1	AREAPOLY	BT3 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT3WIN1	AREAPOLY	BT3 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
3WELLINTE	POINT	BT3 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT1NRE1	AREAPOLY	BT1 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT1WIN1	AREAPOLY	BT1 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
1WELLINTE	POINT	BT1 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT2NRE1	AREAPOLY	BT2 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT2WIN1	AREAPOLY	BT2 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
2WELLINTE	POINT	BT2 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT4NRE1	AREAPOLY	BT4 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT4WIN1	AREAPOLY	BT4 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
4WELLINTE	POINT	BT4 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT5NRE1	AREAPOLY	BT5 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT5WIN1	AREAPOLY	BT5 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
5WELLINTE	POINT	BT5 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
WOCPCES	AREAPOLY	WOC - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCSCES	AREAPOLY	WOC - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCNRES	AREAPOLY	WOC - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
1TAIL1	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL6	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
2TAIL1	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL4	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL5	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL6	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
3TAIL1	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL2	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL3	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL4	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL5	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL6	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL7	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
4TAIL1	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL2	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL3	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL4	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL5	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL6	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL7	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
5TAIL1	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL2	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL3	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL4	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL5	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL6	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL7	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL8	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL9	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL10	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL11	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL12	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL13	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL14	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL15	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL16	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL17	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL18	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL19	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL20	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL21	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL22	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL23	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCSTAIL24	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL25	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL26	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL27	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL28	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL29	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL30	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL31	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL32	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL33	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL34	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL35	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL36	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL37	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL38	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL39	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL40	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL41	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL42	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL43	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRSTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRSTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRSTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRSTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRSTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRSTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRSTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCNTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL8	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL9	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL10	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL11	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL12	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL13	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL14	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL15	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL16	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL17	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL18	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL19	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL20	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL21	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL22	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL23	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL24	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL25	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL26	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL27	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL28	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL29	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL30	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL31	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRNTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRNTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
AIRNTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRNTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRNTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRNTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRNTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL1	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL2	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL3	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL4	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL5	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL6	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL7	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL8	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL9	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL10	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL11	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL12	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL13	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL14	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL15	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL16	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL17	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL18	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL19	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL20	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
3MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
4MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
5MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
WCFMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD8	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD9	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD10	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD11	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD12	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD13	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD14	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD15	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD16	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD17	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD18	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD19	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD20	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WOCSMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD8	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD9	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD10	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD11	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD12	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCSMFUGD13	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD14	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD15	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD16	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD17	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD18	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD19	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD20	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD21	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD22	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD23	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD24	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD25	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD26	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD27	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD28	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD29	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD30	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD31	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD32	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD33	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD34	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD35	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD36	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD37	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD38	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD39	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD40	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD41	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD42	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCSMFUGD43	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRSMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRSMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRSMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRSMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRSMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRSMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRSMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCTEMPTRBS1	POINT	WOC - Stationary Combustion Sources	0.3	Natural gas-fired turbines
WOCTEMPTRBS2	POINT	WOC - Stationary Combustion Sources	0.3	Natural gas-fired turbines
WOCTEMPTRBN1	POINT	WOC - Stationary Combustion Sources N	0.3	Natural gas-fired turbines
WOCTEMPTRBN2	POINT	WOC - Stationary Combustion Sources N	0.3	Natural gas-fired turbines
WOCPCEN	AREAPOLY	WOC - Non-mobile Support Equipment N	0.05	Diesel or natural gas heaters, or boiler
WOCSCEN	AREAPOLY	WOC - Non-mobile Support Equipment N	0.05	Diesel or natural gas heaters, or boiler
WOCNREN	AREAPOLY	WOC - Non-mobile Support Equipment N	0.2	Diesel tailpipe from non-road equipment
WOCNMFUGD1	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD2	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD3	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD4	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD5	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD6	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD7	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD8	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD9	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD10	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD11	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD12	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD13	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD14	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD15	VOLUME	Mobile Equipment Fugitive Dust	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCNMFUGD16	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD17	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD18	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD19	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD20	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD21	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD22	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD23	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD24	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD25	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD26	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD27	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD28	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD29	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD30	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD31	VOLUME	Mobile Equipment Fugitive Dust	-	-
AIRNMFUGD1	VOLUME	Mobile Equipment Fugitive Dust	-	-
AIRNMFUGD2	VOLUME	Mobile Equipment Fugitive Dust	-	-
AIRNMFUGD3	VOLUME	Mobile Equipment Fugitive Dust	-	-
AIRNMFUGD4	VOLUME	Mobile Equipment Fugitive Dust	-	-
AIRNMFUGD5	VOLUME	Mobile Equipment Fugitive Dust	-	-
AIRNMFUGD6	VOLUME	Mobile Equipment Fugitive Dust	-	-
AIRNMFUGD7	VOLUME	Mobile Equipment Fugitive Dust	-	-
WILLOWAIR1N	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) N	0.5	USEPA default value
WILLOWAIR2N	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) N	0.5	USEPA default value
WILLOWAIR3N	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) N	0.5	USEPA default value
WOCOPSFUGDN	VOLUME	WOC - Wind Erosion Fugitive Dust N	-	-
WOCOPSTDRS	POINT	WOC - Storage Tanks N	-	-
WOCPWRGENS1	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines
WOCPWRGENS2	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCPWRGENS3	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines
WLWIG01N	POINT	WOC - Stationary Combustion Sources – Incinerator	0.5	USEPA default value
WLWIG02N	POINT	WOC - Stationary Combustion Sources – Incinerator	0.5	USEPA default value
WLWHL05N	POINT	WOC - Stationary Combustion Sources N	0.05	Diesel or natural gas heaters, or boiler
WOCOPSTJFN	POINT	WOC - Storage Tanks N	-	-
WOCOPSTHCN	POINT	WOC - Storage Tanks N	-	-
WOCOPSTDN	POINT	WOC - Storage Tanks N	-	-
RFDGMT1	POINT	RFD - GMT1	0.2	Diesel tailpipe from non-road equipment
RFDGMT2	POINT	RFD - GMT2	0.2	Diesel tailpipe from non-road equipment
RFDCD5	POINT	RFD - CD5	0.2	Diesel tailpipe from non-road equipment
RFDGWPDS1	POINT	RFD - Greater Willow Project Drill Site #1	0.15	Diesel engines/natural gas-fired turbines
RFDGWPDS2	POINT	RFD - Greater Willow Project Drill Site #2	0.15	Diesel engines/natural gas-fired turbines
2DRILLPEA	POINT	BT2 - Drill Rigs - Primary Power Engines	0.1	Diesel engines
2DRILLCP1A	POINT	BT2 - Drill Rigs - Cement Pumping Unit #1	0.2	Diesel tailpipe from non-road equipment
2DRILLCP2A	POINT	BT2 - Drill Rigs - Cement Pumping Unit #2	0.2	Diesel tailpipe from non-road equipment
2DRILLB1A	POINT	BT2 - Drill Rigs - Boiler #1	0.05	Diesel or natural gas heaters, or boiler
2DRILLB2A	POINT	BT2 - Drill Rigs - Boiler #2	0.05	Diesel or natural gas heaters, or boiler
2DRILLAH1A	POINT	BT2 - Drill Rigs - Air Heater #1	0.05	Diesel or natural gas heaters, or boiler
2DRILLAH2A	POINT	BT2 - Drill Rigs - Air Heater #2	0.05	Diesel or natural gas heaters, or boiler
2DRILLMPA	POINT	BT2 - Drill Rigs - Mud Pit Heater	0.05	Diesel or natural gas heaters, or boiler
2DRILLNMTEA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
2DRILLNMLTA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Lighting Engine	0.2	Diesel tailpipe from non-road equipment
2DRILLNMPGA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Portable Generators	0.1	Diesel engines
2DRILLNMCPA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine	0.1	Diesel engines
2DRILLNMHSA	VOLUME	BT2 - Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
2DRILLFLARE	POINT	BT2 - Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	USEPA default value
3DRILLPEA	POINT	BT3 - Drill Rigs - Primary Power Engines	0.1	Diesel engines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
3DRILLCP1A	POINT	BT3 - Drill Rigs - Cement Pumping Unit #1	0.2	Diesel tailpipe from non-road equipment
3DRILLCP2A	POINT	BT3 - Drill Rigs - Cement Pumping Unit #2	0.2	Diesel tailpipe from non-road equipment
3DRILLB1A	POINT	BT3 - Drill Rigs - Boiler #1	0.05	Diesel or natural gas heaters, or boiler
3DRILLB2A	POINT	BT3 - Drill Rigs - Boiler #2	0.05	Diesel or natural gas heaters, or boiler
3DRILLAH1A	POINT	BT3 - Drill Rigs - Air Heater #1	0.05	Diesel or natural gas heaters, or boiler
3DRILLAH2A	POINT	BT3 - Drill Rigs - Air Heater #2	0.05	Diesel or natural gas heaters, or boiler
3DRILLMPA	POINT	BT3 - Drill Rigs - Mud Pit Heater	0.05	Diesel or natural gas heaters, or boiler
3DRILLNMTEA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
3DRILLNMLTA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Lighting Engine	0.2	Diesel tailpipe from non-road equipment
3DRILLNMPGA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Portable Generators	0.1	Diesel engines
3DRILLNMCPA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine	0.1	Diesel engines
3DRILLNMHSA	VOLUME	BT3 - Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
3DRILLFLARE	POINT	BT3 - Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	USEPA default value
2PADHTR1	POINT	BT2 - Pad Construction - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
2PADSHTR1	POINT	BT2 - Pad Construction - Construction Shop Heaters	0.05	Diesel or natural gas heaters, or boiler
2PADNMGS1	POINT	BT2 - Pad Construction - Generator Sets	0.1	Diesel engines
3PADHTR1	POINT	BT3 - Pad Construction - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
3PADSHTR1	POINT	BT3 - Pad Construction - Construction Shop Heaters	0.05	Diesel or natural gas heaters, or boiler
3PADNMGS1	POINT	BT3 - Pad Construction - Generator Sets	0.1	Diesel engines
2PADNR1	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR2	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR3	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR4	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR1	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR2	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR3	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR4	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2PADOHT1	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT2	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT3	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT4	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT1	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT2	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT3	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT4	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2FUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust	-	-
3FUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust	-	-

Table A.2-11. Alternative C Near-field Model Scenario 4 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCOPSTDRN	POINT	3.05	5.4864	0.1016	1.67652	294.261111	-	-	-	-	-
BT1OPSLH	POINT	2.7432	12.8	0.94	5.7	529	-	-	-	-	-
BT1OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT1OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT1OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT1OPSTEB	POINT	2.7432	5.4864	0.1016	1.67652	283.15	-	-	-	-	-
BT1OPSTD	POINT	2.7432	5.4864	0.1016	1.67652	299.816667	-	-	-	-	-
BT1OPSTCO	POINT	2.7432	5.4864	0.1016	1.67652	277.594444	-	-	-	-	-
BT1WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT1WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT1WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2OPSLH	POINT	2.7432	12.8	0.94	5.7	529	-	-	-	-	-
BT2OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
BT2OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT2OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT2WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT3OPSLH	POINT	2.7432	12.8	0.94	5.7	529	-	-	-	-	-
BT3OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT3OPSFUG	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
BT3OPSFUGD	VOLUME	3.66	3.7	-	-	-	26.74	3.38	-	-	-
BT3WICTH	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT3WICTE	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT3WILCTE	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT4OPSLH	POINT	2.7432	12.8	0.94	5.7	529	-	-	-	-	-
BT4OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT4OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT4OPSFUGD	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT4OPSTEB	POINT	2.7432	5.4864	0.1016	1.67652	283.15	-	-	-	-	-
BT4OPSTD	POINT	2.7432	5.4864	0.1016	1.67652	299.816667	-	-	-	-	-
BT4OPSTCO	POINT	2.7432	5.4864	0.1016	1.67652	277.594444	-	-	-	-	-
BT4WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT4WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT4WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT5OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT5OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT5OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT5WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
WLWTG03A	POINT	3.66	25	2	30	370	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WLWTG03B	POINT	3.66	25	2	30	370	-	-	-	-	-
WLWTG01A	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG01B	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG02A	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG02B	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG04	POINT	3.66	25	2	30	550	-	-	-	-	-
WLWTG05	POINT	3.66	25	2	30	550	-	-	-	-	-
WLWGL05	POINT	3.66	8	0.3	20	760	-	-	-	-	-
WLWHG03	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG04	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG01	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG02	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG06	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWFGLP	POINT	3.66	25	0.2	20	1273	-	-	-	-	-
WLWFGHP	POINT	3.66	25	0.2	20	1273	-	-	-	-	-
WCFOPSDS	POINT	3.66	5.5	0.1	1.68	0	-	-	-	-	-
WCFOPSTSO	POINT	3.66	5.4864	0.1016	1.67652	319.261111	-	-	-	-	-
WCFOPSTCO	POINT	3.66	5.4864	0.1016	1.67652	277.594444	-	-	-	-	-
WCFOPSTUD	POINT	3.66	12.8016	0.1524	0.74512	299.816667	-	-	-	-	-
WCFOPSTLD	POINT	3.66	5.4864	0.1016	1.67652	299.816667	-	-	-	-	-
WCFOPSTEB	POINT	3.66	5.4864	0.1016	1.67652	283.15	-	-	-	-	-
WCFOPSFUG	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
WCFOPSFUGD	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
WOCPWRGENN1	POINT	3.05	15	0.3	20	760	-	-	-	-	-
WOCPWRGENN2	POINT	3.05	15	0.3	20	760	-	-	-	-	-
WOCPWRGENN3	POINT	3.05	15	0.3	20	760	-	-	-	-	-
WLWIG01S	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWIG02S	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWHL05S	POINT	3.05	13.19	0.3	10	525	-	-	-	-	-
WOCOPSTJFS	POINT	3.05	5.4864	0.1016	1.67652	283.15	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCOPSTHCS	POINT	3.05	5.4864	0.1016	1.67652	0	-	-	-	-	-
WOCOPSTDS	POINT	3.05	5.4864	0.1016	1.67652	299.816667	-	-	-	-	-
WILLOWAIR1S	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-
WILLOWAIR2S	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-
WILLOWAIR3S	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-
WOCOPSFUGDS	VOLUME	3.05	3.7	-	-	-	9.07	3.38	-	-	-
WCFPCE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFPCE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFPCE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFPCE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFSCE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFSCE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFSCE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFNRE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFNRE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFNRE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WLW2GEN	POINT	3.66	6.1	0.46	15.1	795	-	-	-	-	-
BT3NRE1	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
BT3WIN1	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
3WELLINTE	POINT	3.66	6.1	0.46	15.1	795	-	-	-	-	-
BT1NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT1WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
1WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT2NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT2WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
2WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT4NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT4WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
4WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT5NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT5WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
5WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
WOCPCES	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCSCES	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCNRES	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
1TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
3TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WOCSTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCSTAIL12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL32	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL33	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL34	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL35	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL36	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL37	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL38	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL39	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL40	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL41	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCSTAIL42	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL43	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRSTAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSTAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSTAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSTAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSTAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSTAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSTAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WOCNTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCNTAIL22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRNTAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNTAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNTAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNTAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNTAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNTAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNTAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WCFTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WCFTAIL14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
4MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WCFMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCSMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCSMFUGD31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD32	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD33	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD34	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD35	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD36	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD37	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD38	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD39	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD40	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD41	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD42	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD43	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRSMFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSMFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSMFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSMFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSMFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSMFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSMFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WOCTEMPTRBS1	POINT	3.05	30	2	30	550	-	-	-	-	-
WOCTEMPTRBS2	POINT	3.05	30	2	30	550	-	-	-	-	-
WOCTEMPTRBN1	POINT	3.05	30	2	30	550	-	-	-	-	-
WOCTEMPTRBN2	POINT	3.05	30	2	30	550	-	-	-	-	-
WOCPCEN	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCSCEN	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCNREN	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCNMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCNMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRNMFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNMFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
AIRNMFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNMFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNMFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNMFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNMFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WILLOWAIR1N	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-
WILLOWAIR2N	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-
WILLOWAIR3N	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-
WOCOPSFUGDN	VOLUME	3.05	3.7	-	-	-	9.07	3.38	-	-	-
WOCOPSTDRS	POINT	3.05	5.4864	0.1016	1.67652	294.261111	-	-	-	-	-
WOCPWRGENS1	POINT	3.05	15	0.3	20	760	-	-	-	-	-
WOCPWRGENS2	POINT	3.05	15	0.3	20	760	-	-	-	-	-
WOCPWRGENS3	POINT	3.05	15	0.3	20	760	-	-	-	-	-
WLWIG01N	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWIG02N	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWHL05N	POINT	3.05	13.19	0.3	10	525	-	-	-	-	-
WOCOPSTJFN	POINT	3.05	5.4864	0.1016	1.67652	283.15	-	-	-	-	-
WOCOPSTHCN	POINT	3.05	5.4864	0.1016	1.67652	0	-	-	-	-	-
WOCOPSTDN	POINT	3.05	5.4864	0.1016	1.67652	299.816667	-	-	-	-	-
RFDGMT1	POINT	1.524	4.88	0.305	35	820	-	-	-	-	-
RFDGMT2	POINT	1.524	12.2	0.94	5.7	529	-	-	-	-	-
RFDCD5	POINT	1.524	4.88	0.305	35	820	-	-	-	-	-
RFDGWPDS1	POINT	1.524	3.7	0.356	41.6	644	-	-	-	-	-
RFDGWPDS2	POINT	1.524	3.7	0.356	41.6	644	-	-	-	-	-
2DRILLPEA	POINT	2.7432	13.3	0.4	10.5	614	-	-	-	-	-
2DRILLCP1A	POINT	2.7432	10.4	0.13	43.5	750	-	-	-	-	-
2DRILLCP2A	POINT	2.7432	10.4	0.13	43.5	750	-	-	-	-	-
2DRILLB1A	POINT	2.7432	11.9	0.279	11.7	450	-	-	-	-	-
2DRILLB2A	POINT	2.7432	11.9	0.279	11.7	450	-	-	-	-	-
2DRILLAH1A	POINT	2.7432	10.5	0.3	3.2	533	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2DRILLAH2A	POINT	2.7432	10.5	0.3	3.2	533	-	-	-	-	-
2DRILLMPA	POINT	2.7432	7.2	0.3	10.8	533	-	-	-	-	-
2DRILLNMTEA	POINT	2.7432	6.5	0.3	47	761	-	-	-	-	-
2DRILLNMLTA	POINT	2.7432	6.1	0.3	15.1	795	-	-	-	-	-
2DRILLNMPGA	POINT	2.7432	6.1	0.3	15.1	795	-	-	-	-	-
2DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-	-	-	-
2DRILLNMHSA	VOLUME	2.7432	3.7	-	-	-	13.95	3.38	-	-	-
2DRILLFLARE	POINT	2.7432	10.1	0.3	6.1	1033	-	-	-	-	-
3DRILLPEA	POINT	3.6576	13.3	0.4	10.5	614	-	-	-	-	-
3DRILLCP1A	POINT	3.6576	10.4	0.13	43.5	750	-	-	-	-	-
3DRILLCP2A	POINT	3.6576	10.4	0.13	43.5	750	-	-	-	-	-
3DRILLB1A	POINT	3.6576	11.9	0.279	11.7	450	-	-	-	-	-
3DRILLB2A	POINT	3.6576	11.9	0.279	11.7	450	-	-	-	-	-
3DRILLAH1A	POINT	3.6576	10.5	0.3	3.2	533	-	-	-	-	-
3DRILLAH2A	POINT	3.6576	10.5	0.3	3.2	533	-	-	-	-	-
3DRILLMPA	POINT	3.6576	7.2	0.3	10.8	533	-	-	-	-	-
3DRILLNMTEA	POINT	3.6576	6.5	0.3	47	761	-	-	-	-	-
3DRILLNMLTA	POINT	3.6576	6.1	0.3	15.1	795	-	-	-	-	-
3DRILLNMPGA	POINT	3.6576	6.1	0.3	15.1	795	-	-	-	-	-
3DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-	-	-	-
3DRILLNMHSA	VOLUME	3.6576	3.7	-	-	-	13.95	3.38	-	-	-
3DRILLFLARE	POINT	3.6576	10.1	0.3	6.1	1033	-	-	-	-	-
2PADHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
2PADSHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
2PADNMGS1	POINT	2.7432	6.5	0.2	47	761	-	-	-	-	-
3PADHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
3PADSHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
3PADNMGS1	POINT	2.7432	6.5	0.2	47	761	-	-	-	-	-
2PADNR1	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADNR2	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2PADNR3	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADNR4	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADNR1	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADNR2	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADNR3	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADNR4	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADOHT1	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADOHT2	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADOHT3	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADOHT4	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADOHT1	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADOHT2	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADOHT3	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADOHT4	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2FUGD	VOLUME	2.7432	3.66	-	-	-	26.7442	3.38	-	-	-
3FUGD	VOLUME	3.6576	3.66	-	-	-	26.7442	3.38	-	-	-

Table A.2-12. Alternative C Near-field Model Scenario 4 Emissions Rates

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCOPSTDRN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT1OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT1OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1OPSFUGD	0.00E+00	0.00E+00	0.00E+00	3.52E-02	5.29E-03	5.29E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT1OPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1OPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1OPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT1WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT1WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT2OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT2OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT2OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT2OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.74E-02	4.11E-03	4.11E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT2WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT2WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT2WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT3OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT3OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT3OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT3OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT3WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT3WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT3WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT4OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT4OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT4OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT4OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.34E-02	3.52E-03	3.52E-03	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
BT4OPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT4OPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT4OPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT4WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT4WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT4WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT5OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT5OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT5OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT5OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.18E-02	3.27E-03	3.27E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT5WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT5WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT5WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
WLWTG03A	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	8760
WLWTG03B	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	8760
WLWTG01A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG01B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG02A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG02B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG04	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	8760
WLWTG05	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	8760
WLWGL05	6.48E-01	1.19E+00	6.76E-02	3.70E-02	3.70E-02	2.11E-03	1.22E-03	1.22E-03	6.99E-05	500
WLWHG03	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8760
WLWHG04	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8760
WLWHG01	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	8760
WLWHG02	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	8760
WLWHG06	3.84E-01	4.57E-01	4.57E-01	3.47E-02	3.47E-02	3.47E-02	3.09E-02	3.09E-02	3.09E-02	8760
WLWFGLP	4.15E-02	4.94E-02	4.94E-02	3.76E-03	3.76E-03	3.76E-03	3.34E-03	3.34E-03	3.34E-03	8760
WLWFGHP	4.15E-02	4.94E-02	4.94E-02	3.76E-03	3.76E-03	3.76E-03	3.34E-03	3.34E-03	3.34E-03	8760
WCFOPSDS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WCFOPSTSO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTUD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTLD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSFUGD	0.00E+00	0.00E+00	0.00E+00	3.45E-02	5.17E-03	5.17E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCPWRGENN1	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WOCPWRGENN2	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WOCPWRGENN3	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WLWIG01S	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	7300
WLWIG02S	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	7300
WLWHL05S	5.93E-03	2.37E-02	2.37E-02	2.82E-03	2.53E-03	2.53E-03	2.54E-04	2.54E-04	2.54E-04	8760
WOCOPSTJFS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WOCOPSTHCS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WOCOPSTDS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WILLOWAIR1S	9.89E-08	5.36E-08	5.36E-08	1.85E-09	1.85E-09	1.85E-09	7.10E-09	7.10E-09	7.10E-09	8760
WILLOWAIR2S	9.89E-08	5.36E-08	5.36E-08	1.85E-09	1.85E-09	1.85E-09	7.10E-09	7.10E-09	7.10E-09	8760
WILLOWAIR3S	9.89E-08	5.36E-08	5.36E-08	1.85E-09	1.85E-09	1.85E-09	7.10E-09	7.10E-09	7.10E-09	8760
WOCOPSFUGDS	0.00E+00	0.00E+00	0.00E+00	2.08E-01	3.12E-02	3.12E-02	0.00E+00	0.00E+00	0.00E+00	4380
WCFPCE1	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE2	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE3	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE4	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE5	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE6	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE7	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFSCE1	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE2	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE3	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WCFSCE4	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE5	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE6	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE7	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFNRE1	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE2	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE3	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE4	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE5	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE6	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE7	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WLW2GEN	1.19E-01	5.87E-01	6.08E-01	3.46E-02	3.46E-02	3.53E-02	3.51E-04	3.51E-04	3.51E-04	8760
BT3NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	876
BT3WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	288
3WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
BT1NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	876
BT1WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	288
1WELLINTE	1.31E-03	5.26E-03	2.07E-03	6.26E-04	5.60E-04	2.21E-04	5.60E-05	5.60E-05	2.21E-05	288
BT2NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	876
BT2WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	288
2WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
BT4NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	876
BT4WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	288
4WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
BT5NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	876
BT5WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	288
5WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
WOCPCES	7.88E-08	3.56E-07	3.56E-07	2.83E-08	2.75E-08	2.75E-08	7.86E-10	7.86E-10	7.86E-10	8760
WOCSCES	6.12E-08	1.07E-07	1.07E-07	8.44E-09	8.44E-09	8.44E-09	7.50E-09	7.50E-09	7.50E-09	8760
WOCNRES	5.55E-07	2.47E-06	1.86E-06	2.08E-07	1.99E-07	1.35E-07	7.98E-09	7.98E-09	1.46E-09	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1TAIL1	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	8760
1TAIL2	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	8760
1TAIL3	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	8760
1TAIL4	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	8760
1TAIL5	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	8760
1TAIL6	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	8760
2TAIL1	1.34E-05	1.16E-05	2.04E-05	1.41E-06	5.49E-07	9.77E-07	5.76E-08	5.76E-08	1.14E-07	8760
2TAIL2	1.34E-05	1.16E-05	2.04E-05	1.41E-06	5.49E-07	9.77E-07	5.76E-08	5.76E-08	1.14E-07	8760
2TAIL3	1.34E-05	1.16E-05	2.04E-05	1.41E-06	5.49E-07	9.77E-07	5.76E-08	5.76E-08	1.14E-07	8760
2TAIL4	1.34E-05	1.16E-05	2.04E-05	1.41E-06	5.49E-07	9.77E-07	5.76E-08	5.76E-08	1.14E-07	8760
2TAIL5	1.34E-05	1.16E-05	2.04E-05	1.41E-06	5.49E-07	9.77E-07	5.76E-08	5.76E-08	1.14E-07	8760
2TAIL6	1.34E-05	1.16E-05	2.04E-05	1.41E-06	5.49E-07	9.77E-07	5.76E-08	5.76E-08	1.14E-07	8760
3TAIL1	1.15E-05	9.95E-06	1.75E-05	1.20E-06	4.71E-07	8.38E-07	4.93E-08	4.93E-08	9.74E-08	8760
3TAIL2	1.15E-05	9.95E-06	1.75E-05	1.20E-06	4.71E-07	8.38E-07	4.93E-08	4.93E-08	9.74E-08	8760
3TAIL3	1.15E-05	9.95E-06	1.75E-05	1.20E-06	4.71E-07	8.38E-07	4.93E-08	4.93E-08	9.74E-08	8760
3TAIL4	1.15E-05	9.95E-06	1.75E-05	1.20E-06	4.71E-07	8.38E-07	4.93E-08	4.93E-08	9.74E-08	8760
3TAIL5	1.15E-05	9.95E-06	1.75E-05	1.20E-06	4.71E-07	8.38E-07	4.93E-08	4.93E-08	9.74E-08	8760
3TAIL6	1.15E-05	9.95E-06	1.75E-05	1.20E-06	4.71E-07	8.38E-07	4.93E-08	4.93E-08	9.74E-08	8760
3TAIL7	1.15E-05	9.95E-06	1.75E-05	1.20E-06	4.71E-07	8.38E-07	4.93E-08	4.93E-08	9.74E-08	8760
4TAIL1	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	8760
4TAIL2	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	8760
4TAIL3	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	8760
4TAIL4	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	8760
4TAIL5	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	8760
4TAIL6	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	8760
4TAIL7	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	8760
5TAIL1	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	8760
5TAIL2	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	8760
5TAIL3	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	8760
5TAIL4	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
5TAIL5	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	8760
5TAIL6	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	8760
5TAIL7	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	8760
WOCSTAIL1	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL2	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL3	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL4	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL5	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL6	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL7	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL8	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL9	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL10	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL11	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL12	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL13	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL14	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL15	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL16	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL17	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL18	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL19	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL20	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL21	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL22	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL23	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL24	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL25	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL26	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL27	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCSTAIL28	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL29	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL30	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL31	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL32	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL33	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL34	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL35	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL36	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL37	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL38	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL39	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL40	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL41	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL42	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCSTAIL43	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
AIRSTAIL1	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
AIRSTAIL2	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
AIRSTAIL3	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
AIRSTAIL4	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
AIRSTAIL5	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
AIRSTAIL6	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
AIRSTAIL7	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	8760
WOCNTAIL1	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL2	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL3	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL4	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL5	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL6	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL7	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCNTAIL8	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL9	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL10	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL11	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL12	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL13	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL14	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL15	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL16	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL17	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL18	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL19	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL20	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL21	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL22	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL23	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL24	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL25	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL26	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL27	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL28	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL29	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL30	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WOCNTAIL31	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
AIRNTAIL1	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
AIRNTAIL2	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
AIRNTAIL3	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
AIRNTAIL4	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
AIRNTAIL5	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
AIRNTAIL6	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
AIRNTAIL7	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	8760
WCFTAIL1	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL2	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL3	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL4	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL5	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL6	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL7	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL8	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL9	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL10	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL11	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL12	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL13	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL14	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL15	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL16	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL17	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL18	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL19	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
WCFTAIL20	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	5.22E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	5.22E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	5.22E-04	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	5.22E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	5.22E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	5.22E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	4.47E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	4.47E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	4.47E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	4.47E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	4.47E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	4.47E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD7	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	4.47E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD7	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD7	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD5	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD6	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WCFMFUGD7	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD8	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD9	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD10	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD11	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD12	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD13	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD14	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD15	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD16	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD17	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD18	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD19	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD20	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD5	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD6	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD7	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD8	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD9	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD10	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD11	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD12	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD13	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD14	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD15	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD16	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCSMFUGD17	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD18	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD19	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD20	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD21	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD22	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD23	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD24	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD25	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD26	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD27	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD28	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD29	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD30	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD31	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD32	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD33	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD34	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD35	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD36	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD37	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD38	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD39	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD40	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD41	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD42	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD43	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRSMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRSMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRSMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
AIRSMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRSMFUGD5	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRSMFUGD6	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRSMFUGD7	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCTEMPTRBS1	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	8760
WOCTEMPTRBS2	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	8760
WOCTEMPTRBN1	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	8760
WOCTEMPTRBN2	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	8760
WOCPCEN	7.88E-08	3.56E-07	3.56E-07	2.83E-08	2.75E-08	2.75E-08	7.86E-10	7.86E-10	7.86E-10	8760
WOCSCEN	6.12E-08	1.07E-07	1.07E-07	8.44E-09	8.44E-09	8.44E-09	7.50E-09	7.50E-09	7.50E-09	8760
WOCNREN	5.55E-07	2.47E-06	1.86E-06	2.08E-07	1.99E-07	1.35E-07	7.98E-09	7.98E-09	1.46E-09	8760
WOCNMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.78E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD5	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD6	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD7	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD8	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD9	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD10	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD11	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD12	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD13	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD14	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD15	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD16	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD17	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD18	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD19	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCNMFUGD20	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD21	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD22	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD23	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD24	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD25	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD26	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD27	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD28	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD29	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD30	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD31	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRNMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRNMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRNMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRNMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRNMFUGD5	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRNMFUGD6	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRNMFUGD7	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WILLOWAIR1N	2.10E-08	7.86E-09	7.86E-09	3.04E-10	3.04E-10	3.04E-10	1.18E-09	1.18E-09	1.18E-09	8760
WILLOWAIR2N	2.10E-08	7.86E-09	7.86E-09	3.04E-10	3.04E-10	3.04E-10	1.18E-09	1.18E-09	1.18E-09	8760
WILLOWAIR3N	2.10E-08	7.86E-09	7.86E-09	3.04E-10	3.04E-10	3.04E-10	1.18E-09	1.18E-09	1.18E-09	8760
WOCOPSFUGDN	0.00E+00	0.00E+00	0.00E+00	1.64E-01	2.45E-02	2.45E-02	0.00E+00	0.00E+00	0.00E+00	4380
WOCOPSTDRS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WOCPWRGENS1	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WOCPWRGENS2	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WOCPWRGENS3	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WLWIG01N	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	7300
WLWIG02N	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	7300
WLWHL05N	5.93E-03	2.37E-02	2.37E-02	2.82E-03	2.53E-03	2.53E-03	2.54E-04	2.54E-04	2.54E-04	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCOPSTJFN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WOCOPSTHCN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WOCOPSTDN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
RFDGMT1	3.50E-01	3.50E-01	2.69E+00	3.50E-01	3.50E-01	9.50E-02	3.80E-02	3.80E-02	1.96E-02	8760
RFDGMT2	4.06E+00	7.21E+00	7.34E-01	4.06E+00	6.44E-01	7.71E-02	1.40E-02	1.40E-02	6.33E-03	8760
RFDCD5	1.82E+00	2.15E+00	2.15E+00	1.27E-01	1.27E-01	1.27E-01	2.70E-01	2.70E-01	2.70E-01	8760
RFDGWPDS1	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	8760
RFDGWPDS2	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	8760
2DRILLPEA	1.07E+00	2.05E-01	2.05E-01	9.17E-03	9.17E-03	9.17E-03	5.64E-04	5.64E-04	5.64E-04	8760
2DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
2DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
2DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
2DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
2DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
2DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
2DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
2DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
2DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
2DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
2DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
2DRILLNMHSA	2.15E-02	8.59E-02	8.59E-02	1.02E-02	9.15E-03	9.15E-03	9.15E-04	9.15E-04	9.15E-04	8760
2DRILLFLARE	1.08E+00	1.98E-01	9.38E-02	4.79E-05	4.79E-05	2.27E-05	1.16E-02	1.16E-02	5.47E-03	1728
3DRILLPEA	1.07E+00	2.05E-01	2.05E-01	9.17E-03	9.17E-03	9.17E-03	5.64E-04	5.64E-04	5.64E-04	8760
3DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
3DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
3DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
3DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
3DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
3DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
3DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
3DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
3DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
3DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
3DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
3DRILLNMHSA	2.15E-02	8.59E-02	8.59E-02	1.02E-02	9.15E-03	9.15E-03	9.15E-04	9.15E-04	9.15E-04	8760
3DRILLFLARE	1.08E+00	1.98E-01	3.91E-02	4.79E-05	4.79E-05	9.44E-06	1.16E-02	1.16E-02	2.28E-03	1728
2PADHTR1	1.35E-02	5.41E-02	4.98E-02	6.44E-03	5.76E-03	5.31E-03	5.76E-04	5.76E-04	5.31E-04	4704
2PADSHTR1	4.67E-03	1.87E-02	1.72E-02	2.22E-03	1.99E-03	1.83E-03	1.99E-04	1.99E-04	1.83E-04	4704
2PADNMGS1	1.32E-02	2.49E-02	2.29E-02	1.96E-03	1.90E-03	1.75E-03	2.13E-05	2.13E-05	1.96E-05	4704
3PADHTR1	1.35E-02	5.41E-02	4.98E-02	6.44E-03	5.76E-03	5.31E-03	5.76E-04	5.76E-04	5.31E-04	4704
3PADSHTR1	4.67E-03	1.87E-02	1.72E-02	2.22E-03	1.99E-03	1.83E-03	1.99E-04	1.99E-04	1.83E-04	4704
3PADNMGS1	1.32E-02	2.49E-02	2.29E-02	1.96E-03	1.90E-03	1.75E-03	2.13E-05	2.13E-05	1.96E-05	4704
2PADNR1	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADNR2	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADNR3	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADNR4	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR1	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR2	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR3	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR4	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADOHT1	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT2	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT3	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT4	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT1	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT2	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT3	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT4	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380
3FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380

A.2.6 Scenario 5: Routine Operations

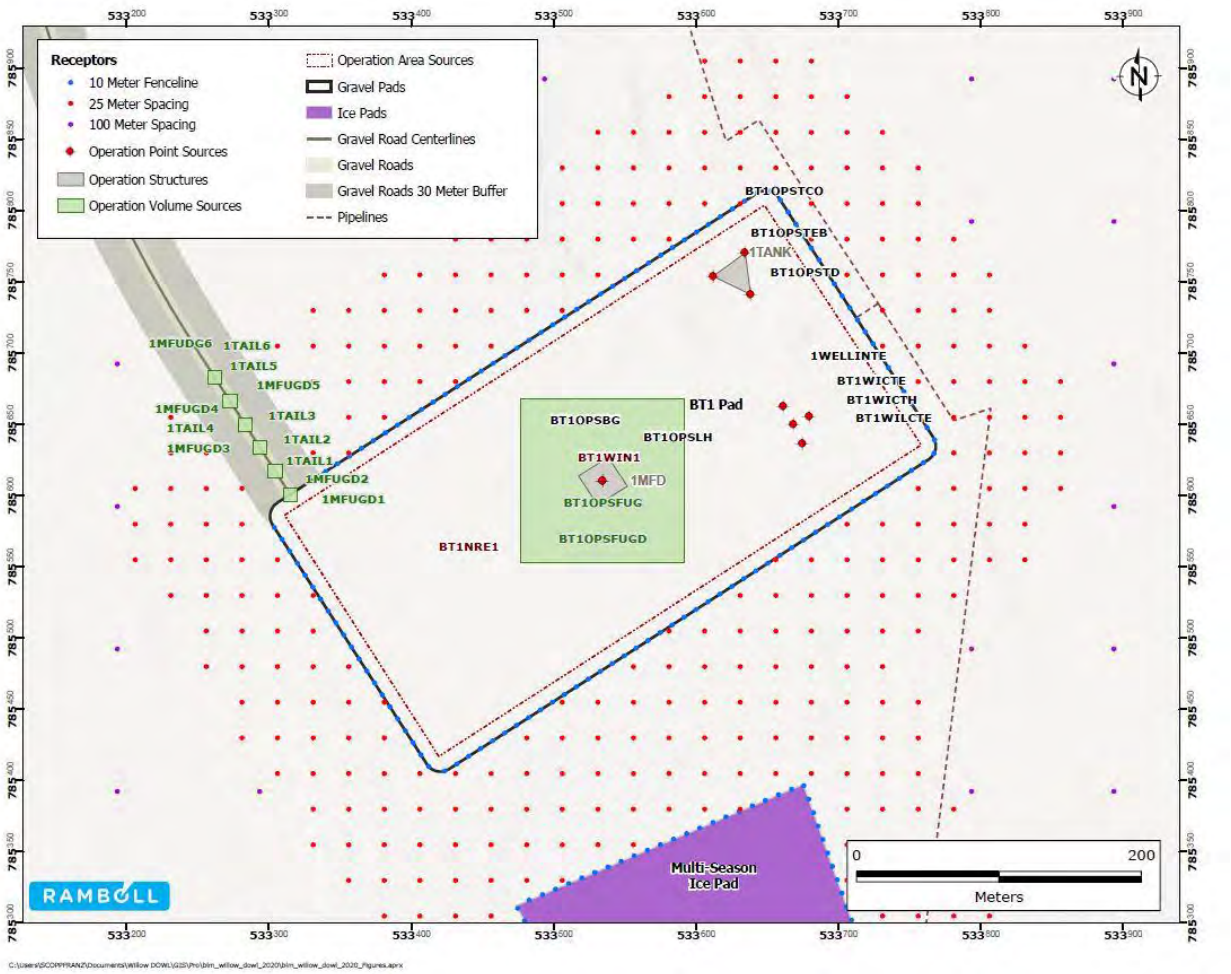


Figure A.2-18. Alternative C Near-field Model Scenario 5 Source Locations at BT1.

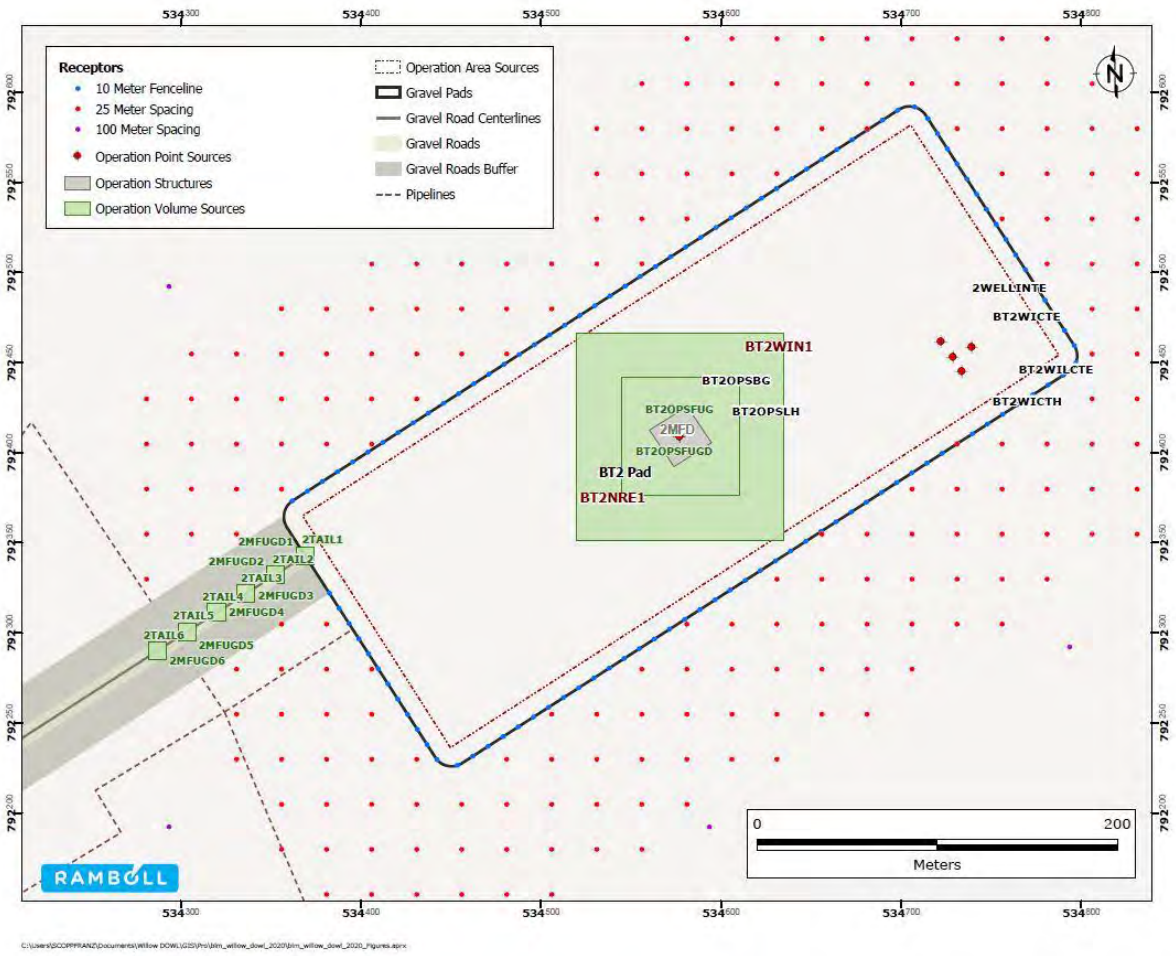


Figure A.2-19. Alternative C Near-field Model Scenario 5 Source Locations at BT2.

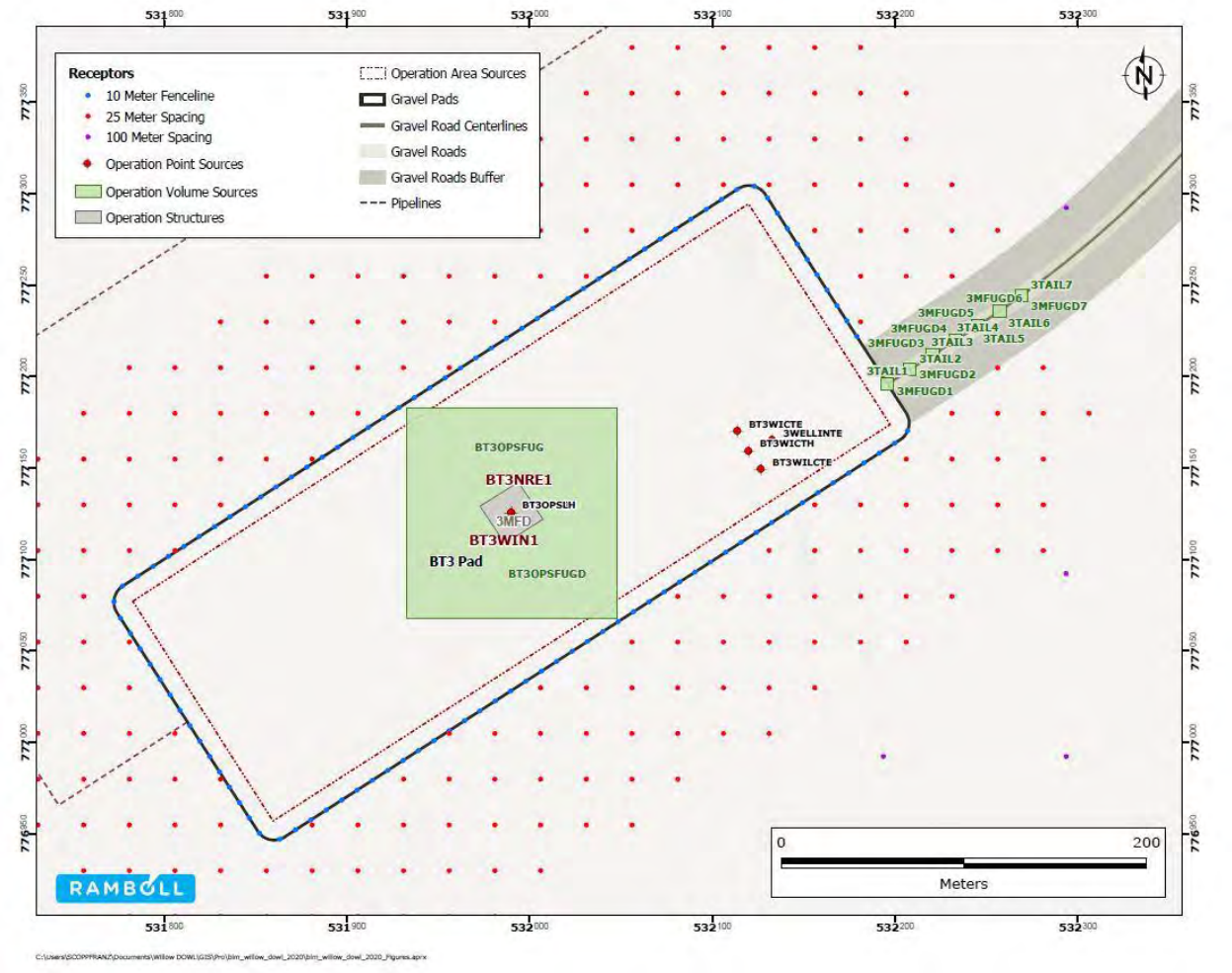


Figure A.2-20. Alternative C Near-field Model Scenario 5 Source Locations at BT3.

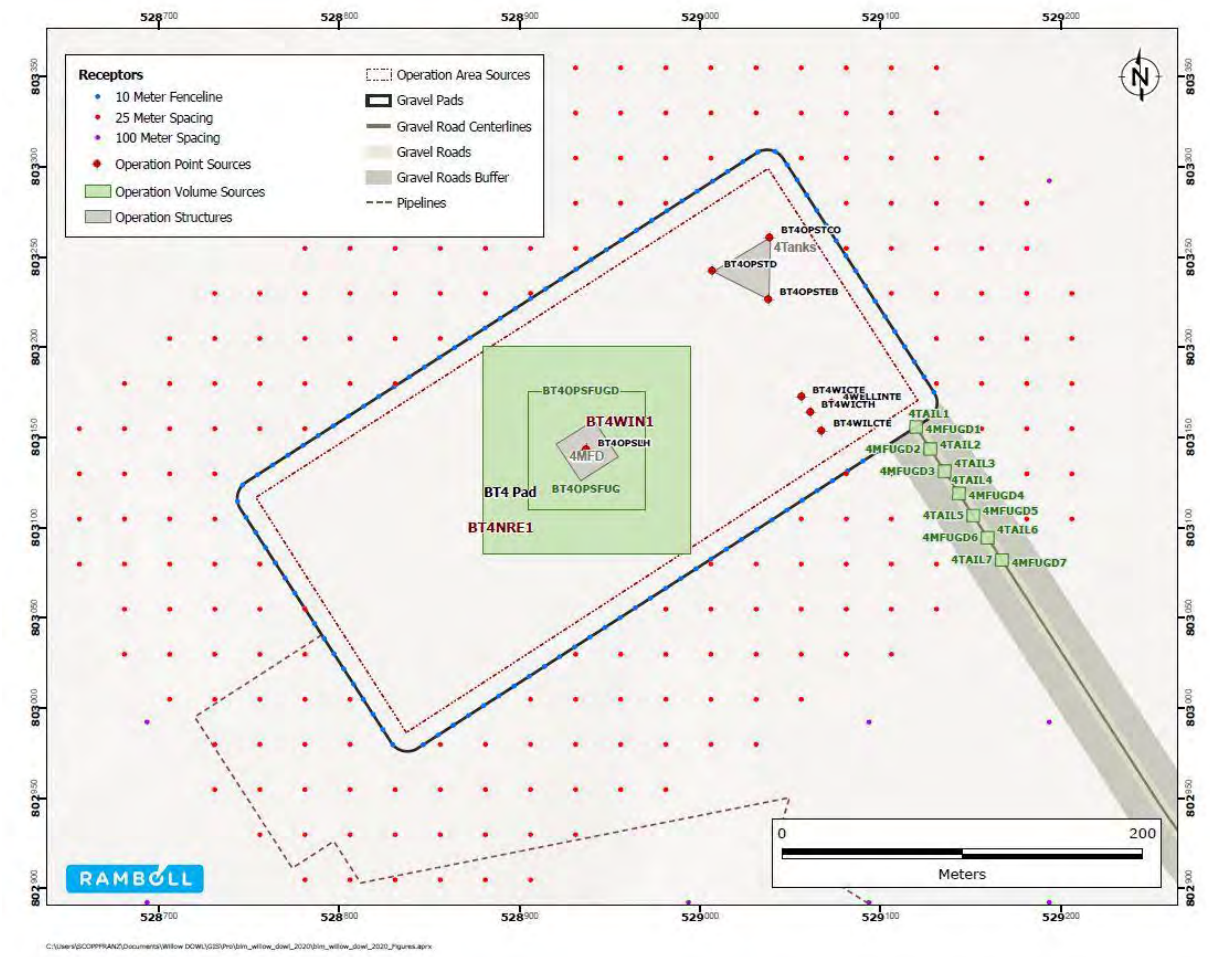


Figure A.2-21. Alternative C Near-field Model Scenario 5 Source Locations at BT4.

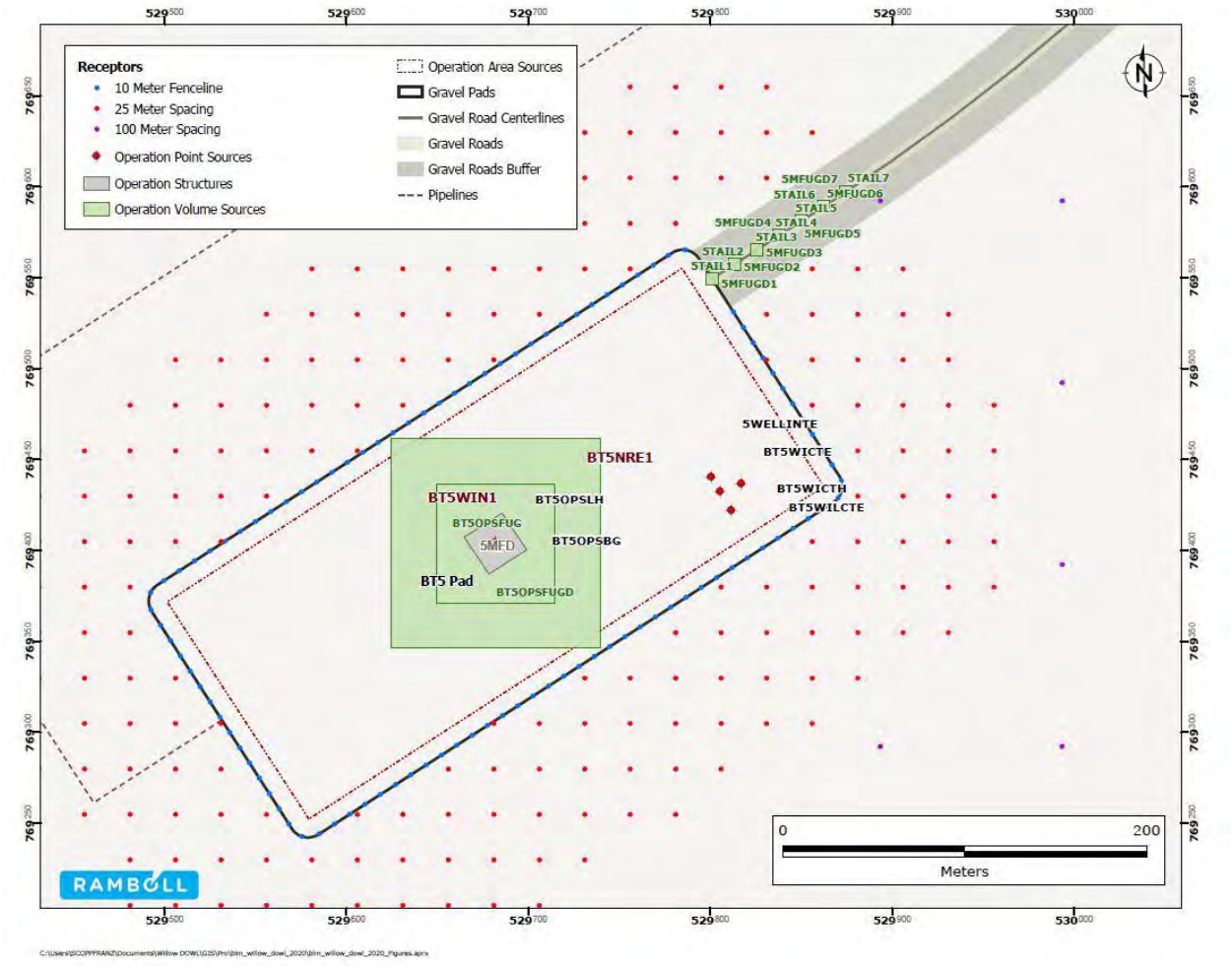


Figure A.2-22. Alternative C Near-field Model Scenario 5 Source Locations at BT5.

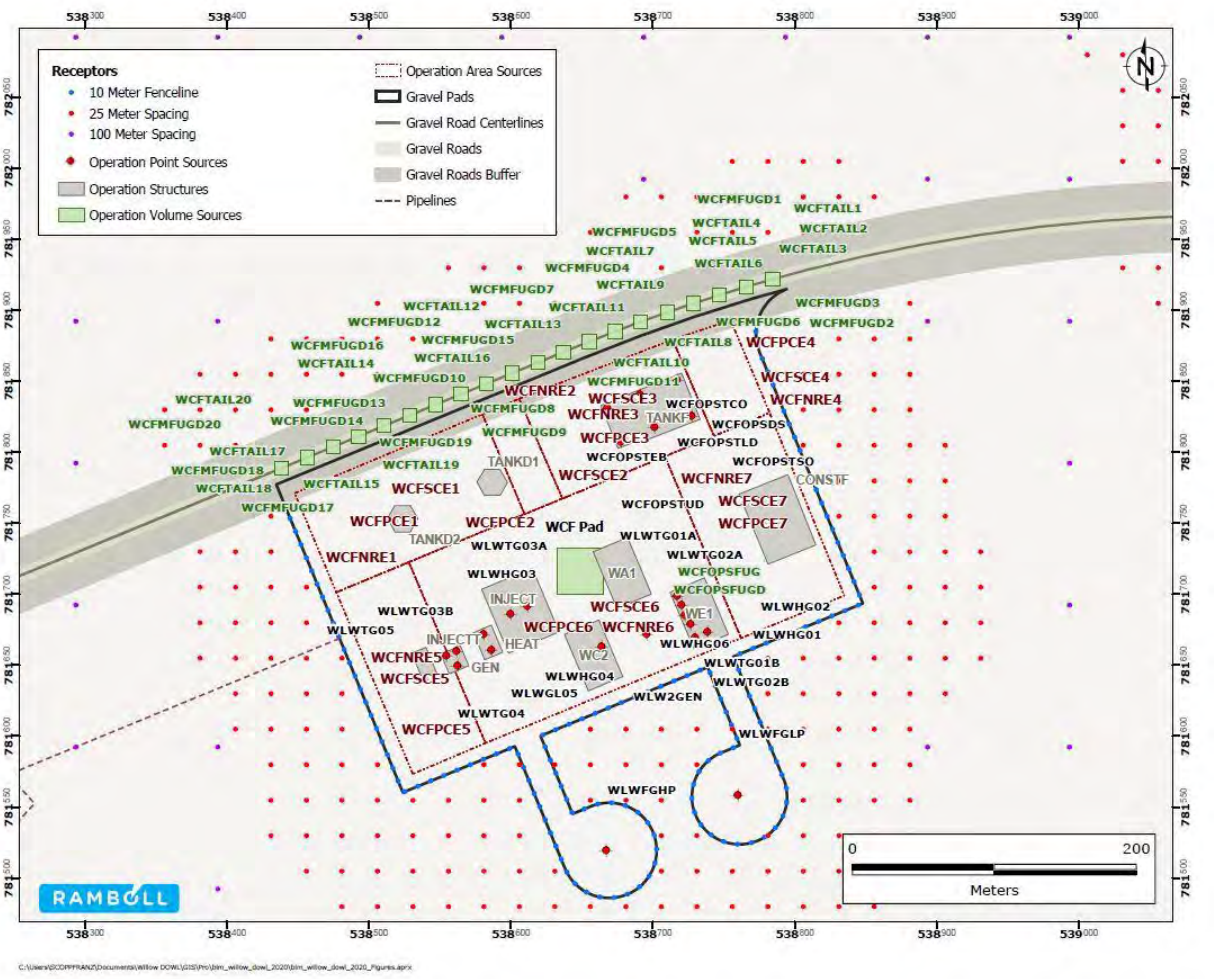


Figure A.2-23. Alternative C Near-field Model Scenario 5 Source Locations at WPF.

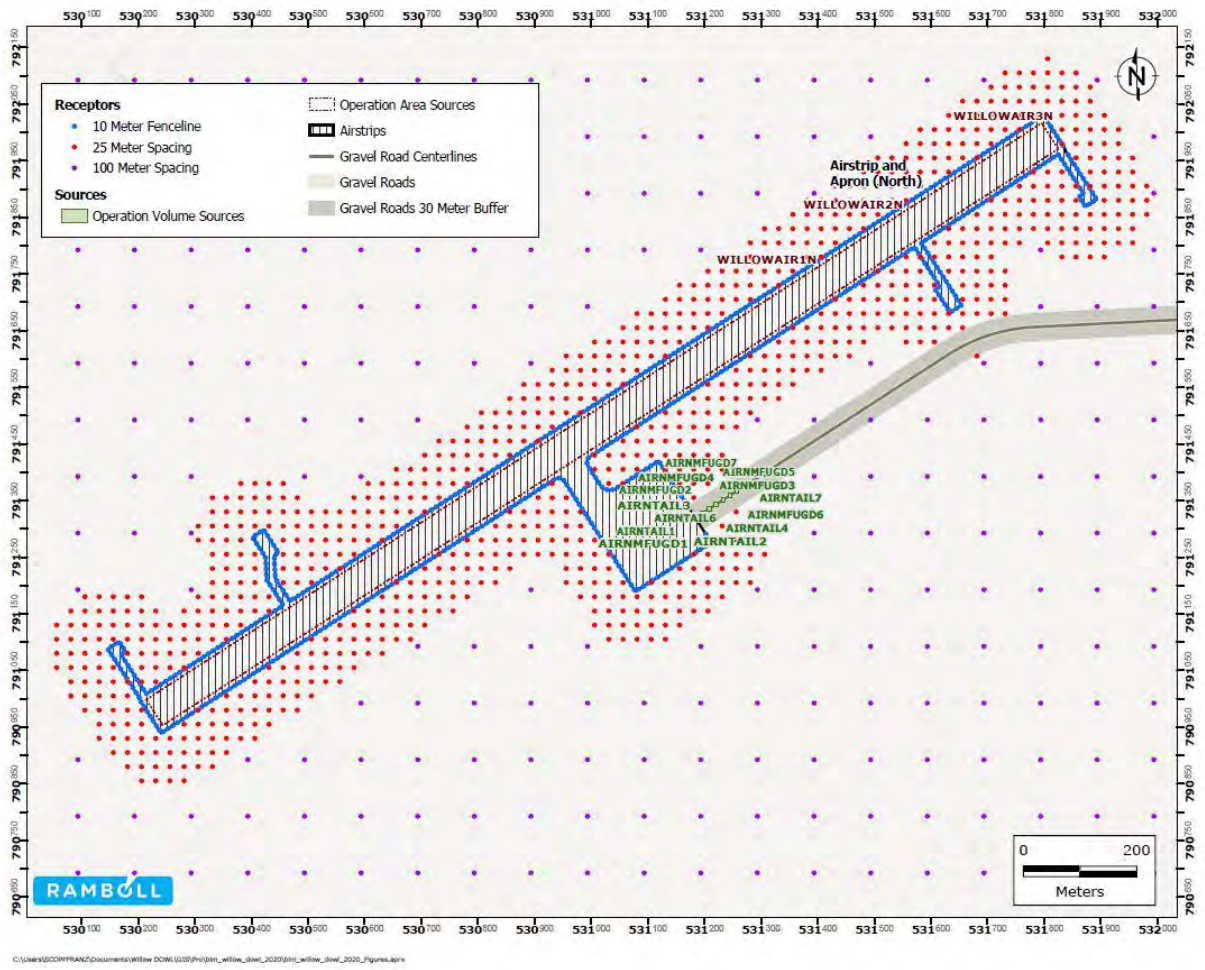


Figure A.2-24. Alternative C Near-field Model Scenario 5 Source Locations at Airstrip North.

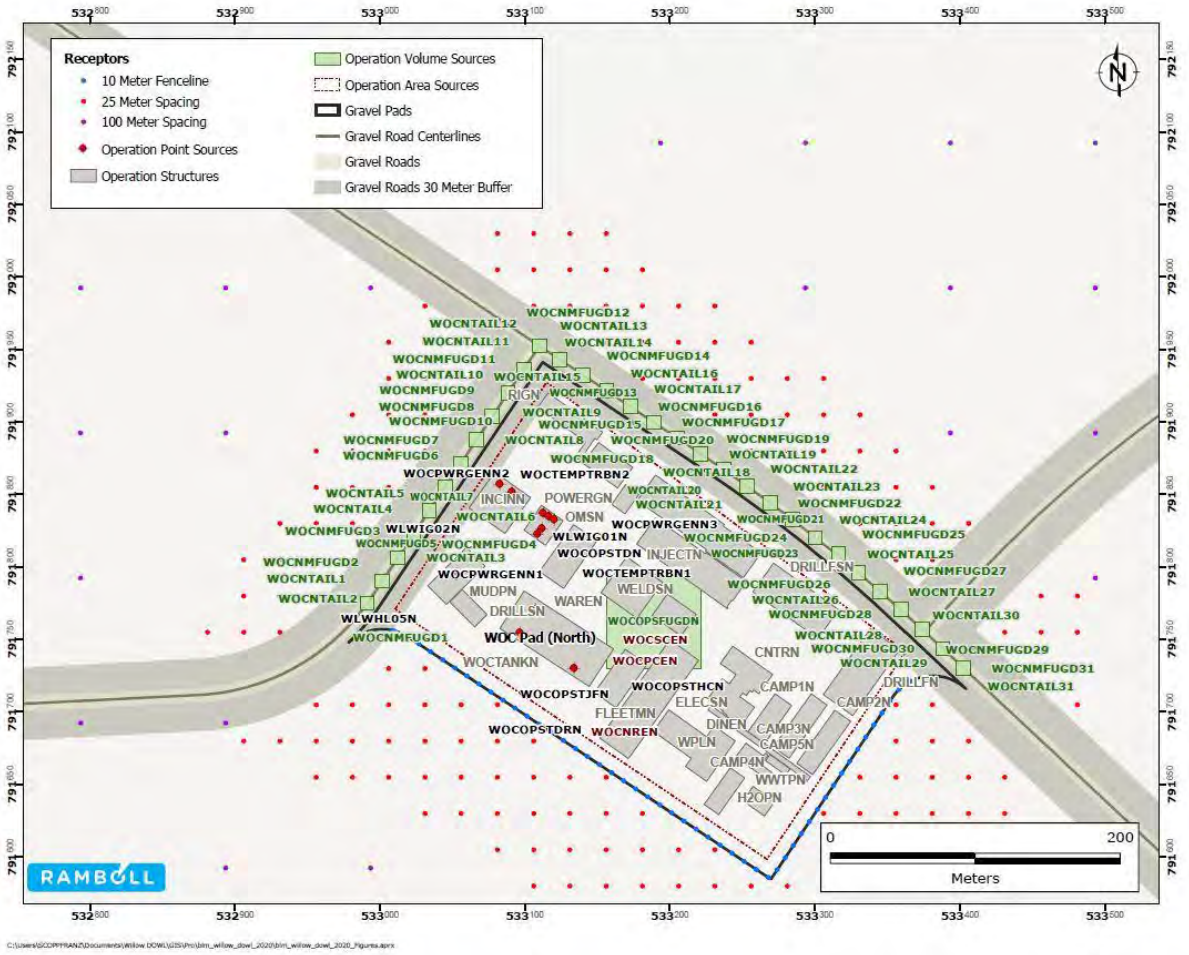


Figure A.2-25. Alternative C Near-field Model Scenario 5 Source Locations at WOC North.

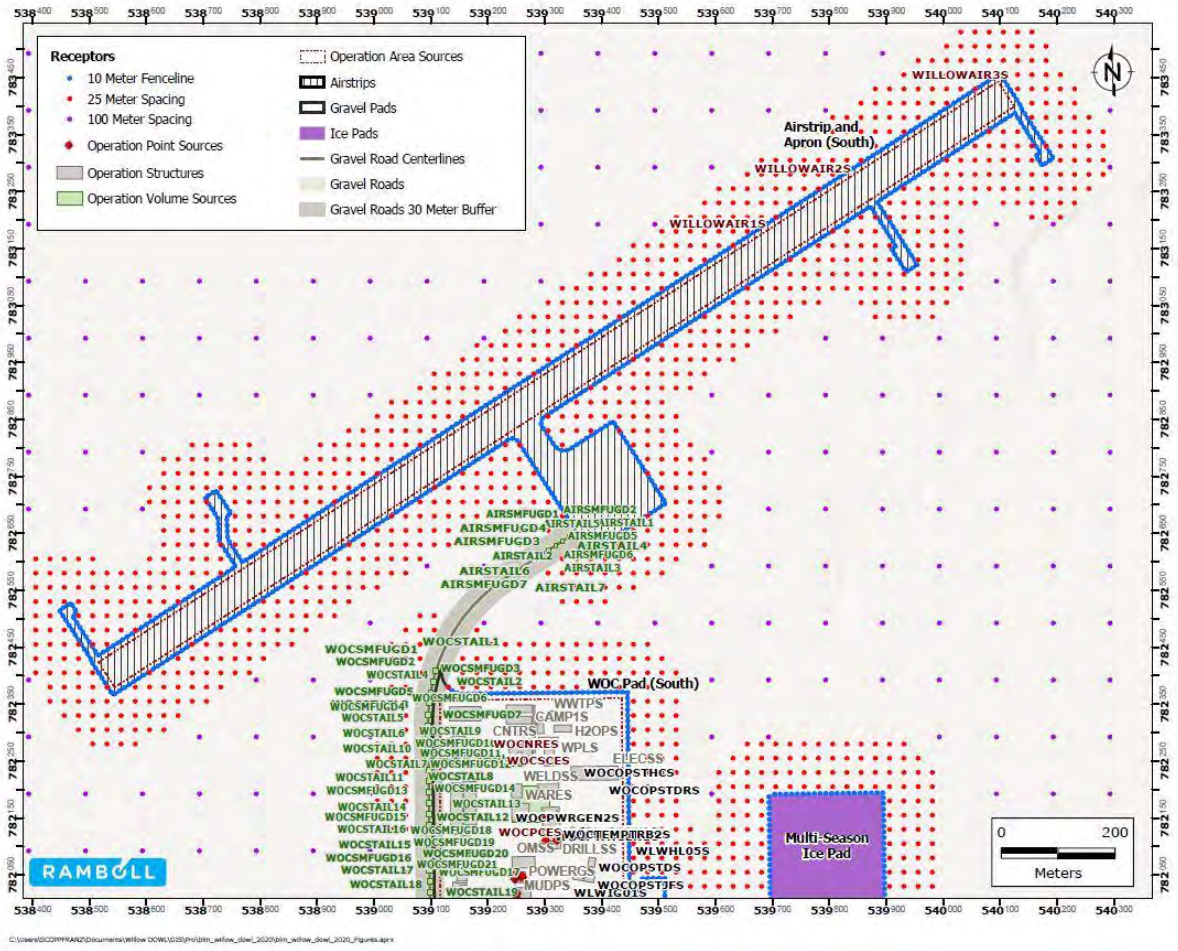


Figure A.2-26. Alternative C Near-field Model Scenario 5 Source Locations at Airstrip South.

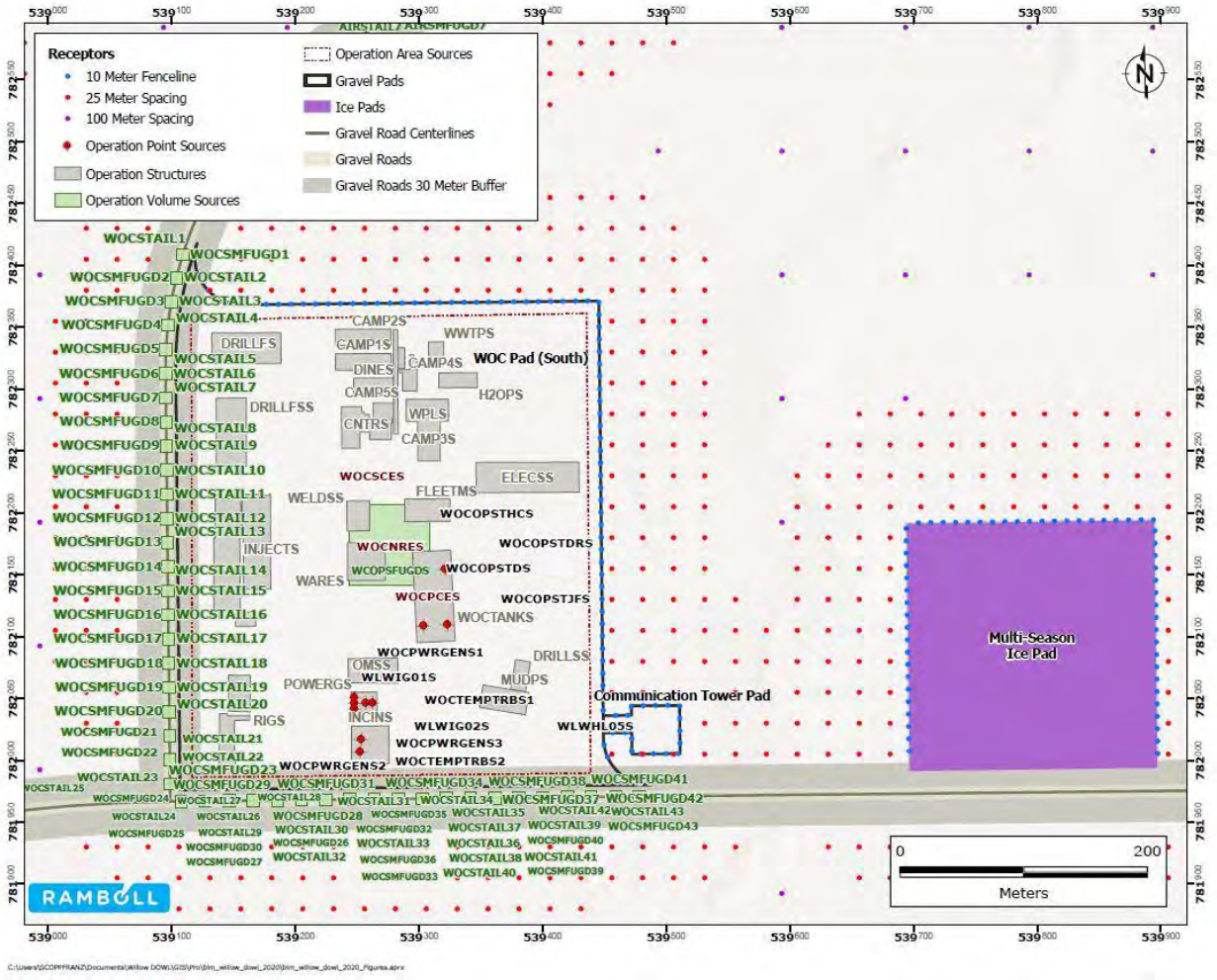


Figure A.2-27. Alternative C Near-field Model Scenario 5 Source Locations at WOC South.

Table A.2-13. Alternative C Near-field Model Scenario 5 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCOPSTDRN	POINT	WOC - Storage Tanks - VFRT/ DRA (drag reducing agent)	-	-
BT1OPSLH	POINT	BT1 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT1OPSBG	POINT	BT1 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT1OPSFUG	VOLUME	BT1 - Fugitive Components	-	-
BT1OPSFUGD	VOLUME	BT1 - Wind Erosion Fugitive Dust	-	-
BT1OPSTEB	POINT	BT1 - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
BT1OPSTD	POINT	BT1 - Storage Tanks - VFRT/ Diesel	-	-
BT1OPSTCO	POINT	BT1 - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
BT1WICTH	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT1WICTE	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Engine	0.2	Diesel tailpipe from non-road equipment
BT1WILCTE	POINT	BT1 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT2OPSLH	POINT	BT2 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT2OPSBG	POINT	BT2 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT2OPSFUG	VOLUME	BT2 - Fugitive Components	-	-
BT2OPSFUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust	-	-
BT2WICTH	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT2WICTE	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Engine	0.2	Diesel tailpipe from non-road equipment
BT2WILCTE	POINT	BT2 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT3OPSLH	POINT	BT3 - Line Heater	0	-
BT3OPSBG	POINT	BT3 - Backup Generator	0	-
BT3OPSFUG	VOLUME	BT3 - Fugitive Components	-	-
BT3OPSFUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust	-	-
BT3WICTH	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT3WICTE	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Engine	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
BT3WILCTE	POINT	BT3 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT4OPSLH	POINT	BT4 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT4OPSBG	POINT	BT4 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT4OPSFUG	VOLUME	BT4 - Fugitive Components	-	-
BT4OPSFUGD	VOLUME	BT4 - Wind Erosion Fugitive Dust	-	-
BT4OPSTEB	POINT	BT4 - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
BT4OPSTD	POINT	BT4 - Storage Tanks - VFRT/ Diesel	-	-
BT4OPSTCO	POINT	BT4 - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
BT4WICTH	POINT	BT4 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT4WICTE	POINT	BT4 - Well Intervention Main Equipment - Coil Tubing Engine	0.2	Diesel tailpipe from non-road equipment
BT4WILCTE	POINT	BT4 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT5OPSLH	POINT	BT5 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT5OPSBG	POINT	BT5 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT5OPSFUG	VOLUME	BT5 - Fugitive Components	-	-
BT5OPSFUGD	VOLUME	BT5 - Wind Erosion Fugitive Dust	-	-
BT5WICTH	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT5WICTE	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Engine	0.2	Diesel tailpipe from non-road equipment
BT5WILCTE	POINT	BT5 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
WLWTG03A	POINT	WPF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG03B	POINT	WPF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG01A	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG01B	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02A	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02B	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG04	POINT	WPF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WLWTG05	POINT	WPF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines
WLWGL05	POINT	WPF - Stationary Combustion Sources - Black Start Engine	0.2	Diesel tailpipe from non-road equipment
WLWHG03	POINT	WPF - Stationary Combustion Sources - Crude Production Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG04	POINT	WPF - Stationary Combustion Sources - Crude Production Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG01	POINT	WPF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG02	POINT	WPF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG06	POINT	WPF - Stationary Combustion Sources - Hot Oil Heater	0.05	Diesel or natural gas heaters, or boiler
WLWFGLP	POINT	WPF - Stationary Combustion Sources - LP Flare (pilot/purge/assist)	0.5	USEPA default value
WLWFGHP	POINT	WPF - Stationary Combustion Sources - HP Flare (pilot/purge/assist)	0.5	USEPA default value
WCFOPSDS	POINT	WPF - Stationary Combustion Sources - Diesel Fueling Station	-	-
WCFOPSTSO	POINT	WPF - Storage Tanks - VFRT/ Slop Oil	-	-
WCFOPSTCO	POINT	WPF - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
WCFOPSTUD	POINT	WPF - Storage Tanks - VFRT/ ULSD	-	-
WCFOPSTLD	POINT	WPF - Storage Tanks - VFRT/ LEPD	-	-
WCFOPSTEB	POINT	WPF - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
WCFOPSFUG	VOLUME	WPF - Fugitive Equipment Leaks	-	-
WCFOPSFUGD	VOLUME	WPF - Wind Erosion Fugitive Dust	-	-
WOCPWRGENN1	POINT	WOC - Stationary Combustion Sources N - Power Generation	0.1	Diesel engines
WOCPWRGENN2	POINT	WOC - Stationary Combustion Sources N - Power Generation	0.1	Diesel engines
WOCPWRGENN3	POINT	WOC - Stationary Combustion Sources N - Power Generation	0.1	Diesel engines
WLWIG01S	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value
WLWIG02S	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value
WLWHL05S	POINT	WOC - Stationary Combustion Sources - Mud Plant Glycol Boiler	0.05	Diesel or natural gas heaters, or boiler
WOCOPSTJFS	POINT	WOC - Storage Tanks - VFRT/ Aircraft Jet Fuel	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCOPSTHCS	POINT	WOC - Storage Tanks - VFRT/ Hydrocarbon	-	-
WOCOPSTDS	POINT	WOC - Storage Tanks - VFRT/ Diesel	-	-
WILLOWAIR1S	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 50.8m	0.5	USEPA default value
WILLOWAIR2S	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 152.4m	0.5	USEPA default value
WILLOWAIR3S	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 254m	0.5	USEPA default value
WOCOPSFUGDS	VOLUME	WOC - Wind Erosion Fugitive Dust - Wind Erosion	-	-
WCFPCE1	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE2	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE3	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE4	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE5	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE6	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE7	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE1	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE2	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE3	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE4	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE5	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFSCE6	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE7	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFNRE1	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE2	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE3	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE4	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE5	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE6	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE7	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WLW2GEN	POINT	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines >140 HP	0.15	Diesel tailpipe from non-road equipment
BT3NRE1	AREAPOLY	BT3 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT3WIN1	AREAPOLY	BT3 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
3WELLINTE	POINT	BT3 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
BT1NRE1	AREAPOLY	BT1 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT1WIN1	AREAPOLY	BT1 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
1WELLINTE	POINT	BT1 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
BT2NRE1	AREAPOLY	BT2 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT2WIN1	AREAPOLY	BT2 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
2WELLINTE	POINT	BT2 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
BT4NRE1	AREAPOLY	BT4 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT4WIN1	AREAPOLY	BT4 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
4WELLINTE	POINT	BT4 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
BT5NRE1	AREAPOLY	BT5 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT5WIN1	AREAPOLY	BT5 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
5WELLINTE	POINT	BT5 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
WOCPCES	AREAPOLY	WOC - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCSCES	AREAPOLY	WOC - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCNRES	AREAPOLY	WOC - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
1TAIL1	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL6	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
2TAIL1	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL4	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL5	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL6	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
3TAIL1	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL2	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL3	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
3TAIL4	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL5	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL6	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL7	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
4TAIL1	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL2	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL3	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL4	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL5	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL6	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL7	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
5TAIL1	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL2	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL3	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL4	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL5	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL6	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL7	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCSTAIL8	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL9	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL10	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL11	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL12	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL13	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL14	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL15	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL16	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL17	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL18	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL19	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL20	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL21	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL22	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL23	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL24	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL25	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL26	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL27	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL28	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL29	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL30	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL31	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL32	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCSTAIL33	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL34	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL35	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL36	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL37	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL38	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL39	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL40	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL41	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL42	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCSTAIL43	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRSTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRSTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRSTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRSTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRSTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRSTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRSTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCNTAIL8	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL9	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL10	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL11	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL12	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL13	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL14	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL15	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL16	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL17	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL18	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL19	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL20	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL21	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL22	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL23	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL24	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL25	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL26	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL27	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL28	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL29	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL30	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCNTAIL31	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRNTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
AIRNTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRNTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRNTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRNTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRNTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRNTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL1	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL2	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL3	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL4	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL5	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL6	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL7	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL8	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL9	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL10	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL11	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL12	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL13	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL14	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL15	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL16	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL17	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL18	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL19	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFTAIL20	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
3MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
4MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
4MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
5MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
WCFMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD8	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD9	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD10	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD11	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD12	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD13	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD14	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD15	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD16	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFMFUGD17	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD18	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD19	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD20	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WOCSMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD8	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD9	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD10	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD11	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD12	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD13	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD14	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD15	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD16	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD17	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD18	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD19	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD20	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD21	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCSMFUGD22	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD23	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD24	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD25	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD26	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD27	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD28	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD29	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD30	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD31	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD32	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD33	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD34	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD35	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD36	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD37	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD38	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD39	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD40	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD41	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD42	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCSMFUGD43	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRSMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRSMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRSMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
AIRSMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRSMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRSMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRSMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCTEMPTRBS1	POINT	WOC - Stationary Combustion Sources	0.3	-
WOCTEMPTRBS2	POINT	WOC - Stationary Combustion Sources	0.3	-
WOCTEMPTRBN1	POINT	WOC - Stationary Combustion Sources N	0.3	-
WOCTEMPTRBN2	POINT	WOC - Stationary Combustion Sources N	0.3	-
WOCPCEN	AREAPOLY	WOC - Non-mobile Support Equipment N	0.05	Diesel or natural gas heaters, or boiler
WOCSCEN	AREAPOLY	WOC - Non-mobile Support Equipment N	0.05	Diesel or natural gas heaters, or boiler
WOCNREN	AREAPOLY	WOC - Non-mobile Support Equipment N	0.2	Diesel tailpipe from non-road equipment
WOCNMFUGD1	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD2	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD3	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD4	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD5	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD6	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD7	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD8	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD9	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD10	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD11	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD12	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD13	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD14	VOLUME	Mobile Equipment Fugitive Dust	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCNMFUGD15	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD16	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD17	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD18	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD19	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD20	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD21	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD22	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD23	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD24	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD25	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD26	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD27	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD28	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD29	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD30	VOLUME	Mobile Equipment Fugitive Dust	-	-
WOCNMFUGD31	VOLUME	Mobile Equipment Fugitive Dust	-	-
AIRNMFUGD1	VOLUME	Mobile Equipment Fugitive Dust	-	-
AIRNMFUGD2	VOLUME	Mobile Equipment Fugitive Dust	-	-
AIRNMFUGD3	VOLUME	Mobile Equipment Fugitive Dust	-	-
AIRNMFUGD4	VOLUME	Mobile Equipment Fugitive Dust	-	-
AIRNMFUGD5	VOLUME	Mobile Equipment Fugitive Dust	-	-
AIRNMFUGD6	VOLUME	Mobile Equipment Fugitive Dust	-	-
AIRNMFUGD7	VOLUME	Mobile Equipment Fugitive Dust	-	-
WILLOWAIR1N	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) N	0.5	USEPA default value

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WILLOWAIR2N	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) N	0.5	USEPA default value
WILLOWAIR3N	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) N	0.5	USEPA default value
WOCOPSFUGDN	VOLUME	WOC - Wind Erosion Fugitive Dust N	-	-
WOCOPSTDRS	POINT	WOC - Storage Tanks N	-	-
WOCPWRGENS1	POINT	WOC - Stationary Combustion Sources	0.1	Diesel engines
WOCPWRGENS2	POINT	WOC - Stationary Combustion Sources	0.1	Diesel engines
WOCPWRGENS3	POINT	WOC - Stationary Combustion Sources	0.1	Diesel engines
WLWIG01N	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value
WLWIG02N	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value
WLWHL05N	POINT	WOC - Stationary Combustion Sources N	0.05	Diesel or natural gas heaters, or boiler
WOCOPSTJFN	POINT	WOC - Storage Tanks N	-	-
WOCOPSTHCN	POINT	WOC - Storage Tanks N	-	-
WOCOPSTDN	POINT	WOC - Storage Tanks N	-	-
RFDGMT1	POINT	RFD - GMT1	0.2	Reasonable Foreseeable Development
RFDGMT2	POINT	RFD - GMT2	0.2	Reasonable Foreseeable Development
RFDCD5	POINT	RFD - CD5	0.2	Reasonable Foreseeable Development
RFDGWPDS1	POINT	RFD - Greater Willow Project Drill Site #1	0.15	Reasonable Foreseeable Development
RFDGWPDS2	POINT	RFD - Greater Willow Project Drill Site #2	0.15	Reasonable Foreseeable Development

Table A.2-14. Alternative C Near-field Model Scenario 5 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCOPSTDRN	POINT	3.05	5.4864	0.1016	1.67652176	294.2611111	-	-	-	-	-
BT1OPSLH	POINT	2.7432	12.8	0.94	5.7	529	-	-	-	-	-
BT1OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT1OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT1OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT1OPSTEB	POINT	2.7432	5.4864	0.1016	1.67652176	283.15	-	-	-	-	-
BT1OPSTD	POINT	2.7432	5.4864	0.1016	1.67652176	299.8166667	-	-	-	-	-
BT1OPSTCO	POINT	2.7432	5.4864	0.1016	1.67652176	277.5944444	-	-	-	-	-
BT1WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT1WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT1WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2OPSLH	POINT	2.7432	12.8	0.94	5.7	529	-	-	-	-	-
BT2OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT2OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT2OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT2WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT3OPSLH	POINT	2.7432	12.8	0.94	5.7	529	-	-	-	-	-
BT3OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT3OPSFUG	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
BT3OPSFUGD	VOLUME	3.66	3.7	-	-	-	26.74	3.38	-	-	-
BT3WICTH	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
BT3WICTE	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT3WILCTE	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT4OPSLH	POINT	2.7432	12.8	0.94	5.7	529	-	-	-	-	-
BT4OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT4OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT4OPSFUGD	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT4OPSTEB	POINT	2.7432	5.4864	0.1016	1.67652176	283.15	-	-	-	-	-
BT4OPSTD	POINT	2.7432	5.4864	0.1016	1.67652176	299.8166667	-	-	-	-	-
BT4OPSTCO	POINT	2.7432	5.4864	0.1016	1.67652176	277.5944444	-	-	-	-	-
BT4WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT4WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT4WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT5OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT5OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT5OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT5WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
WLWTG03A	POINT	3.66	25	2	30	370	-	-	-	-	-
WLWTG03B	POINT	3.66	25	2	30	370	-	-	-	-	-
WLWTG01A	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG01B	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG02A	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG02B	POINT	3.66	30	2	35	370	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WLWTG04	POINT	3.66	25	2	30	550	-	-	-	-	-
WLWTG05	POINT	3.66	25	2	30	550	-	-	-	-	-
WLWGL05	POINT	3.66	8	0.3	20	760	-	-	-	-	-
WLWHG03	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG04	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG01	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG02	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG06	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWFGLP	POINT	3.66	25	0.2	20	1273	-	-	-	-	-
WLWFGHP	POINT	3.66	25	0.2	20	1273	-	-	-	-	-
WCFOPSDS	POINT	3.66	5.5	0.1	1.68	0	-	-	-	-	-
WCFOPSTSO	POINT	3.66	5.4864	0.1016	1.67652176	319.2611111	-	-	-	-	-
WCFOPSTCO	POINT	3.66	5.4864	0.1016	1.67652176	277.5944444	-	-	-	-	-
WCFOPSTUD	POINT	3.66	12.8016	0.1524	0.74512078	299.8166667	-	-	-	-	-
WCFOPSTLD	POINT	3.66	5.4864	0.1016	1.67652176	299.8166667	-	-	-	-	-
WCFOPSTEB	POINT	3.66	5.4864	0.1016	1.67652176	283.15	-	-	-	-	-
WCFOPSFUG	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
WCFOPSFUGD	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
WOCPWRGENN1	POINT	3.05	15	0.3	20	760	-	-	-	-	-
WOCPWRGENN2	POINT	3.05	15	0.3	20	760	-	-	-	-	-
WOCPWRGENN3	POINT	3.05	15	0.3	20	760	-	-	-	-	-
WLWIG01S	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWIG02S	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWHL05S	POINT	3.05	13.19	0.3	10	525	-	-	-	-	-
WOCOPSTJFS	POINT	3.05	5.4864	0.1016	1.67652176	283.15	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCOPSTHCS	POINT	3.05	5.4864	0.1016	1.67652176	0	-	-	-	-	-
WOCOPSTDS	POINT	3.05	5.4864	0.1016	1.67652176	299.8166667	-	-	-	-	-
WILLOWAIR1S	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-
WILLOWAIR2S	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-
WILLOWAIR3S	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-
WOCOPSFUGDS	VOLUME	3.05	3.7	-	-	-	9.07	3.38	-	-	-
WCFPCE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFPCE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFPCE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFPCE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFSCE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFSCE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFSCE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFNRE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFNRE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WCFNRE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFNRE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WLW2GEN	POINT	3.66	6.1	0.46	15.1	795	-	-	-	-	-
BT3NRE1	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
BT3WIN1	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
3WELLINTE	POINT	3.66	6.1	0.46	15.1	795	-	-	-	-	-
BT1NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT1WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
1WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT2NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT2WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
2WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT4NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT4WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
4WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT5NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT5WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
5WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
WOCPCES	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCSCES	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCNRES	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
1TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
5TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WOCSTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCSTAIL22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL32	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL33	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL34	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL35	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL36	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL37	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL38	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL39	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL40	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL41	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL42	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSTAIL43	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRSTAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSTAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSTAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
AIRSTAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSTAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSTAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSTAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WOCNTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCNTAIL22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNTAIL31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRNTAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNTAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNTAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNTAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNTAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNTAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNTAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WCFTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WCFTAIL9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
3MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
3MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WCFMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WCFMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCSMFUGD11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD32	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD33	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD34	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD35	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCSMFUGD36	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD37	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD38	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD39	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD40	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD41	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD42	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCSMFUGD43	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRSMFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSMFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSMFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSMFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSMFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSMFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRSMFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WOCTEMPTRBS1	POINT	3.05	30	2	30	550	-	-	-	-	-
WOCTEMPTRBS2	POINT	3.05	30	2	30	550	-	-	-	-	-
WOCTEMPTRBN1	POINT	3.05	30	2	30	550	-	-	-	-	-
WOCTEMPTRBN2	POINT	3.05	30	2	30	550	-	-	-	-	-
WOCPCEN	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCSCEN	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCNREN	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCNMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCNMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCNMFUGD29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCNMFUGD31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRNMFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNMFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNMFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNMFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNMFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNMFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRNMFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WILLOWAIR1N	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-
WILLOWAIR2N	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-
WILLOWAIR3N	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-
WOCOPSFUGDN	VOLUME	3.05	3.7	-	-	-	9.07	3.38	-	-	-
WOCOPSTDRS	POINT	3.05	5.4864	0.1016	1.67652176	294.2611111	-	-	-	-	-
WOCPWRGENS1	POINT	3.05	15	0.3	20	760	-	-	-	-	-
WOCPWRGENS2	POINT	3.05	15	0.3	20	760	-	-	-	-	-
WOCPWRGENS3	POINT	3.05	15	0.3	20	760	-	-	-	-	-
WLWIG01N	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWIG02N	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWHL05N	POINT	3.05	13.19	0.3	10	525	-	-	-	-	-
WOCOPSTJFN	POINT	3.05	5.4864	0.1016	1.67652176	283.15	-	-	-	-	-
WOCOPSTHCN	POINT	3.05	5.4864	0.1016	1.67652176	0	-	-	-	-	-
WOCOPSTDN	POINT	3.05	5.4864	0.1016	1.67652176	299.8166667	-	-	-	-	-
RFDGMT1	POINT	1.524	4.88	0.305	35	820	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
RFDGMT2	POINT	1.524	12.2	0.94	5.7	529	-	-	-	-	-
RFDCD5	POINT	1.524	4.88	0.305	35	820	-	-	-	-	-
RFDGWPDS1	POINT	1.524	3.7	0.356	41.6	644	-	-	-	-	-
RFDGWPDS2	POINT	1.524	3.7	0.356	41.6	644	-	-	-	-	-

Table A.2-15. Alternative C Near-field Model Scenario 5 Emissions Rates

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCOPSTDRN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05	5.85E-05	2.85E-05	2.85E-05	3.88E-06	3.88E-06	1.14E-05	1.14E-05	6.29E-05	6.29E-05	0.00E+00	0.00E+00	8760
BT1OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT1OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT1OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	2.80E-03	8.20E-03	8.20E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.80E-01	1.80E-01	0.00E+00	0.00E+00	8760
BT1OPSFUGD	0.00E+00	0.00E+00	0.00E+00	3.52E-02	5.29E-03	5.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT1OPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	5.19E-05	4.73E-05	4.73E-05	3.74E-06	3.74E-06	1.55E-05	1.55E-05	2.17E-04	2.17E-04	0.00E+00	0.00E+00	8760
BT1OPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-07	4.31E-07	5.90E-06	5.90E-06	8.63E-07	8.63E-07	1.58E-05	1.58E-05	1.44E-07	1.44E-07	0.00E+00	0.00E+00	8760
BT1OPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	9.98E-05	4.37E-05	4.37E-05	5.32E-06	5.32E-06	1.54E-05	1.54E-05	1.13E-04	1.13E-04	0.00E+00	0.00E+00	8760
BT1WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT1WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT1WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
BT2OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT2OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT2OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	2.80E-03	8.20E-03	8.20E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.80E-01	1.80E-01	0.00E+00	0.00E+00	8760
BT2OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.74E-02	4.11E-03	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT2WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT2WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT2WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
BT3OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT3OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT3OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	2.80E-03	8.20E-03	8.20E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.80E-01	1.80E-01	0.00E+00	0.00E+00	8760
BT3OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT3WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
BT3WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT3WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
BT4OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT4OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT4OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	2.20E-03	6.44E-03	6.44E-03	5.81E-02	5.81E-02	1.14E-01	1.14E-01	1.42E-01	1.42E-01	0.00E+00	0.00E+00	8760
BT4OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.34E-02	3.52E-03	3.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT4OPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	5.19E-05	4.73E-05	4.73E-05	3.74E-06	3.74E-06	1.55E-05	1.55E-05	2.17E-04	2.17E-04	0.00E+00	0.00E+00	8760
BT4OPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-07	4.31E-07	5.90E-06	5.90E-06	8.63E-07	8.63E-07	1.58E-05	1.58E-05	1.44E-07	1.44E-07	0.00E+00	0.00E+00	8760
BT4OPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	9.98E-05	4.37E-05	4.37E-05	5.32E-06	5.32E-06	1.54E-05	1.54E-05	1.13E-04	1.13E-04	0.00E+00	0.00E+00	8760
BT4WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT4WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT4WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
BT5OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT5OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT5OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	2.20E-03	6.44E-03	6.44E-03	5.81E-02	5.81E-02	1.14E-01	1.14E-01	1.42E-01	1.42E-01	0.00E+00	0.00E+00	8760
BT5OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.18E-02	3.27E-03	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT5WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT5WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT5WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
WLWTG03A	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	4.02E-04	4.02E-04	4.36E-03	4.36E-03	1.07E-03	1.07E-03	2.15E-03	2.15E-03	0.00E+00	0.00E+00	7.37E-03	7.37E-03	8760
WLWTG03B	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	4.02E-04	4.02E-04	4.36E-03	4.36E-03	1.07E-03	1.07E-03	2.15E-03	2.15E-03	0.00E+00	0.00E+00	7.37E-03	7.37E-03	8760
WLWTG01A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG01B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG02A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG02B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WLWTG04	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	1.17E-04	1.17E-04	1.05E-03	1.05E-03	2.59E-04	2.59E-04	5.19E-04	5.19E-04	0.00E+00	0.00E+00	1.81E-03	1.81E-03	8760
WLWTG05	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	1.17E-04	1.17E-04	1.05E-03	1.05E-03	2.59E-04	2.59E-04	5.19E-04	5.19E-04	0.00E+00	0.00E+00	1.81E-03	1.81E-03	8760
WLWGL05	6.48E-01	1.19E+00	6.76E-02	3.70E-02	3.70E-02	2.11E-03	1.22E-03	1.22E-03	6.99E-05	6.12E-04	3.49E-05	2.22E-04	1.26E-05	0.00E+00	0.00E+00	1.52E-04	8.69E-06	0.00E+00	0.00E+00	6.22E-05	3.55E-06	500
WLWHG03	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8.56E-06	8.56E-06	1.39E-05	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	1.88E-05	3.06E-04	3.06E-04	8760
WLWHG04	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8.56E-06	8.56E-06	1.39E-05	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	1.88E-05	3.06E-04	3.06E-04	8760
WLWHG01	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	5.19E-06	5.19E-06	8.40E-06	8.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	1.14E-05	1.85E-04	1.85E-04	8760
WLWHG02	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	5.19E-06	5.19E-06	8.40E-06	8.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	1.14E-05	1.85E-04	1.85E-04	8760
WLWHG06	3.84E-01	4.57E-01	4.57E-01	3.47E-02	3.47E-02	3.47E-02	3.09E-02	3.09E-02	3.09E-02	9.60E-06	9.60E-06	1.55E-05	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	2.10E-05	3.43E-04	3.43E-04	8760
WLWFGLP	4.15E-02	4.94E-02	4.94E-02	3.76E-03	3.76E-03	3.76E-03	3.34E-03	3.34E-03	3.34E-03	1.04E-06	1.04E-06	1.68E-06	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-06	3.11E-06	3.71E-05	3.71E-05	8760
WLWFGHP	4.15E-02	4.94E-02	4.94E-02	3.76E-03	3.76E-03	3.76E-03	3.34E-03	3.34E-03	3.34E-03	1.04E-06	1.04E-06	1.68E-06	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-06	3.11E-06	3.71E-05	3.71E-05	8760
WCFOPSDS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06	3.71E-06	4.50E-05	4.50E-05	6.45E-06	6.45E-06	1.20E-04	1.20E-04	8.06E-07	8.06E-07	0.00E+00	0.00E+00	8760
WCFOPSTSO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-04	6.89E-04	3.83E-04	3.83E-04	6.00E-05	6.00E-05	1.78E-04	1.78E-04	6.94E-04	6.94E-04	0.00E+00	0.00E+00	8760
WCFOPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	9.98E-05	4.37E-05	4.37E-05	5.32E-06	5.32E-06	1.54E-05	1.54E-05	1.13E-04	1.13E-04	0.00E+00	0.00E+00	8760
WCFOPSTUD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-06	3.31E-06	4.01E-05	4.01E-05	5.75E-06	5.75E-06	1.07E-04	1.07E-04	7.19E-07	7.19E-07	0.00E+00	0.00E+00	8760
WCFOPSTLD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-07	2.88E-07	3.88E-06	3.88E-06	5.75E-07	5.75E-07	1.05E-05	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	5.19E-05	4.73E-05	4.73E-05	3.74E-06	3.74E-06	1.55E-05	1.55E-05	2.17E-04	2.17E-04	0.00E+00	0.00E+00	8760
WCFOPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	3.52E-04	1.49E-03	1.49E-03	1.41E-03	1.41E-03	2.22E-03	2.22E-03	1.33E-02	1.33E-02	0.00E+00	0.00E+00	8760
WCFOPSFUGD	0.00E+00	0.00E+00	0.00E+00	3.45E-02	5.17E-03	5.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCPWRGENN1	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WOCPWRGENN2	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WOCPWRGENN3	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WLWIG01S	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	9.34E-07	7.78E-07	1.51E-06	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-06	2.33E-06	3.34E-05	2.78E-05	7300
WLWIG02S	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	9.34E-07	7.78E-07	1.51E-06	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-06	2.33E-06	3.34E-05	2.78E-05	7300
WLWHL05S	5.93E-03	2.37E-02	2.37E-02	2.82E-03	2.53E-03	2.53E-03	2.54E-04	2.54E-04	2.54E-04	2.54E-07	2.54E-07	7.36E-06	7.36E-06	7.55E-08	7.55E-08	1.29E-07	1.29E-07	0.00E+00	0.00E+00	3.92E-05	3.92E-05	8760
WOCOPSTJFS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-06	1.01E-06	8.49E-06	8.49E-06	2.59E-06	2.59E-06	5.18E-06	5.18E-06	2.01E-06	2.01E-06	0.00E+00	0.00E+00	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCOPSTHCS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05	8.50E-05	3.37E-05	3.37E-05	3.60E-06	3.60E-06	1.05E-05	1.05E-05	1.02E-04	1.02E-04	0.00E+00	0.00E+00	8760
WOCOPSTDS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-07	2.88E-07	2.73E-06	2.73E-06	4.31E-07	4.31E-07	7.19E-06	7.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WILLOWAIR1S	9.89E-08	5.36E-08	5.36E-08	1.85E-09	1.85E-09	1.85E-09	7.10E-09	7.10E-09	7.10E-09	2.56E-10	2.56E-10	1.01E-10	1.01E-10	2.74E-11	2.74E-11	6.83E-11	6.83E-11	1.97E-12	1.97E-12	1.90E-09	1.90E-09	8760
WILLOWAIR2S	9.89E-08	5.36E-08	5.36E-08	1.85E-09	1.85E-09	1.85E-09	7.10E-09	7.10E-09	7.10E-09	2.56E-10	2.56E-10	1.01E-10	1.01E-10	2.74E-11	2.74E-11	6.83E-11	6.83E-11	1.97E-12	1.97E-12	1.90E-09	1.90E-09	8760
WILLOWAIR3S	9.89E-08	5.36E-08	5.36E-08	1.85E-09	1.85E-09	1.85E-09	7.10E-09	7.10E-09	7.10E-09	2.56E-10	2.56E-10	1.01E-10	1.01E-10	2.74E-11	2.74E-11	6.83E-11	6.83E-11	1.97E-12	1.97E-12	1.90E-09	1.90E-09	8760
WOCOPSFUGDS	0.00E+00	0.00E+00	0.00E+00	2.08E-01	3.12E-02	3.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFPCE1	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	3.94E-10	3.94E-10	2.30E-10	2.30E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-10	8.04E-10	8760
WCFPCE2	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	3.94E-10	3.94E-10	2.30E-10	2.30E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-10	8.04E-10	8760
WCFPCE3	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	3.94E-10	3.94E-10	2.30E-10	2.30E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-10	8.04E-10	8760
WCFPCE4	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	3.94E-10	3.94E-10	2.30E-10	2.30E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-10	8.04E-10	8760
WCFPCE5	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	3.94E-10	3.94E-10	2.30E-10	2.30E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-10	8.04E-10	8760
WCFPCE6	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	3.94E-10	3.94E-10	2.30E-10	2.30E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-10	8.04E-10	8760
WCFPCE7	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	3.94E-10	3.94E-10	2.30E-10	2.30E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-10	8.04E-10	8760
WCFSCE1	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8.80E-12	8.80E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.14E-10	3.14E-10	8760
WCFSCE2	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8.80E-12	8.80E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.14E-10	3.14E-10	8760
WCFSCE3	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8.80E-12	8.80E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.14E-10	3.14E-10	8760
WCFSCE4	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8.80E-12	8.80E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.14E-10	3.14E-10	8760
WCFSCE5	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8.80E-12	8.80E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.14E-10	3.14E-10	8760
WCFSCE6	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8.80E-12	8.80E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.14E-10	3.14E-10	8760
WCFSCE7	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8.80E-12	8.80E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.14E-10	3.14E-10	8760
WCFNRE1	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	1.93E-09	1.93E-09	8.47E-10	8.47E-10	5.90E-10	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-09	2.44E-09	8760
WCFNRE2	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	1.93E-09	1.93E-09	8.47E-10	8.47E-10	5.90E-10	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-09	2.44E-09	8760
WCFNRE3	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	1.93E-09	1.93E-09	8.47E-10	8.47E-10	5.90E-10	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-09	2.44E-09	8760
WCFNRE4	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	1.93E-09	1.93E-09	8.47E-10	8.47E-10	5.90E-10	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-09	2.44E-09	8760
WCFNRE5	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	1.93E-09	1.93E-09	8.47E-10	8.47E-10	5.90E-10	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-09	2.44E-09	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WCFNRE6	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	1.93E-09	1.93E-09	8.47E-10	8.47E-10	5.90E-10	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-09	2.44E-09	8760
WCFNRE7	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	1.93E-09	1.93E-09	8.47E-10	8.47E-10	5.90E-10	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-09	2.44E-09	8760
WLW2GEN	1.19E-01	5.87E-01	6.08E-01	3.46E-02	3.46E-02	3.53E-02	3.51E-04	3.51E-04	3.51E-04	1.91E-04	2.05E-04	7.62E-05	8.20E-05	5.24E-05	5.24E-05	2.47E-07	4.32E-06	0.00E+00	0.00E+00	1.24E-04	1.41E-04	8760
BT3NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	1.33E-09	1.33E-10	6.42E-10	6.42E-11	6.32E-13	6.32E-14	4.06E-10	4.06E-11	0.00E+00	0.00E+00	1.23E-09	1.23E-10	876
BT3WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	1.71E-09	6.73E-10	1.19E-09	4.68E-10	4.57E-12	1.80E-12	5.24E-10	2.07E-10	0.00E+00	0.00E+00	4.37E-09	1.72E-09	288
3WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
BT1NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	1.33E-09	1.33E-10	6.42E-10	6.42E-11	6.32E-13	6.32E-14	4.06E-10	4.06E-11	0.00E+00	0.00E+00	1.23E-09	1.23E-10	876
BT1WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	1.71E-09	6.73E-10	1.19E-09	4.68E-10	4.57E-12	1.80E-12	5.24E-10	2.07E-10	0.00E+00	0.00E+00	4.37E-09	1.72E-09	288
1WELLINTE	1.31E-03	5.26E-03	2.07E-03	6.26E-04	5.60E-04	2.21E-04	5.60E-05	5.60E-05	2.21E-05	5.63E-08	2.22E-08	1.63E-06	6.43E-07	1.67E-08	6.60E-09	2.87E-08	1.13E-08	0.00E+00	0.00E+00	8.68E-06	3.42E-06	288
BT2NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	1.33E-09	1.33E-10	6.42E-10	6.42E-11	6.32E-13	6.32E-14	4.06E-10	4.06E-11	0.00E+00	0.00E+00	1.23E-09	1.23E-10	876
BT2WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	1.71E-09	6.73E-10	1.19E-09	4.68E-10	4.57E-12	1.80E-12	5.24E-10	2.07E-10	0.00E+00	0.00E+00	4.37E-09	1.72E-09	288
2WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
BT4NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	1.33E-09	1.33E-10	6.42E-10	6.42E-11	6.32E-13	6.32E-14	4.06E-10	4.06E-11	0.00E+00	0.00E+00	1.23E-09	1.23E-10	876
BT4WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	1.71E-09	6.73E-10	1.19E-09	4.68E-10	4.57E-12	1.80E-12	5.24E-10	2.07E-10	0.00E+00	0.00E+00	4.37E-09	1.72E-09	288
4WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
BT5NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	1.33E-09	1.33E-10	6.42E-10	6.42E-11	6.32E-13	6.32E-14	4.06E-10	4.06E-11	0.00E+00	0.00E+00	1.23E-09	1.23E-10	876
BT5WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	1.71E-09	6.73E-10	1.19E-09	4.68E-10	4.57E-12	1.80E-12	5.24E-10	2.07E-10	0.00E+00	0.00E+00	4.37E-09	1.72E-09	288
5WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
WOCPCES	7.88E-08	3.56E-07	3.56E-07	2.83E-08	2.75E-08	2.75E-08	7.86E-10	7.86E-10	7.86E-10	6.22E-11	6.22E-11	4.67E-11	4.67E-11	1.90E-11	1.90E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-10	1.83E-10	8760
WOCSCES	6.12E-08	1.07E-07	1.07E-07	8.44E-09	8.44E-09	8.44E-09	7.50E-09	7.50E-09	7.50E-09	2.33E-12	2.33E-12	3.77E-12	3.77E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-12	6.99E-12	8.33E-11	8.33E-11	8760
WOCNRES	5.55E-07	2.47E-06	1.86E-06	2.08E-07	1.99E-07	1.35E-07	7.98E-09	7.98E-09	1.46E-09	3.82E-10	3.76E-10	3.77E-10	1.89E-10	1.17E-10	1.15E-10	3.74E-12	4.27E-13	0.00E+00	0.00E+00	1.61E-09	6.04E-10	8760
1TAIL1	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	1.44E-08	1.44E-08	1.58E-08	1.58E-08	5.68E-09	5.68E-09	1.68E-08	1.68E-08	5.71E-09	5.71E-09	1.61E-07	1.61E-07	8760
1TAIL2	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	1.44E-08	1.44E-08	1.58E-08	1.58E-08	5.68E-09	5.68E-09	1.68E-08	1.68E-08	5.71E-09	5.71E-09	1.61E-07	1.61E-07	8760
1TAIL3	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	1.44E-08	1.44E-08	1.58E-08	1.58E-08	5.68E-09	5.68E-09	1.68E-08	1.68E-08	5.71E-09	5.71E-09	1.61E-07	1.61E-07	8760
1TAIL4	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	1.44E-08	1.44E-08	1.58E-08	1.58E-08	5.68E-09	5.68E-09	1.68E-08	1.68E-08	5.71E-09	5.71E-09	1.61E-07	1.61E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
1TAIL5	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	1.44E-08	1.44E-08	1.58E-08	1.58E-08	5.68E-09	5.68E-09	1.68E-08	1.68E-08	5.71E-09	5.71E-09	1.61E-07	1.61E-07	8760
1TAIL6	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	1.44E-08	1.44E-08	1.58E-08	1.58E-08	5.68E-09	5.68E-09	1.68E-08	1.68E-08	5.71E-09	5.71E-09	1.61E-07	1.61E-07	8760
2TAIL1	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	1.44E-08	1.44E-08	1.58E-08	1.58E-08	5.68E-09	5.68E-09	1.68E-08	1.68E-08	5.71E-09	5.71E-09	1.61E-07	1.61E-07	8760
2TAIL2	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	1.44E-08	1.44E-08	1.58E-08	1.58E-08	5.68E-09	5.68E-09	1.68E-08	1.68E-08	5.71E-09	5.71E-09	1.61E-07	1.61E-07	8760
2TAIL3	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	1.44E-08	1.44E-08	1.58E-08	1.58E-08	5.68E-09	5.68E-09	1.68E-08	1.68E-08	5.71E-09	5.71E-09	1.61E-07	1.61E-07	8760
2TAIL4	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	1.44E-08	1.44E-08	1.58E-08	1.58E-08	5.68E-09	5.68E-09	1.68E-08	1.68E-08	5.71E-09	5.71E-09	1.61E-07	1.61E-07	8760
2TAIL5	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	1.44E-08	1.44E-08	1.58E-08	1.58E-08	5.68E-09	5.68E-09	1.68E-08	1.68E-08	5.71E-09	5.71E-09	1.61E-07	1.61E-07	8760
2TAIL6	1.34E-05	1.16E-05	1.16E-05	1.40E-06	5.49E-07	5.49E-07	5.61E-08	5.61E-08	5.61E-08	1.44E-08	1.44E-08	1.58E-08	1.58E-08	5.68E-09	5.68E-09	1.68E-08	1.68E-08	5.71E-09	5.71E-09	1.61E-07	1.61E-07	8760
3TAIL1	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
3TAIL2	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
3TAIL3	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
3TAIL4	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
3TAIL5	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
3TAIL6	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
3TAIL7	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
4TAIL1	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
4TAIL2	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
4TAIL3	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
4TAIL4	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
4TAIL5	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
4TAIL6	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
4TAIL7	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
5TAIL1	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
5TAIL2	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
5TAIL3	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
5TAIL4	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
5TAIL5	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
5TAIL6	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
5TAIL7	1.15E-05	9.95E-06	9.95E-06	1.20E-06	4.71E-07	4.71E-07	4.81E-08	4.81E-08	4.81E-08	1.24E-08	1.24E-08	1.35E-08	1.35E-08	4.87E-09	4.87E-09	1.44E-08	1.44E-08	4.89E-09	4.89E-09	1.38E-07	1.38E-07	8760
WOCSTAIL1	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL2	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL3	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL4	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL5	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL6	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL7	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL8	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL9	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL10	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL11	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL12	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL13	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL14	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL15	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL16	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL17	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL18	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL19	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL20	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL21	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCSTAIL22	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL23	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL24	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL25	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL26	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL27	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL28	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL29	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL30	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL31	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL32	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL33	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL34	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL35	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL36	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL37	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL38	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL39	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL40	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL41	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL42	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCSTAIL43	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
AIRSTAIL1	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
AIRSTAIL2	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
AIRSTAIL3	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
AIRSTAIL4	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
AIRSTAIL5	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
AIRSTAIL6	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
AIRSTAIL7	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.93E-07	5.93E-07	6.05E-08	6.05E-08	6.05E-08	1.56E-08	1.56E-08	1.70E-08	1.70E-08	6.13E-09	6.13E-09	1.82E-08	1.82E-08	6.16E-09	6.16E-09	1.73E-07	1.73E-07	8760
WOCNTAIL1	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL2	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL3	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL4	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL5	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL6	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL7	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL8	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL9	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL10	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL11	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL12	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL13	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL14	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL15	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL16	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL17	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL18	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL19	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL20	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL21	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCNTAIL22	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL23	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL24	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL25	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL26	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL27	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL28	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL29	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL30	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WOCNTAIL31	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
AIRNTAIL1	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
AIRNTAIL2	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
AIRNTAIL3	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
AIRNTAIL4	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
AIRNTAIL5	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
AIRNTAIL6	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
AIRNTAIL7	1.44E-05	1.25E-05	1.25E-05	1.51E-06	5.91E-07	5.91E-07	6.03E-08	6.03E-08	6.03E-08	1.55E-08	1.55E-08	1.70E-08	1.70E-08	6.11E-09	6.11E-09	1.81E-08	1.81E-08	6.14E-09	6.14E-09	1.73E-07	1.73E-07	8760
WCFTAIL1	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL2	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL3	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL4	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL5	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL6	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL7	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL8	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WCFTAIL9	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL10	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL11	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL12	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL13	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL14	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL15	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL16	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL17	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL18	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL19	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
WCFTAIL20	1.48E-05	1.29E-05	1.29E-05	1.56E-06	6.10E-07	6.10E-07	6.22E-08	6.22E-08	6.22E-08	1.60E-08	1.60E-08	1.75E-08	1.75E-08	6.30E-09	6.30E-09	1.87E-08	1.87E-08	6.33E-09	6.33E-09	1.78E-07	1.78E-07	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.52E-03	3.52E-04	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
3MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD7	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD7	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD7	0.00E+00	0.00E+00	0.00E+00	3.01E-03	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD5	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WCFMFUGD6	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD7	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD8	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD9	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD10	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD11	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD12	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD13	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD14	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD15	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD16	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD17	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD18	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD19	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD20	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.90E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD5	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD6	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD7	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD8	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD9	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD10	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCSMFUGD11	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD12	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD13	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD14	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD15	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD16	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD17	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD18	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD19	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD20	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD21	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD22	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD23	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD24	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD25	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD26	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD27	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD28	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD29	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD30	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD31	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD32	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD33	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD34	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD35	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCSMFUGD36	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD37	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD38	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD39	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD40	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD41	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD42	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCSMFUGD43	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRSMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRSMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRSMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRSMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRSMFUGD5	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRSMFUGD6	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRSMFUGD7	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCTEMPTRBS1	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	9.17E-05	9.17E-05	9.93E-04	9.93E-04	2.45E-04	2.45E-04	4.89E-04	4.89E-04	0.00E+00	0.00E+00	1.68E-03	1.68E-03	8760
WOCTEMPTRBS2	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	9.17E-05	9.17E-05	9.93E-04	9.93E-04	2.45E-04	2.45E-04	4.89E-04	4.89E-04	0.00E+00	0.00E+00	1.68E-03	1.68E-03	8760
WOCTEMPTRBN1	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	9.17E-05	9.17E-05	9.93E-04	9.93E-04	2.45E-04	2.45E-04	4.89E-04	4.89E-04	0.00E+00	0.00E+00	1.68E-03	1.68E-03	8760
WOCTEMPTRBN2	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	9.17E-05	9.17E-05	9.93E-04	9.93E-04	2.45E-04	2.45E-04	4.89E-04	4.89E-04	0.00E+00	0.00E+00	1.68E-03	1.68E-03	8760
WOCPCEN	7.88E-08	3.56E-07	3.56E-07	2.83E-08	2.75E-08	2.75E-08	7.86E-10	7.86E-10	7.86E-10	6.22E-11	6.22E-11	4.67E-11	4.67E-11	1.90E-11	1.90E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-10	1.83E-10	8760
WOCSCEN	6.12E-08	1.07E-07	1.07E-07	8.44E-09	8.44E-09	8.44E-09	7.50E-09	7.50E-09	7.50E-09	2.33E-12	2.33E-12	3.77E-12	3.77E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-12	6.99E-12	8.33E-11	8.33E-11	8760
WOCNREN	5.55E-07	2.47E-06	1.86E-06	2.08E-07	1.99E-07	1.35E-07	7.98E-09	7.98E-09	1.46E-09	3.82E-10	3.76E-10	3.77E-10	1.89E-10	1.17E-10	1.15E-10	3.74E-12	4.27E-13	0.00E+00	0.00E+00	1.61E-09	6.04E-10	8760
WOCNMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCNMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD5	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD6	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD7	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD8	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD9	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD10	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD11	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD12	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD13	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD14	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD15	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD16	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD17	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD18	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD19	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD20	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD21	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD22	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD23	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD24	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD25	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD26	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD27	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD28	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCNMFUGD29	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD30	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCNMFUGD31	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRNMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRNMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRNMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRNMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRNMFUGD5	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRNMFUGD6	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRNMFUGD7	0.00E+00	0.00E+00	0.00E+00	3.78E-03	3.78E-04	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WILLOWAIR1N	2.10E-08	7.86E-09	7.86E-09	3.04E-10	3.04E-10	3.04E-10	1.18E-09	1.18E-09	1.18E-09	4.31E-11	4.31E-11	1.78E-11	1.78E-11	4.70E-12	4.70E-12	1.16E-11	1.16E-11	8.56E-13	8.56E-13	3.18E-10	3.18E-10	8760
WILLOWAIR2N	2.10E-08	7.86E-09	7.86E-09	3.04E-10	3.04E-10	3.04E-10	1.18E-09	1.18E-09	1.18E-09	4.31E-11	4.31E-11	1.78E-11	1.78E-11	4.70E-12	4.70E-12	1.16E-11	1.16E-11	8.56E-13	8.56E-13	3.18E-10	3.18E-10	8760
WILLOWAIR3N	2.10E-08	7.86E-09	7.86E-09	3.04E-10	3.04E-10	3.04E-10	1.18E-09	1.18E-09	1.18E-09	4.31E-11	4.31E-11	1.78E-11	1.78E-11	4.70E-12	4.70E-12	1.16E-11	1.16E-11	8.56E-13	8.56E-13	3.18E-10	3.18E-10	8760
WOCOPSFUGDN	0.00E+00	0.00E+00	0.00E+00	1.64E-01	2.45E-02	2.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCOPSTDRS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05	5.85E-05	2.85E-05	2.85E-05	3.88E-06	3.88E-06	1.14E-05	1.14E-05	6.29E-05	6.29E-05	0.00E+00	0.00E+00	8760
WOCPWRGENS1	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WOCPWRGENS2	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WOCPWRGENS3	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WLWIG01N	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	9.34E-07	7.78E-07	1.51E-06	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-06	2.33E-06	3.34E-05	2.78E-05	7300
WLWIG02N	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	9.34E-07	7.78E-07	1.51E-06	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-06	2.33E-06	3.34E-05	2.78E-05	7300
WLWHL05N	5.93E-03	2.37E-02	2.37E-02	2.82E-03	2.53E-03	2.53E-03	2.54E-04	2.54E-04	2.54E-04	2.54E-07	2.54E-07	7.36E-06	7.36E-06	7.55E-08	7.55E-08	1.29E-07	1.29E-07	0.00E+00	0.00E+00	3.92E-05	3.92E-05	8760
WOCOPSTJFN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-06	1.01E-06	8.49E-06	8.49E-06	2.59E-06	2.59E-06	5.18E-06	5.18E-06	2.01E-06	2.01E-06	0.00E+00	0.00E+00	8760
WOCOPSTHCN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05	8.50E-05	3.37E-05	3.37E-05	3.60E-06	3.60E-06	1.05E-05	1.05E-05	1.02E-04	1.02E-04	0.00E+00	0.00E+00	8760
WOCOPSTDN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-07	2.88E-07	2.73E-06	2.73E-06	4.31E-07	4.31E-07	7.19E-06	7.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
RFDGMT1	3.50E-01	3.50E-01	2.69E+00	3.50E-01	3.50E-01	9.50E-02	3.80E-02	3.80E-02	1.96E-02	8.87E-03	8.87E-03	3.32E-03	3.32E-03	1.29E-02	1.29E-02	1.51E-02	1.51E-02	6.49E-02	6.49E-02	3.69E-03	3.69E-03	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
RFDGMT2	4.06E+00	7.21E+00	7.34E-01	4.06E+00	6.44E-01	7.71E-02	1.40E-02	1.40E-02	6.33E-03	4.03E-04	4.03E-04	4.60E-04	4.60E-04	3.16E-04	3.16E-04	5.75E-04	5.75E-04	6.62E-03	6.62E-03	4.03E-04	4.03E-04	8760
RFDCD5	1.82E+00	2.15E+00	2.15E+00	1.27E-01	1.27E-01	1.27E-01	2.70E-01	2.70E-01	2.70E-01	6.26E-02	6.26E-02	2.31E-02	2.31E-02	5.05E-02	5.05E-02	6.60E-02	6.60E-02	2.54E-01	2.54E-01	1.73E-02	1.73E-02	8760
RFDGWPDS1	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	3.02E-03	3.02E-03	8.32E-03	8.32E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.81E-01	1.81E-01	5.98E-05	5.98E-05	8760
RFDGWPDS2	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	3.02E-03	3.02E-03	8.32E-03	8.32E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.81E-01	1.81E-01	5.98E-05	5.98E-05	8760

1. Annual emission rate calculations are based on the number of actual daily operating hours provided in the EI. If actual daily operating hour timeframes were not known, 8760 hours were assumed.

A.3 Alternative D

A.3.1 Scenario 1: Construction

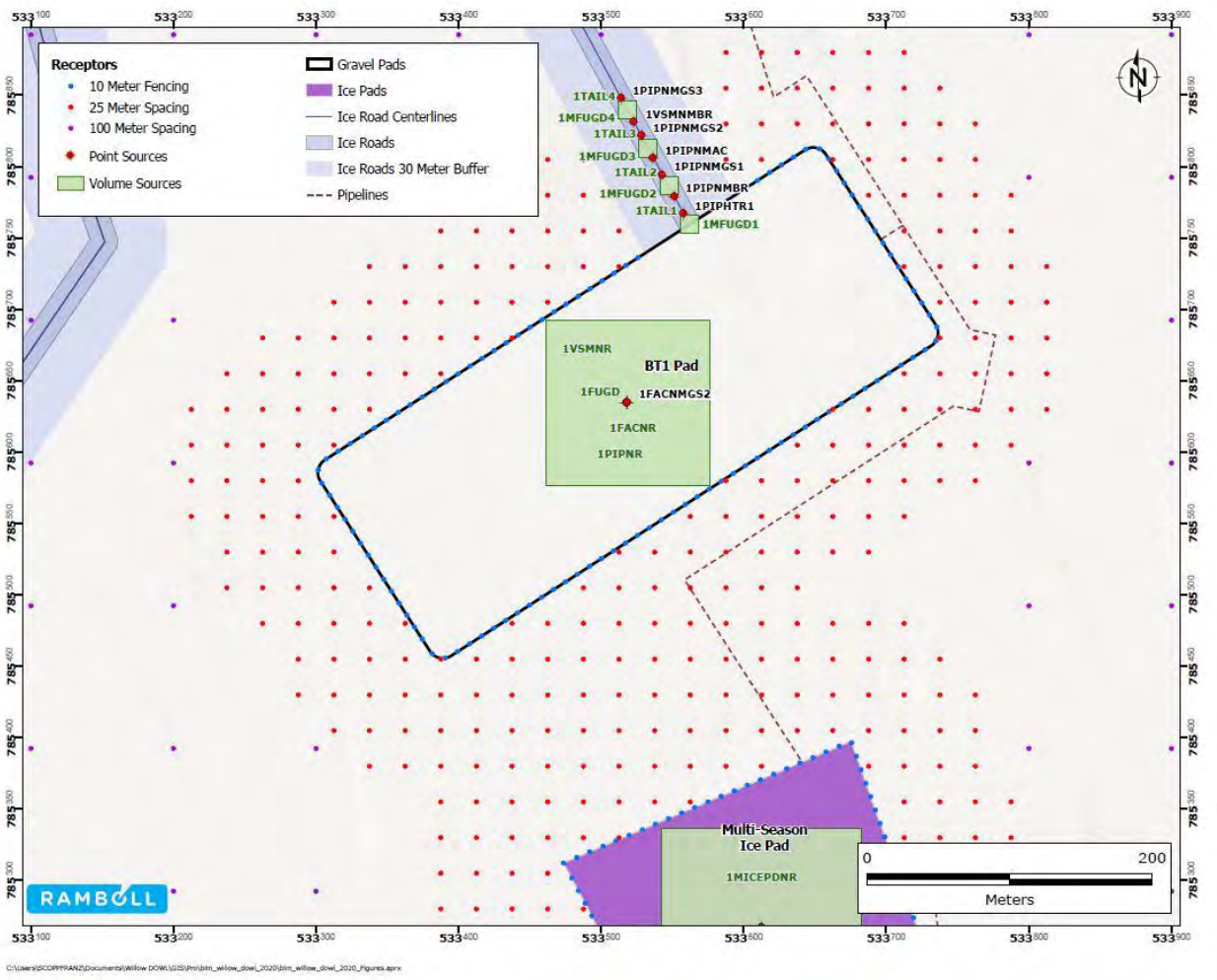


Figure A.3-1. Alternative D Near-field Model Scenario 1 Source Locations at BT1 with Ice Pad.

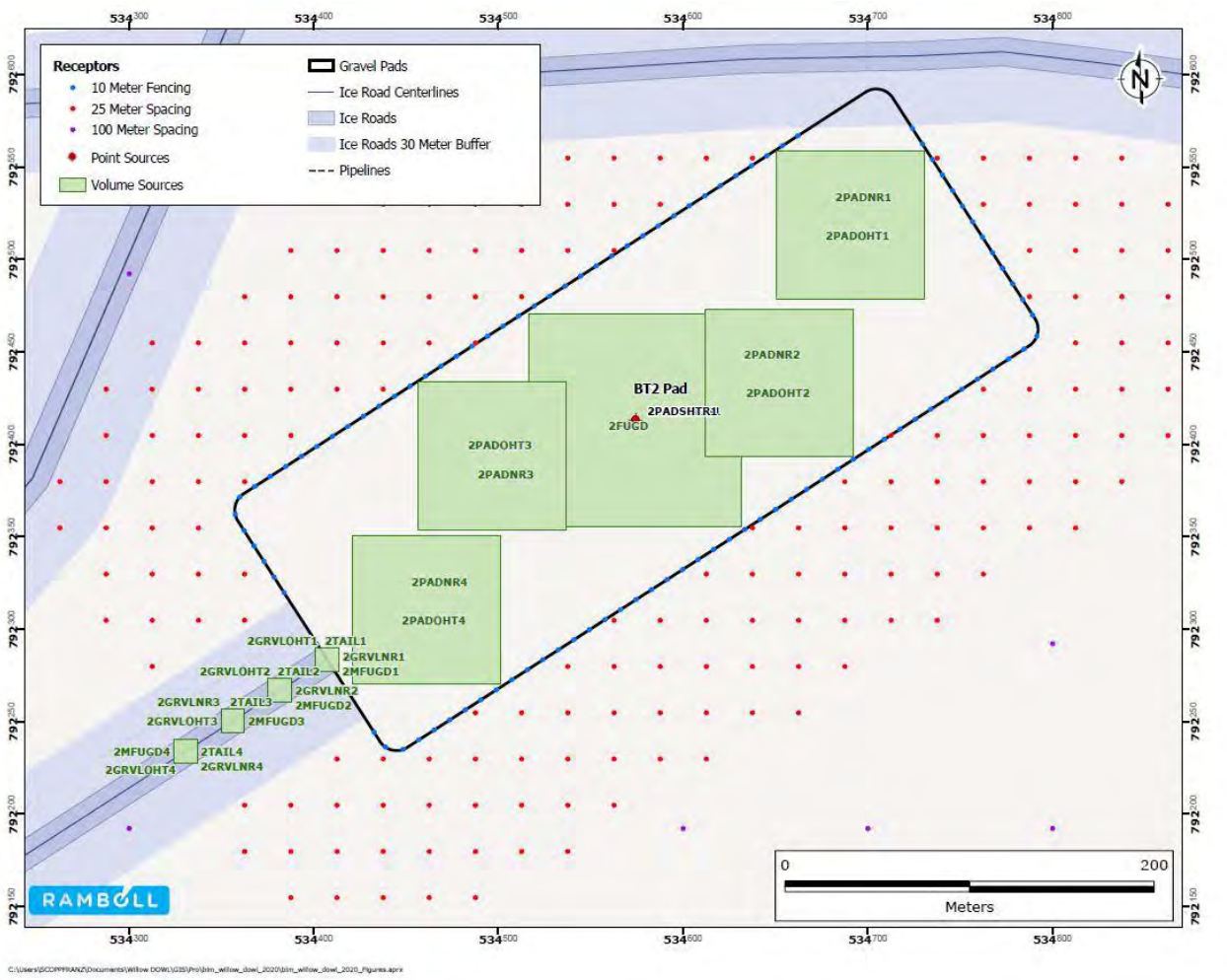


Figure A.3-2. Alternative D Near-field Model Scenario 1 Source Locations at BT2.

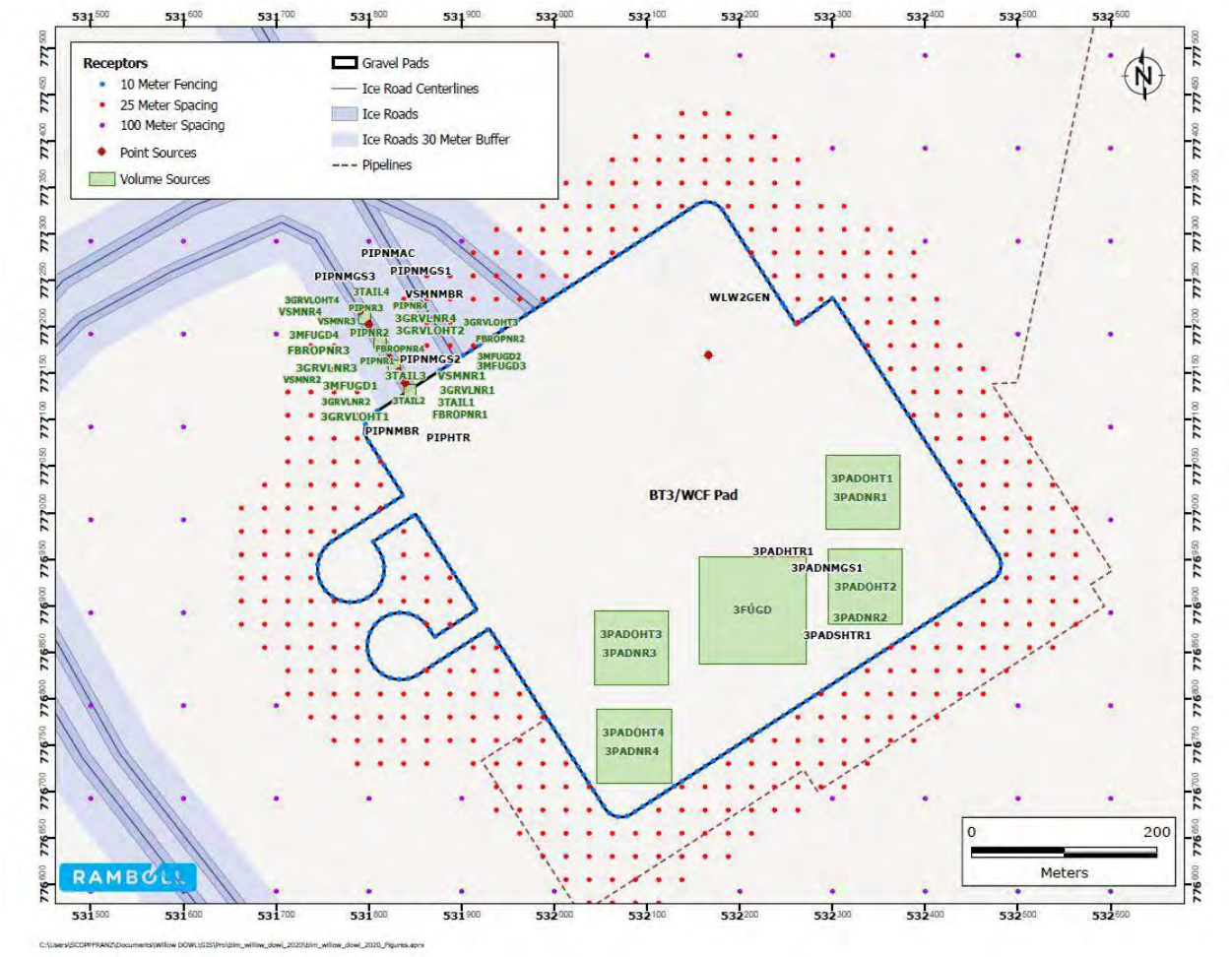


Figure A.3-3. Alternative D Near-field Model Scenario 1 Source Locations at BT3/WPF.

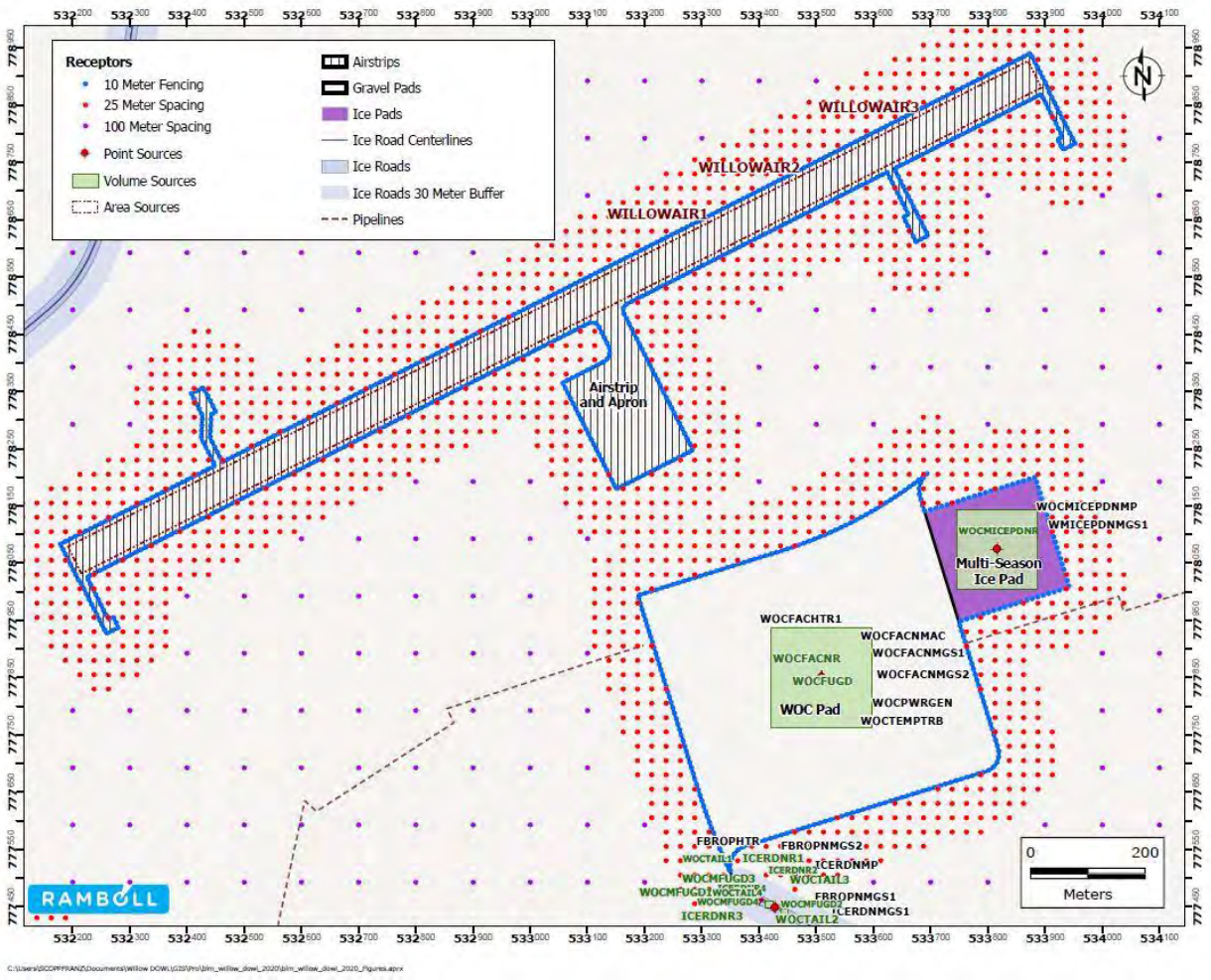


Figure A.3-4. Alternative D Near-field Model Scenario 1 Source Locations at Airstrip/Willow Operations Center.

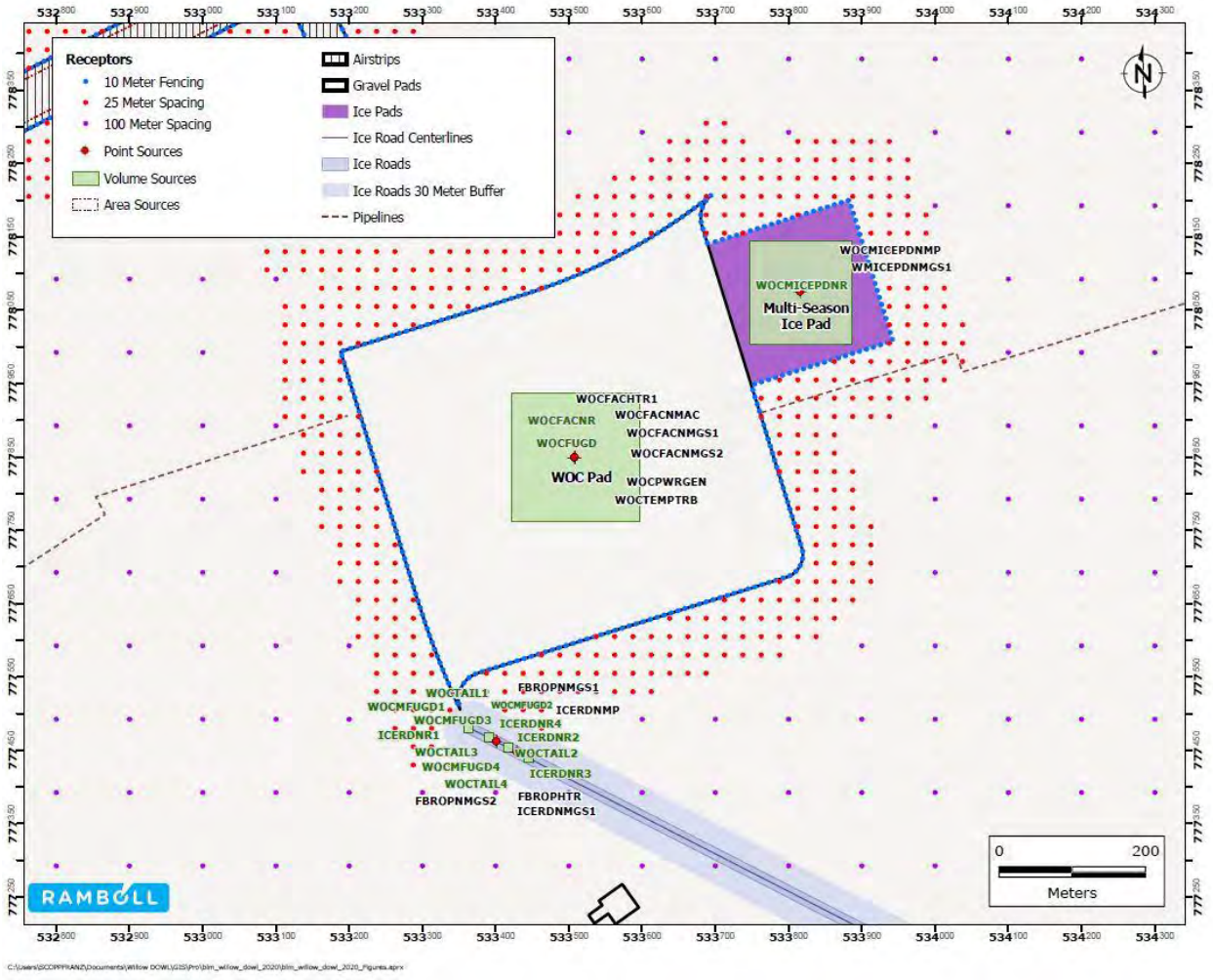


Figure A.3-5. Alternative D Near-field Model Scenario 1 Source Locations at WOC.

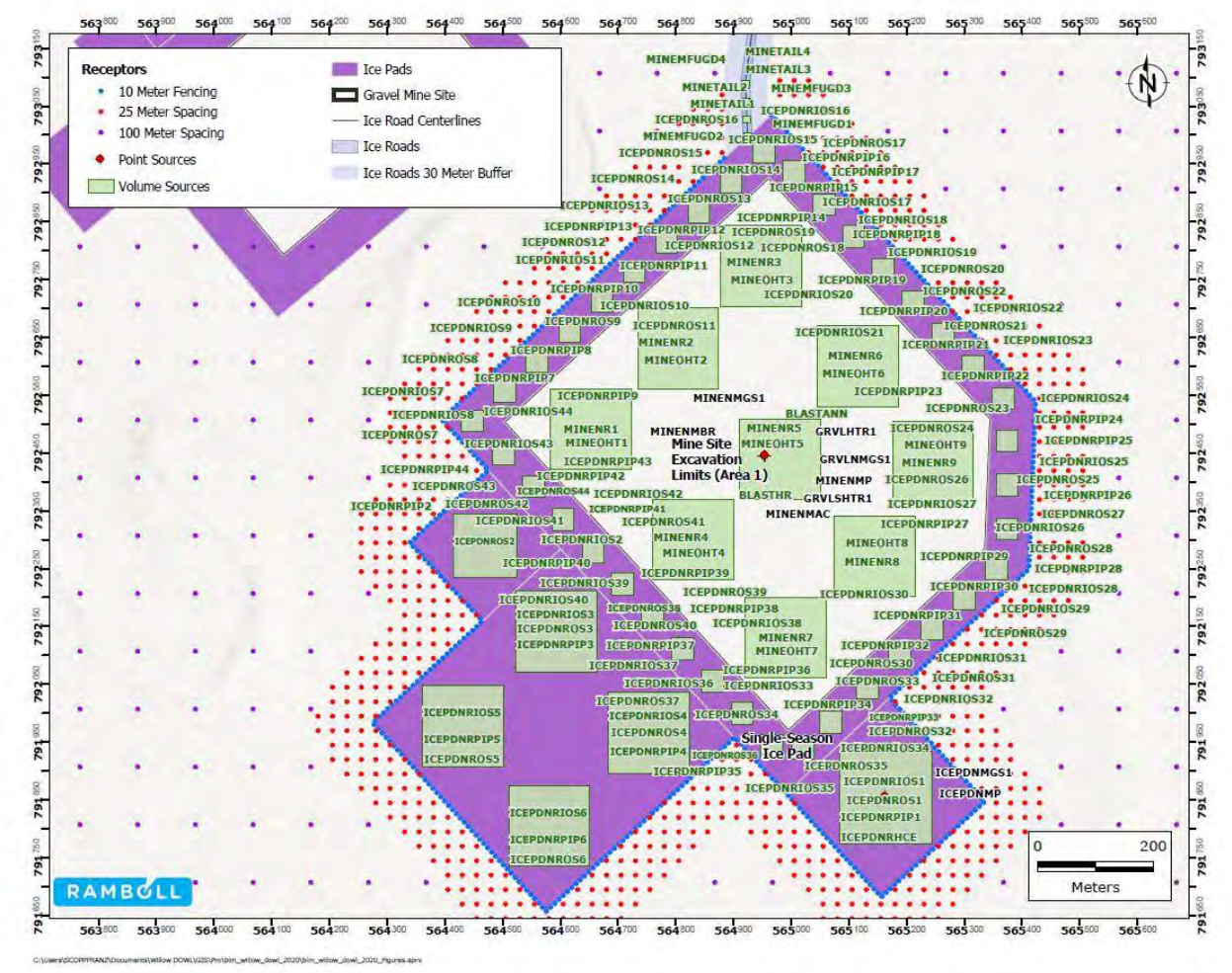


Figure A.3-6. Alternative D Near-field Model Scenario 1 Source Locations at Gravel Mine Site.

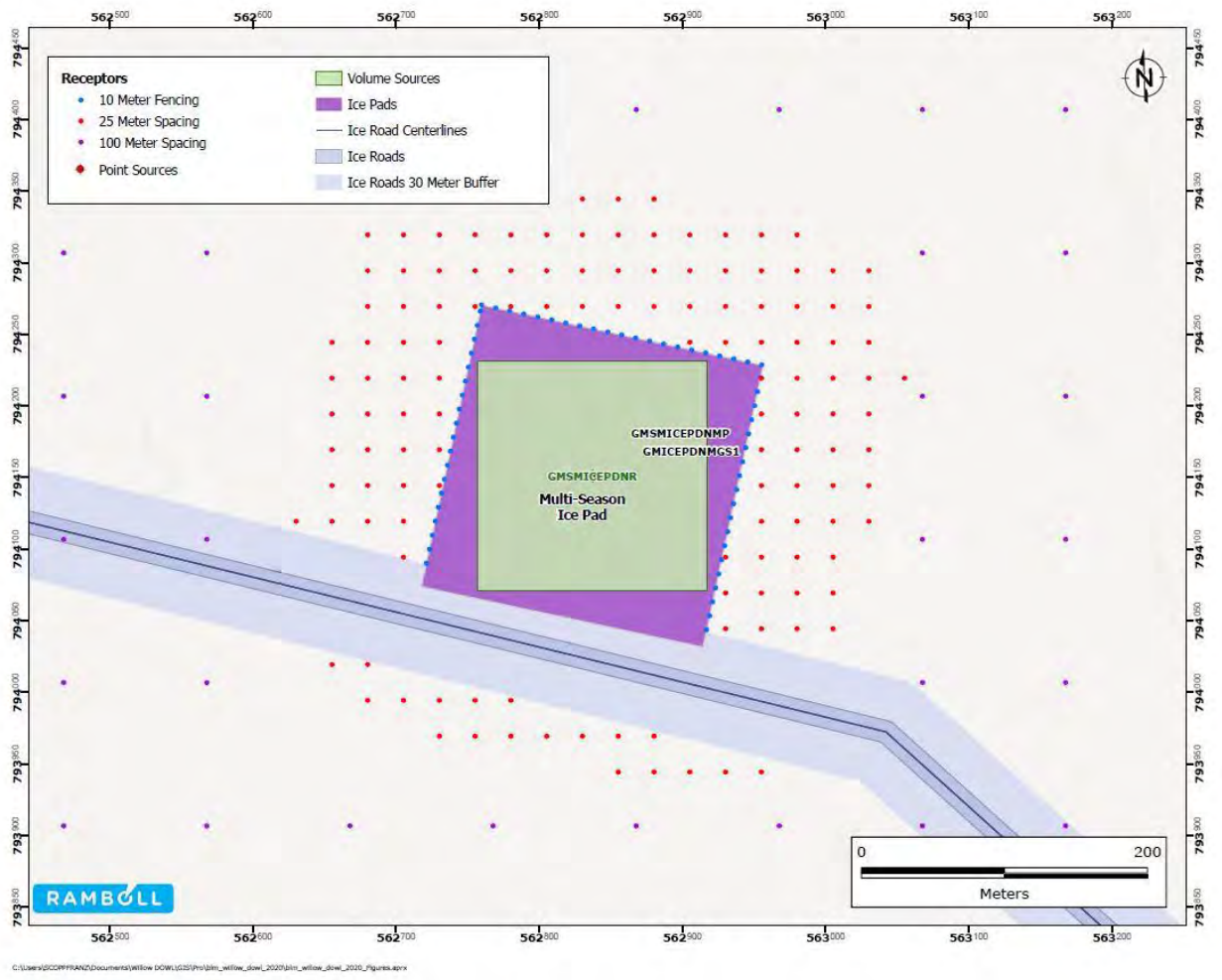


Figure A.3-7. Alternative D Near-field Model Scenario 1 Source Locations at Mine Camp.

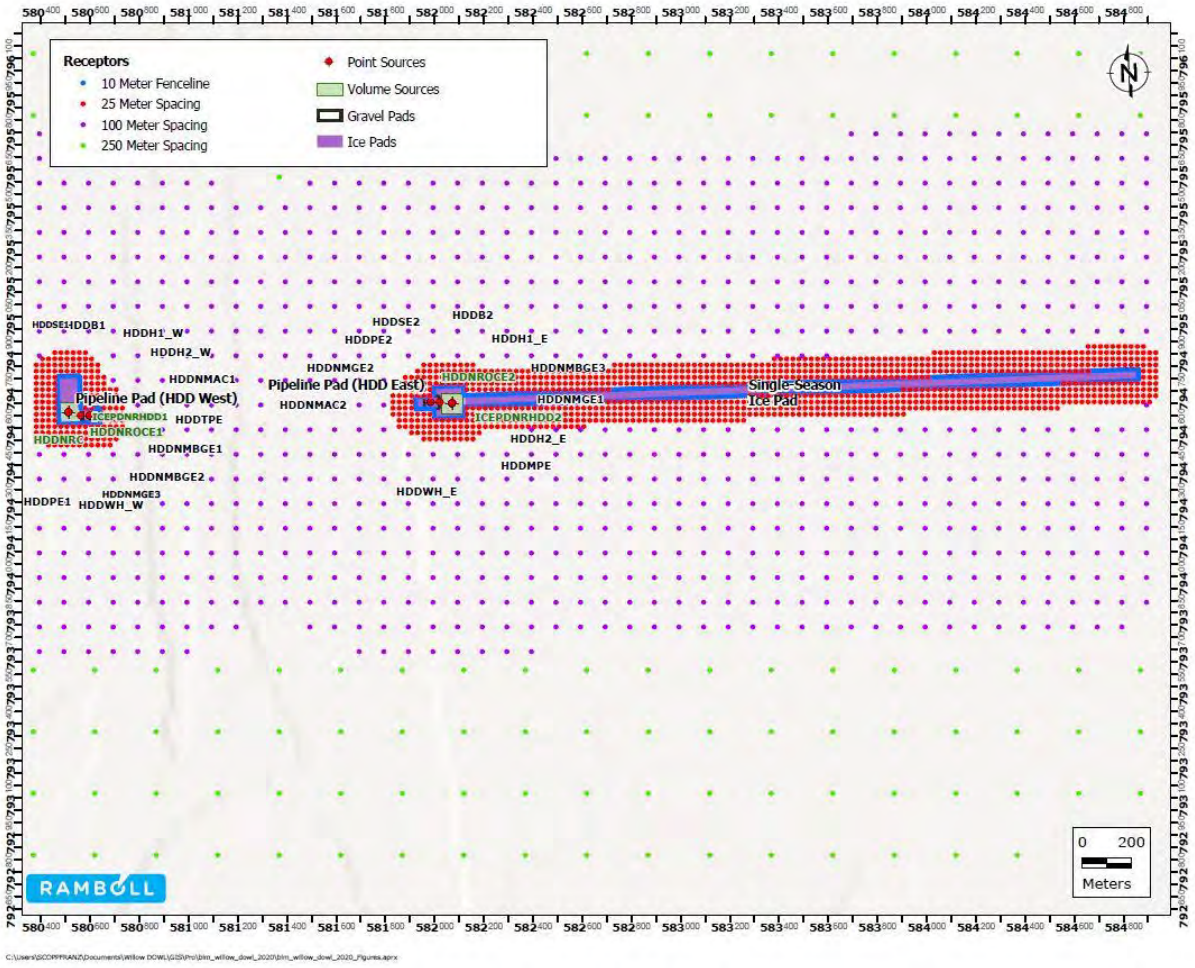


Figure A.3-8. Alternative D Near-field Model Scenario 1 Source Locations at HDD (wide view).

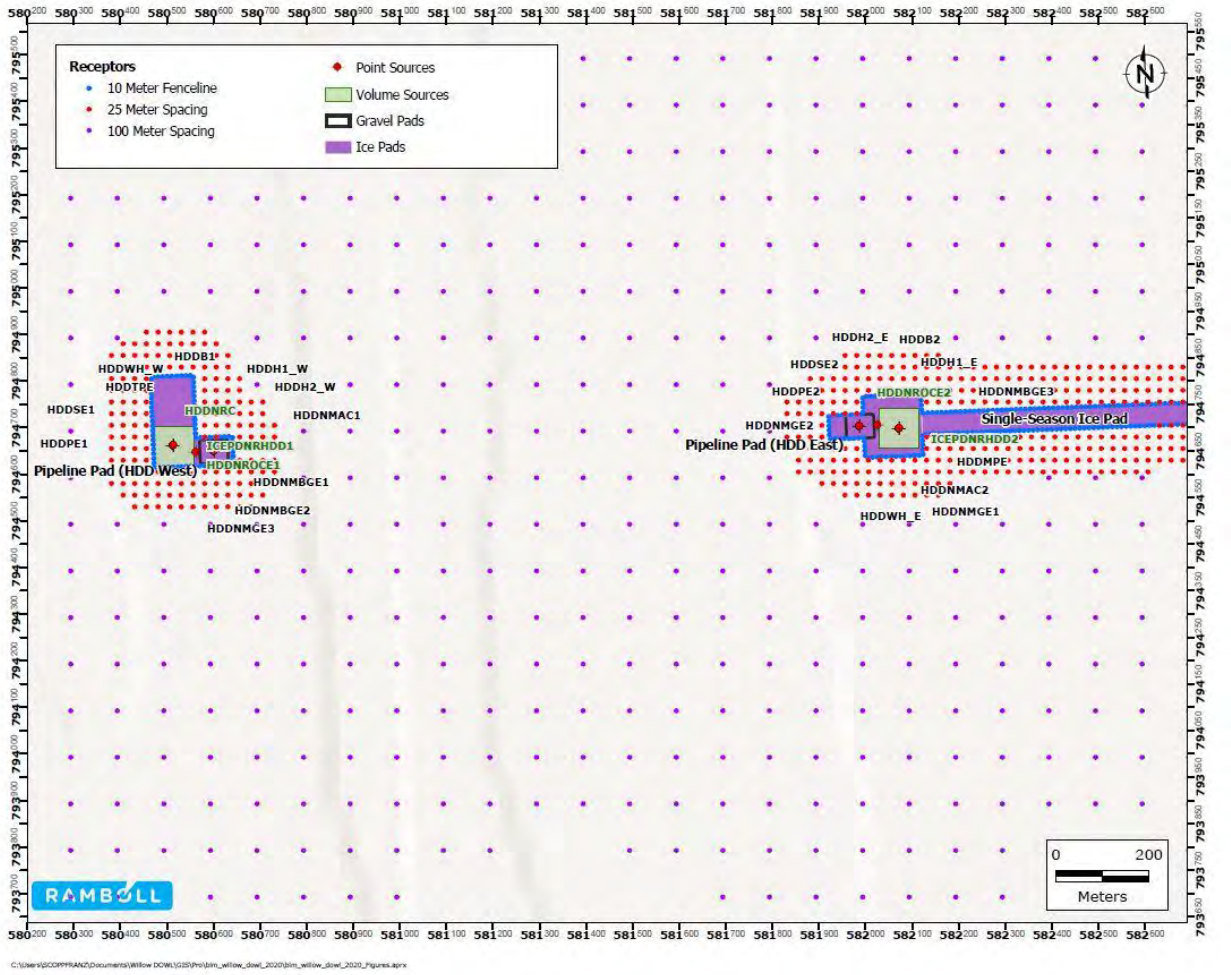


Figure A.3-9. Alternative C Near-field Model Scenario 1 Source Locations at HDD (close-up view).

Table A.3-1. Alternative D Near-field Model Scenario 1 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2PADHTR1	POINT	BT2 - Pad Construction - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
2PADSHTR1	POINT	BT2 - Pad Construction - Construction Shop Heaters	0.05	Diesel or natural gas heaters, or boiler
2PADNMGS1	POINT	BT2 - Pad Construction - Generator Sets	0.1	Diesel engines
2FUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust - Wind Erosion Fugitive Dust	-	-
3PADHTR1	POINT	BT3 - Pad Construction - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
3PADSHTR1	POINT	BT3 - Pad Construction - Construction Shop Heaters	0.05	Diesel or natural gas heaters, or boiler
3PADNMGS1	POINT	BT3 - Pad Construction - Generator Sets	0.1	Diesel engines
3FUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust - Wind Erosion Fugitive Dust	-	-
ALPAIR1	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 50.8m	0.5	USEPA default value
ALPAIR2	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 152.4m	0.5	USEPA default value
ALPAIR3	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 254m	0.5	USEPA default value
BDGHTR1	POINT	Bridge Installation - Construction Heater #1	0.05	Diesel or natural gas heaters, or boiler
BDGHTR2	POINT	Bridge Installation - Construction Heater #2	0.05	Diesel or natural gas heaters, or boiler
BDGNMAC1	POINT	Bridge Installation - Air Compressors	0.1	Diesel engines
BDGNMAC2	POINT	Bridge Installation - Air Compressors	0.1	Diesel engines
BDGNR	VOLUME	Bridge Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
BDGNMBR	POINT	Bridge Installation - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
BDGNMGS1	POINT	Bridge Installation - Generator Sets	0.1	Diesel engines
BDGNMGS2	POINT	Bridge Installation - Generator Sets	0.1	Diesel engines
MINENMAC	POINT	Gravel Mining - Air Compressors	0.1	Diesel engines
MINENMBR	POINT	Gravel Mining - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
MINENMGS1	POINT	Gravel Mining - Generator Sets	0.1	Diesel engines
MINENMP	POINT	Gravel Mining - Pumps	0.2	Diesel tailpipe from non-road equipment
BLASTANN	VOLUME	Blasting Emissions - Blasting Long Term	0.5	USEPA default value
BLASTHR	VOLUME	Blasting Emissions - Blasting Short Term	0.5	USEPA default value

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
GRVLHTR1	POINT	Gravel Roads Construction - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
GRVLSHTR1	POINT	Gravel Roads Construction - Construction Shop Heaters	0.05	Diesel or natural gas heaters, or boiler
GRVLNMGS1	POINT	Gravel Roads Construction - Generator Sets	0.1	Diesel engines
ICERDNMGS1	POINT	Seasonal Ice Road Construction - Generator Sets	0.1	Diesel engines
ICERDNMP	POINT	Seasonal Ice Road Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
ICEPDNMGS1	POINT	Single Season Ice Pad Construction - Generator Sets	0.1	Diesel engines
ICEPDNMP	POINT	Single Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
1MICEPDNR	VOLUME	Multi-Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1MICEPDNMGS1	POINT	Multi-Season Ice Pad Construction - Generator Sets	0.1	Diesel engines
1MICEPDNMP	POINT	Multi-Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
WOCMICEPDNR	VOLUME	Multi-Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WMICEPDNMGS1	POINT	Multi-Season Ice Pad Construction - Generator Sets	0.1	Diesel engines
WOCMICEPDNMP	POINT	Multi-Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
GMSMICEPDNR	VOLUME	Multi-Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
GMICEPDNMGS1	POINT	Multi-Season Ice Pad Construction - Generator Sets	0.1	Diesel engines
GMSMICEPDNMP	POINT	Multi-Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
STCKPL	VOLUME	Stockpile Fugitive Dust - Stockpile	-	-
FBROPHTR	POINT	Fiber Optic Line Installation - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
FBROPNMGS1	POINT	Fiber Optic Line Installation - Generator Sets	0.1	Diesel engines
FBROPNMGS2	POINT	Fiber Optic Line Installation - Generator Sets	0.1	Diesel engines
PIPHTR	POINT	Pipeline Installation - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
PIPNMAC	POINT	Pipeline Installation - Air Compressors	0.1	Diesel engines
PIPNMBR	POINT	Pipeline Installation - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
PIPNMGS1	POINT	Pipeline Installation - Generator Sets	0.1	Diesel engines
PIPNMGS2	POINT	Pipeline Installation - Generator Sets	0.1	Diesel engines
PIPNMGS3	POINT	Pipeline Installation - Generator Sets	0.1	Diesel engines
VSMNMBR	POINT	Vertical Support Member Construction - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
HDDPE1	POINT	Boring Equipment - Primary Power Engine #1	0.2	Diesel tailpipe from non-road equipment
HDDPE2	POINT	Boring Equipment - Primary Power Engine #2	0.2	Diesel tailpipe from non-road equipment
HDDSE1	POINT	Boring Equipment - Secondary Power Engine #1	0.2	Diesel tailpipe from non-road equipment
HDDSE2	POINT	Boring Equipment - Secondary Power Engine #2	0.2	Diesel tailpipe from non-road equipment
HDDMPE	POINT	Boring Equipment - Mud Pump Engine	0.2	Diesel tailpipe from non-road equipment
HDDTPE	POINT	Boring Equipment - Transfer Pump Engine	0.2	Diesel tailpipe from non-road equipment
HDDB1	POINT	Boring Equipment - Boiler #1	0.05	Diesel or natural gas heaters, or boiler
HDDB2	POINT	Boring Equipment - Boiler #2	0.05	Diesel or natural gas heaters, or boiler
HDDH1_W	POINT	Boring Equipment - Heater #1 - West	0.1	Diesel engines
HDDH1_E	POINT	Boring Equipment - Heater #1 - East	0.1	Diesel engines
HDDH2_W	POINT	Boring Equipment - Heater #2 - West	0.1	Diesel engines
HDDH2_E	POINT	Boring Equipment - Heater #2 - East	0.1	Diesel engines
HDDWH_W	POINT	Boring Equipment - Water Heater - West	0.1	Diesel engines
HDDWH_E	POINT	Boring Equipment - Water Heater - East	0.1	Diesel engines
HDDNMGE1	POINT	Non-Mobile Support Equipment - Generator Sets	0.1	Diesel engines
HDDNMGE2	POINT	Non-Mobile Support Equipment - Generator Sets	0.1	Diesel engines
HDDNMGE3	POINT	Non-Mobile Support Equipment - Generator Sets	0.1	Diesel engines
HDDNMBGE1	POINT	Non-Mobile Support Equipment - Backup Generator Sets	0.1	Diesel engines
HDDNMBGE2	POINT	Non-Mobile Support Equipment - Backup Generator Sets	0.1	Diesel engines
HDDNMBGE3	POINT	Non-Mobile Support Equipment - Backup Generator Sets	0.1	Diesel engines
HDDNMAC1	POINT	Non-Mobile Support Equipment - Air Compressors #1	0.1	Diesel engines
HDDNMAC2	POINT	Non-Mobile Support Equipment - Air Compressors #2	0.1	Diesel engines
HDDNROCE1	VOLUME	Non-Mobile Support Equipment - Other Construction Equipment #1	0.2	Diesel tailpipe from non-road equipment
HDDNROCE2	VOLUME	Non-Mobile Support Equipment - Other Construction Equipment #2	0.2	Diesel tailpipe from non-road equipment
HDDNRC	VOLUME	Non-Mobile Support Equipment - Cranes	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCPWRGEN	POINT	Temporary Power Generation - Power Generation	0.1	Diesel engines
WOCTEMPTRB	POINT	Temporary Power Generation - Power Generation Turbine	0.3	Natural gas-fired turbines
WOCFACHTR1	POINT	Facilities Installation-WOC - Heaters	0.05	Diesel or natural gas heaters, or boiler
WOCFACNMAC	POINT	Facilities Installation-WOC - Air Compressors	0.1	Diesel engines
WOCFACNR	VOLUME	Facilities Installation-WOC - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WOCFACNMGS1	POINT	Facilities Installation-WOC - Generator Sets	0.1	Diesel engines
WOCFACNMGS2	POINT	Facilities Installation-WOC - Generator Sets	0.1	Diesel engines
WILLOWAIR1	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 50.8m	0.5	USEPA default value
WILLOWAIR2	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 152.4m	0.5	USEPA default value
WILLOWAIR3	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 254m	0.5	USEPA default value
2TAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
3TAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
1TAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL1	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL2	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL3	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL4	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
MINETAIL1	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
MINETAIL2	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles
MINETAIL3	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles
MINETAIL4	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
3MFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
WOCMFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
MINEMFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
MINEMFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
MINEMFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
MINEMFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
2GRVLNR1	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR2	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR3	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR4	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
3GRVLNR1	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR2	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR3	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR4	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRHCE	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNROS23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS44	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRIOS6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRIOS33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS44	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRPIP16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRPIP43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP44	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRHDD1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRHDD2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR1	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR2	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR3	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR4	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR1	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR2	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR3	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR4	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR1	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR2	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR3	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR4	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR1	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR2	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR3	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR4	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR1	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR2	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR3	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR4	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR1	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR2	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR3	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
3PADNR4	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR1	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR2	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR3	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR4	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR5	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR6	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR7	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR8	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR9	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADOHT1	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT2	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT3	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT4	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT1	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT2	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT3	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT4	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT1	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT2	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT3	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT4	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT1	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT2	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT3	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT4	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT1	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
MINEOHT2	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT3	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT4	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT5	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT6	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT7	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT8	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT9	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
WLW2GEN	POINT	Stationary Combustion Sources - WPF - WPF Internal Combustion Equipment Non-Road Engines >140 HP	0.1	Diesel engines

Table A.3-2. Alternative C Near-field Model Scenario 1 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2PADHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
2PADSHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
2PADNMGS1	POINT	2.7432	6.5	0.2	47	761	-	-	-	-	-
2FUGD	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38	-	-	-
3PADHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
3PADSHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
3PADNMGS1	POINT	2.7432	6.5	0.2	47	761	-	-	-	-	-
3FUGD	VOLUME	3.6576	3.66	-	-	-	26.74419	3.38	-	-	-
ALPAIR1	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-
ALPAIR2	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-
ALPAIR3	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-
BDGHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
BDGHTR2	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
BDGNMAC1	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
BDGNMAC2	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
BDGNR	VOLUME	2.1336	3.66	-	-	-	11.62791	3.38	-	-	-
BDGNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
BDGNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-	-	-	-
BDGNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
MINENMAC	POINT	0	13.3	0.4	10.5	614	-	-	-	-	-
MINENMBR	POINT	0	13.3	0.4	10.5	614	-	-	-	-	-
MINENMGS1	POINT	0	6.5	0.2	47	761	-	-	-	-	-
MINENMP	POINT	0	13.3	0.4	10.5	614	-	-	-	-	-
BLASTANN	VOLUME	0	50	-	-	-	11.62791	11.63	-	-	-
BLASTHR	VOLUME	0	50	-	-	-	11.62791	11.63	-	-	-
GRVLHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
GRVLSHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
GRVLNMGS1	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
ICERDNMGS1	POINT	1.5	6.5	0.2	47	761	-	-	-	-	-
ICERDNMP	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
ICEPDNMGS1	POINT	1.5	6.5	0.2	47	761	-	-	-	-	-
ICEPDNMP	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
1MICEPDNR	VOLUME	3.048	3.66	-	-	-	32.55814	3.38	-	-	-
1MICEPDNMGS1	POINT	3.048	6.5	0.2	47	761	-	-	-	-	-
1MICEPDNMP	POINT	3.048	13.3	0.4	10.5	614	-	-	-	-	-
WOCMICEPDNR	VOLUME	3.048	3.66	-	-	-	32.55814	3.38	-	-	-
WMICEPDNMGS1	POINT	3.048	6.5	0.2	47	761	-	-	-	-	-
WOCMICEPDNMP	POINT	3.048	13.3	0.4	10.5	614	-	-	-	-	-
GMSMICEPDNR	VOLUME	3.048	3.66	-	-	-	37.2093	3.38	-	-	-
GMICEPDNMGS1	POINT	3.048	6.5	0.2	47	761	-	-	-	-	-
GMSMICEPDNMP	POINT	3.048	13.3	0.4	10.5	614	-	-	-	-	-
STCKPL	VOLUME	1.52	3.66	-	-	-	46.51163	3.38	-	-	-
FBROPHTR	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
FBROPNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-	-	-	-
FBROPNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
PIPHTR	POINT	2.1336	12.2	0.94	5.7	529	-	-	-	-	-
PIPNMAC	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
PIPNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
PIPNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-	-	-	-
PIPNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
PIPNMGS3	POINT	2.1336	6.5	0.2	47	761	-	-	-	-	-
VSMNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-	-	-	-
HDDPE1	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
HDDPE2	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDSE1	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDSE2	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDMPE	POINT	1.5	10.4	0.13	43.5	750	-	-	-	-	-
HDDTPE	POINT	1.5	10.4	0.13	43.5	750	-	-	-	-	-
HDDB1	POINT	1.5	11.9	0.279	11.7	450	-	-	-	-	-
HDDB2	POINT	1.5	11.9	0.279	11.7	450	-	-	-	-	-
HDDH1_W	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDH1_E	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDH2_W	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDH2_E	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDWH_W	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDWH_E	POINT	1.5	10.5	0.3	3.2	533	-	-	-	-	-
HDDNMGE1	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMGE2	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMGE3	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMBGE1	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMBGE2	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMBGE3	POINT	1.5	6.1	0.46	15.1	795	-	-	-	-	-
HDDNMAC1	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDNMAC2	POINT	1.5	13.3	0.4	10.5	614	-	-	-	-	-
HDDNROCE1	VOLUME	1.5	0	-	-	-	19.76744	8.7	-	-	-
HDDNROCE2	VOLUME	1.5	0	-	-	-	19.76744	8.7	-	-	-
HDDNRC	VOLUME	1.5	0	-	-	-	19.76744	8.7	-	-	-
WOCPWRGEN	POINT	3.048	8.6	0.3	20	760	-	-	-	-	-
WOCTEMPTRB	POINT	3.048	25	2	30	550	-	-	-	-	-
WOCFACHTR1	POINT	3.048	12.2	0.94	5.7	529	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCFACNMAC	POINT	3.048	13.3	0.4	10.5	614	-	-	-	-	-
WOCFACNR	VOLUME	3.048	3.66	-	-	-	40.69767	3.38	-	-	-
WOCFACNMGS1	POINT	3.048	6.1	0.46	15.1	795	-	-	-	-	-
WOCFACNMGS2	POINT	3.048	6.5	0.2	47	761	-	-	-	-	-
WILLOWAIR1	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-
WILLOWAIR2	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-
WILLOWAIR3	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-
2TAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2TAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3TAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3TAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3TAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3TAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1TAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1TAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1TAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1TAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCTAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCTAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCTAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCTAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINETAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINETAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINETAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINETAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1MFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1MFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1MFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
1MFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2MFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3MFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3MFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3MFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3MFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCMFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCMFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCMFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
WOCMFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEMFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEMFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEMFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEMFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
3GRVLNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICEPDNRHCE	VOLUME	2.1336	3.66	-	-	-	37.21	3.38	-	-	-
ICEPDNROS1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38	-	-	-
ICEPDNROS2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38	-	-	-
ICEPDNROS3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNROS4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNROS5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNROS6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNROS7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNROS26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNROS44	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38	-	-	-
ICEPDNRIOS2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38	-	-	-
ICEPDNRIOS3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRIOS4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRIOS5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRIOS6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRIOS7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNRIOS9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNRIOS36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRIOS44	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38	-	-	-
ICEPDNRPIP2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38	-	-	-
ICEPDNRPIP3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRPIP4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRPIP5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRPIP6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38	-	-	-
ICEPDNRPIP7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNRPIP19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRPIP44	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38	-	-	-
ICEPDNRHDD1	VOLUME	2.1336	3.66	-	-	-	19.76744	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
ICEPDNRHDD2	VOLUME	2.1336	3.66	-	-	-	19.76744	3.38	-	-	-
ICERDNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICERDNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICERDNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
ICERDNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
PIPNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
PIPNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
PIPNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
PIPNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
VSMNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
VSMNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
VSMNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
VSMNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
FBROPNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
FBROPNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
FBROPNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
FBROPNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2PADNR1	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2PADNR2	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2PADNR3	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2PADNR4	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADNR1	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADNR2	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADNR3	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADNR4	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
MINENR1	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR2	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
MINENR3	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR4	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR5	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR6	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR7	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR8	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINENR9	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
2PADOHT1	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2PADOHT2	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2PADOHT3	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2PADOHT4	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADOHT1	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADOHT2	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADOHT3	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
3PADOHT4	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38	-	-	-
2GRVLOHT1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
2GRVLOHT4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLOHT1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLOHT2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLOHT3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
3GRVLOHT4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38	-	-	-
MINEOHT1	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT2	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT3	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT4	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
MINEOHT5	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT6	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT7	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT8	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
MINEOHT9	VOLUME	0	3.66	-	-	-	32.56	3.38	-	-	-
WLW2GEN	POINT	3.66	10.4	0.13	43.5	750	-	-	-	-	-

Table A.3-3. Alternative D Near-field Model Scenario 1 Emissions Rates

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
2PADHTR1	1.35E-02	5.41E-02	4.98E-02	6.44E-03	5.76E-03	5.31E-03	5.76E-04	5.76E-04	5.31E-04	4704
2PADSHTR1	4.67E-03	1.87E-02	1.72E-02	2.22E-03	1.99E-03	1.83E-03	1.99E-04	1.99E-04	1.83E-04	4704
2PADNMGS1	1.32E-02	2.49E-02	2.29E-02	1.96E-03	1.90E-03	1.75E-03	2.13E-05	2.13E-05	1.96E-05	4704
2FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380
3PADHTR1	1.35E-02	5.41E-02	4.98E-02	6.44E-03	5.76E-03	5.31E-03	5.76E-04	5.76E-04	5.31E-04	4704
3PADSHTR1	4.67E-03	1.87E-02	1.72E-02	2.22E-03	1.99E-03	1.83E-03	1.99E-04	1.99E-04	1.83E-04	4704
3PADNMGS1	1.32E-02	2.49E-02	2.29E-02	1.96E-03	1.90E-03	1.75E-03	2.13E-05	2.13E-05	1.96E-05	4704
3FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380
ALPAIR1	3.92E-08	2.75E-08	2.75E-08	8.08E-10	8.08E-10	8.08E-10	3.78E-09	3.78E-09	3.78E-09	8760
ALPAIR2	3.92E-08	2.75E-08	2.75E-08	8.08E-10	8.08E-10	8.08E-10	3.78E-09	3.78E-09	3.78E-09	8760
ALPAIR3	3.92E-08	2.75E-08	2.75E-08	8.08E-10	8.08E-10	8.08E-10	3.78E-09	3.78E-09	3.78E-09	8760
BDGHTR1	1.22E-03	4.87E-03	5.53E-04	5.79E-04	5.19E-04	5.89E-05	5.19E-05	5.19E-05	5.89E-06	249
BDGHTR2	3.65E-03	1.46E-02	1.66E-03	1.74E-03	1.56E-03	1.77E-04	1.56E-04	1.56E-04	1.77E-05	249
BDGNMAC1	9.36E-04	1.43E-03	1.08E-04	1.23E-04	1.19E-04	9.02E-06	3.55E-06	3.55E-06	2.69E-07	166
BDGNMAC2	1.87E-03	2.85E-03	2.16E-04	2.46E-04	2.38E-04	1.80E-05	7.10E-06	7.10E-06	5.37E-07	166
BDGNR	1.00E-02	3.27E-02	2.75E-03	1.48E-03	1.44E-03	1.16E-04	7.85E-05	7.85E-05	6.06E-06	Varies
BDGNMBR	1.53E-03	6.41E-03	4.85E-04	3.18E-04	3.08E-04	2.33E-05	8.02E-06	8.02E-06	6.07E-07	166
BDGNMGS1	4.41E-03	1.08E-02	1.63E-03	6.79E-04	6.58E-04	9.97E-05	9.24E-06	9.24E-06	1.40E-06	332
BDGNMGS2	3.57E-03	6.72E-03	1.02E-03	5.29E-04	5.13E-04	7.77E-05	5.75E-06	5.75E-06	8.71E-07	332
MINENMAC	3.66E-03	5.08E-02	4.67E-02	5.21E-04	5.05E-04	4.65E-04	4.76E-05	4.76E-05	4.38E-05	2688
MINENMBR	8.08E-02	2.88E-01	2.65E-01	1.21E-02	1.18E-02	1.08E-02	3.35E-04	3.35E-04	3.09E-04	2688
MINENMGS1	2.95E-02	5.57E-02	5.13E-02	4.38E-03	4.25E-03	3.91E-03	4.76E-05	4.76E-05	4.39E-05	2688
MINENMP	1.59E-02	7.95E-02	7.32E-03	2.76E-03	2.68E-03	2.47E-04	7.07E-05	7.07E-05	6.51E-06	269
BLASTANN	0.00E+00	0.00E+00	1.26E+00	0.00E+00	0.00E+00	7.38E-03	0.00E+00	0.00E+00	0.00E+00	2896

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
BLASTHR	8.79E+00	2.23E+00	1.26E+00	2.26E-01	1.30E-02	7.38E-03	2.62E-01	2.62E-01	1.49E-01	2896
GRVLHTR1	9.39E-03	3.75E-02	3.46E-02	4.47E-03	4.00E-03	3.68E-03	4.00E-04	4.00E-04	3.68E-04	2688
GRVLSHTR1	3.24E-03	1.30E-02	1.19E-02	1.54E-03	1.38E-03	1.27E-03	1.38E-04	1.38E-04	1.27E-04	2688
GRVLNMGS1	9.17E-03	1.73E-02	1.59E-02	1.36E-03	1.32E-03	1.21E-03	1.48E-05	1.48E-05	1.36E-05	2688
ICERDNMGS1	4.12E-01	2.32E-01	2.39E-02	6.12E-02	5.93E-02	6.11E-03	6.65E-04	6.65E-04	6.85E-05	526
ICERDNMP	1.03E+00	1.15E+00	1.18E-01	1.55E-01	1.50E-01	1.55E-02	4.47E-03	4.47E-03	4.60E-04	526
ICEPDNMGS1	5.36E-02	6.91E-02	3.49E-02	7.95E-03	7.71E-03	3.89E-03	8.65E-05	8.65E-05	4.37E-05	2579
ICEPDNMP	1.34E-01	3.43E-01	1.73E-01	2.02E-02	1.96E-02	9.87E-03	5.81E-04	5.81E-04	2.93E-04	2579
1MICEPDNR	9.68E-04	7.04E-02	6.48E-02	1.26E-04	1.22E-04	1.13E-04	4.41E-06	4.41E-06	3.45E-06	92
1MICEPDNMGS1	1.92E-03	6.91E-02	1.25E-03	2.85E-04	2.76E-04	5.00E-06	3.10E-06	3.10E-06	5.60E-08	92
1MICEPDNMP	4.78E-03	3.43E-01	6.19E-03	7.22E-04	7.01E-04	1.27E-05	2.08E-05	2.08E-05	3.76E-07	92
WOCMICEPDNR	9.68E-04	7.04E-02	6.48E-02	1.26E-04	1.22E-04	1.13E-04	4.41E-06	4.41E-06	3.45E-06	92
WMICEPDNMGS1	1.92E-03	6.91E-02	1.25E-03	2.85E-04	2.76E-04	5.00E-06	3.10E-06	3.10E-06	5.60E-08	92
WOCMICEPDNMP	4.78E-03	3.43E-01	6.19E-03	7.22E-04	7.01E-04	1.27E-05	2.08E-05	2.08E-05	3.76E-07	92
GMSMICEPDNR	9.68E-04	7.04E-02	6.48E-02	1.26E-04	1.22E-04	1.13E-04	4.41E-06	4.41E-06	3.45E-06	92
GMICEPDNMGS1	1.92E-03	6.91E-02	1.25E-03	2.85E-04	2.76E-04	5.00E-06	3.10E-06	3.10E-06	5.60E-08	92
GMSMICEPDNMP	4.78E-03	3.43E-01	6.19E-03	7.22E-04	7.01E-04	1.27E-05	2.08E-05	2.08E-05	3.76E-07	92
STCKPL	0.00E+00	0.00E+00	0.00E+00	6.63E-01	1.00E-01	1.00E-01	0.00E+00	0.00E+00	0.00E+00	0
FBROPHTR	1.95E-02	7.79E-02	5.38E-02	9.27E-03	8.30E-03	2.15E-03	8.30E-04	8.30E-04	5.73E-04	1512
FBROPNMGS1	2.35E-02	5.73E-02	1.98E-02	3.62E-03	3.51E-03	9.09E-04	4.93E-05	4.93E-05	1.70E-05	756
FBROPNMGS2	1.90E-02	3.59E-02	2.48E-02	2.82E-03	2.74E-03	7.08E-04	3.07E-05	3.07E-05	2.12E-05	1512
PIPHTR	9.91E-02	3.96E-01	1.60E-01	4.72E-02	4.22E-02	1.70E-02	4.22E-03	4.22E-03	1.70E-03	882
PIPNMAC	3.35E-01	1.06E+00	3.21E-01	4.96E-02	4.81E-02	1.45E-02	1.80E-03	1.80E-03	5.44E-04	662
PIPNMBR	1.79E-01	7.26E-01	2.19E-01	3.83E-02	3.71E-02	1.12E-02	8.98E-04	8.98E-04	2.71E-04	662
PIPNMGS1	1.44E-01	3.50E-01	1.41E-01	2.21E-02	2.14E-02	8.63E-03	3.01E-04	3.01E-04	1.21E-04	882

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
PIPNMGS2	7.75E-02	8.02E-02	3.23E-02	7.23E-03	7.02E-03	2.83E-03	6.89E-05	6.89E-05	2.78E-05	882
PIPNMGS3	1.45E-01	2.74E-01	1.10E-01	2.15E-02	2.09E-02	8.41E-03	2.34E-04	2.34E-04	9.43E-05	882
VSMNMBR	9.07E-02	3.81E-01	1.21E-01	1.89E-02	1.83E-02	5.80E-03	4.77E-04	4.77E-04	1.51E-04	693
HDDPE1	3.51E-01	6.42E-01	6.42E-01	2.01E-02	2.01E-02	2.01E-02	6.64E-04	6.64E-04	6.64E-04	2190
HDDPE2	2.73E-01	4.98E-01	4.98E-01	1.56E-02	1.56E-02	1.56E-02	5.15E-04	5.15E-04	5.15E-04	2190
HDDSE1	3.51E-01	6.42E-01	6.42E-02	2.01E-02	2.01E-02	2.01E-03	6.64E-04	6.64E-04	6.64E-05	219
HDDSE2	1.30E-01	2.46E-01	2.46E-02	7.46E-03	7.46E-03	7.46E-04	2.47E-04	2.47E-04	2.47E-05	219
HDDMPE	3.51E-01	6.42E-01	6.42E-01	2.01E-02	2.01E-02	2.01E-02	6.64E-04	6.64E-04	6.64E-04	2190
HDDTPE	1.50E-01	2.83E-01	2.83E-01	8.58E-03	8.58E-03	8.58E-03	2.84E-04	2.84E-04	2.84E-04	2190
HDDB1	7.87E-03	3.15E-02	3.15E-02	3.75E-03	3.35E-03	3.35E-03	3.35E-04	3.35E-04	3.35E-04	2190
HDDB2	1.57E-02	6.30E-02	6.30E-02	7.50E-03	6.71E-03	6.71E-03	6.71E-04	6.71E-04	6.71E-04	2190
HDDH1_W	2.40E-02	9.59E-02	9.59E-02	1.14E-02	1.02E-02	1.02E-02	1.02E-03	1.02E-03	1.02E-03	2190
HDDH1_E	2.40E-02	9.59E-02	9.59E-02	1.14E-02	1.02E-02	1.02E-02	1.02E-03	1.02E-03	1.02E-03	2190
HDDH2_W	1.10E-02	4.38E-02	4.38E-02	5.22E-03	4.67E-03	4.67E-03	4.67E-04	4.67E-04	4.67E-04	2190
HDDH2_E	1.10E-02	4.38E-02	4.38E-02	5.22E-03	4.67E-03	4.67E-03	4.67E-04	4.67E-04	4.67E-04	2190
HDDWH_W	5.69E-03	2.28E-02	2.28E-02	2.71E-03	2.42E-03	2.42E-03	2.42E-04	2.42E-04	2.42E-04	2190
HDDWH_E	5.69E-03	2.28E-02	2.28E-02	2.71E-03	2.42E-03	2.42E-03	2.42E-04	2.42E-04	2.42E-04	2190
HDDNMGE1	1.28E+00	1.46E+00	1.46E+00	7.31E-02	7.31E-02	7.31E-02	2.70E-03	2.70E-03	2.70E-03	2190
HDDNMGE2	6.14E-01	7.02E-01	7.02E-01	3.51E-02	3.51E-02	3.51E-02	1.29E-03	1.29E-03	1.29E-03	2190
HDDNMGE3	7.68E-01	8.77E-01	8.77E-01	4.39E-02	4.39E-02	4.39E-02	1.62E-03	1.62E-03	1.62E-03	2190
HDDNMBGE1	1.28E+00	1.46E+00	1.46E-01	7.31E-02	7.31E-02	7.31E-03	2.70E-03	2.70E-03	2.70E-04	219
HDDNMBGE2	6.14E-01	7.02E-01	7.02E-02	3.51E-02	3.51E-02	3.51E-03	1.29E-03	1.29E-03	1.29E-04	219
HDDNMBGE3	6.14E-01	7.02E-01	7.02E-02	3.51E-02	3.51E-02	3.51E-03	1.29E-03	1.29E-03	1.29E-04	219
HDDNMAC1	4.62E-03	2.13E-02	7.11E-03	8.81E-04	8.54E-04	2.85E-04	5.90E-05	5.90E-05	1.97E-05	730
HDDNMAC2	4.62E-03	2.13E-02	7.11E-03	8.81E-04	8.54E-04	2.85E-04	5.90E-05	5.90E-05	1.97E-05	730

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
HDDNROCE1	6.99E-03	2.11E-02	7.04E-03	1.22E-03	1.18E-03	3.93E-04	5.95E-05	5.95E-05	1.98E-05	730
HDDNROCE2	6.99E-03	2.11E-02	7.04E-03	1.22E-03	1.18E-03	3.93E-04	5.95E-05	5.95E-05	1.98E-05	730
HDDNRC	3.45E-03	1.68E-02	5.60E-03	5.90E-04	5.73E-04	1.91E-04	6.33E-05	6.33E-05	2.11E-05	730
WOCPWRGEN	3.89E+00	3.89E+00	1.94E+00	1.11E-01	1.11E-01	5.56E-02	7.35E-03	7.35E-03	3.67E-03	4380
WOCTEMPTRB	5.29E+00	6.96E+00	6.96E+00	1.83E-01	1.83E-01	1.83E-01	2.37E-02	2.37E-02	2.37E-02	8760
WOCFACHTR1	8.19E-02	3.28E-01	1.26E-01	3.90E-02	3.49E-02	1.34E-02	3.49E-03	3.49E-03	1.34E-03	1680
WOCFACNMAC	3.60E-02	5.48E-02	5.26E-03	4.72E-03	4.58E-03	4.39E-04	1.36E-04	1.36E-04	1.31E-05	420
WOCFACNR	2.29E-01	3.49E-01	2.24E-01	3.16E-02	3.07E-02	2.07E-02	5.61E-04	5.61E-04	3.51E-04	1260
WOCFACNMGS1	4.94E-02	1.78E-01	6.83E-02	1.07E-02	1.03E-02	3.96E-03	2.10E-04	2.10E-04	8.06E-05	1680
WOCFACNMGS2	8.00E-02	1.51E-01	5.78E-02	1.19E-02	1.15E-02	4.41E-03	1.29E-04	1.29E-04	4.95E-05	1680
WILLOWAIR1	9.04E-08	2.07E-08	2.07E-08	1.34E-09	1.34E-09	1.34E-09	4.68E-09	4.68E-09	4.68E-09	8760
WILLOWAIR2	9.04E-08	2.07E-08	2.07E-08	1.34E-09	1.34E-09	1.34E-09	4.68E-09	4.68E-09	4.68E-09	8760
WILLOWAIR3	9.04E-08	2.07E-08	2.07E-08	1.34E-09	1.34E-09	1.34E-09	4.68E-09	4.68E-09	4.68E-09	8760
2TAIL1	1.07E-02	2.63E-02	1.83E-02	1.49E-03	1.43E-03	9.94E-04	6.93E-05	6.93E-05	4.83E-05	8760
2TAIL2	1.07E-02	2.63E-02	1.83E-02	1.49E-03	1.43E-03	9.94E-04	6.93E-05	6.93E-05	4.83E-05	8760
2TAIL3	1.07E-02	2.63E-02	1.83E-02	1.49E-03	1.43E-03	9.94E-04	6.93E-05	6.93E-05	4.83E-05	8760
2TAIL4	1.07E-02	2.63E-02	1.83E-02	1.49E-03	1.43E-03	9.94E-04	6.93E-05	6.93E-05	4.83E-05	8760
3TAIL1	1.07E-02	2.63E-02	1.83E-02	1.49E-03	1.43E-03	9.94E-04	6.93E-05	6.93E-05	4.83E-05	8760
3TAIL2	1.07E-02	2.63E-02	1.83E-02	1.49E-03	1.43E-03	9.94E-04	6.93E-05	6.93E-05	4.83E-05	8760
3TAIL3	1.07E-02	2.63E-02	1.83E-02	1.49E-03	1.43E-03	9.94E-04	6.93E-05	6.93E-05	4.83E-05	8760
3TAIL4	1.07E-02	2.63E-02	1.83E-02	1.49E-03	1.43E-03	9.94E-04	6.93E-05	6.93E-05	4.83E-05	8760
1TAIL1	3.85E-04	4.64E-04	4.64E-04	4.07E-05	2.43E-05	2.43E-05	1.66E-06	1.66E-06	1.66E-06	8760
1TAIL2	3.85E-04	4.64E-04	4.64E-04	4.07E-05	2.43E-05	2.43E-05	1.66E-06	1.66E-06	1.66E-06	8760
1TAIL3	3.85E-04	4.64E-04	4.64E-04	4.07E-05	2.43E-05	2.43E-05	1.66E-06	1.66E-06	1.66E-06	8760
1TAIL4	3.85E-04	4.64E-04	4.64E-04	4.07E-05	2.43E-05	2.43E-05	1.66E-06	1.66E-06	1.66E-06	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCTAIL1	3.85E-04	4.64E-04	4.64E-04	4.07E-05	2.43E-05	2.43E-05	1.66E-06	1.66E-06	1.66E-06	8760
WOCTAIL2	3.85E-04	4.64E-04	4.64E-04	4.07E-05	2.43E-05	2.43E-05	1.66E-06	1.66E-06	1.66E-06	8760
WOCTAIL3	3.85E-04	4.64E-04	4.64E-04	4.07E-05	2.43E-05	2.43E-05	1.66E-06	1.66E-06	1.66E-06	8760
WOCTAIL4	3.85E-04	4.64E-04	4.64E-04	4.07E-05	2.43E-05	2.43E-05	1.66E-06	1.66E-06	1.66E-06	8760
MINETAIL1	1.07E-02	2.63E-02	1.83E-02	1.49E-03	1.43E-03	9.94E-04	6.93E-05	6.93E-05	4.83E-05	8760
MINETAIL2	1.07E-02	2.63E-02	1.83E-02	1.49E-03	1.43E-03	9.94E-04	6.93E-05	6.93E-05	4.83E-05	8760
MINETAIL3	1.07E-02	2.63E-02	1.83E-02	1.49E-03	1.43E-03	9.94E-04	6.93E-05	6.93E-05	4.83E-05	8760
MINETAIL4	1.07E-02	2.63E-02	1.83E-02	1.49E-03	1.43E-03	9.94E-04	6.93E-05	6.93E-05	4.83E-05	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
MINEMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MINEMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
MINEMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
MINEMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.50E-02	3.50E-03	3.50E-03	0.00E+00	0.00E+00	0.00E+00	4380
2GRVLNR1	1.17E-05	3.07E-05	2.64E-05	1.61E-06	1.56E-06	1.35E-06	1.26E-07	1.26E-07	1.08E-07	Varies
2GRVLNR2	1.17E-05	3.07E-05	2.64E-05	1.61E-06	1.56E-06	1.35E-06	1.26E-07	1.26E-07	1.08E-07	Varies
2GRVLNR3	1.17E-05	3.07E-05	2.64E-05	1.61E-06	1.56E-06	1.35E-06	1.26E-07	1.26E-07	1.08E-07	Varies
2GRVLNR4	1.17E-05	3.07E-05	2.64E-05	1.61E-06	1.56E-06	1.35E-06	1.26E-07	1.26E-07	1.08E-07	Varies
3GRVLNR1	1.17E-05	3.07E-05	2.64E-05	1.61E-06	1.56E-06	1.35E-06	1.26E-07	1.26E-07	1.08E-07	Varies
3GRVLNR2	1.17E-05	3.07E-05	2.64E-05	1.61E-06	1.56E-06	1.35E-06	1.26E-07	1.26E-07	1.08E-07	Varies
3GRVLNR3	1.17E-05	3.07E-05	2.64E-05	1.61E-06	1.56E-06	1.35E-06	1.26E-07	1.26E-07	1.08E-07	Varies
3GRVLNR4	1.17E-05	3.07E-05	2.64E-05	1.61E-06	1.56E-06	1.35E-06	1.26E-07	1.26E-07	1.08E-07	Varies
ICEPDNRHCE	4.10E-02	1.07E-01	9.84E-02	5.34E-03	5.18E-03	4.77E-03	1.87E-04	1.87E-04	1.72E-04	2579
ICEPDNROS1	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS2	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS3	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS4	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS5	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS6	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS7	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS8	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS9	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS10	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS11	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS12	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS13	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNROS14	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS15	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS16	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS17	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS18	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS19	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS20	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS21	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS22	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS23	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS24	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS25	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS26	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS27	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS28	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS29	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS30	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS31	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS32	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS33	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS34	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS35	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS36	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS37	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS38	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNROS39	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS40	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS41	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS42	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS43	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNROS44	5.37E-04	1.40E-03	1.29E-03	6.98E-05	6.77E-05	6.23E-05	2.44E-06	2.44E-06	2.25E-06	2579
ICEPDNRIOS1	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS2	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS3	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS4	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS5	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS6	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS7	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS8	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS9	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS10	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS11	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS12	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS13	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS14	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS15	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS16	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS17	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS18	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS19	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRIOS20	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS21	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS22	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS23	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS24	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS25	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS26	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS27	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS28	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS29	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS30	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS31	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS32	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS33	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS34	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS35	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS36	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS37	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS38	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS39	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS40	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS41	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS42	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS43	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579
ICEPDNRIOS44	3.09E-03	8.05E-03	7.41E-03	4.02E-04	3.90E-04	3.59E-04	1.41E-05	1.41E-05	1.29E-05	2579

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRPIP1	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP2	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP3	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP4	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP5	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP6	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP7	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP8	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP9	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP10	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP11	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP12	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP13	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP14	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP15	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP16	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP17	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP18	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP19	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP20	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP21	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP22	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP23	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP24	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP25	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRPIP26	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP27	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP28	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP29	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP30	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP31	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP32	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP33	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP34	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP35	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP36	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP37	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP38	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP39	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP40	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP41	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP42	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP43	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRPIP44	3.47E-03	9.04E-03	8.32E-03	4.52E-04	4.38E-04	4.03E-04	1.58E-05	1.58E-05	1.45E-05	2579
ICEPDNRHDD1	1.56E-02	4.08E-02	3.75E-02	2.04E-03	1.98E-03	1.82E-03	7.12E-05	7.12E-05	6.56E-05	2579
ICEPDNRHDD2	1.39E-02	3.62E-02	3.33E-02	1.81E-03	1.75E-03	1.62E-03	6.33E-05	6.33E-05	5.82E-05	2579
ICERDNR1	1.37E-03	1.56E-03	1.27E-04	1.78E-04	1.73E-04	1.42E-05	6.24E-06	6.24E-06	5.10E-07	526
ICERDNR2	1.37E-03	1.56E-03	1.27E-04	1.78E-04	1.73E-04	1.42E-05	6.24E-06	6.24E-06	5.10E-07	526
ICERDNR3	1.37E-03	1.56E-03	1.27E-04	1.78E-04	1.73E-04	1.42E-05	6.24E-06	6.24E-06	5.10E-07	526
ICERDNR4	1.37E-03	1.56E-03	1.27E-04	1.78E-04	1.73E-04	1.42E-05	6.24E-06	6.24E-06	5.10E-07	526

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
PIPNR1	2.35E-05	8.43E-05	6.10E-05	3.61E-06	3.50E-06	2.53E-06	2.67E-07	2.67E-07	1.91E-07	Varies
PIPNR2	2.35E-05	8.43E-05	6.10E-05	3.61E-06	3.50E-06	2.53E-06	2.67E-07	2.67E-07	1.91E-07	Varies
PIPNR3	2.35E-05	8.43E-05	6.10E-05	3.61E-06	3.50E-06	2.53E-06	2.67E-07	2.67E-07	1.91E-07	Varies
PIPNR4	2.35E-05	8.43E-05	6.10E-05	3.61E-06	3.50E-06	2.53E-06	2.67E-07	2.67E-07	1.91E-07	Varies
VSMNR1	8.93E-06	2.38E-05	2.21E-05	1.27E-06	1.23E-06	1.21E-06	4.63E-08	4.63E-08	4.11E-08	Varies
VSMNR2	8.93E-06	2.38E-05	2.21E-05	1.27E-06	1.23E-06	1.21E-06	4.63E-08	4.63E-08	4.11E-08	Varies
VSMNR3	8.93E-06	2.38E-05	2.21E-05	1.27E-06	1.23E-06	1.21E-06	4.63E-08	4.63E-08	4.11E-08	Varies
VSMNR4	8.93E-06	2.38E-05	2.21E-05	1.27E-06	1.23E-06	1.21E-06	4.63E-08	4.63E-08	4.11E-08	Varies
FBROPNR1	2.15E-06	3.56E-06	2.68E-06	2.83E-07	2.74E-07	9.47E-08	7.46E-09	7.46E-09	4.40E-09	Varies
FBROPNR2	2.15E-06	3.56E-06	2.68E-06	2.83E-07	2.74E-07	9.47E-08	7.46E-09	7.46E-09	4.40E-09	Varies
FBROPNR3	2.15E-06	3.56E-06	2.68E-06	2.83E-07	2.74E-07	9.47E-08	7.46E-09	7.46E-09	4.40E-09	Varies
FBROPNR4	2.15E-06	3.56E-06	2.68E-06	2.83E-07	2.74E-07	9.47E-08	7.46E-09	7.46E-09	4.40E-09	Varies
2PADNR1	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	Varies
2PADNR2	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	Varies
2PADNR3	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	Varies
2PADNR4	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	Varies
3PADNR1	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	Varies
3PADNR2	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	Varies
3PADNR3	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	Varies
3PADNR4	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	Varies
MINENR1	1.93E-02	4.51E-02	2.63E-02	2.65E-03	2.57E-03	1.62E-03	1.09E-04	1.09E-04	5.93E-05	Varies
MINENR2	1.93E-02	4.51E-02	2.63E-02	2.65E-03	2.57E-03	1.62E-03	1.09E-04	1.09E-04	5.93E-05	Varies
MINENR3	1.93E-02	4.51E-02	2.63E-02	2.65E-03	2.57E-03	1.62E-03	1.09E-04	1.09E-04	5.93E-05	Varies
MINENR4	1.93E-02	4.51E-02	2.63E-02	2.65E-03	2.57E-03	1.62E-03	1.09E-04	1.09E-04	5.93E-05	Varies
MINENR5	1.93E-02	4.51E-02	2.63E-02	2.65E-03	2.57E-03	1.62E-03	1.09E-04	1.09E-04	5.93E-05	Varies

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MINENR6	1.93E-02	4.51E-02	2.63E-02	2.65E-03	2.57E-03	1.62E-03	1.09E-04	1.09E-04	5.93E-05	Varies
MINENR7	1.93E-02	4.51E-02	2.63E-02	2.65E-03	2.57E-03	1.62E-03	1.09E-04	1.09E-04	5.93E-05	Varies
MINENR8	1.93E-02	4.51E-02	2.63E-02	2.65E-03	2.57E-03	1.62E-03	1.09E-04	1.09E-04	5.93E-05	Varies
MINENR9	1.93E-02	4.51E-02	2.63E-02	2.65E-03	2.57E-03	1.62E-03	1.09E-04	1.09E-04	5.93E-05	Varies
2PADOHT1	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT2	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT3	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT4	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT1	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT2	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT3	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT4	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2GRVLOHT1	2.35E-05	5.89E-05	4.07E-05	3.31E-06	3.21E-06	2.21E-06	1.54E-07	1.54E-07	1.07E-07	1512
2GRVLOHT2	2.35E-05	5.89E-05	4.07E-05	3.31E-06	3.21E-06	2.21E-06	1.54E-07	1.54E-07	1.07E-07	1512
2GRVLOHT3	2.35E-05	5.89E-05	4.07E-05	3.31E-06	3.21E-06	2.21E-06	1.54E-07	1.54E-07	1.07E-07	1512
2GRVLOHT4	2.35E-05	5.89E-05	4.07E-05	3.31E-06	3.21E-06	2.21E-06	1.54E-07	1.54E-07	1.07E-07	1512
3GRVLOHT1	2.35E-05	5.89E-05	4.07E-05	3.31E-06	3.21E-06	2.21E-06	1.54E-07	1.54E-07	1.07E-07	1512
3GRVLOHT2	2.35E-05	5.89E-05	4.07E-05	3.31E-06	3.21E-06	2.21E-06	1.54E-07	1.54E-07	1.07E-07	1512
3GRVLOHT3	2.35E-05	5.89E-05	4.07E-05	3.31E-06	3.21E-06	2.21E-06	1.54E-07	1.54E-07	1.07E-07	1512
3GRVLOHT4	2.35E-05	5.89E-05	4.07E-05	3.31E-06	3.21E-06	2.21E-06	1.54E-07	1.54E-07	1.07E-07	1512
MINEOHT1	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT2	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT3	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT4	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT5	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MINEOHT6	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT7	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT8	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT9	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
WLW2GEN	1.25E-01	2.28E-01	1.30E-02	7.13E-03	7.13E-03	4.07E-04	0.00E+00	0.00E+00	0.00E+00	500

A.3.2 Scenario 4: Development Drilling

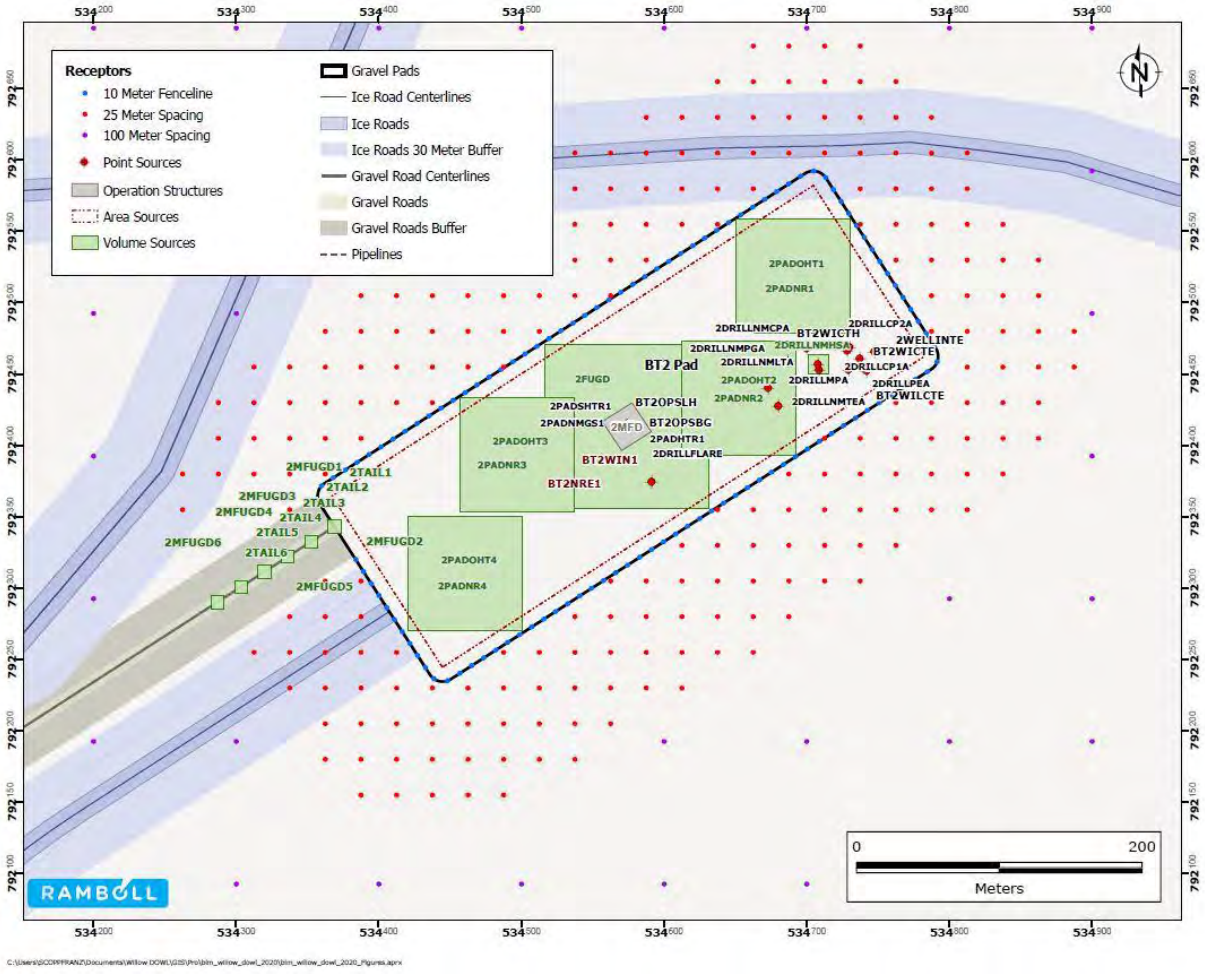


Figure A.3-10. Alternative D Near-field Model Scenario 4 Source Locations at BT2.

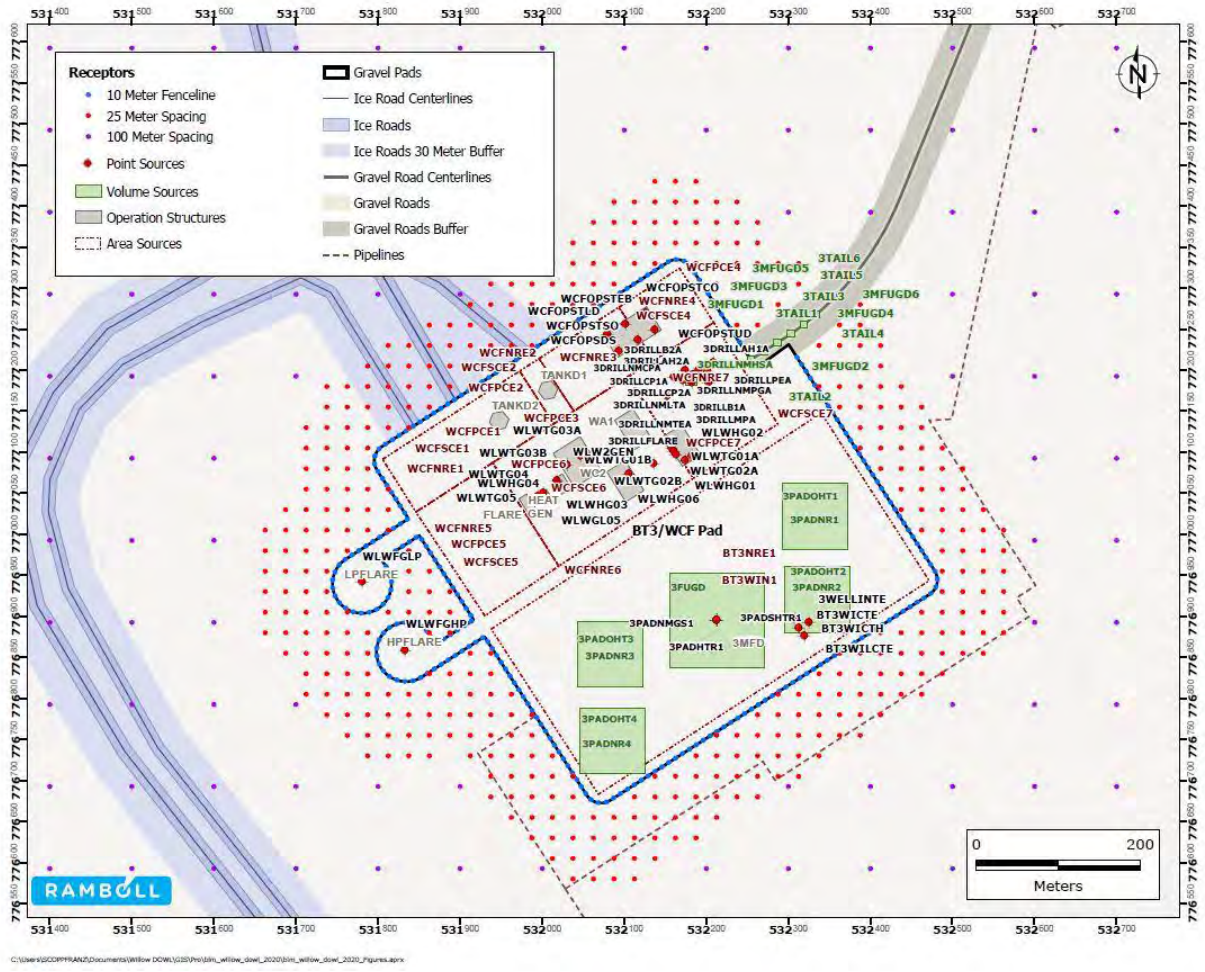


Figure A.3-11. Alternative D Near-field Model Scenario 4 Source Locations at BT3.

Table A.3-4. Alternative D Near-field Model Scenario 4 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCOPSTDR	POINT	WOC - Storage Tanks - VFRT/ DRA (drag reducing agent)	-	-
BT1OPSLH	POINT	BT1 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT1OPSBG	POINT	BT1 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT1OPSFUG	VOLUME	BT1 - Fugitive Components	-	-
BT1OPSFUGD	VOLUME	BT1 - Wind Erosion Fugitive Dust	-	-
BT1OPSTEB	POINT	BT1 - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
BT1OPSTD	POINT	BT1 - Storage Tanks - VFRT/ Diesel	-	-
BT1OPSTCO	POINT	BT1 - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
BT1WICTH	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT1WICTE	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT1WILCTE	POINT	BT1 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT2OPSLH	POINT	BT2 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT2OPSBG	POINT	BT2 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT2OPSFUG	VOLUME	BT2 - Fugitive Components	-	-
BT2OPSFUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust	-	-
BT2WICTH	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT2WICTE	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT2WILCTE	POINT	BT2 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT3OPSFUG	VOLUME	BT3 - Fugitive Components	-	-
BT3OPSFUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust	-	-
BT3WICTH	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT3WICTE	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT3WILCTE	POINT	BT3 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT4OPSLH	POINT	BT4 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT4OPSBG	POINT	BT4 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT4OPSFUG	VOLUME	BT4 - Fugitive Components	-	-
BT4OPSFUGD	VOLUME	BT4 - Wind Erosion Fugitive Dust	-	-
BT4OPSTEB	POINT	BT4 - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
BT4OPSTD	POINT	BT4 - Storage Tanks - VFRT/ Diesel	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
BT4OPSTCO	POINT	BT4 - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
BT4WICTH	POINT	BT4 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT4WICTE	POINT	BT4 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT4WILCTE	POINT	BT4 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT5OPSLH	POINT	BT5 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT5OPSBG	POINT	BT5 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT5OPSFUG	VOLUME	BT5 - Fugitive Components	-	-
BT5OPSFUGD	VOLUME	BT5 - Wind Erosion Fugitive Dust	-	-
BT5WICTH	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT5WICTE	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT5WILCTE	POINT	BT5 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
WLWTG03A	POINT	WPF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG03B	POINT	WPF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG01A	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG01B	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02A	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02B	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG04	POINT	WPF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines
WLWTG05	POINT	WPF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines
WLWGL05	POINT	WPF - Stationary Combustion Sources - Black Start Engine	0.1	Diesel engines
WLWHG03	POINT	WPF - Stationary Combustion Sources - Crude Production Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG04	POINT	WPF - Stationary Combustion Sources - Crude Production Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG01	POINT	WPF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG02	POINT	WPF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG06	POINT	WPF - Stationary Combustion Sources - Hot Oil Heater	0.05	Diesel or natural gas heaters, or boiler
WLWFGLP	POINT	WPF - Stationary Combustion Sources - LP Flare (pilot/purge/assist)	0.5	USEPA default value

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WLWFGHP	POINT	WPF - Stationary Combustion Sources - HP Flare (pilot/purge/assist)	0.5	USEPA default value
WCFOPSDS	POINT	WPF - Stationary Combustion Sources - Diesel Fueling Station	-	-
WCFOPSTSO	POINT	WPF - Storage Tanks - VFRT/ Slop Oil	-	-
WCFOPSTCO	POINT	WPF - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
WCFOPSTUD	POINT	WPF - Storage Tanks - VFRT/ ULSD	-	-
WCFOPSTLD	POINT	WPF - Storage Tanks - VFRT/ LEPD	-	-
WCFOPSTEB	POINT	WPF - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
WCFOPSFUG	VOLUME	WPF - Fugitive Equipment Leaks	-	-
WCFOPSFUGD	VOLUME	WPF - Wind Erosion Fugitive Dust	-	-
WOCPWRGEN1	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines
WOCPWRGEN2	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines
WOCPWRGEN3	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines
WLWIG01	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value
WLWIG02	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value
WLWHL05	POINT	WOC - Stationary Combustion Sources - Mud Plant Glycol Boiler	0.05	Diesel or natural gas heaters, or boiler
WOCOPSTJF	POINT	WOC - Storage Tanks - VFRT/ Aircraft Jet Fuel	-	-
WOCOPSTHC	POINT	WOC - Storage Tanks - VFRT/ Hydrocarbon	-	-
WOCOPSTD	POINT	WOC - Storage Tanks - VFRT/ Diesel	-	-
WILLOWAIR1	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 50.8m	0.5	USEPA default value
WILLOWAIR2	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 152.4m	0.5	USEPA default value
WILLOWAIR3	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 254m	0.5	USEPA default value
WOCOPSFUGD	VOLUME	WOC - Wind Erosion Fugitive Dust - Wind Erosion	-	-
WCFPCE1	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE2	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE3	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE4	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFPCE5	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE6	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE7	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE1	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE2	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE3	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE4	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE5	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE6	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE7	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFNRE1	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE2	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE3	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE4	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE5	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE6	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFNRE7	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WLW2GEN	POINT	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines >140 HP	0.1	Diesel engines
BT3NRE1	AREAPOLY	BT3 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT3WIN1	AREAPOLY	BT3 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
3WELLINTE	POINT	BT3 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT1NRE1	AREAPOLY	BT1 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT1WIN1	AREAPOLY	BT1 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
1WELLINTE	POINT	BT1 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT2NRE1	AREAPOLY	BT2 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT2WIN1	AREAPOLY	BT2 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
2WELLINTE	POINT	BT2 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT4NRE1	AREAPOLY	BT4 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT4WIN1	AREAPOLY	BT4 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
4WELLINTE	POINT	BT4 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT5NRE1	AREAPOLY	BT5 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT5WIN1	AREAPOLY	BT5 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
5WELLINTE	POINT	BT5 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
WOCPCE	AREAPOLY	WOC - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCSCE	AREAPOLY	WOC - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCNRE	AREAPOLY	WOC - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
1TAIL1	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1TAIL6	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL7	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL8	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL9	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
2TAIL1	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL4	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL5	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL6	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
3TAIL1	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL2	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL3	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL4	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL5	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL6	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
4TAIL1	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL2	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL3	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL4	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL5	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL6	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL7	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
5TAIL1	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL2	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL3	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL4	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL5	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL6	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL7	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL8	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL9	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL10	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL11	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL12	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL13	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL14	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL15	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL16	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL17	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL18	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL19	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL20	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL21	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL22	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL23	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL24	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL25	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL26	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL27	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL28	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL29	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL30	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCTAIL31	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL32	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL33	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL34	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL35	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL36	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL37	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL38	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL39	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL40	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL41	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL42	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL43	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL44	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL45	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL46	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL47	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL48	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL49	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL50	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL51	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL52	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL53	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL54	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL55	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL56	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL57	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL58	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL59	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL60	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCTAIL61	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL62	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL63	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL1	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL2	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL3	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL4	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL5	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL6	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD8	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD9	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
3MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
4MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
WCFMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WOCMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD8	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD9	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD10	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD11	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD12	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD13	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD14	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD15	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD16	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD17	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD18	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD19	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD20	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD21	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD22	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD23	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD24	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD25	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD26	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD27	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD28	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD29	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD30	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD31	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD32	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD33	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCMFUGD34	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD35	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD36	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD37	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD38	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD39	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD40	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD41	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD42	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD43	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD44	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD45	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD46	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD47	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD48	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD49	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD50	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD51	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD52	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD53	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD54	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD55	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD56	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD57	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD58	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD59	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD60	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD61	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD62	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD63	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
AIRMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCTEMPTRB1	POINT	WOC - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WOCTEMPTRB2	POINT	WOC - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
RFDGMT1	POINT	RFD - GMT1	0.2	Diesel tailpipe from non-road equipment
RFDGMT2	POINT	RFD - GMT2	0.2	Diesel tailpipe from non-road equipment
RFDGWPDS1	POINT	RFD - Greater Willow Project Drill Site #1	0.15	Diesel engines/natural gas-fired turbines
RFDGWPDS2	POINT	RFD - Greater Willow Project Drill Site #2	0.15	Diesel engines/natural gas-fired turbines
RFDCD5	POINT	RFD - CD5	0.2	Diesel tailpipe from non-road equipment
2DRILLPEA	POINT	BT2 - Drill Rigs - Primary Power Engines	0.1	Diesel engines
2DRILLCP1A	POINT	BT2 - Drill Rigs - Cement Pumping Unit #1	0.2	Diesel tailpipe from non-road equipment
2DRILLCP2A	POINT	BT2 - Drill Rigs - Cement Pumping Unit #2	0.2	Diesel tailpipe from non-road equipment
2DRILLB1A	POINT	BT2 - Drill Rigs - Boiler #1	0.05	Diesel or natural gas heaters, or boiler
2DRILLB2A	POINT	BT2 - Drill Rigs - Boiler #2	0.05	Diesel or natural gas heaters, or boiler
2DRILLAH1A	POINT	BT2 - Drill Rigs - Air Heater #1	0.05	Diesel or natural gas heaters, or boiler
2DRILLAH2A	POINT	BT2 - Drill Rigs - Air Heater #2	0.05	Diesel or natural gas heaters, or boiler
2DRILLMPA	POINT	BT2 - Drill Rigs - Mud Pit Heater	0.05	Diesel or natural gas heaters, or boiler
2DRILLNMTEA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
2DRILLNMLTA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Lighting Engine	0.2	Diesel tailpipe from non-road equipment
2DRILLNMPGA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Portable Generators	0.1	Diesel engines
2DRILLNMCPA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine	0.1	Diesel engines
2DRILLNMHSA	VOLUME	BT2 - Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
2DRILLFLARE	POINT	BT2 - Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	USEPA default value

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
3DRILLPEA	POINT	BT3 - Drill Rigs - Primary Power Engines	0.1	Diesel tailpipe from non-road equipment
3DRILLCP1A	POINT	BT3 - Drill Rigs - Cement Pumping Unit #1	0.2	Diesel tailpipe from non-road equipment
3DRILLCP2A	POINT	BT3 - Drill Rigs - Cement Pumping Unit #2	0.2	Diesel tailpipe from non-road equipment
3DRILLB1A	POINT	BT3 - Drill Rigs - Boiler #1	0.05	Diesel or natural gas heaters, or boiler
3DRILLB2A	POINT	BT3 - Drill Rigs - Boiler #2	0.05	Diesel or natural gas heaters, or boiler
3DRILLAH1A	POINT	BT3 - Drill Rigs - Air Heater #1	0.05	Diesel or natural gas heaters, or boiler
3DRILLAH2A	POINT	BT3 - Drill Rigs - Air Heater #2	0.05	Diesel or natural gas heaters, or boiler
3DRILLMPA	POINT	BT3 - Drill Rigs - Mud Pit Heater	0.05	Diesel or natural gas heaters, or boiler
3DRILLNMTEA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
3DRILLNMLTA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Lighting Engine	0.2	Diesel tailpipe from non-road equipment
3DRILLNMPGA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Portable Generators	0.1	Diesel tailpipe from non-road equipment
3DRILLNMCPA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine	0.1	Diesel tailpipe from non-road equipment
3DRILLNMHSA	VOLUME	BT3 - Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
3DRILLFLARE	POINT	BT3 - Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	USEPA default value
2PADHTR1	POINT	BT2 - Pad Construction - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
2PADSHTR1	POINT	BT2 - Pad Construction - Construction Shop Heaters	0.05	Diesel or natural gas heaters, or boiler
2PADNMGS1	POINT	BT2 - Pad Construction - Generator Sets	0.1	Diesel tailpipe from non-road equipment
3PADHTR1	POINT	BT3 - Pad Construction - Construction Heaters	0.05	Diesel or natural gas heaters, or boiler
3PADSHTR1	POINT	BT3 - Pad Construction - Construction Shop Heaters	0.05	Diesel or natural gas heaters, or boiler
3PADNMGS1	POINT	BT3 - Pad Construction - Generator Sets	0.1	Diesel tailpipe from non-road equipment
2PADNR1	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR2	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR3	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR4	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR1	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR2	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR3	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR4	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2PADOHT1	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT2	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT3	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT4	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT1	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT2	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT3	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT4	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2FUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust	-	-
3FUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust	-	-

Table A.3-5. Alternative D Near-field Model Scenario 4 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCOPSTDR	POINT	3.05	5.4864	0.1016	1.67652	294.261111	-	-	-	-	-
BT1OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT1OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT1OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT1OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT1OPSTEB	POINT	2.7432	5.4864	0.1016	1.67652	283.15	-	-	-	-	-
BT1OPSTD	POINT	2.7432	5.4864	0.1016	1.67652	299.816667	-	-	-	-	-
BT1OPSTCO	POINT	2.7432	5.4864	0.1016	1.67652	277.594444	-	-	-	-	-
BT1WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT1WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT1WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT2OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT2OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT2OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT2WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT3OPSFUG	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
BT3OPSFUGD	VOLUME	3.66	3.7	-	-	-	26.74	3.38	-	-	-
BT3WICTH	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT3WICTE	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT3WILCTE	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT4OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT4OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT4OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT4OPSFUGD	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT4OPSTEB	POINT	2.7432	5.4864	0.1016	1.67652	283.15	-	-	-	-	-
BT4OPSTD	POINT	2.7432	5.4864	0.1016	1.67652	299.816667	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
BT4OPSTCO	POINT	2.7432	5.4864	0.1016	1.67652	277.594444	-	-	-	-	-
BT4WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT4WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT4WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT5OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT5OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT5OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT5WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
WLWTG03A	POINT	3.66	25	2	30	370	-	-	-	-	-
WLWTG03B	POINT	3.66	25	2	30	370	-	-	-	-	-
WLWTG01A	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG01B	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG02A	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG02B	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG04	POINT	3.66	25	2	30	550	-	-	-	-	-
WLWTG05	POINT	3.66	25	2	30	550	-	-	-	-	-
WLWGL05	POINT	3.66	5.5	0.3	20	760	-	-	-	-	-
WLWHG03	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG04	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG01	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG02	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG06	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWFGLP	POINT	3.66	25	0.2	20	1273	-	-	-	-	-
WLWFGHP	POINT	3.66	25	0.2	20	1273	-	-	-	-	-
WCFOPSDS	POINT	3.66	5.5	0.1	1.68	0	-	-	-	-	-
WCFOPSTSO	POINT	3.66	5.4864	0.1016	1.67652	319.261111	-	-	-	-	-
WCFOPSTCO	POINT	3.66	5.4864	0.1016	1.67652	277.594444	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WCFOPSTUD	POINT	3.66	12.8016	0.1524	0.74512	299.816667	-	-	-	-	-
WCFOPSTLD	POINT	3.66	5.4864	0.1016	1.67652	299.816667	-	-	-	-	-
WCFOPSTEB	POINT	3.66	5.4864	0.1016	1.67652	283.15	-	-	-	-	-
WCFOPSFUG	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
WCFOPSFUGD	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
WOCPWRGEN1	POINT	3.05	8.6	0.3	20	760	-	-	-	-	-
WOCPWRGEN2	POINT	3.05	8.6	0.3	20	760	-	-	-	-	-
WOCPWRGEN3	POINT	3.05	8.6	0.3	20	760	-	-	-	-	-
WLWIG01	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWIG02	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWHL05	POINT	3.05	5.5	0.3	10	525	-	-	-	-	-
WOCOPSTJF	POINT	3.05	5.4864	0.1016	1.67652	283.15	-	-	-	-	-
WOCOPSTHC	POINT	3.05	5.4864	0.1016	1.67652	0	-	-	-	-	-
WOCOPSTD	POINT	3.05	5.4864	0.1016	1.67652	299.816667	-	-	-	-	-
WILLOWAIR1	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-
WILLOWAIR2	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-
WILLOWAIR3	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-
WOCOPSFUGD	VOLUME	3.05	3.7	-	-	-	15.1	3.38	-	-	-
WCFPCE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFPCE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFPCE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFPCE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFSCE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFSCE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WCFSCE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFSCE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFNRE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFNRE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFNRE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WLW2GEN	POINT	3.66	6.1	0.46	15.1	795	-	-	-	-	-
BT3NRE1	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
BT3WIN1	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
3WELLINTE	POINT	3.66	6.1	0.46	15.1	795	-	-	-	-	-
BT1NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT1WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
1WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT2NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT2WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
2WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT4NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT4WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
4WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT5NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT5WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
5WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
WOCPCE	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCSCE	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCNRE	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
1TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL7	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL8	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL9	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
4TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
5TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WOCTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCTAIL28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL32	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL33	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL34	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL35	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL36	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL37	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL38	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL39	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL40	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL41	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL42	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL43	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL44	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL45	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL46	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL47	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL48	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL49	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL50	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL51	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL52	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL53	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL54	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL55	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL56	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL57	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCTAIL58	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL59	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL60	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL61	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL62	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL63	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRTAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WCFTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD7	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD8	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD9	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2MFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
4MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WCFMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCMFUGD31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD32	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD33	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD34	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD35	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD36	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD37	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD38	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD39	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD40	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD41	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD42	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD43	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD44	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD45	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD46	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD47	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD48	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD49	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD50	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD51	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD52	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD53	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD54	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD55	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD56	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD57	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD58	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD59	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD60	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCMFUGD61	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD62	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD63	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRMFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WOCTEMPTRB1	POINT	3.05	30	2	30	550	-	-	-	-	-
WOCTEMPTRB2	POINT	3.05	30	2	30	550	-	-	-	-	-
RFDGMT1	POINT	1.524	4.88	0.305	35	820	-	-	-	-	-
RFDGMT2	POINT	1.524	12.2	0.94	5.7	529	-	-	-	-	-
RFDGWPDS1	POINT	1.524	3.7	0.356	41.6	644	-	-	-	-	-
RFDGWPDS2	POINT	1.524	3.7	0.356	41.6	644	-	-	-	-	-
RFDCD5	POINT	1.524	4.88	0.305	35	820	-	-	-	-	-
2DRILLPEA	POINT	2.7432	13.3	0.4	10.5	614	-	-	-	-	-
2DRILLCP1A	POINT	2.7432	10.4	0.13	43.5	750	-	-	-	-	-
2DRILLCP2A	POINT	2.7432	10.4	0.13	43.5	750	-	-	-	-	-
2DRILLB1A	POINT	2.7432	11.9	0.279	11.7	450	-	-	-	-	-
2DRILLB2A	POINT	2.7432	11.9	0.279	11.7	450	-	-	-	-	-
2DRILLAH1A	POINT	2.7432	10.5	0.3	3.2	533	-	-	-	-	-
2DRILLAH2A	POINT	2.7432	10.5	0.3	3.2	533	-	-	-	-	-
2DRILLMPA	POINT	2.7432	7.2	0.3	10.8	533	-	-	-	-	-
2DRILLNMTEA	POINT	2.7432	6.5	0.3	47	761	-	-	-	-	-
2DRILLNMLTA	POINT	2.7432	6.1	0.3	15.1	795	-	-	-	-	-
2DRILLNMPGA	POINT	2.7432	6.1	0.3	15.1	795	-	-	-	-	-
2DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-	-	-	-
2DRILLNMHSA	VOLUME	2.7432	3.7	-	-	-	13.95	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2DRILLFLARE	POINT	2.7432	10.1	0.3	6.1	1033	-	-	-	-	-
3DRILLPEA	POINT	3.6576	13.3	0.4	10.5	614	-	-	-	-	-
3DRILLCP1A	POINT	3.6576	10.4	0.13	43.5	750	-	-	-	-	-
3DRILLCP2A	POINT	3.6576	10.4	0.13	43.5	750	-	-	-	-	-
3DRILLB1A	POINT	3.6576	11.9	0.279	11.7	450	-	-	-	-	-
3DRILLB2A	POINT	3.6576	11.9	0.279	11.7	450	-	-	-	-	-
3DRILLAH1A	POINT	3.6576	10.5	0.3	3.2	533	-	-	-	-	-
3DRILLAH2A	POINT	3.6576	10.5	0.3	3.2	533	-	-	-	-	-
3DRILLMPA	POINT	3.6576	7.2	0.3	10.8	533	-	-	-	-	-
3DRILLNMTEA	POINT	3.6576	6.5	0.3	47	761	-	-	-	-	-
3DRILLNMLTA	POINT	3.6576	6.1	0.3	15.1	795	-	-	-	-	-
3DRILLNMPGA	POINT	3.6576	6.1	0.3	15.1	795	-	-	-	-	-
3DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-	-	-	-
3DRILLNMHSA	VOLUME	3.6576	3.7	-	-	-	13.95	3.38	-	-	-
3DRILLFLARE	POINT	3.6576	10.1	0.3	6.1	1033	-	-	-	-	-
2PADHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
2PADSHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
2PADNMGS1	POINT	2.7432	6.5	0.2	47	761	-	-	-	-	-
3PADHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
3PADSHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
3PADNMGS1	POINT	2.7432	6.5	0.2	47	761	-	-	-	-	-
2PADNR1	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADNR2	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADNR3	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADNR4	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADNR1	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADNR2	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADNR3	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADNR4	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADOHT1	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
2PADOHT2	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADOHT3	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2PADOHT4	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADOHT1	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADOHT2	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADOHT3	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
3PADOHT4	VOLUME	2.7432	3.66	-	-	-	18.6047	3.38	-	-	-
2FUGD	VOLUME	2.7432	3.66	-	-	-	26.7442	3.38	-	-	-
3FUGD	VOLUME	3.6576	3.66	-	-	-	26.7442	3.38	-	-	-

Table A.3-6. Alternative D Near-field Model Scenario 4 Emissions Rates

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCOPSTDR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT1OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT1OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT1OPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1OPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1OPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT1WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT1WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT1WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT2OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT2OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
BT2OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT2OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT2WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT2WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT2WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT3OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT3OPSFUGD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT3WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT3WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT3WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT4OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT4OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT4OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT4OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.18E-02	3.27E-03	3.27E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT4OPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT4OPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT4OPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT4WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT4WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT4WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT5OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT5OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT5OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
BT5OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.18E-02	3.27E-03	3.27E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT5WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT5WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT5WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
WLWTG03A	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	8760
WLWTG03B	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	8760
WLWTG01A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WLWTG01B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG02A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG02B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG04	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	8760
WLWTG05	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	8760
WLWGL05	6.48E-01	1.19E+00	6.76E-02	3.70E-02	3.70E-02	2.11E-03	1.22E-03	1.22E-03	6.99E-05	500
WLWHG03	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8760
WLWHG04	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8760
WLWHG01	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	8760
WLWHG02	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	8760
WLWHG06	3.84E-01	4.57E-01	4.57E-01	3.47E-02	3.47E-02	3.47E-02	3.09E-02	3.09E-02	3.09E-02	8760
WLWFGLP	4.15E-02	4.94E-02	4.94E-02	3.76E-03	3.76E-03	3.76E-03	3.34E-03	3.34E-03	3.34E-03	8760
WLWFGHP	4.15E-02	4.94E-02	4.94E-02	3.76E-03	3.76E-03	3.76E-03	3.34E-03	3.34E-03	3.34E-03	8760
WCFOPSDS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTSO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTUD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTLD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSFUGD	0.00E+00	0.00E+00	0.00E+00	9.79E-02	1.47E-02	1.47E-02	0.00E+00	0.00E+00	0.00E+00	4380
WOCPWRGEN1	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WOCPWRGEN2	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WOCPWRGEN3	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WLWIG01	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	7300
WLWIG02	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	7300
WLWHL05	5.93E-03	2.37E-02	2.37E-02	2.82E-03	2.53E-03	2.53E-03	2.54E-04	2.54E-04	2.54E-04	8760
WOCOPSTJF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WOCOPSTHC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WOCOPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WILLOWAIR1	1.51E-07	4.48E-08	4.48E-08	1.87E-09	1.87E-09	1.87E-09	6.62E-09	6.62E-09	6.62E-09	8760
WILLOWAIR2	1.51E-07	4.48E-08	4.48E-08	1.87E-09	1.87E-09	1.87E-09	6.62E-09	6.62E-09	6.62E-09	8760
WILLOWAIR3	1.51E-07	4.48E-08	4.48E-08	1.87E-09	1.87E-09	1.87E-09	6.62E-09	6.62E-09	6.62E-09	8760
WOCOPSFUGD	0.00E+00	0.00E+00	0.00E+00	1.62E-01	2.43E-02	2.43E-02	0.00E+00	0.00E+00	0.00E+00	4380
WCFPCE1	3.26E-07	1.49E-06	1.49E-06	1.12E-07	1.11E-07	1.11E-07	1.93E-09	1.93E-09	1.93E-09	8760
WCFPCE2	3.26E-07	1.49E-06	1.49E-06	1.12E-07	1.11E-07	1.11E-07	1.93E-09	1.93E-09	1.93E-09	8760
WCFPCE3	3.26E-07	1.49E-06	1.49E-06	1.12E-07	1.11E-07	1.11E-07	1.93E-09	1.93E-09	1.93E-09	8760
WCFPCE4	3.26E-07	1.49E-06	1.49E-06	1.12E-07	1.11E-07	1.11E-07	1.93E-09	1.93E-09	1.93E-09	8760
WCFPCE5	3.26E-07	1.49E-06	1.49E-06	1.12E-07	1.11E-07	1.11E-07	1.93E-09	1.93E-09	1.93E-09	8760
WCFPCE6	3.26E-07	1.49E-06	1.49E-06	1.12E-07	1.11E-07	1.11E-07	1.93E-09	1.93E-09	1.93E-09	8760
WCFPCE7	3.26E-07	1.49E-06	1.49E-06	1.12E-07	1.11E-07	1.11E-07	1.93E-09	1.93E-09	1.93E-09	8760
WCFSCE1	2.42E-07	3.03E-07	3.03E-07	2.32E-08	2.32E-08	2.32E-08	2.06E-08	2.06E-08	2.06E-08	8760
WCFSCE2	2.42E-07	3.03E-07	3.03E-07	2.32E-08	2.32E-08	2.32E-08	2.06E-08	2.06E-08	2.06E-08	8760
WCFSCE3	2.42E-07	3.03E-07	3.03E-07	2.32E-08	2.32E-08	2.32E-08	2.06E-08	2.06E-08	2.06E-08	8760
WCFSCE4	2.42E-07	3.03E-07	3.03E-07	2.32E-08	2.32E-08	2.32E-08	2.06E-08	2.06E-08	2.06E-08	8760
WCFSCE5	2.42E-07	3.03E-07	3.03E-07	2.32E-08	2.32E-08	2.32E-08	2.06E-08	2.06E-08	2.06E-08	8760
WCFSCE6	2.42E-07	3.03E-07	3.03E-07	2.32E-08	2.32E-08	2.32E-08	2.06E-08	2.06E-08	2.06E-08	8760
WCFSCE7	2.42E-07	3.03E-07	3.03E-07	2.32E-08	2.32E-08	2.32E-08	2.06E-08	2.06E-08	2.06E-08	8760
WCFNRE1	1.44E-06	6.68E-06	6.68E-06	4.74E-07	4.74E-07	4.74E-07	2.34E-09	2.34E-09	2.34E-09	8760
WCFNRE2	1.44E-06	6.68E-06	6.68E-06	4.74E-07	4.74E-07	4.74E-07	2.34E-09	2.34E-09	2.34E-09	8760
WCFNRE3	1.44E-06	6.68E-06	6.68E-06	4.74E-07	4.74E-07	4.74E-07	2.34E-09	2.34E-09	2.34E-09	8760
WCFNRE4	1.44E-06	6.68E-06	6.68E-06	4.74E-07	4.74E-07	4.74E-07	2.34E-09	2.34E-09	2.34E-09	8760
WCFNRE5	1.44E-06	6.68E-06	6.68E-06	4.74E-07	4.74E-07	4.74E-07	2.34E-09	2.34E-09	2.34E-09	8760
WCFNRE6	1.44E-06	6.68E-06	6.68E-06	4.74E-07	4.74E-07	4.74E-07	2.34E-09	2.34E-09	2.34E-09	8760
WCFNRE7	1.44E-06	6.68E-06	6.68E-06	4.74E-07	4.74E-07	4.74E-07	2.34E-09	2.34E-09	2.34E-09	8760
WLW2GEN	1.19E-01	5.87E-01	6.08E-01	3.46E-02	3.46E-02	3.53E-02	3.51E-04	3.51E-04	3.51E-04	8760
BT3NRE1	9.65E-07	1.03E-06	1.03E-07	1.03E-07	1.02E-07	1.02E-08	2.14E-09	2.14E-09	2.14E-10	876
BT3WIN1	1.31E-06	1.83E-06	7.23E-07	1.88E-07	1.79E-07	7.05E-08	8.96E-09	8.96E-09	3.53E-09	288
3WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
BT1NRE1	9.65E-07	1.03E-06	1.03E-07	1.03E-07	1.02E-07	1.02E-08	2.14E-09	2.14E-09	2.14E-10	876

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
BT1WIN1	1.31E-06	1.83E-06	7.23E-07	1.88E-07	1.79E-07	7.05E-08	8.96E-09	8.96E-09	3.53E-09	288
1WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
BT2NRE1	9.65E-07	1.03E-06	1.03E-07	1.03E-07	1.02E-07	1.02E-08	2.14E-09	2.14E-09	2.14E-10	876
BT2WIN1	1.31E-06	1.83E-06	7.23E-07	1.88E-07	1.79E-07	7.05E-08	8.96E-09	8.96E-09	3.53E-09	288
2WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
BT4NRE1	9.65E-07	1.03E-06	1.03E-07	1.03E-07	1.02E-07	1.02E-08	2.14E-09	2.14E-09	2.14E-10	876
BT4WIN1	1.31E-06	1.83E-06	7.23E-07	1.88E-07	1.79E-07	7.05E-08	8.96E-09	8.96E-09	3.53E-09	288
4WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
BT5NRE1	9.65E-07	1.03E-06	1.03E-07	1.03E-07	1.02E-07	1.02E-08	2.14E-09	2.14E-09	2.14E-10	876
BT5WIN1	1.31E-06	1.83E-06	7.23E-07	1.88E-07	1.79E-07	7.05E-08	8.96E-09	8.96E-09	3.53E-09	288
5WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
WOCPCE	4.07E-08	1.84E-07	1.84E-07	1.46E-08	1.42E-08	1.42E-08	4.06E-10	4.06E-10	4.06E-10	VARIES
WOCSCE	3.16E-08	5.51E-08	5.51E-08	4.36E-09	4.36E-09	4.36E-09	3.87E-09	3.87E-09	3.87E-09	8760
WOCNRE	2.87E-07	1.27E-06	9.60E-07	1.08E-07	1.03E-07	6.96E-08	4.13E-09	4.13E-09	7.57E-10	8760
1TAIL1	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	8760
1TAIL2	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	8760
1TAIL3	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	8760
1TAIL4	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	8760
1TAIL5	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	8760
1TAIL6	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	8760
1TAIL7	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	8760
1TAIL8	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	8760
1TAIL9	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	8760
2TAIL1	3.04E-05	2.33E-05	3.37E-05	2.56E-06	1.10E-06	1.61E-06	9.90E-08	9.90E-08	1.34E-07	8760
2TAIL2	3.04E-05	2.33E-05	3.37E-05	2.56E-06	1.10E-06	1.61E-06	9.90E-08	9.90E-08	1.67E-07	8760
2TAIL3	3.04E-05	2.33E-05	3.37E-05	2.56E-06	1.10E-06	1.61E-06	9.90E-08	9.90E-08	1.67E-07	8760
2TAIL4	3.04E-05	2.33E-05	3.37E-05	2.56E-06	1.10E-06	1.61E-06	9.90E-08	9.90E-08	1.67E-07	8760
2TAIL5	3.04E-05	2.33E-05	3.37E-05	2.56E-06	1.10E-06	1.61E-06	9.90E-08	9.90E-08	1.67E-07	8760
2TAIL6	3.04E-05	2.33E-05	3.37E-05	2.56E-06	1.10E-06	1.61E-06	9.90E-08	9.90E-08	1.67E-07	8760
3TAIL1	3.04E-05	2.33E-05	3.37E-05	2.56E-06	1.10E-06	1.61E-06	9.90E-08	9.90E-08	1.67E-07	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
3TAIL2	3.04E-05	2.33E-05	3.37E-05	2.56E-06	1.10E-06	1.61E-06	9.90E-08	9.90E-08	1.67E-07	8760
3TAIL3	3.04E-05	2.33E-05	3.37E-05	2.56E-06	1.10E-06	1.61E-06	9.90E-08	9.90E-08	1.67E-07	8760
3TAIL4	3.04E-05	2.33E-05	3.37E-05	2.56E-06	1.10E-06	1.61E-06	9.90E-08	9.90E-08	1.67E-07	8760
3TAIL5	3.04E-05	2.33E-05	3.37E-05	2.56E-06	1.10E-06	1.61E-06	9.90E-08	9.90E-08	1.67E-07	8760
3TAIL6	3.04E-05	2.33E-05	3.37E-05	2.56E-06	1.10E-06	1.61E-06	9.90E-08	9.90E-08	1.67E-07	8760
4TAIL1	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	8760
4TAIL2	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	8760
4TAIL3	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	8760
4TAIL4	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	8760
4TAIL5	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	8760
4TAIL6	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	8760
4TAIL7	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	8760
5TAIL1	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	8760
5TAIL2	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	8760
5TAIL3	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	8760
5TAIL4	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	8760
5TAIL5	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	8760
5TAIL6	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	8760
5TAIL7	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	8760
WOCTAIL1	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL2	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL3	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL4	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL5	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL6	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL7	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL8	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL9	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL10	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL11	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCTAIL12	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL13	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL14	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL15	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL16	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL17	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL18	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL19	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL20	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL21	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL22	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL23	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL24	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL25	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL26	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL27	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL28	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL29	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL30	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL31	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL32	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL33	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL34	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL35	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL36	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL37	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL38	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL39	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL40	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL41	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCTAIL42	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL43	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL44	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL45	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL46	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL47	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL48	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL49	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL50	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL51	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL52	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL53	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL54	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL55	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL56	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL57	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL58	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL59	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL60	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL61	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL62	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WOCTAIL63	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
AIRTAIL1	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
AIRTAIL2	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
AIRTAIL3	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
AIRTAIL4	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
AIRTAIL5	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
AIRTAIL6	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
AIRTAIL7	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	8760
WCFTAIL1	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WCFTAIL2	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	8760
WCFTAIL3	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	8760
WCFTAIL4	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	8760
WCFTAIL5	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	8760
WCFTAIL6	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD7	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD8	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD9	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	8.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	8.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	8.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	8.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD5	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	8.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD6	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	8.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD1	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	8.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD2	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	8.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD3	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	8.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD4	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	8.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD5	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	8.61E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD6	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD1	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD2	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD3	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD4	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
4MFUGD5	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD6	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD7	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD1	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD2	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD3	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD4	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD5	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD6	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD7	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD1	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD2	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD3	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD4	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD5	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD6	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD1	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD2	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD3	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD4	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD5	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD6	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD7	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD8	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD9	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD10	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD11	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD12	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD13	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD14	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCMFUGD15	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD16	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD17	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD18	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD19	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD20	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD21	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD22	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD23	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD24	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD25	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD26	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD27	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD28	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD29	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD30	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD31	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD32	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD33	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD34	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD35	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD36	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD37	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD38	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD39	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD40	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD41	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD42	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD43	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD44	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCMFUGD45	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD46	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD47	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD48	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD49	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD50	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD51	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD52	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD53	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD54	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD55	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD56	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD57	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD58	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD59	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD60	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD61	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD62	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD63	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD1	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD2	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD3	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD4	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD5	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD6	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD7	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCTEMPTRB1	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	8760
WOCTEMPTRB2	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	8760
RFDGMT1	3.50E-01	3.50E-01	2.69E+00	3.50E-01	3.50E-01	9.50E-02	3.80E-02	3.80E-02	1.96E-02	8760
RFDGMT2	4.06E+00	7.21E+00	7.34E-01	4.06E+00	6.44E-01	7.71E-02	1.40E-02	1.40E-02	6.33E-03	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
RFDGWPDS1	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	8760
RFDGWPDS2	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	8760
RFDCD5	1.82E+00	2.15E+00	2.15E+00	1.27E-01	1.27E-01	1.27E-01	2.70E-01	2.70E-01	2.70E-01	8760
2DRILLPEA	1.07E+00	2.05E-01	2.05E-01	9.17E-03	9.17E-03	9.17E-03	5.64E-04	5.64E-04	5.64E-04	8760
2DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
2DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
2DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
2DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
2DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
2DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
2DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
2DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
2DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
2DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
2DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
2DRILLNMHSA	2.15E-02	8.59E-02	8.59E-02	1.02E-02	9.15E-03	9.15E-03	9.15E-04	9.15E-04	9.15E-04	8760
2DRILLFLARE	1.08E+00	1.98E-01	9.38E-02	4.79E-05	4.79E-05	2.27E-05	1.16E-02	1.16E-02	5.47E-03	1728
3DRILLPEA	1.07E+00	2.05E-01	2.05E-01	9.17E-03	9.17E-03	9.17E-03	5.64E-04	5.64E-04	5.64E-04	8760
3DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
3DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
3DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
3DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
3DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
3DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
3DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
3DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
3DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
3DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
3DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
3DRILLNMHSA	2.15E-02	8.59E-02	8.59E-02	1.02E-02	9.15E-03	9.15E-03	9.15E-04	9.15E-04	9.15E-04	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
3DRILLFLARE	1.08E+00	1.98E-01	3.91E-02	4.79E-05	4.79E-05	9.44E-06	1.16E-02	1.16E-02	2.28E-03	1728
2PADHTR1	1.35E-02	5.41E-02	4.98E-02	6.44E-03	5.76E-03	5.31E-03	5.76E-04	5.76E-04	5.31E-04	4704
2PADSHTR1	4.67E-03	1.87E-02	1.72E-02	2.22E-03	1.99E-03	1.83E-03	1.99E-04	1.99E-04	1.83E-04	4704
2PADNMGS1	1.32E-02	2.49E-02	2.29E-02	1.96E-03	1.90E-03	1.75E-03	2.13E-05	2.13E-05	1.96E-05	4704
3PADHTR1	1.35E-02	5.41E-02	4.98E-02	6.44E-03	5.76E-03	5.31E-03	5.76E-04	5.76E-04	5.31E-04	4704
3PADSHTR1	4.67E-03	1.87E-02	1.72E-02	2.22E-03	1.99E-03	1.83E-03	1.99E-04	1.99E-04	1.83E-04	4704
3PADNMGS1	1.32E-02	2.49E-02	2.29E-02	1.96E-03	1.90E-03	1.75E-03	2.13E-05	2.13E-05	1.96E-05	4704
2PADNR1	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADNR2	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADNR3	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADNR4	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR1	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR2	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR3	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR4	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
2PADOHT1	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT2	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT3	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT4	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT1	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT2	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT3	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT4	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380
3FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380

A.3.3 Scenario 5: Routine Operations

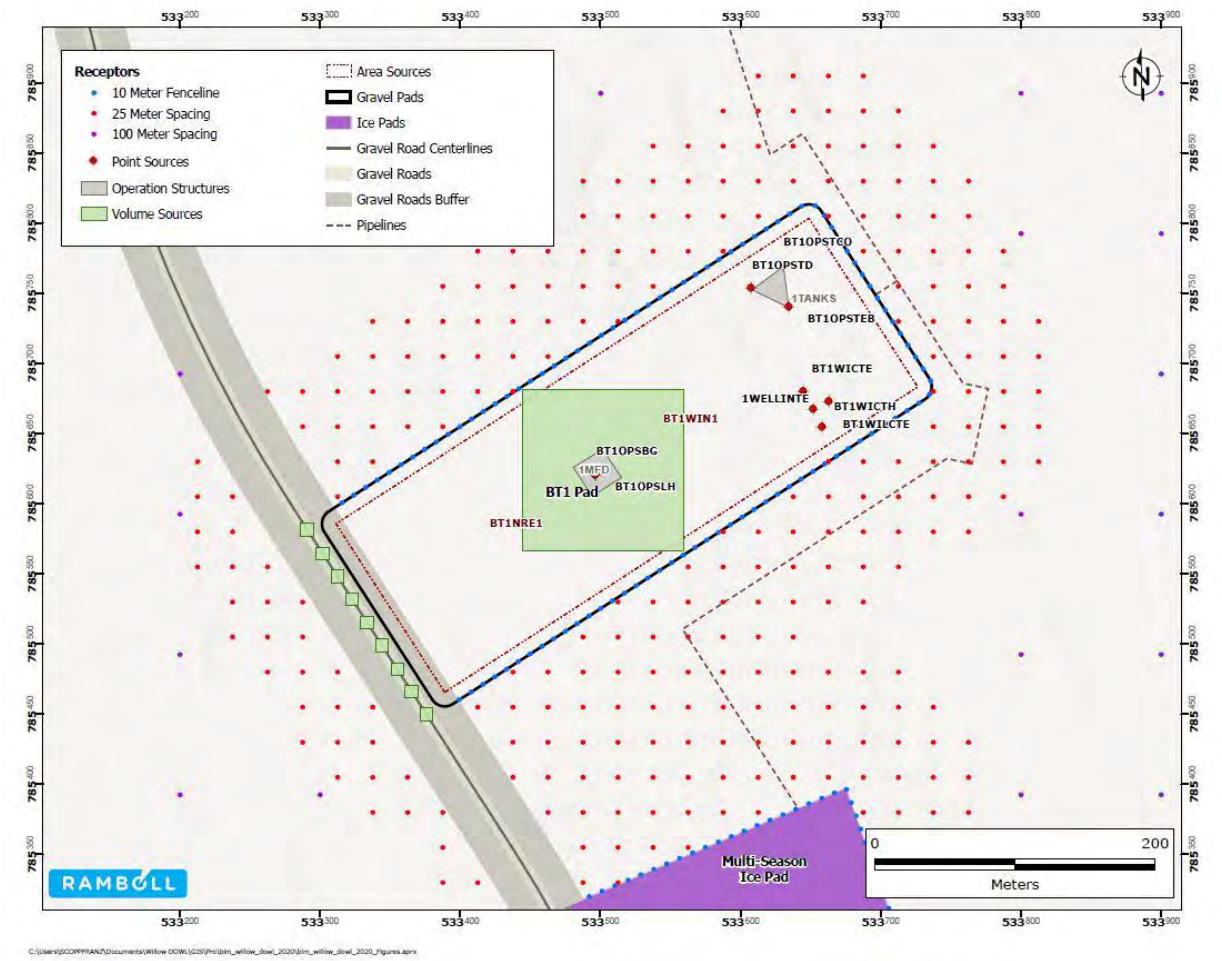


Figure A.3-12. Alternative D Near-field Model Scenario 5 Source Locations at BT1.

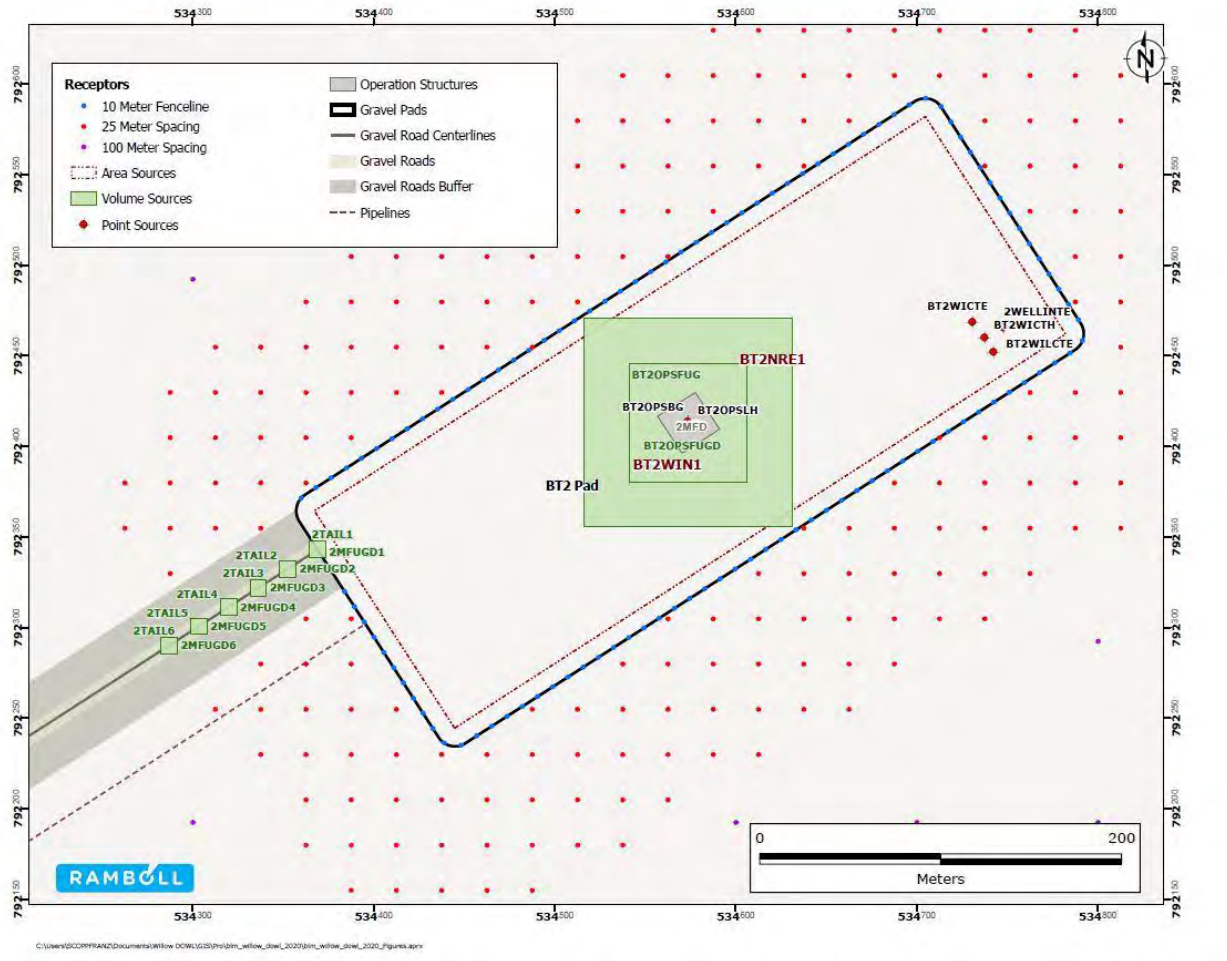


Figure A.3-13. Alternative D Near-field Model Scenario 5 Source Locations at BT2.

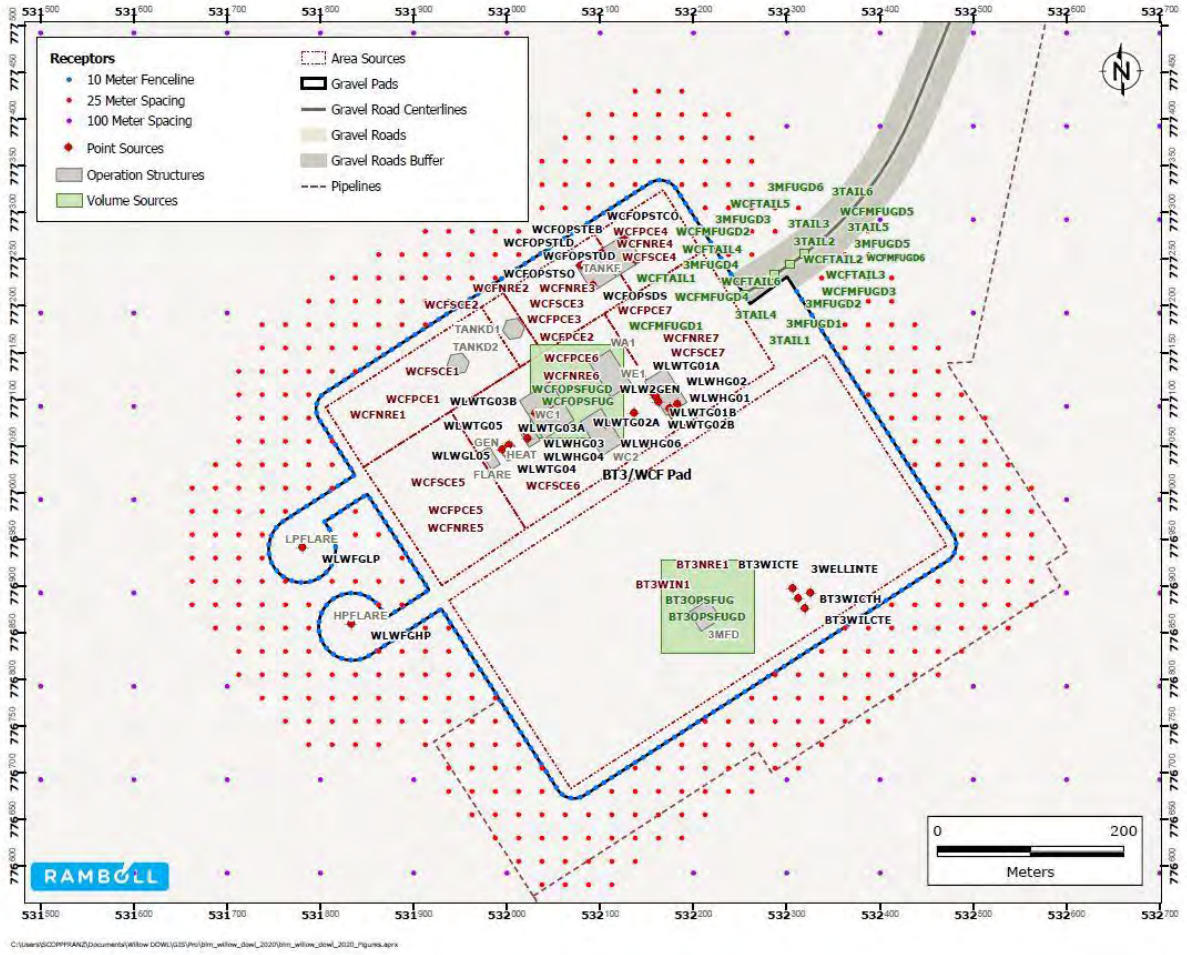


Figure A.3-14. Alternative D Near-field Model Scenario 5 Source Locations at BT3/WPF.

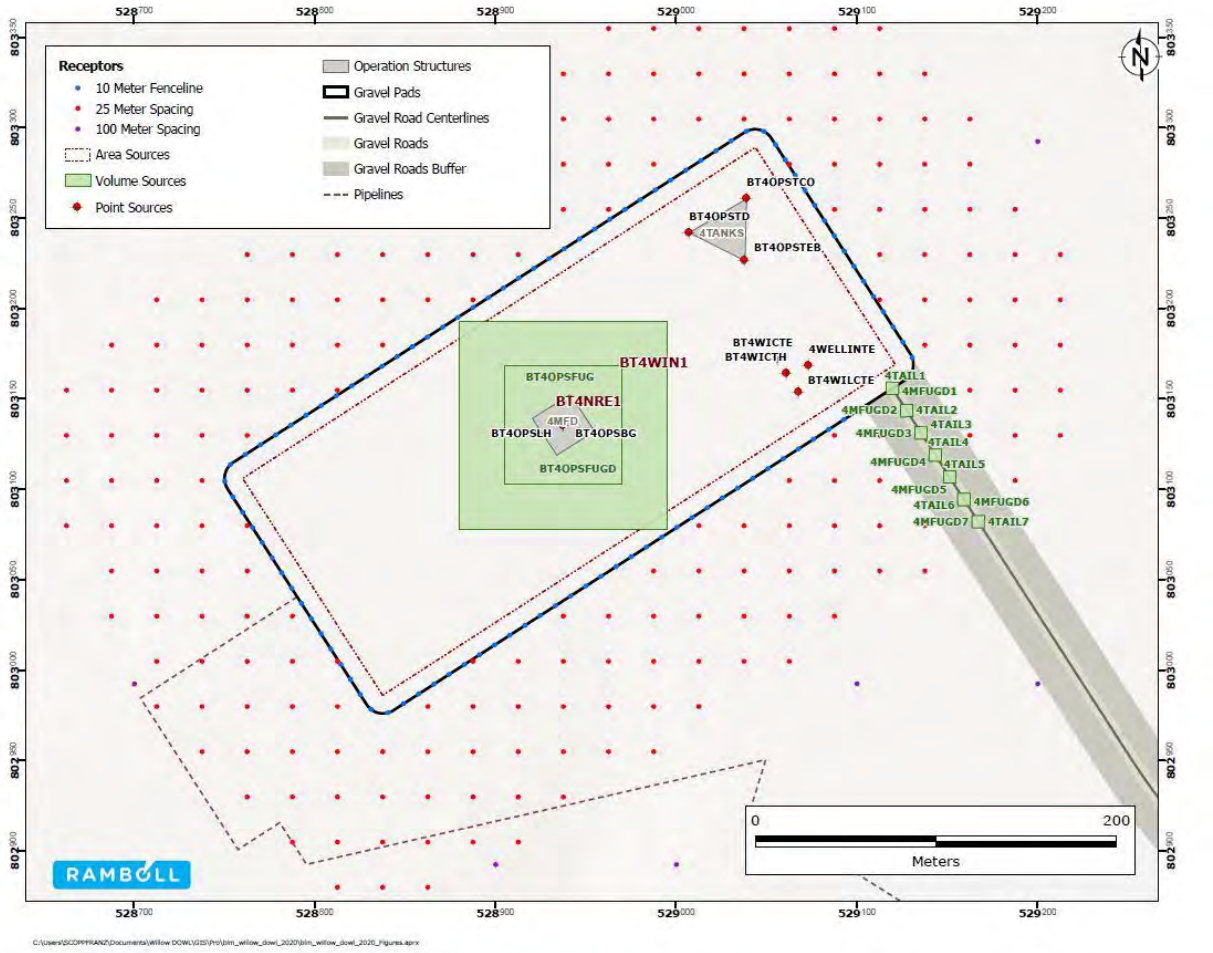


Figure A.3-15. Alternative D Near-field Model Scenario 5 Source Locations at BT4.

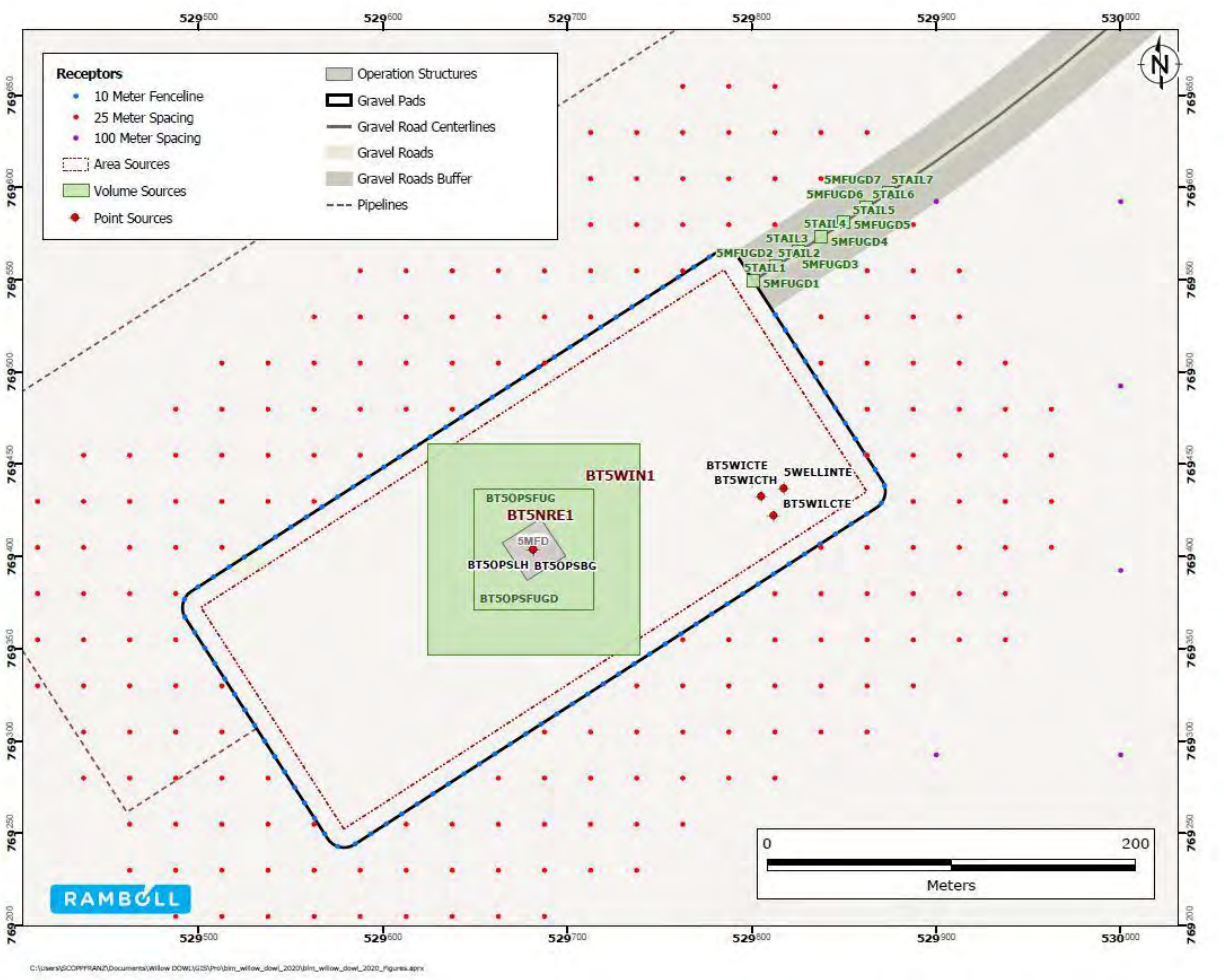


Figure A.3-16. Alternative D Near-field Model Scenario 5 Source Locations at BT5.

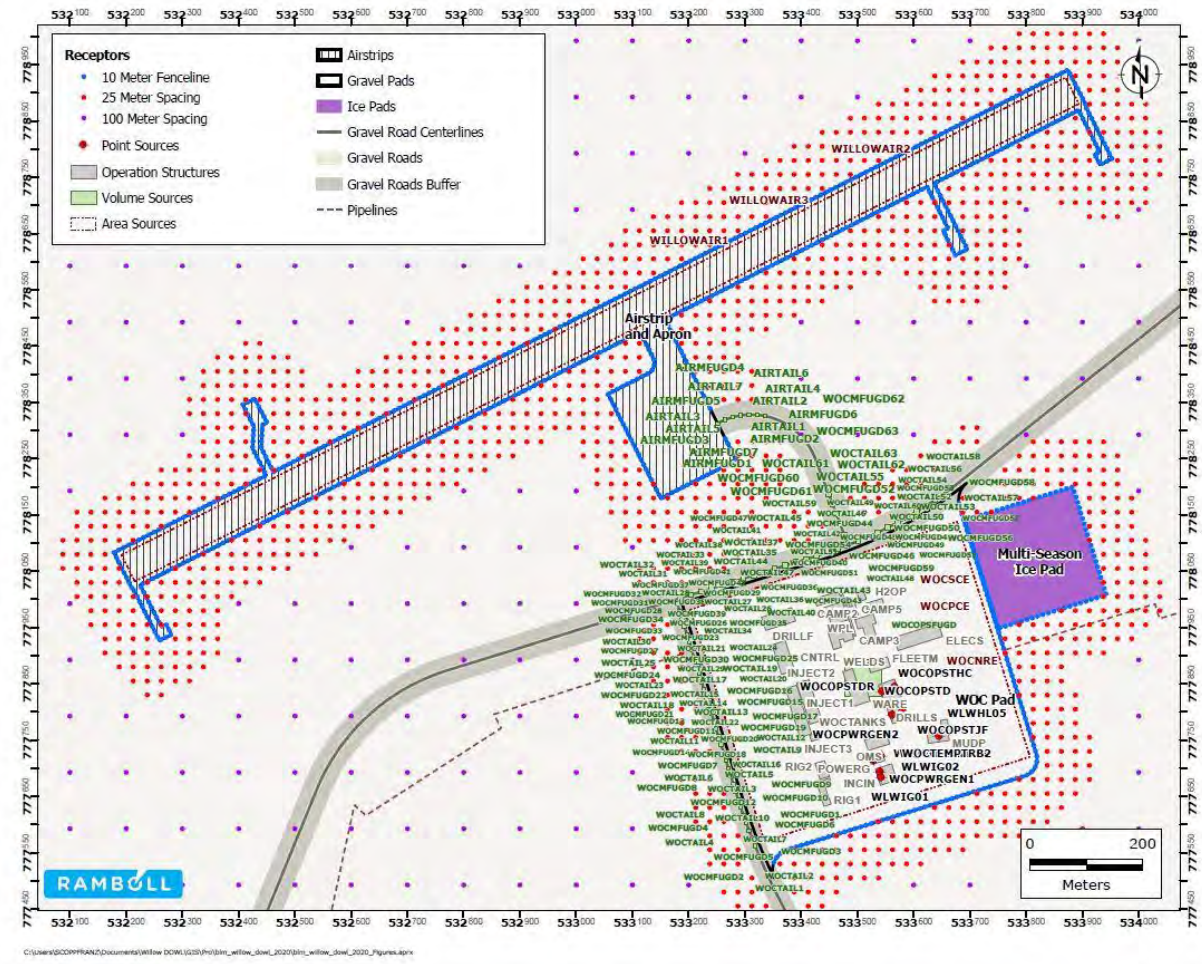


Figure A.3-17. Alternative D Near-field Model Scenario 5 Source Locations at Airstrip.

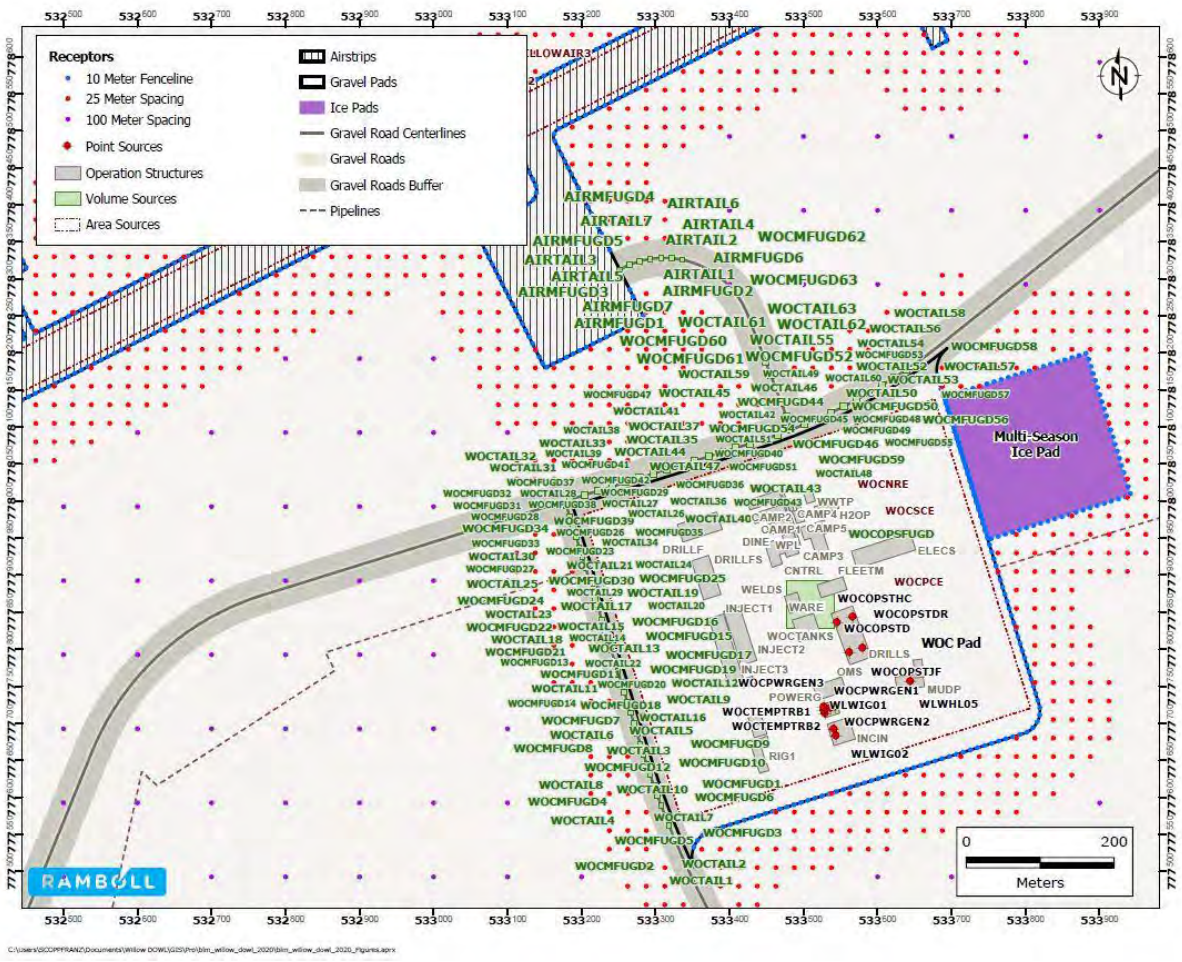


Figure A.3-18. Alternative D Near-field Model Scenario 5 Source Locations at Willow Operations Center

Table A.3-7. Alternative D Near-field Model Scenario 5 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCOPSTDR	POINT	WOC - Storage Tanks - VFRT/ DRA (drag reducing agent)	-	-
BT1OPSLH	POINT	BT1 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT1OPSBG	POINT	BT1 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT1OPSFUG	VOLUME	BT1 - Fugitive Components	-	-
BT1OPSFUGD	VOLUME	BT1 - Wind Erosion Fugitive Dust	-	-
BT1OPSTEB	POINT	BT1 - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
BT1OPSTD	POINT	BT1 - Storage Tanks - VFRT/ Diesel	-	-
BT1OPSTCO	POINT	BT1 - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
BT1WICTH	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT1WICTE	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT1WILCTE	POINT	BT1 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT2OPSLH	POINT	BT2 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT2OPSBG	POINT	BT2 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT2OPSFUG	VOLUME	BT2 - Fugitive Components	-	-
BT2OPSFUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust	-	-
BT2WICTH	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT2WICTE	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT2WILCTE	POINT	BT2 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT3OPSFUG	VOLUME	BT3 - Fugitive Components	-	-
BT3OPSFUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust	-	-
BT3WICTH	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT3WICTE	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT3WILCTE	POINT	BT3 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT4OPSLH	POINT	BT4 - Line Heater	0.05	Diesel or natural gas heaters, or boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
BT4OPSBG	POINT	BT4 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT4OPSFUG	VOLUME	BT4 - Fugitive Components	-	-
BT4OPSFUGD	VOLUME	BT4 - Wind Erosion Fugitive Dust	-	-
BT4OPSTEB	POINT	BT4 - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
BT4OPSTD	POINT	BT4 - Storage Tanks - VFRT/ Diesel	-	-
BT4OPSTCO	POINT	BT4 - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
BT4WICTH	POINT	BT4 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT4WICTE	POINT	BT4 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT4WILCTE	POINT	BT4 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
BT5OPSLH	POINT	BT5 - Line Heater	0.05	Diesel or natural gas heaters, or boiler
BT5OPSBG	POINT	BT5 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT5OPSFUG	VOLUME	BT5 - Fugitive Components	-	-
BT5OPSFUGD	VOLUME	BT5 - Wind Erosion Fugitive Dust	-	-
BT5WICTH	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel or natural gas heaters, or boiler
BT5WICTE	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel engines
BT5WILCTE	POINT	BT5 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel engines
WLWTG03A	POINT	WPF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG03B	POINT	WPF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG01A	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG01B	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02A	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02B	POINT	WPF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG04	POINT	WPF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines
WLWTG05	POINT	WPF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WLWGL05	POINT	WPF - Stationary Combustion Sources - Black Start Engine	0.1	Diesel engines
WLWHG03	POINT	WPF - Stationary Combustion Sources - Crude Production Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG04	POINT	WPF - Stationary Combustion Sources - Crude Production Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG01	POINT	WPF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG02	POINT	WPF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Diesel or natural gas heaters, or boiler
WLWHG06	POINT	WPF - Stationary Combustion Sources - Hot Oil Heater	0.05	Diesel or natural gas heaters, or boiler
WLWFGLP	POINT	WPF - Stationary Combustion Sources - LP Flare (pilot/purge/assist)	0.5	USEPA default value
WLWFGHP	POINT	WPF - Stationary Combustion Sources - HP Flare (pilot/purge/assist)	0.5	USEPA default value
WCFOPSDS	POINT	WPF - Stationary Combustion Sources - Diesel Fueling Station	-	-
WCFOPSTSO	POINT	WPF - Storage Tanks - VFRT/ Slop Oil	-	-
WCFOPSTCO	POINT	WPF - Storage Tanks - VFRT/ Portable Temp Crude Oil	-	-
WCFOPSTUD	POINT	WPF - Storage Tanks - VFRT/ ULSD	-	-
WCFOPSTLD	POINT	WPF - Storage Tanks - VFRT/ LEPD	-	-
WCFOPSTEB	POINT	WPF - Storage Tanks - VFRT/ Emulsion Breaker/ Pad Buster	-	-
WCFOPSFUG	VOLUME	WPF - Fugitive Equipment Leaks	-	-
WCFOPSFUGD	VOLUME	WPF - Wind Erosion Fugitive Dust	-	-
WOCPWRGEN1	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines
WOCPWRGEN2	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines
WOCPWRGEN3	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel engines
WLWIG01	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value
WLWIG02	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	USEPA default value
WLWHL05	POINT	WOC - Stationary Combustion Sources - Mud Plant Glycol Boiler	0.05	Diesel or natural gas heaters, or boiler
WOCOPSTJF	POINT	WOC - Storage Tanks - VFRT/ Aircraft Jet Fuel	-	-
WOCOPSTHC	POINT	WOC - Storage Tanks - VFRT/ Hydrocarbon	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCOPSTD	POINT	WOC - Storage Tanks - VFRT/ Diesel	-	-
WILLOWAIR1	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 50.8m	0.5	USEPA default value
WILLOWAIR2	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 152.4m	0.5	USEPA default value
WILLOWAIR3	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 254m	0.5	USEPA default value
WOCOPSFUGD	VOLUME	WOC - Wind Erosion Fugitive Dust - Wind Erosion	-	-
WCFPCE1	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE2	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE3	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE4	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE5	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE6	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFPCE7	AREAPOLY	WPF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE1	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE2	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE3	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE4	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE5	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFSCE6	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFSCE7	AREAPOLY	WPF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WCFNRE1	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE2	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE3	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE4	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE5	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE6	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE7	AREAPOLY	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WLW2GEN	POINT	WPF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines >140 HP	0.1	Diesel engines
BT3NRE1	AREAPOLY	BT3 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT3WIN1	AREAPOLY	BT3 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
3WELLINTE	POINT	BT3 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT1NRE1	AREAPOLY	BT1 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT1WIN1	AREAPOLY	BT1 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
1WELLINTE	POINT	BT1 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT2NRE1	AREAPOLY	BT2 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT2WIN1	AREAPOLY	BT2 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
2WELLINTE	POINT	BT2 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT4NRE1	AREAPOLY	BT4 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT4WIN1	AREAPOLY	BT4 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
4WELLINTE	POINT	BT4 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
BT5NRE1	AREAPOLY	BT5 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT5WIN1	AREAPOLY	BT5 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
5WELLINTE	POINT	BT5 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel engines
WOCPCE	AREAPOLY	WOC - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCSCE	AREAPOLY	WOC - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel or natural gas heaters, or boiler
WOCNRE	AREAPOLY	WOC - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
1TAIL1	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL6	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL7	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL8	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL9	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
2TAIL1	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL4	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL5	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL6	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
3TAIL1	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL2	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
3TAIL3	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL4	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL5	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL6	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
4TAIL1	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL2	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL3	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL4	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL5	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL6	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
4TAIL7	VOLUME	Mobile Equipment Tailpipe - BT4	0.15	Diesel tailpipe from on-road vehicles
5TAIL1	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL2	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL3	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL4	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL5	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL6	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL7	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCTAIL8	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL9	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL10	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL11	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL12	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL13	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL14	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL15	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL16	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL17	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL18	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL19	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL20	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL21	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL22	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL23	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL24	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL25	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL26	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL27	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL28	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL29	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL30	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL31	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL32	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCTAIL33	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL34	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL35	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL36	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL37	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL38	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL39	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL40	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL41	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL42	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL43	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL44	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL45	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL46	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL47	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL48	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL49	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL50	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL51	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL52	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL53	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL54	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL55	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL56	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL57	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCTAIL58	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL59	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL60	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL61	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL62	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL63	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL1	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL2	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL3	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL4	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL5	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL6	VOLUME	Mobile Equipment Tailpipe - WPF	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD8	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD9	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
3MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
4MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT4	-	-
4MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
5MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
WCFMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WCFMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WPF	-	-
WOCMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD8	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD9	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD10	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD11	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD12	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD13	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD14	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD15	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCMFUGD16	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD17	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD18	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD19	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD20	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD21	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD22	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD23	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD24	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD25	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD26	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD27	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD28	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD29	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD30	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD31	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD32	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD33	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD34	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD35	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD36	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD37	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD38	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD39	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD40	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCMFUGD41	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD42	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD43	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD44	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD45	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD46	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD47	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD48	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD49	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD50	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD51	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD52	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD53	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD54	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD55	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD56	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD57	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD58	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD59	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD60	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD61	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD62	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD63	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD1	VOLUME	Mobile Equipment Fugitive Dust – WOC	-	-
AIRMFUGD2	VOLUME	Mobile Equipment Fugitive Dust – WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
AIRMFUGD3	VOLUME	Mobile Equipment Fugitive Dust – WOC	-	-
AIRMFUGD4	VOLUME	Mobile Equipment Fugitive Dust – WOC	-	-
AIRMFUGD5	VOLUME	Mobile Equipment Fugitive Dust – WOC	-	-
AIRMFUGD6	VOLUME	Mobile Equipment Fugitive Dust – WOC	-	-
AIRMFUGD7	VOLUME	Mobile Equipment Fugitive Dust – WOC	-	-
WOCTEMPTRB1	POINT	WOC - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WOCTEMPTRB2	POINT	WOC - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
RFDGMT1	POINT	RFD - GMT1	0.2	Diesel tailpipe from non-road equipment
RFDGMT2	POINT	RFD - GMT2	0.2	Diesel tailpipe from non-road equipment
RFDGWPDS1	POINT	RFD - Greater Willow Project Drill Site #1	0.15	Diesel engines/natural gas-fired turbines
RFDGWPDS2	POINT	RFD - Greater Willow Project Drill Site #2	0.15	Diesel engines/natural gas-fired turbines
RFDCD5	POINT	RFD - CD5	0.2	Diesel tailpipe from non-road equipment

Table A.3-8. Alternative D Near-field Model Scenario 5 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCOPSTDR	POINT	3.05	5.4864	0.1016	1.676522	294.2611	-	-	-	-	-
BT1OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT1OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT1OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT1OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT1OPSTEB	POINT	2.7432	5.4864	0.1016	1.676522	283.15	-	-	-	-	-
BT1OPSTD	POINT	2.7432	5.4864	0.1016	1.676522	299.8167	-	-	-	-	-
BT1OPSTCO	POINT	2.7432	5.4864	0.1016	1.676522	277.5944	-	-	-	-	-
BT1WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT1WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT1WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT2OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT2OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT2OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT2WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT2WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT3OPSFUG	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
BT3OPSFUGD	VOLUME	3.66	3.7	-	-	-	26.74	3.38	-	-	-
BT3WICTH	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT3WICTE	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT3WILCTE	POINT	3.66	3.7	0.356	41.6	644	-	-	-	-	-
BT4OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
BT4OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT4OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT4OPSFUGD	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT4OPSTEB	POINT	2.7432	5.4864	0.1016	1.676522	283.15	-	-	-	-	-
BT4OPSTD	POINT	2.7432	5.4864	0.1016	1.676522	299.8167	-	-	-	-	-
BT4OPSTCO	POINT	2.7432	5.4864	0.1016	1.676522	277.5944	-	-	-	-	-
BT4WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT4WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT4WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-	-	-	-
BT5OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT5OPSFUG	VOLUME	2.7432	3.7	-	-	-	15.1	3.38	-	-	-
BT5OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38	-	-	-
BT5WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
BT5WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-	-	-	-
WLWTG03A	POINT	3.66	25	2	30	370	-	-	-	-	-
WLWTG03B	POINT	3.66	25	2	30	370	-	-	-	-	-
WLWTG01A	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG01B	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG02A	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG02B	POINT	3.66	30	2	35	370	-	-	-	-	-
WLWTG04	POINT	3.66	25	2	30	550	-	-	-	-	-
WLWTG05	POINT	3.66	25	2	30	550	-	-	-	-	-
WLWGL05	POINT	3.66	5.5	0.3	20	760	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WLWHG03	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG04	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG01	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG02	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWHG06	POINT	3.66	25	1	10	525	-	-	-	-	-
WLWFGLP	POINT	3.66	25	0.2	20	1273	-	-	-	-	-
WLWFGHP	POINT	3.66	25	0.2	20	1273	-	-	-	-	-
WCFOPSDS	POINT	3.66	5.5	0.1	1.68	0	-	-	-	-	-
WCFOPSTSO	POINT	3.66	5.4864	0.1016	1.676522	319.2611	-	-	-	-	-
WCFOPSTCO	POINT	3.66	5.4864	0.1016	1.676522	277.5944	-	-	-	-	-
WCFOPSTUD	POINT	3.66	12.8016	0.1524	0.745121	299.8167	-	-	-	-	-
WCFOPSTLD	POINT	3.66	5.4864	0.1016	1.676522	299.8167	-	-	-	-	-
WCFOPSTEB	POINT	3.66	5.4864	0.1016	1.676522	283.15	-	-	-	-	-
WCFOPSFUG	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
WCFOPSFUGD	VOLUME	3.66	3.7	-	-	-	15.1	3.38	-	-	-
WOCPWRGEN1	POINT	3.05	8.6	0.3	20	760	-	-	-	-	-
WOCPWRGEN2	POINT	3.05	8.6	0.3	20	760	-	-	-	-	-
WOCPWRGEN3	POINT	3.05	8.6	0.3	20	760	-	-	-	-	-
WLWIG01	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWIG02	POINT	3.05	20	0.3	10	1200	-	-	-	-	-
WLWHL05	POINT	3.05	5.5	0.3	10	525	-	-	-	-	-
WOCOPSTJF	POINT	3.05	5.4864	0.1016	1.676522	283.15	-	-	-	-	-
WOCOPSTHC	POINT	3.05	5.4864	0.1016	1.676522	0	-	-	-	-	-
WOCOPSTD	POINT	3.05	5.4864	0.1016	1.676522	299.8167	-	-	-	-	-
WILLOWAIR1	AREAPOLY	3.6576	50.8	-	-	-	-	23.63	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WILLOWAIR2	AREAPOLY	3.6576	152.4	-	-	-	-	23.63	-	-	-
WILLOWAIR3	AREAPOLY	3.6576	254	-	-	-	-	23.63	-	-	-
WOCOPSFUGD	VOLUME	3.05	3.7	-	-	-	15.1	3.38	-	-	-
WCFPCE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFPCE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFPCE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFPCE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFPCE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFSCE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFSCE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFSCE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFSCE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE1	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFNRE2	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE3	AREAPOLY	3.66	9.38	-	-	-	-	8.72	-	-	-
WCFNRE4	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE5	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WCFNRE6	AREAPOLY	3.66	13.3	-	-	-	-	12.37	-	-	-
WCFNRE7	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
WLW2GEN	POINT	3.66	6.1	0.46	15.1	795	-	-	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
BT3NRE1	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
BT3WIN1	AREAPOLY	3.66	3.63	-	-	-	-	3.38	-	-	-
3WELLINTE	POINT	3.66	6.1	0.46	15.1	795	-	-	-	-	-
BT1NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT1WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
1WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT2NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT2WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
2WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT4NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT4WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
4WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
BT5NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
BT5WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38	-	-	-
5WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-	-	-	-
WOCPCE	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCSCE	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
WOCNRE	AREAPOLY	3.05	3.63	-	-	-	-	3.38	-	-	-
1TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL7	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
1TAIL8	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1TAIL9	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2TAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3TAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
4TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
5TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WOCTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCTAIL23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL32	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL33	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL34	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL35	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL36	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL37	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL38	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL39	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL40	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL41	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL42	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL43	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL44	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL45	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL46	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL47	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCTAIL48	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL49	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL50	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL51	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL52	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL53	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL54	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL55	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL56	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL57	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL58	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL59	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL60	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL61	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL62	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCTAIL63	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRTAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRTAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WCFTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WCFTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD7	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD8	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
1MFUGD9	VOLUME	2.13	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
2MFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
3MFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
4MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
4MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
5MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WCFMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WCFMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCMFUGD31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD32	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD33	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD34	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD35	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD36	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD37	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD38	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD39	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD40	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD41	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD42	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD43	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD44	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD45	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD46	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD47	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD48	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD49	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD50	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD51	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD52	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD53	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD54	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD55	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
WOCMFUGD56	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD57	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD58	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD59	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD60	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD61	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD62	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
WOCMFUGD63	VOLUME	2.1336	3.66	-	-	-	9.07	3.38	-	-	-
AIRMFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
AIRMFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38	-	-	-
WOCTEMPTRB1	POINT	3.05	30	2	30	550	-	-	-	-	-
WOCTEMPTRB2	POINT	3.05	30	2	30	550	-	-	-	-	-
RFDGMT1	POINT	1.524	4.88	0.305	35	820	-	-	-	-	-
RFDGMT2	POINT	1.524	12.2	0.94	5.7	529	-	-	-	-	-
RFDGWPDS1	POINT	1.524	3.7	0.356	41.6	644	-	-	-	-	-
RFDGWPDS2	POINT	1.524	3.7	0.356	41.6	644	-	-	-	-	-
RFDCD5	POINT	1.524	4.88	0.305	35	820	-	-	-	-	-

Table A.3-9. Alternative D Near-field Model Scenario 5 Emissions Rates

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCOPSTDR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05	5.85E-05	2.85E-05	2.85E-05	3.88E-06	3.88E-06	1.14E-05	1.14E-05	6.29E-05	6.29E-05	0.00E+00	0.00E+00	8760
BT1OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT1OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT1OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	2.80E-03	8.20E-03	8.20E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.80E-01	1.80E-01	0.00E+00	0.00E+00	8760
BT1OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT1OPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	5.19E-05	4.73E-05	4.73E-05	3.74E-06	3.74E-06	1.55E-05	1.55E-05	2.17E-04	2.17E-04	0.00E+00	0.00E+00	8760
BT1OPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-07	4.31E-07	5.90E-06	5.90E-06	8.63E-07	8.63E-07	1.58E-05	1.58E-05	1.44E-07	1.44E-07	0.00E+00	0.00E+00	8760
BT1OPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	9.98E-05	4.37E-05	4.37E-05	5.32E-06	5.32E-06	1.54E-05	1.54E-05	1.13E-04	1.13E-04	0.00E+00	0.00E+00	8760
BT1WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT1WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT1WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
BT2OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT2OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT2OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	2.80E-03	8.20E-03	8.20E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.80E-01	1.80E-01	0.00E+00	0.00E+00	8760
BT2OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT2WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT2WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT2WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
BT3OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-03	2.75E-03	8.02E-03	8.02E-03	7.29E-02	7.29E-02	1.44E-01	1.44E-01	1.77E-01	1.77E-01	0.00E+00	0.00E+00	8760
BT3OPSFUGD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT3WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT3WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT3WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
BT4OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT4OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT4OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	2.20E-03	6.44E-03	6.44E-03	5.81E-02	5.81E-02	1.14E-01	1.14E-01	1.42E-01	1.42E-01	0.00E+00	0.00E+00	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
BT4OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.18E-02	3.27E-03	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT4OPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	5.19E-05	4.73E-05	4.73E-05	3.74E-06	3.74E-06	1.55E-05	1.55E-05	2.17E-04	2.17E-04	0.00E+00	0.00E+00	8760
BT4OPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-07	4.31E-07	5.90E-06	5.90E-06	8.63E-07	8.63E-07	1.58E-05	1.58E-05	1.44E-07	1.44E-07	0.00E+00	0.00E+00	8760
BT4OPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	9.98E-05	4.37E-05	4.37E-05	5.32E-06	5.32E-06	1.54E-05	1.54E-05	1.13E-04	1.13E-04	0.00E+00	0.00E+00	8760
BT4WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT4WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT4WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
BT5OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT5OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT5OPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	2.20E-03	6.44E-03	6.44E-03	5.81E-02	5.81E-02	1.14E-01	1.14E-01	1.42E-01	1.42E-01	0.00E+00	0.00E+00	8760
BT5OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.18E-02	3.27E-03	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT5WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT5WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT5WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
WLWTG03A	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	4.02E-04	4.02E-04	4.36E-03	4.36E-03	1.07E-03	1.07E-03	2.15E-03	2.15E-03	0.00E+00	0.00E+00	7.37E-03	7.37E-03	8760
WLWTG03B	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	4.02E-04	4.02E-04	4.36E-03	4.36E-03	1.07E-03	1.07E-03	2.15E-03	2.15E-03	0.00E+00	0.00E+00	7.37E-03	7.37E-03	8760
WLWTG01A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG01B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG02A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG02B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG04	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	1.17E-04	1.17E-04	1.05E-03	1.05E-03	2.59E-04	2.59E-04	5.19E-04	5.19E-04	0.00E+00	0.00E+00	1.81E-03	1.81E-03	8760
WLWTG05	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	1.17E-04	1.17E-04	1.05E-03	1.05E-03	2.59E-04	2.59E-04	5.19E-04	5.19E-04	0.00E+00	0.00E+00	1.81E-03	1.81E-03	8760
WLWGL05	6.48E-01	1.19E+00	6.76E-02	3.70E-02	3.70E-02	2.11E-03	1.22E-03	1.22E-03	6.99E-05	6.12E-04	3.49E-05	2.22E-04	1.26E-05	0.00E+00	0.00E+00	1.52E-04	8.69E-06	0.00E+00	0.00E+00	6.22E-05	3.55E-06	500
WLWHG03	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8.56E-06	8.56E-06	1.39E-05	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	1.88E-05	3.06E-04	3.06E-04	8760
WLWHG04	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8.56E-06	8.56E-06	1.39E-05	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	1.88E-05	3.06E-04	3.06E-04	8760
WLWHG01	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	5.19E-06	5.19E-06	8.40E-06	8.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	1.14E-05	1.85E-04	1.85E-04	8760
WLWHG02	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	5.19E-06	5.19E-06	8.40E-06	8.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	1.14E-05	1.85E-04	1.85E-04	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WLWHG06	3.84E-01	4.57E-01	4.57E-01	3.47E-02	3.47E-02	3.47E-02	3.09E-02	3.09E-02	3.09E-02	9.60E-06	9.60E-06	1.55E-05	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	2.10E-05	3.43E-04	3.43E-04	8760
WLWFGLP	4.15E-02	4.94E-02	4.94E-02	3.76E-03	3.76E-03	3.76E-03	3.34E-03	3.34E-03	3.34E-03	1.04E-06	1.04E-06	1.68E-06	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-06	3.11E-06	3.71E-05	3.71E-05	8760
WLWFGHP	4.15E-02	4.94E-02	4.94E-02	3.76E-03	3.76E-03	3.76E-03	3.34E-03	3.34E-03	3.34E-03	1.04E-06	1.04E-06	1.68E-06	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-06	3.11E-06	3.71E-05	3.71E-05	8760
WCFOPSDS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06	3.71E-06	4.50E-05	4.50E-05	6.45E-06	6.45E-06	1.20E-04	1.20E-04	8.06E-07	8.06E-07	0.00E+00	0.00E+00	8760
WCFOPSTSO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-04	6.89E-04	3.83E-04	3.83E-04	6.00E-05	6.00E-05	1.78E-04	1.78E-04	6.94E-04	6.94E-04	0.00E+00	0.00E+00	8760
WCFOPSTCO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	9.98E-05	4.37E-05	4.37E-05	5.32E-06	5.32E-06	1.54E-05	1.54E-05	1.13E-04	1.13E-04	0.00E+00	0.00E+00	8760
WCFOPSTUD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-06	3.31E-06	4.01E-05	4.01E-05	5.75E-06	5.75E-06	1.07E-04	1.07E-04	7.19E-07	7.19E-07	0.00E+00	0.00E+00	8760
WCFOPSTLD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-07	2.88E-07	3.88E-06	3.88E-06	5.75E-07	5.75E-07	1.05E-05	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WCFOPSTEB	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	5.19E-05	4.73E-05	4.73E-05	3.74E-06	3.74E-06	1.55E-05	1.55E-05	2.17E-04	2.17E-04	0.00E+00	0.00E+00	8760
WCFOPSFUG	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	3.52E-04	1.49E-03	1.49E-03	1.41E-03	1.41E-03	2.22E-03	2.22E-03	1.33E-02	1.33E-02	0.00E+00	0.00E+00	8760
WCFOPSFUGD	0.00E+00	0.00E+00	0.00E+00	9.79E-02	1.47E-02	1.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCPWRGEN1	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WOCPWRGEN2	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WOCPWRGEN3	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WLWIG01	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	9.34E-07	7.78E-07	1.51E-06	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-06	2.33E-06	3.34E-05	2.78E-05	7300
WLWIG02	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	9.34E-07	7.78E-07	1.51E-06	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-06	2.33E-06	3.34E-05	2.78E-05	7300
WLWHL05	5.93E-03	2.37E-02	2.37E-02	2.82E-03	2.53E-03	2.53E-03	2.54E-04	2.54E-04	2.54E-04	2.54E-07	2.54E-07	7.36E-06	7.36E-06	7.55E-08	7.55E-08	1.29E-07	1.29E-07	0.00E+00	0.00E+00	3.92E-05	3.92E-05	8760
WOCOPSTJF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-06	1.01E-06	8.49E-06	8.49E-06	2.59E-06	2.59E-06	5.18E-06	5.18E-06	2.01E-06	2.01E-06	0.00E+00	0.00E+00	8760
WOCOPSTHC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05	8.50E-05	3.37E-05	3.37E-05	3.60E-06	3.60E-06	1.05E-05	1.05E-05	1.02E-04	1.02E-04	0.00E+00	0.00E+00	8760
WOCOPSTD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-07	2.88E-07	2.73E-06	2.73E-06	4.31E-07	4.31E-07	7.19E-06	7.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
WILLOWAIR1	1.51E-07	4.48E-08	4.48E-08	1.87E-09	1.87E-09	1.87E-09	6.62E-09	6.62E-09	6.62E-09	4.23E-10	4.23E-10	1.81E-10	1.81E-10	4.82E-11	4.82E-11	1.16E-10	1.16E-10	1.23E-11	1.23E-11	3.08E-09	3.08E-09	8760
WILLOWAIR2	1.51E-07	4.48E-08	4.48E-08	1.87E-09	1.87E-09	1.87E-09	6.62E-09	6.62E-09	6.62E-09	4.23E-10	4.23E-10	1.81E-10	1.81E-10	4.82E-11	4.82E-11	1.16E-10	1.16E-10	1.23E-11	1.23E-11	3.08E-09	3.08E-09	8760
WILLOWAIR3	1.51E-07	4.48E-08	4.48E-08	1.87E-09	1.87E-09	1.87E-09	6.62E-09	6.62E-09	6.62E-09	4.23E-10	4.23E-10	1.81E-10	1.81E-10	4.82E-11	4.82E-11	1.16E-10	1.16E-10	1.23E-11	1.23E-11	3.08E-09	3.08E-09	8760
WOCOPSFUGD	0.00E+00	0.00E+00	0.00E+00	1.62E-01	2.43E-02	2.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFPCE1	3.26E-07	1.49E-06	1.49E-06	1.12E-07	1.11E-07	1.11E-07	1.93E-09	1.93E-09	1.93E-09	2.87E-10	2.87E-10	1.67E-10	1.67E-10	8.76E-11	8.76E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-10	5.85E-10	8760
WCFPCE2	3.26E-07	1.49E-06	1.49E-06	1.12E-07	1.11E-07	1.11E-07	1.93E-09	1.93E-09	1.93E-09	2.87E-10	2.87E-10	1.67E-10	1.67E-10	8.76E-11	8.76E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-10	5.85E-10	8760
WCFPCE3	3.26E-07	1.49E-06	1.49E-06	1.12E-07	1.11E-07	1.11E-07	1.93E-09	1.93E-09	1.93E-09	2.87E-10	2.87E-10	1.67E-10	1.67E-10	8.76E-11	8.76E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-10	5.85E-10	8760

Source ID	Modeled Emission Rates (g/s)																					Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde		
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WCFPCE4	3.26E-07	1.49E-06	1.49E-06	1.12E-07	1.11E-07	1.11E-07	1.93E-09	1.93E-09	1.93E-09	2.87E-10	2.87E-10	1.67E-10	1.67E-10	8.76E-11	8.76E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-10	5.85E-10	8760
WCFPCE5	3.26E-07	1.49E-06	1.49E-06	1.12E-07	1.11E-07	1.11E-07	1.93E-09	1.93E-09	1.93E-09	2.87E-10	2.87E-10	1.67E-10	1.67E-10	8.76E-11	8.76E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-10	5.85E-10	8760
WCFPCE6	3.26E-07	1.49E-06	1.49E-06	1.12E-07	1.11E-07	1.11E-07	1.93E-09	1.93E-09	1.93E-09	2.87E-10	2.87E-10	1.67E-10	1.67E-10	8.76E-11	8.76E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-10	5.85E-10	8760
WCFPCE7	3.26E-07	1.49E-06	1.49E-06	1.12E-07	1.11E-07	1.11E-07	1.93E-09	1.93E-09	1.93E-09	2.87E-10	2.87E-10	1.67E-10	1.67E-10	8.76E-11	8.76E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-10	5.85E-10	8760
WCFSCE1	2.42E-07	3.03E-07	3.03E-07	2.32E-08	2.32E-08	2.32E-08	2.06E-08	2.06E-08	2.06E-08	6.41E-12	6.41E-12	1.04E-11	1.04E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-11	1.92E-11	2.29E-10	2.29E-10	8760
WCFSCE2	2.42E-07	3.03E-07	3.03E-07	2.32E-08	2.32E-08	2.32E-08	2.06E-08	2.06E-08	2.06E-08	6.41E-12	6.41E-12	1.04E-11	1.04E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-11	1.92E-11	2.29E-10	2.29E-10	8760
WCFSCE3	2.42E-07	3.03E-07	3.03E-07	2.32E-08	2.32E-08	2.32E-08	2.06E-08	2.06E-08	2.06E-08	6.41E-12	6.41E-12	1.04E-11	1.04E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-11	1.92E-11	2.29E-10	2.29E-10	8760
WCFSCE4	2.42E-07	3.03E-07	3.03E-07	2.32E-08	2.32E-08	2.32E-08	2.06E-08	2.06E-08	2.06E-08	6.41E-12	6.41E-12	1.04E-11	1.04E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-11	1.92E-11	2.29E-10	2.29E-10	8760
WCFSCE5	2.42E-07	3.03E-07	3.03E-07	2.32E-08	2.32E-08	2.32E-08	2.06E-08	2.06E-08	2.06E-08	6.41E-12	6.41E-12	1.04E-11	1.04E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-11	1.92E-11	2.29E-10	2.29E-10	8760
WCFSCE6	2.42E-07	3.03E-07	3.03E-07	2.32E-08	2.32E-08	2.32E-08	2.06E-08	2.06E-08	2.06E-08	6.41E-12	6.41E-12	1.04E-11	1.04E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-11	1.92E-11	2.29E-10	2.29E-10	8760
WCFSCE7	2.42E-07	3.03E-07	3.03E-07	2.32E-08	2.32E-08	2.32E-08	2.06E-08	2.06E-08	2.06E-08	6.41E-12	6.41E-12	1.04E-11	1.04E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-11	1.92E-11	2.29E-10	2.29E-10	8760
WCFNRE1	1.44E-06	6.68E-06	6.68E-06	4.74E-07	4.74E-07	4.74E-07	2.34E-09	2.34E-09	2.34E-09	1.41E-09	1.41E-09	6.17E-10	6.17E-10	4.30E-10	4.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-09	1.78E-09	8760
WCFNRE2	1.44E-06	6.68E-06	6.68E-06	4.74E-07	4.74E-07	4.74E-07	2.34E-09	2.34E-09	2.34E-09	1.41E-09	1.41E-09	6.17E-10	6.17E-10	4.30E-10	4.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-09	1.78E-09	8760
WCFNRE3	1.44E-06	6.68E-06	6.68E-06	4.74E-07	4.74E-07	4.74E-07	2.34E-09	2.34E-09	2.34E-09	1.41E-09	1.41E-09	6.17E-10	6.17E-10	4.30E-10	4.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-09	1.78E-09	8760
WCFNRE4	1.44E-06	6.68E-06	6.68E-06	4.74E-07	4.74E-07	4.74E-07	2.34E-09	2.34E-09	2.34E-09	1.41E-09	1.41E-09	6.17E-10	6.17E-10	4.30E-10	4.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-09	1.78E-09	8760
WCFNRE5	1.44E-06	6.68E-06	6.68E-06	4.74E-07	4.74E-07	4.74E-07	2.34E-09	2.34E-09	2.34E-09	1.41E-09	1.41E-09	6.17E-10	6.17E-10	4.30E-10	4.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-09	1.78E-09	8760
WCFNRE6	1.44E-06	6.68E-06	6.68E-06	4.74E-07	4.74E-07	4.74E-07	2.34E-09	2.34E-09	2.34E-09	1.41E-09	1.41E-09	6.17E-10	6.17E-10	4.30E-10	4.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-09	1.78E-09	8760
WCFNRE7	1.44E-06	6.68E-06	6.68E-06	4.74E-07	4.74E-07	4.74E-07	2.34E-09	2.34E-09	2.34E-09	1.41E-09	1.41E-09	6.17E-10	6.17E-10	4.30E-10	4.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-09	1.78E-09	8760
WLW2GEN	1.19E-01	5.87E-01	6.08E-01	3.46E-02	3.46E-02	3.53E-02	3.51E-04	3.51E-04	3.51E-04	1.91E-04	2.05E-04	7.62E-05	8.20E-05	5.24E-05	5.24E-05	2.47E-07	4.32E-06	0.00E+00	0.00E+00	1.24E-04	1.41E-04	8760
BT3NRE1	9.65E-07	1.03E-06	1.03E-07	1.03E-07	1.02E-07	1.02E-08	2.14E-09	2.14E-09	2.14E-10	6.57E-10	6.57E-11	3.18E-10	3.18E-11	3.12E-13	3.12E-14	2.01E-10	2.01E-11	0.00E+00	0.00E+00	6.10E-10	6.10E-11	876
BT3WIN1	1.31E-06	1.83E-06	7.23E-07	1.88E-07	1.79E-07	7.05E-08	8.96E-09	8.96E-09	3.53E-09	8.44E-10	3.33E-10	5.87E-10	2.32E-10	2.26E-12	8.91E-13	2.59E-10	1.02E-10	0.00E+00	0.00E+00	2.16E-09	8.53E-10	288
3WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
BT1NRE1	9.65E-07	1.03E-06	1.03E-07	1.03E-07	1.02E-07	1.02E-08	2.14E-09	2.14E-09	2.14E-10	6.57E-10	6.57E-11	3.18E-10	3.18E-11	3.12E-13	3.12E-14	2.01E-10	2.01E-11	0.00E+00	0.00E+00	6.10E-10	6.10E-11	876
BT1WIN1	1.31E-06	1.83E-06	7.23E-07	1.88E-07	1.79E-07	7.05E-08	8.96E-09	8.96E-09	3.53E-09	8.44E-10	3.33E-10	5.87E-10	2.32E-10	2.26E-12	8.91E-13	2.59E-10	1.02E-10	0.00E+00	0.00E+00	2.16E-09	8.53E-10	288
1WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
BT2NRE1	9.65E-07	1.03E-06	1.03E-07	1.03E-07	1.02E-07	1.02E-08	2.14E-09	2.14E-09	2.14E-10	6.57E-10	6.57E-11	3.18E-10	3.18E-11	3.12E-13	3.12E-14	2.01E-10	2.01E-11	0.00E+00	0.00E+00	6.10E-10	6.10E-11	876
BT2WIN1	1.31E-06	1.83E-06	7.23E-07	1.88E-07	1.79E-07	7.05E-08	8.96E-09	8.96E-09	3.53E-09	8.44E-10	3.33E-10	5.87E-10	2.32E-10	2.26E-12	8.91E-13	2.59E-10	1.02E-10	0.00E+00	0.00E+00	2.16E-09	8.53E-10	288

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
2WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
BT4NRE1	9.65E-07	1.03E-06	1.03E-07	1.03E-07	1.02E-07	1.02E-08	2.14E-09	2.14E-09	2.14E-10	6.57E-10	6.57E-11	3.18E-10	3.18E-11	3.12E-13	3.12E-14	2.01E-10	2.01E-11	0.00E+00	0.00E+00	6.10E-10	6.10E-11	876
BT4WIN1	1.31E-06	1.83E-06	7.23E-07	1.88E-07	1.79E-07	7.05E-08	8.96E-09	8.96E-09	3.53E-09	8.44E-10	3.33E-10	5.87E-10	2.32E-10	2.26E-12	8.91E-13	2.59E-10	1.02E-10	0.00E+00	0.00E+00	2.16E-09	8.53E-10	288
4WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
BT5NRE1	9.65E-07	1.03E-06	1.03E-07	1.03E-07	1.02E-07	1.02E-08	2.14E-09	2.14E-09	2.14E-10	6.57E-10	6.57E-11	3.18E-10	3.18E-11	3.12E-13	3.12E-14	2.01E-10	2.01E-11	0.00E+00	0.00E+00	6.10E-10	6.10E-11	876
BT5WIN1	1.31E-06	1.83E-06	7.23E-07	1.88E-07	1.79E-07	7.05E-08	8.96E-09	8.96E-09	3.53E-09	8.44E-10	3.33E-10	5.87E-10	2.32E-10	2.26E-12	8.91E-13	2.59E-10	1.02E-10	0.00E+00	0.00E+00	2.16E-09	8.53E-10	288
5WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
WOCPCE	4.07E-08	1.84E-07	1.84E-07	1.46E-08	1.42E-08	1.42E-08	4.06E-10	4.06E-10	4.06E-10	3.21E-11	3.21E-11	2.41E-11	2.41E-11	9.81E-12	9.81E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-11	9.46E-11	VARIES
WOCSCE	3.16E-08	5.51E-08	5.51E-08	4.36E-09	4.36E-09	4.36E-09	3.87E-09	3.87E-09	3.87E-09	1.20E-12	1.20E-12	1.95E-12	1.95E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-12	3.61E-12	4.30E-11	4.30E-11	8760
WOCNRE	2.87E-07	1.27E-06	9.60E-07	1.08E-07	1.03E-07	6.96E-08	4.13E-09	4.13E-09	7.57E-10	1.98E-10	1.94E-10	1.95E-10	9.75E-11	6.03E-11	5.93E-11	1.93E-12	2.21E-13	0.00E+00	0.00E+00	8.31E-10	3.12E-10	8760
1TAIL1	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	2.11E-08	2.11E-08	2.07E-08	2.07E-08	8.06E-09	8.06E-09	2.17E-08	2.17E-08	7.64E-09	7.64E-09	2.31E-07	2.31E-07	8760
1TAIL2	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	2.11E-08	2.11E-08	2.07E-08	2.07E-08	8.06E-09	8.06E-09	2.17E-08	2.17E-08	7.64E-09	7.64E-09	2.31E-07	2.31E-07	8760
1TAIL3	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	2.11E-08	2.11E-08	2.07E-08	2.07E-08	8.06E-09	8.06E-09	2.17E-08	2.17E-08	7.64E-09	7.64E-09	2.31E-07	2.31E-07	8760
1TAIL4	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	2.11E-08	2.11E-08	2.07E-08	2.07E-08	8.06E-09	8.06E-09	2.17E-08	2.17E-08	7.64E-09	7.64E-09	2.31E-07	2.31E-07	8760
1TAIL5	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	2.11E-08	2.11E-08	2.07E-08	2.07E-08	8.06E-09	8.06E-09	2.17E-08	2.17E-08	7.64E-09	7.64E-09	2.31E-07	2.31E-07	8760
1TAIL6	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	2.11E-08	2.11E-08	2.07E-08	2.07E-08	8.06E-09	8.06E-09	2.17E-08	2.17E-08	7.64E-09	7.64E-09	2.31E-07	2.31E-07	8760
1TAIL7	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	2.11E-08	2.11E-08	2.07E-08	2.07E-08	8.06E-09	8.06E-09	2.17E-08	2.17E-08	7.64E-09	7.64E-09	2.31E-07	2.31E-07	8760
1TAIL8	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	2.11E-08	2.11E-08	2.07E-08	2.07E-08	8.06E-09	8.06E-09	2.17E-08	2.17E-08	7.64E-09	7.64E-09	2.31E-07	2.31E-07	8760
1TAIL9	2.03E-05	1.55E-05	1.55E-05	1.71E-06	7.35E-07	7.35E-07	6.60E-08	6.60E-08	6.60E-08	2.11E-08	2.11E-08	2.07E-08	2.07E-08	8.06E-09	8.06E-09	2.17E-08	2.17E-08	7.64E-09	7.64E-09	2.31E-07	2.31E-07	8760
2TAIL1	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
2TAIL2	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
2TAIL3	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
2TAIL4	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
2TAIL5	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
2TAIL6	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
3TAIL1	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
3TAIL2	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
3TAIL3	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
3TAIL4	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
3TAIL5	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
3TAIL6	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
4TAIL1	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	2.71E-08	2.71E-08	2.67E-08	2.67E-08	1.04E-08	1.04E-08	2.79E-08	2.79E-08	9.82E-09	9.82E-09	2.97E-07	2.97E-07	8760
4TAIL2	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	2.71E-08	2.71E-08	2.67E-08	2.67E-08	1.04E-08	1.04E-08	2.79E-08	2.79E-08	9.82E-09	9.82E-09	2.97E-07	2.97E-07	8760
4TAIL3	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	2.71E-08	2.71E-08	2.67E-08	2.67E-08	1.04E-08	1.04E-08	2.79E-08	2.79E-08	9.82E-09	9.82E-09	2.97E-07	2.97E-07	8760
4TAIL4	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	2.71E-08	2.71E-08	2.67E-08	2.67E-08	1.04E-08	1.04E-08	2.79E-08	2.79E-08	9.82E-09	9.82E-09	2.97E-07	2.97E-07	8760
4TAIL5	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	2.71E-08	2.71E-08	2.67E-08	2.67E-08	1.04E-08	1.04E-08	2.79E-08	2.79E-08	9.82E-09	9.82E-09	2.97E-07	2.97E-07	8760
4TAIL6	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	2.71E-08	2.71E-08	2.67E-08	2.67E-08	1.04E-08	1.04E-08	2.79E-08	2.79E-08	9.82E-09	9.82E-09	2.97E-07	2.97E-07	8760
4TAIL7	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	2.71E-08	2.71E-08	2.67E-08	2.67E-08	1.04E-08	1.04E-08	2.79E-08	2.79E-08	9.82E-09	9.82E-09	2.97E-07	2.97E-07	8760
5TAIL1	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	2.71E-08	2.71E-08	2.67E-08	2.67E-08	1.04E-08	1.04E-08	2.79E-08	2.79E-08	9.82E-09	9.82E-09	2.97E-07	2.97E-07	8760
5TAIL2	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	2.71E-08	2.71E-08	2.67E-08	2.67E-08	1.04E-08	1.04E-08	2.79E-08	2.79E-08	9.82E-09	9.82E-09	2.97E-07	2.97E-07	8760
5TAIL3	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	2.71E-08	2.71E-08	2.67E-08	2.67E-08	1.04E-08	1.04E-08	2.79E-08	2.79E-08	9.82E-09	9.82E-09	2.97E-07	2.97E-07	8760
5TAIL4	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	2.71E-08	2.71E-08	2.67E-08	2.67E-08	1.04E-08	1.04E-08	2.79E-08	2.79E-08	9.82E-09	9.82E-09	2.97E-07	2.97E-07	8760
5TAIL5	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	2.71E-08	2.71E-08	2.67E-08	2.67E-08	1.04E-08	1.04E-08	2.79E-08	2.79E-08	9.82E-09	9.82E-09	2.97E-07	2.97E-07	8760
5TAIL6	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	2.71E-08	2.71E-08	2.67E-08	2.67E-08	1.04E-08	1.04E-08	2.79E-08	2.79E-08	9.82E-09	9.82E-09	2.97E-07	2.97E-07	8760
5TAIL7	2.61E-05	1.99E-05	1.99E-05	2.19E-06	9.46E-07	9.46E-07	8.48E-08	8.48E-08	8.48E-08	2.71E-08	2.71E-08	2.67E-08	2.67E-08	1.04E-08	1.04E-08	2.79E-08	2.79E-08	9.82E-09	9.82E-09	2.97E-07	2.97E-07	8760
WOCTAIL1	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL2	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL3	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL4	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL5	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL6	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL7	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL8	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL9	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCTAIL10	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL11	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL12	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL13	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL14	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL15	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL16	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL17	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL18	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL19	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL20	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL21	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL22	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL23	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL24	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL25	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL26	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL27	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL28	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL29	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL30	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL31	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL32	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL33	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL34	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL35	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL36	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCTAIL37	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL38	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL39	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL40	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL41	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL42	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL43	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL44	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL45	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL46	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL47	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL48	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL49	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL50	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL51	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL52	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL53	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL54	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL55	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL56	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL57	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL58	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL59	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL60	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL61	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL62	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WOCTAIL63	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
AIRTAIL1	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
AIRTAIL2	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
AIRTAIL3	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
AIRTAIL4	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
AIRTAIL5	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
AIRTAIL6	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
AIRTAIL7	5.22E-06	3.99E-06	3.99E-06	4.39E-07	1.89E-07	1.89E-07	1.70E-08	1.70E-08	1.70E-08	5.42E-09	5.42E-09	5.33E-09	5.33E-09	2.07E-09	2.07E-09	5.59E-09	5.59E-09	1.96E-09	1.96E-09	5.94E-08	5.94E-08	8760
WCFTAIL1	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
WCFTAIL2	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
WCFTAIL3	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
WCFTAIL4	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
WCFTAIL5	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
WCFTAIL6	3.04E-05	2.33E-05	2.33E-05	2.56E-06	1.10E-06	1.10E-06	9.90E-08	9.90E-08	9.90E-08	3.16E-08	3.16E-08	3.11E-08	3.11E-08	1.21E-08	1.21E-08	3.26E-08	3.26E-08	1.15E-08	1.15E-08	3.46E-07	3.46E-07	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD7	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD8	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD9	0.00E+00	0.00E+00	0.00E+00	4.43E-03	4.43E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD5	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																					Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde		
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
2MFUGD6	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD1	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD2	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD3	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD4	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD5	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD6	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD1	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD2	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD3	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD4	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD5	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD6	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
4MFUGD7	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD1	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD2	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD3	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD4	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD5	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD6	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD7	0.00E+00	0.00E+00	0.00E+00	5.70E-03	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD1	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD2	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD3	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD4	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD5	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD6	0.00E+00	0.00E+00	0.00E+00	6.65E-03	6.65E-04	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																					Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde		
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCMFUGD1	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD2	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD3	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD4	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD5	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD6	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD7	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD8	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD9	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD10	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD11	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD12	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD13	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD14	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD15	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD16	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD17	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD18	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD19	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD20	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD21	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD22	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD23	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD24	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD25	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD26	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD27	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																					Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde		
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCMFUGD28	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD29	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD30	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD31	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD32	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD33	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD34	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD35	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD36	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD37	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD38	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD39	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD40	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD41	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD42	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD43	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD44	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD45	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD46	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD47	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD48	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD49	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD50	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD51	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD52	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD53	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD54	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																					Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde		
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCMFUGD55	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD56	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD57	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD58	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD59	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD60	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD61	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD62	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD63	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD1	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD2	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD3	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD4	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD5	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD6	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD7	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.14E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCTEMPTRB1	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	9.17E-05	9.17E-05	9.93E-04	9.93E-04	2.45E-04	2.45E-04	4.89E-04	4.89E-04	0.00E+00	0.00E+00	1.68E-03	1.68E-03	8760
WOCTEMPTRB2	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	9.17E-05	9.17E-05	9.93E-04	9.93E-04	2.45E-04	2.45E-04	4.89E-04	4.89E-04	0.00E+00	0.00E+00	1.68E-03	1.68E-03	8760
RFDGMT1	3.50E-01	3.50E-01	2.69E+00	3.50E-01	3.50E-01	1.29E-01	1.67E-01	1.67E-01	1.67E-01	8.87E-03	8.87E-03	3.32E-03	3.32E-03	1.29E-02	1.29E-02	1.51E-02	1.51E-02	6.49E-02	6.49E-02	3.69E-03	3.69E-03	8760
RFDGMT2	4.06E+00	7.21E+00	7.34E-01	4.06E+00	6.44E-01	7.71E-02	1.40E-02	1.40E-02	6.33E-03	4.03E-04	4.03E-04	4.60E-04	4.60E-04	3.16E-04	3.16E-04	5.75E-04	5.75E-04	6.62E-03	6.62E-03	4.03E-04	4.03E-04	8760
RFDGWPDS1	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	3.02E-03	3.02E-03	8.32E-03	8.32E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.81E-01	1.81E-01	5.98E-05	5.98E-05	8760
RFDGWPDS2	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	3.02E-03	3.02E-03	8.32E-03	8.32E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.81E-01	1.81E-01	5.98E-05	5.98E-05	8760
RFDCD5	1.82E+00	2.15E+00	2.15E+00	1.27E-01	1.27E-01	1.27E-01	2.70E-01	2.70E-01	2.70E-01	6.26E-02	6.26E-02	2.31E-02	2.31E-02	5.05E-02	5.05E-02	6.60E-02	6.60E-02	2.54E-01	2.54E-01	1.73E-02	1.73E-02	8760

1. Annual emission rate calculations are based on the number of actual daily operating hours provided in the EI. If actual daily operating hour timeframes were not known, 8760 hours were assumed.

Attachment B

Willow MDP CAMx Model Performance Evaluation

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B.1 Executive Summary

This document presents results of the Willow model performance evaluation for the CAMx modeling of the 2012 Base Case simulation at a 4 km resolution. Specifically, results for maximum daily 8-hour ozone (MDA8) and 24-hr averaged $PM_{2.5}$ and $PM_{2.5}$ species (sulfate, nitrate, ammonium, elemental carbon (EC), organic carbon (OC), crustal soil, and sodium) are presented.

Overall, the model performs well with best annual-based performances for ozone. Specifically, annual-based normalized mean bias (NMB) for ozone fall within the goal range for ozone listed in Emery, et al. (2017) of ±5%.

However, the model presents temporal biases for with under-prediction in the colder months and over-prediction in the warmer months, especially when observational data is very low. Performances during individual quarters are worse than annual-based performances, and annual-based errors are generally higher than annual-based biases because the opposing signs of the biases throughout the year cancel each other out. For example, even though annual-based NMB for ozone falls within the goal range listed in Emery, et al (2017), the annual-based and quarterly-based normalized mean error (NME) values for ozone fall outside the criteria value of 25% listed in Emery, et al. (2017).

$PM_{2.5}$ is systematically biased low at all sites throughout the year. For $PM_{2.5}$ species, all quarterly mean fractional error (MFE) and mean fractional bias (MFB) values for nitrate, ammonium, and crustal soil at Deadhorse and Wainwright are within criteria ranges established in bugle plots. Most of the MFB and MFE values for EC and sodium fall within criteria ranges. MFB and MFE results for sulfate are more mixed. Speciated data like sulfate, nitrate, and ammonium are biased high in quarter 3 when observational data tends to be very low. Crustal soil is consistently over-predicted throughout the year at Deadhorse but biased low during Q1 and Q4 at Wainwright. OC is systematically biased low with all MFB and MFE values falling outside criteria ranges.

In summary, the model performs well excluding difficulties reproducing very low observational data and exhibits systematic biases for OC and crustal soil. Note that the goals and other criteria used in the MPE are not bright-line (pass/fail) thresholds.

Table B.1-1 Annually-based NMB and NME values at 3 monitoring locations (Nuiqsut, Deadhorse, and Wainwright) and averaged across all available sites in the 4 km modeling domain (domain-wide). Criteria ranges for each pollutant established in Emery et al. (2017) are also presented. Bolded values represent values that fall outside of criteria ranges established in Emery, et al., if available.

Metric	Pollutant	Emery et al. (2017) criteria	Domain-wide	Nuiqsut	Deadhorse	Wainwright
NMB	Ozone	±15%	-3.72	-1.46	--	--
	$PM_{2.5}$	±30%	**-59.8**	**-50.8**	**-75.7**	**-72.1**
	Sulfate	±30%	--	--	**31.8**	**68.4**
	Nitrate	±60%	--	--	-6.63	-27.6
	Ammonium	±30%	--	--	**-54.0**	-27.6
	EC	±40%	--	--	**-76.2**	**-76.8**
	OC	±50%	--	--	**-95.6**	**-98.1**

Metric	Pollutant	Emery et al. (2017) criteria	Domain-wide	Nuiqsut	Deadhorse	Wainwright
	Crustal Soil	--	--	--	166	2.04
	Sodium	--	--	--	-33.3	89.8
NME	Ozone	25%	**29.0**	**33.3**	--	--
	$PM_{2.5}$	50%	**63.2**	**55.8**	**76.0**	**74.3**
	Sulfate	50%	--	--	**103**	**126**
	Nitrate	115%	--	--	90.1	67.2
	Ammonium	50%	--	--	**55.6**	40.2
	EC	75%	--	--	**77.6**	**86.3**
	OC	65%	--	--	**95.6**	**98.1**
	Crustal Soil	--	--	--	225	122
	Sodium	--	--	--	105	205

B.2 Introduction

An operational evaluation of photochemical model performance for the 2012 base year scenario was carried out by comparing model results from the 4 km domain to available ambient air quality observations. As discussed in section 2 and shown in previous studies (ADEC, 2011), ambient air quality monitoring data suitable for model evaluation are extremely limited in this area, and due to this limited availability, U.S. EPA's automated model evaluation tool (AMET[1]) could not be used for this analysis. Instead, model predictions averaged over 9-grid cell blocks centered on individual monitoring sites were used for comparison with the measurements on a site-by-site basis. A previous study (Stoeckenius, Jung, Koo, Sha, & Morris, 2017) conducted in this area showed that model performance results for 24-hour $PM_{2.5}$ using 9-grid cell averages had little difference from results using the single grid cell containing the monitoring site, suggesting the use of the 9-grid cell averages is adequate for this evaluation.

The pollutants analyzed in this performance analysis are the maximum daily 8-hour average (MDA8) ozone, 24-hr averaged $PM_{2.5}$, and 24-hr averaged species of $PM_{2.5}$, including sulfate, nitrate, ammonium, organic carbon (OC), elemental carbon (EC), sodium, and crustal soil. Standard statistical measures of model performance as recommended in U.S. EPA guidance (U.S. EPA, 2018) were used for this analysis. These metrics are defined as described in Table B.2-1. Scatter, density, timeseries, and bugle plots (Boylan & Russell, 2006) are presented to further evaluate the performance of the model data as recommended in U.S. EPA guidance (U.S. EPA, 2018). Note that time series and density plots are only presented for two monitoring sites for ozone and one monitoring site for $PM_{2.5}$ due to limited temporal resolution in observational data of other monitoring locations.

Table B.2-1 presents the specific definition for the statistical metrics evaluated for each pollutant in this study using all available observational site-days across the year 2012. Emery, et al. (2017), recommends setting goals/criteria of NMB at ±5%/±15% for ozone; ±10%/±30% for 24-hour $PM_{2.5}$, sulfate, and ammonium; ±15%/±65% for 24-hour nitrate; ±15%/±50% for 24-hour OC; and ±20%/±40% for 24-hour EC, and setting goals/criteria for NME at 15%/25% for ozone; 35%/50% for 24-hour $PM_{2.5}$, sulfate, and ammonium; 65%/115% for 24-hour nitrate; 45%/65% for 24-hour OC; and 50%/75% for 24-hour EC

[1] https://github.com/USEPA/AMET/blob/1.3/docs/AMET_Users_Guide_v1.md

(Emery et al., 2017). These recommendations are based on the top third (goal) and top two thirds (criteria) of performances reported in studies reviewed in Emery, et al. (2017). These goals and criteria standards were developed mainly using model applications in the continental United States, but as no other information exists, the same standards were compared to results from this arctic modeling application. Further, Simon, et al. (2012) presents a synthesis of model performance results from multiple studies across the continental United States. 25th, 50th, and 75th percentile statistics from the collection of all studies considered in Simon, et al. (2012) that are available for the pollutants analyzed in this report are presented with the MPE results for performance comparison purposes. The authors recognize the underlying modeling data have different horizontal extents, averaging periods, and further considerations that may contribute to the spread in the reported model performance.

Table B.2-1 Definitions of model performance statistics

Statistical Measure	Mathematical Expression	Units
NMB: Normalized Mean Bias	$\frac{\sum_{i=1}^{N}(P_i - O_i)}{\sum_{i=1}^{N} O_i} * 100$	%
NME: Normalized Mean Error	$\frac{\sum_{i=1}^{N}\lvert P_i - O_i\rvert}{\sum_{i=1}^{N} O_i} * 100$	%
MNB: Mean Normalized Bias	$\frac{I}{N}\sum_{i=1}^{N}\left(\frac{(P_i - O_i)}{O_i}\right) * 100$	%
MNGE: Mean Normalized Gross Error	$\frac{I}{N}\sum_{i=1}^{N}\left(\frac{\lvert P_i - O_i\rvert}{O_i}\right) * 100$	%
MFB: Mean Fractional Bias	$\frac{2}{N}\sum_{i=1}^{N}\left(\frac{(P_i - O_i)}{(P_i + O_i)}\right) * 100$	%
MFE: Mean Fractional Error	$\frac{2}{N}\sum_{i=1}^{N}\left(\frac{\lvert P_i - O_i\rvert}{(P_i + O_i)}\right) * 100$	%
Mean Obs: Mean of Observations	$\frac{I}{N}\sum_{i=1}^{N} O_i$	ppb (ozone) µg m^{-3} ($PM_{2.5}$ and species)
Mean Mod: Mean of Model Concentrations	$\frac{I}{N}\sum_{i=1}^{N} P_i$	ppb (ozone) µg m^{-3} ($PM_{2.5}$ and species)

B.2.1 Monitoring Sites Within 4 km Domain

Modeling results were spatially and temporally paired with air quality data from monitoring stations within the 4 km modeling domain, presented in Figure B.2-1. Air monitoring sites with data available for at least portions of 2012 are listed in Table B.2-2. Four sites (APAD, DS1F, BRW, CCP) were located in coastal portions of the domain. The APAD, DS1F, and CCP monitoring sites were originally established to satisfy PSD permitting requirements for new major sources. As such, they are located close to sources of emissions and subject to near-source impacts that may not be well represented by CAMx using a 4 km grid.

Ozone and $PM_{2.5}$ results are presented for domain-wide analyses across all monitoring stations (5 sites for ozone and 4 sites for $PM_{2.5}$) and for a single site, Nuiqsut, near the location of interest. For $PM_{2.5}$ species, observational data were only available at two monitoring stations, Deadhorse and Wainwright, so results are presented individually for these sites. Statistical metrics are presented on an annual and quarterly basis due to limited availability of measurement data making monthly analyses less meaningful.

Due to low ambient concentrations of ozone, filtering was not used for performance analyses of ozone. In other words, a minimum concentration threshold (e.g., <40 ppb) for inclusion of ozone in performance analyses was not set, and all daily ozone model and observed values were used in the performance analyses. This method follows the recommendation set in Emery, et al. (2017) for no cutoff values for any statistics reported for ozone.

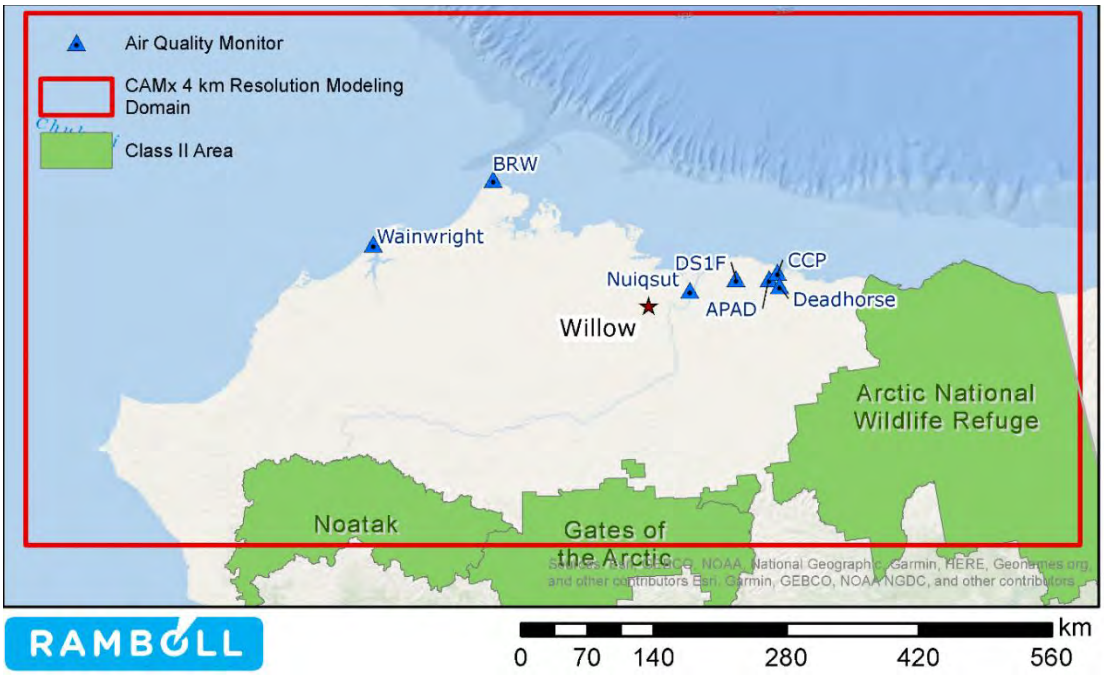


Figure B.2-1 Monitoring locations within 4 km modeling domain.

Table B.2-2 Monitoring site descriptions.

Site Name	Site ID	Source	Lat	Lon	Species
APAD	02185APAD	AK Permit Data	70.26611	-148.7563	O_3
DS1F	02185DS1F	AK Permit Data	70.29917	-149.6847	O_3
BRW	02185XBRW	NOAA	71.323	-156.6114	O_3
CCP	02185XCCP	AK Permit Data	70.31936	-148.5166	O_3, $PM_{2.5}$
Nuiqsut		CPAI	70.22361	-150.9996	$PM_{2.5}$
Deadhorse		ADEC	70.22201	-148.4223	$PM_{2.5}$ components (NO3, SO4, EC, OC, NH4)
Wainwright		ADEC	70.64111	-160.007	$PM_{2.5}$ components (NO3, SO4, EC, OC, NH4)

a AK Permit Data from ADEC air quality permit files as supplied for use in BOEM study by the ADEC; NOAA ESRL published data for the Barrow Observatory (http://www.esrl.noaa.gov/gmd/obop/brw/); ConocoPhillips Alaska, Inc. (CPAI)

B.2.2 Ozone Evaluation

Model performance evaluation results for ozone are summarized in Table B.2-3 and Figure B.2-2 to Figure B.2-4. Peak observed ozone concentrations are less than 50 ppb at all sites with lowest values occurring during March to April and maximum concentrations occurring during November to February. Modeled concentrations show a general underprediction of ozone in the colder months (Q1 and Q4) and overprediction during the warmer months (Q2 and Q3).

Table B.2-3 shows that the model generally has the best performance during Q3. Figure B.2-2 and Figure B.2-3 show time series plots comparing modeled data with observations for Nuiqsut and CCP respectively. These figures indicate that the model was unable to reproduce the periods of very low (<10 ppb) ozone from March to May and underestimated higher observed ozone values from November to February. A similar trend occurred at all other measurement locations in the modeling domain. Figure B.2-4 shows scatter plots of modeled data compared to observations for all available sites in the 4 km domain and indicates that the model performs similarly across all sites for ozone.

Table B.2-4 provides domain-wide NMB and NME for ozone statistics compared to other studies presented in Simon et al. (2012). Notice that a limitation of this comparison is that the statistics derived in this study for Alaska might not be representative of the typical values Simon et al. (2012) provided since that study focused on model evaluations over the continental US. Table B.2-4 shows that annual-averaged NMB have a small negative bias while the studies reported in Simon et al. (2012) generally over-predicted ozone. Table B.2-4 also shows that NME values for this study are higher than the 75th percentile of the reported NME values in Simon et al. (2012).

The annual domain-wide NMB falls within the goal range for ozone listed in Emery, et al. (2017) of ±5%, but domain-wide NMB values for each quarter fall outside this goal, and, except for Q3, fall outside the

criteria range of ±15% established in Emery, et al. (2017). Except for Q3, NME values for the domain-wide analysis and at Nuiqsut fall outside the criteria value of 25% listed in Emery, et al. (2017).

Table B.2-3 Statistical metrics for ozone averaged across all monitoring locations (domain-wide) and at Nuiqsut. Bolded values represent values that fall outside of criteria ranges established in Emery, et al., if available.

Sites	Statistical Measure	Annual	Q1[a]	Q2a	Q3	Q4
All sites 4 km Domain	NMB	-3.72	**-16.1**	**24.6**	10.7	**-22.8**
	NME	**29.0**	**39.9**	**42.5**	15.2	**25.8**
	MNB	19.1	35.5	62.2	13.7	-21.6
	MNGE	45.8	81.6	75.0	17.6	25.5
	MFB	-0.445	-9.37	27.9	11.1	-28.1
	MFE	32.9	48.7	42.6	15.3	31.8
	Mean Obs	27.0	25.5	23.3	24.3	33.9
	Mean Mod	26.0	21.4	29.1	26.9	26.2
Nuiqsut	NMB	-1.46	-14.5	**34.3**	8.55	**-24.0**
	NME	**33.3**	**49.8**	**49.3**	13.4	**27.0**
	MNB	46.5	115	80.7	11.3	-22.4
	MNGE	74.0	165	90.9	15.1	26.6
	MFB	4.38	-0.575	36.0	9.23	-29.3
	MFE	38.6	62.4	47.6	13.4	33.1
	Mean Obs	25.5	23.5	21.3	24.3	33.5
	Mean Mod	25.1	20.1	28.5	26.4	25.5

[a]Quarter 1 (Q1) is averaged over January, February, and March
Quarter 2 (Q2) is averaged over April, May, and June
Quarter 3 (Q3) is averaged over July, August, and September
Quarter 4 (Q4) is averaged over October, November, and December

Table B.2-4 Statistical metrics for this study, statistical metrics reported in Simon et al. (2012), and criteria values reported in Emery et al. (2017) for ozone. Bolded values represent values that fall outside of criteria ranges established in Emery, et al., if available.

Pollutant	Statistical Measure	Annual 4 km-Domain	Simon et al.			Emery et al.
			25th percentile	50th percentile	75th percentile	Criteria Value
Ozone	NMB	-3.72	3.9	6.1	7.8	±15%
	NME	**29.0**	16.0	17.0	17.2	25%

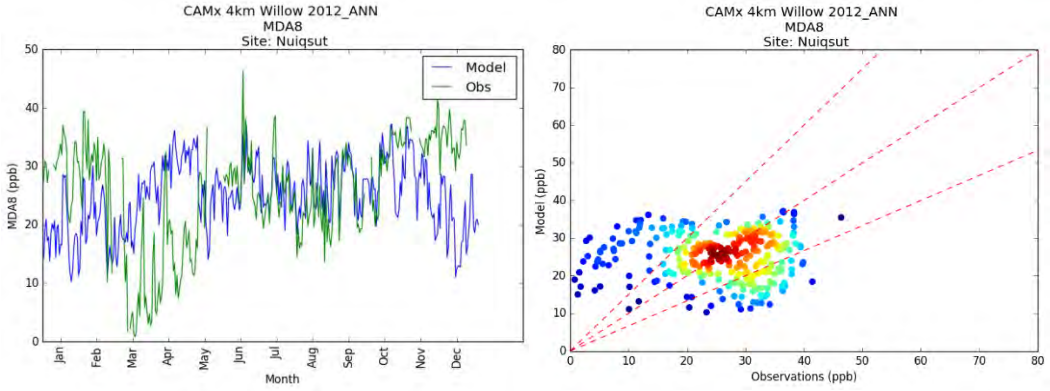


Figure B.2-2 Ozone results at Nuiqsut: daily time series (left) and density scatter plot (right) with hotter colors indicating greater density of data points.

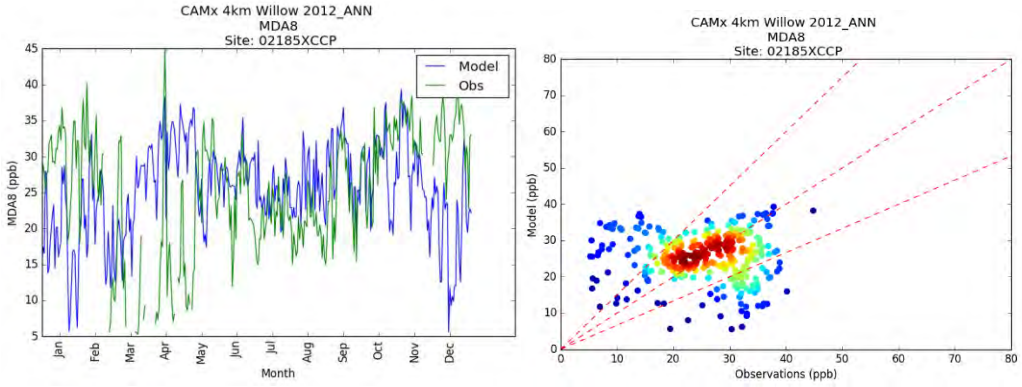


Figure B.2-3 Ozone results at 02185XCCP: daily time series (left) and density scatter plot (right) with hotter colors indicating greater density of data points.

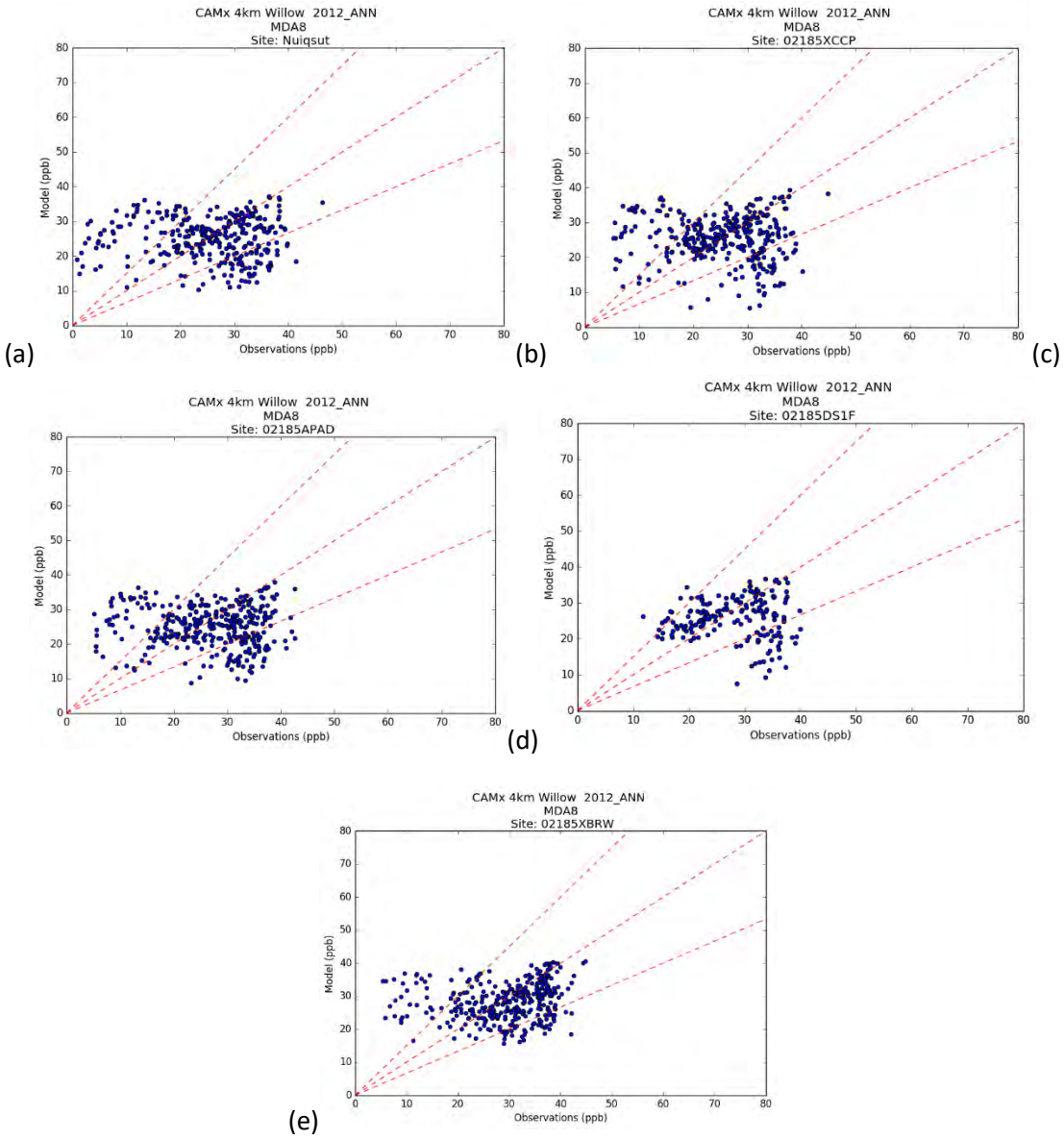


Figure B.2-4 Ozone scatter plots: (a) Nuiqsut, (b) 02185XCCP, (c) 02185APAD, (d) 02185DS1F, and (e) 0185XBRW.

B.2.3 Total $PM_{2.5}$

Model performance evaluation results for total $PM_{2.5}$ are summarized in Table B.2-5 and Figure B.2-5 to Figure B.2-7. Figure B.2-6 shows scatter plots of model data compared to observations for all available sites in the 4 km domain. The figure illustrates that the amount of observations at Nuiqsut is significantly higher than at the other sites and, therefore, the statistics are more reliable and representative at this site. Table B.2-5 summarizes the performance statistics for total $PM_{2.5}$ and shows that, in general, the model under-predicts $PM_{2.5}$ during all quarters. NME values are relatively consistent throughout the year with the highest values occurring in Q4. Figure B.2-5 presents a timeseries comparison of model

and observed concentrations of $PM_{2.5}$ at Nuiqsut. The figure shows model under-prediction throughout the year.

Figure B.2-7 shows the bugle plots that compare both MFB and MFE with average concentrations. The figure shows that the annual-average MFE and MFB for each monitoring location except Nuiqsut falls outside the criteria range. The bugle plots for Nuiqsut show that the model performs within the criteria for Q1 and Q2. Domain-wide annual NMB and Nuiqsut NMB (Table B.2-4)are outside the criteria range for $PM_{2.5}$ listed in Emery, et al. (2017) of ±30%.All reported NME values (all quarters for domain-wide analysis and Nuiqsut) fall above of the criteria value of 30% listed in Emery, et al. (2017).

Table B.2-6 provides domain-wide NMB and NME for $PM_{2.5}$ statistics compared to other studies presented in Simon et al. (2012). The NMB and NME statistics indicate that the current model performance results generally fall outside the 25th to 75th percentile range of values of other studies reported in Simon et al. (2012).

Table B.2-5 Statistical metrics for $PM_{2.5}$ averaged across all monitoring locations (domain-wide) and at Nuiqsut, Deadhorse and Wainwright. Bolded values represent values that fall outside of criteria ranges established in Emery, et al., if available.

Sites	Statistical Measure	Annual	Q1[a]	Q2	Q3	Q4
All sites 4 km Domain	NMB	**-59.8**	**-66.5**	**-47.9**	**-49.1**	**-74.1**
	NME	**63.2**	**67.8**	**55.2**	**52.9**	**75.2**
	MNB	-44.7	-53.2	-25.7	-38.8	-62.3
	MNGE	55.9	58.5	50.1	49.4	66
	MFB	-73.5	-85	-48.4	-59.8	-102
	MFE	80.8	88.5	64	65.8	106
	Mean Obs	3.43	3.54	3.6	2.87	3.69
	Mean Mod	1.38	1.19	1.88	1.46	1.0
Nuiqsut	NMB	**-50.8**	**-58.6**	**-31.1**	**-44.5**	**-67.4**
	NME	**55.8**	**60.5**	42.4	49.9	**69.1**
	MNB	-38.5	-47.3	-16	-34.2	-56.6
	MNGE	51.4	53.7	42.4	48.5	61.2
	MFB	-62.3	-73.5	-31.8	-53.6	-90.6
	MFE	70.9	77.8	49.5	61.6	94.6
	Mean Obs	2.83	2.92	2.79	2.62	2.99
	Mean Mod	1.39	1.21	1.93	1.45	0.975
Deadhorse	NMB	**-75.7**	**-82.2**	**-75.3**	**-51.3**	**-83.8**
	NME	**76.0**	**82.2**	**75.3**	**52.9**	**83.8**
	MNB	-67.7	-77.2	-69.6	-46.9	-81.6
	MNGE	68.2	77.2	69.6	48.5	81.6
	MFB	-111	-132	-113	-67.7	-140
	MFE	111	132	113	69.3	140
	Mean Obs	5.7	7.22	7.03	2.97	6.27
	Mean Mod	1.38	1.28	1.74	1.45	1.02
Wainwright	NMB	**-72.1**	**-85.7**	**-64.5**	**-59.2**	**-79.7**
	NME	**74.3**	**85.7**	**72**	**59.2**	**80.6**
	MNB	-54.6	-84.3	-28.2	-50.6	-66.9
	MNGE	69.2	84.3	76.2	50.6	71.3

Sites	Statistical Measure	Annual	Q1[a]	Q2	Q3	Q4
	MFB	-96.7	-147	-68.2	-76.8	-114
	MFE	105	147	94	76.8	118
	Mean Obs	4.3	5.89	4.08	3.81	3.96
	Mean Mod	1.2	0.844	1.45	1.55	0.802

[a]Quarter 1 (Q1) is averaged over January, February, and March
Quarter 2 (Q2) is averaged over April, May, and June
Quarter 3 (Q3) is averaged over July, August, and September
Quarter 4 (Q4) is averaged over October, November, and December

Table B.2-6 Statistical metrics for this study, statistical metrics reported in Simon et al. (2012), and criteria values reported in Emery et al. (2017) for $PM_{2.5}$. Bolded values represent values that fall outside of criteria ranges established in Emery, et al., if available.

Pollutant	Statistical Measure	Annual 4 km-Domain	Simon et al.			Emery et al.
			25th percentile	50th percentile	75th percentile	Criteria Value
$PM_{2.5}$	NMB	**-59.8**	-21.1	0.0	10.4	±30%
	NME	**63.2**	36.9	41.2	50.7	50%
	MFB	-73.5	-33.5	-12.0	-3.0	--
	MFE	80.8	34.0	49.0	54.0	--

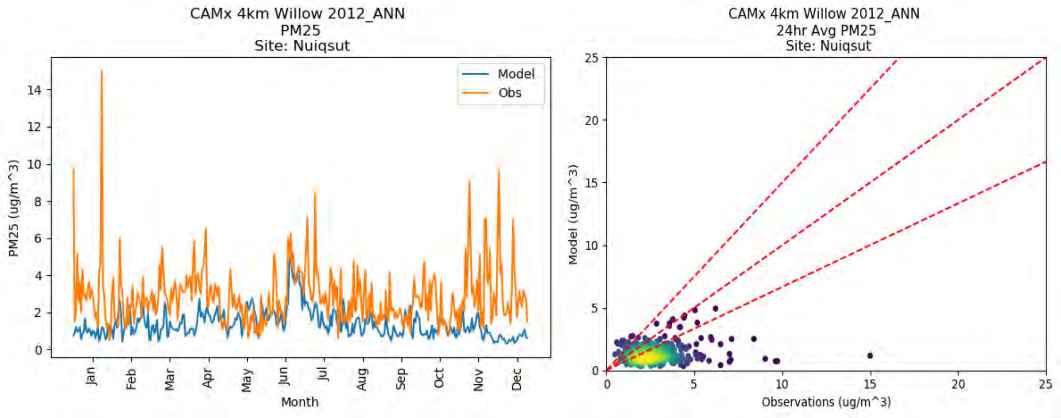


Figure B.2-5 $PM_{2.5}$ results at Nuiqsut: daily time series (left) and density scatter plot (right) with hotter colors indicating greater density of data points.

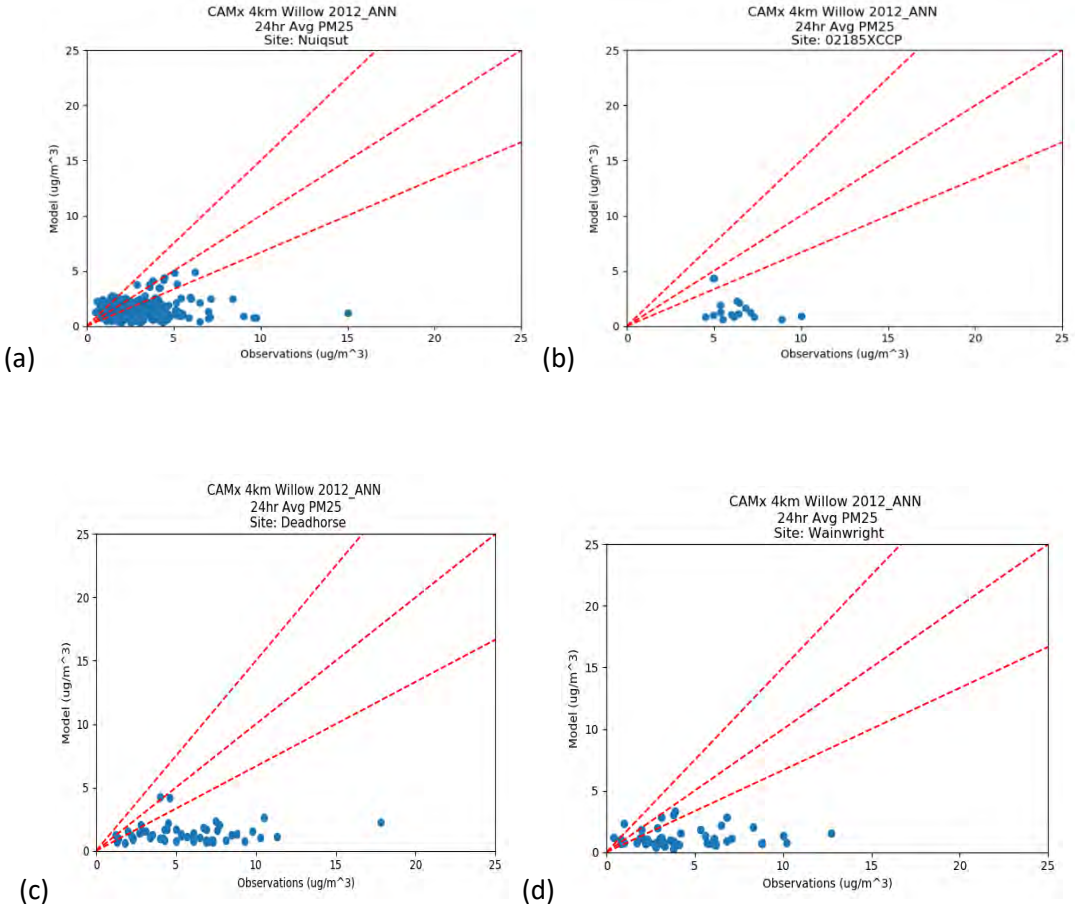


Figure B.2-6 $PM_{2.5}$ scatter plots: (a) Nuiqsut, (b) 02185XCCP, (c) Deadhorse, and (d) Wainwright.

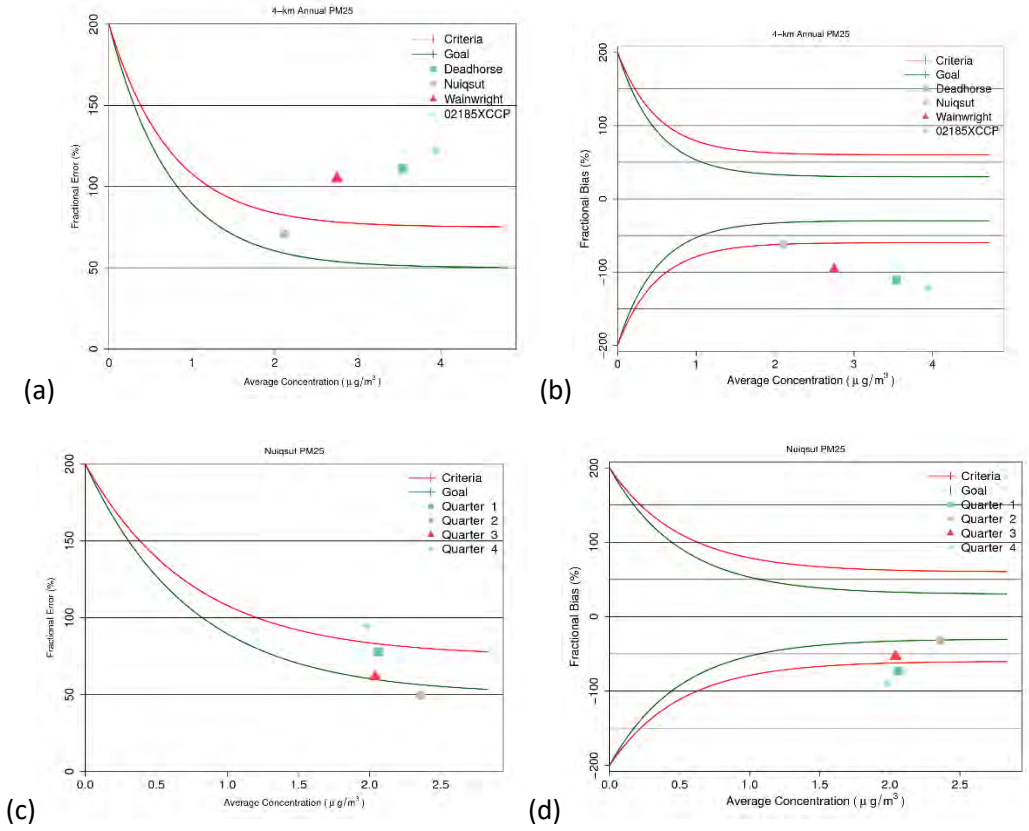


Figure B.2-7 Bugle plots for (a) annually-based fractional error and (b) annually-based fractional bias of $PM_{2.5}$ at all monitoring sites and for (c) quarterly-based fractional error and (d) quarterly-based fractional bias of $PM_{2.5}$ at Nuiqsut.

B.2.4 Speciated $PM_{2.5}$

The following seven $PM_{2.5}$ species were modeled and evaluated at the Deadhorse and Wainwright monitoring locations: sulfate (SO_4), nitrate (NO_3), ammonium (NH_4), OC, EC, sodium, and fine soil.

B.2.4.1 Sulfate

Table B.2-7 summarizes the performance metrics for sulfate. The table shows that for sulfate, NMB and NME values at both monitoring locations are outside the criteria ranges established in Emery, et al. (2017) (±30% for NMB and 50% for NME) except for Q4 NMB at Wainwright, and all NMB and NME values fall outside the 25th-75th percentile range of performances of other studies reported in Simon et al. (2012). The model generally overpredicts sulfate throughout the year, except during Q1. The worst performance occurs during Q3 when observational values of sulfate are very low. Nevertheless, at Deadhorse, all MFE values fall within or near the goal value, as shown by the bugle plots (Figure B.2-8). MFB values for Q2 and Q4 at Deadhorse are within the goal range, but Q1 and Q3 have MFB values

outside the criteria range. Similar performance for sulfate occurs at Wainwright, except Q1 MFB is inside the goal range and Q4 MFE is outside the criteria range.

Table B.2-7 Statistical metrics for sulfate at Deadhorse and Wainwright. Bolded values represent values that fall outside of criteria ranges established in Emery, et al., if available.

Sites	Statistical Measure	Annual	Q1	Q2	Q3	Q4
Deadhorse	NMB	**31.8**	**-66.8**	**37.6**	**417**	**44.0**
	NME	**103**	**66.8**	**79.8**	**417**	**92.5**
	MNB	203	-62.8	156	485	127
	MNGE	238	62.8	179	485	158
	MFB	41.7	-98.0	37.5	133	35.2
	MFE	93.5	98.0	68.6	133	79.2
	Mean Obs	0.525	1.17	0.73	0.148	0.327
	Mean Mod	0.691	0.388	1.00	0.765	0.471
Wainwright	NMB	**68.4**	**-61.0**	**73.8**	**387**	18.5
	NME	**126**	**61.7**	**117**	**387**	**59.1**
	MNB	246	-54.5	338	502	57.6
	MNGE	280	56.5	359	502	92.9
	MFB	41.4	-83.5	53.8	130	9.02
	MFE	89.8	85.4	81.9	130	57.5
	Mean Obs	0.454	0.754	0.559	0.224	0.402
	Mean Mod	0.764	0.294	0.972	1.09	0.477

[a]Quarter 1 (Q1) is averaged over January, February, and March
Quarter 2 (Q2) is averaged over April, May, and June
Quarter 3 (Q3) is averaged over July, August, and September
Quarter 4 (Q4) is averaged over October, November, and December

Table B.2-8 Statistical metrics for this study, statistical metrics reported in Simon et al. (2012), and criteria values reported in Emery et al. (2017) for sulfate. Bolded values represent values that fall outside of criteria ranges established in Emery, et al., if available.

Pollutant	Statistical Measure	Deadhorse	Wainwright	Simon et al.			Emery et al.
				25th percentile	50th percentile	75th percentile	Criteria Value
SO_4	NMB	**31.8**	**68.4**	-8.2	-1.7	10.4	±30%
	NME	**103**	**126**	22.2	26.9	41.0	50%
	MFB	41.7	41.4	-19.8	-2.5	1.0	--
	MFE	93.5	89.8	27.0	41.0	57.0	--

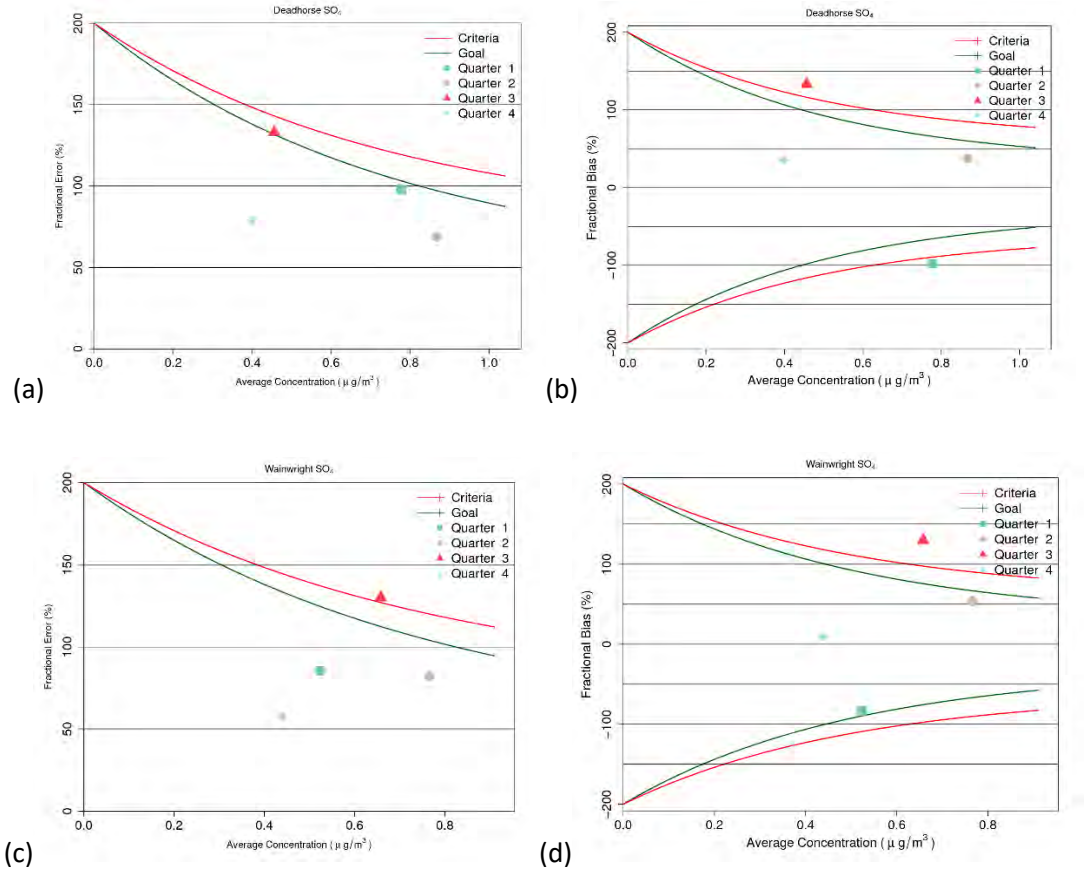


Figure B.2-8 Bugle plots for (a) fractional error and (b) fractional bias of sulfate at Deadhorse and for (c) fractional error and (d) fractional bias of sulfate at Wainwright.

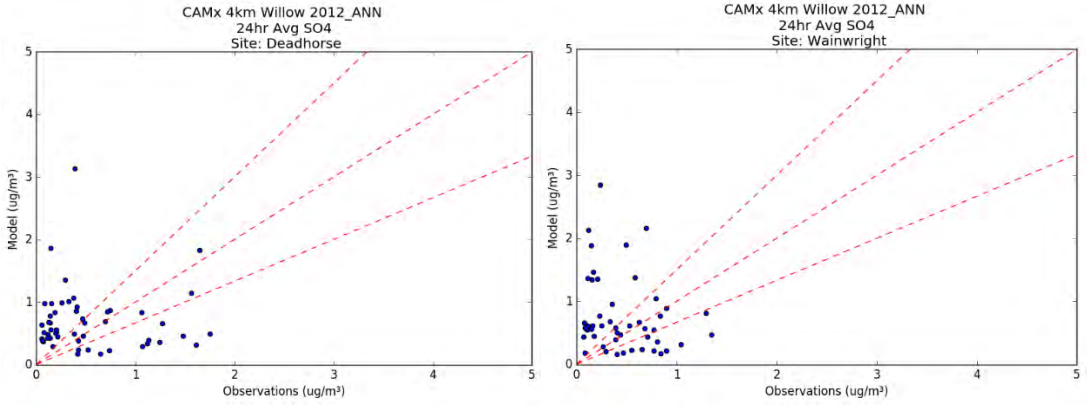


Figure B.2-9 Sulfate scatter plots: Deadhorse (left) and Wainwright (right).

B.2.4.2 Nitrate

Table B.2-9 summarizes the performance metrics for nitrate. The table shows that, in general, nitrate has better performance than sulfate with lower biases and errors during most quarters. All NMB and NME values fall within the criteria ranges established in Emery, et al. (2017) (±65% for NMB and 115% for NME) except Q3 NME and NMB at Deadhorse and Q2 NMB at Wainwright (though the Q2 NMB value is close at -67.1%), though it should be noted the criteria in Emery, et al. (2017) are stricter for sulfate than nitrate. Like sulfate, the worse performance for nitrate occurs during Q3 at Deadhorse when observational values are very low. Excluding Q3 at Deadhorse, the NMB and NME metrics at each location for each quarter are within or perform better than the 25^{th}-75^{th} percentile range reported in Simon et al. (2012). Figure B.2-10 shows that all MFB and MFE metrics fall well within the goal criteria. MFB values for Q1 and Q4 at Wainwright are near zero, suggesting the model performs well for nitrate.

Table B.2-9 Statistical metrics for nitrate at Deadhorse and Wainwright. Bolded values represent values that fall outside of criteria ranges established in Emery, et al., if available.

Sites	Statistical Measure	Annual	Q1	Q2	Q3	Q4
Deadhorse	NMB	-6.63	-35.8	-40.3	**352**	-20.4
	NME	90.1	59.4	76	**370**	74.3
	MNB	54.9	-24.3	-18.2	355	8.02
	MNGE	131	60.7	69.3	368	105
	MFB	-35.5	-50.0	-55.7	49.1	-55.0
	MFE	85.7	76.0	88.1	65.9	103
	Mean Obs	0.201	0.391	0.202	0.080	0.138
	Mean Mod	0.188	0.251	0.121	0.361	0.11
Wainwright	NMB	-27.6	15.4	**-67.1**	-38.2	-14.0
	NME	67.2	76.9	68.3	52.9	60.5
	MNB	-11.9	37.3	-57.6	-23.7	22.4
	MNGE	61.7	81.0	60.6	46.4	51.3
	MFB	-41.9	3.57	-95.4	-40.6	2.24
	MFE	74.0	62.4	98.2	59.1	53.2
	Mean Obs	0.160	0.204	0.152	0.170	0.123
	Mean Mod	0.116	0.236	0.050	0.105	0.106

[a]Quarter 1 (Q1) is averaged over January, February, and March
Quarter 2 (Q2) is averaged over April, May, and June
Quarter 3 (Q3) is averaged over July, August, and September
Quarter 4 (Q4) is averaged over October, November, and December

Table B.2-10 Statistical metrics for this study, statistical metrics reported in Simon et al. (2012), and criteria values reported in Emery et al. (2017) for nitrate. Bolded values represent values that fall outside of criteria ranges, if available (none presented in this table).

Pollutant	Statistical Measure	Deadhorse	Wainwright	Simon et al.			Emery et al.
				25th percentile	50th percentile	75th percentile	Criteria Value
NO_3	NMB	-6.63	-27.6	-49.1	-7.7	11.1	±65%
	NME	90.1	67.2	66.6	73.0	79.7	115%
	MFB	-35.5	-41.9	-136.8	-35.5	-2.5	--
	MFE	85.7	74.0	81.0	100.0	156.0	--

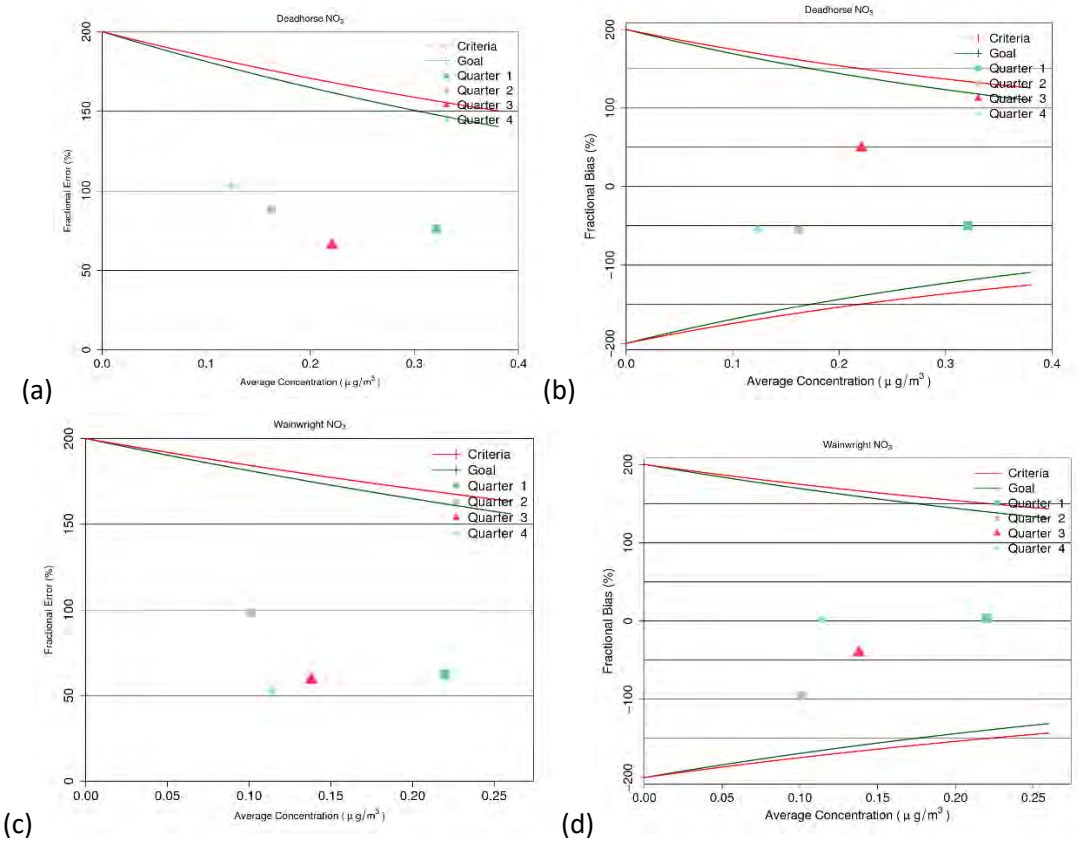


Figure B.2-10 Bugle plots for (a) fractional error and (b) fractional bias of nitrate at Deadhorse and for (c) fractional error and (d) fractional bias of nitrate at Wainwright.

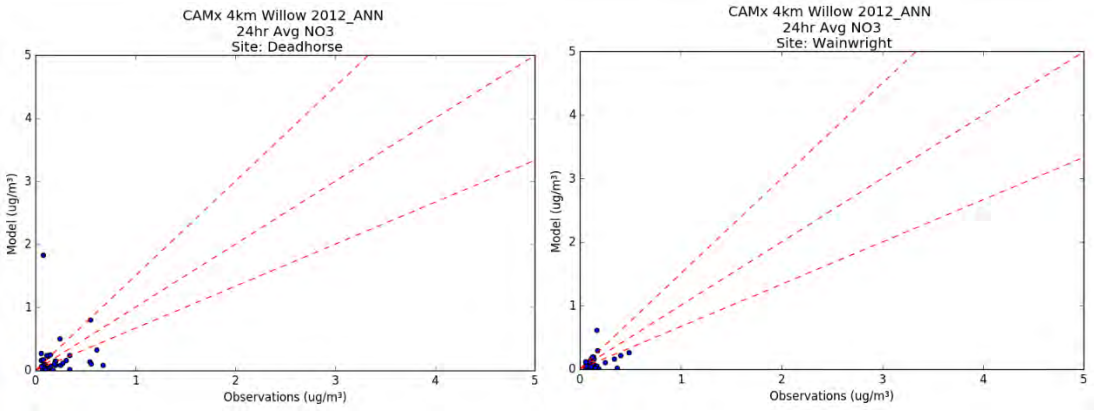


Figure B.2-11 Nitrate scatter plots: Deadhorse (left) and Wainwright (right).

B.2.4.3 Ammonium

Table B.2-11 summarizes the performance metrics for ammonium. Model results generally under-predict ammonium except during Q3. The model performs better at Wainwright than Deadhorse, with all NMB and NME values at Wainwright, except NMB for Q2, falling within the criteria ranges established in Emery, et al. (2017) (±30% for NMB and 50% for NME), but only NMB and NME values for Q4 at Deadhorse falling within that criteria range (it should be noted Q3 performance values at Deadhorse could not be calculated due to lack of measurement data). However, NME values for Q1 and Q2 at Deadhorse are close to the criteria value (57.6% and 55.7%, respectively), suggesting good model performance for ammonium throughout the year at both locations. Further, bugle plots in Figure B.2-12 show that all MFB and MFE values for ammonium fall well within goal ranges at both Deadhorse and Wainwright.

Table B.2-11 Statistical metrics for ammonium at Deadhorse and Wainwright. Bolded values represent values that fall outside of criteria ranges established in Emery, et al., if available.

Sites	Statistical Measure	Annual	Q1	Q2	Q3	Q4
Deadhorse	NMB	**-54.0**	**-57.6**	**-53.8**	NA	-23.3
	NME	**55.6**	**57.6**	**55.7**	NA	36.7
	MNB	-48.1	-59.5	-46.5	NA	-22.1
	MNGE	51.8	59.5	49.8	NA	36.9
	MFB	-71.3	-87.6	-69.9	NA	-31.4
	MFE	74.7	87.6	73.0	NA	44.8
	Mean Obs	0.264	0.328	0.262	NA	0.100
	Mean Mod	0.122	0.139	0.121	NA	0.0767
Wainwright	NMB	-27.6	-18.9	**-42.8**	19.2	-30.0
	NME	40.2	38.5	44.1	42.3	30.0
	MNB	-18.8	-11.7	-38.8	26.0	-25.0
	MNGE	37.5	38.0	40.7	44.2	25.0
	MFB	-29.4	-21.8	-52.6	17.1	-31.2
	MFE	43.4	39.8	54.5	38.2	31.2
	Mean Obs	0.151	0.174	0.181	0.0867	0.100

Sites	Statistical Measure	Annual	Q1	Q2	Q3	Q4
	Mean Mod	0.110	0.141	0.104	0.103	0.0700

[a]Quarter 1 (Q1) is averaged over January, February, and March
Quarter 2 (Q2) is averaged over April, May, and June
Quarter 3 (Q3) is averaged over July, August, and September
Quarter 4 (Q4) is averaged over October, November, and December

Table B.2-12 Statistical metrics for this study, statistical metrics reported in Simon et al. (2012), and criteria values reported in Emery et al. (2017) for ammonium. Bolded values represent values that fall outside of criteria ranges established in Emery, et al., if available.

Pollutant	Statistical Measure	Deadhorse	Wainwright	Simon et al.			Emery et al.
				25th percentile	50th percentile	75th percentile	Criteria Value
NH_4	NMB	**-54.0**	-27.6	-16.8	-2.9	6.5	±30%
	NME	**55.6**	40.2	26.8	37.4	47.3	50%
	MFB	-71.3	-29.4	-37.3	-4.5	0.0	--
	MFE	74.7	43.4	22.3	41.0	54.8	--

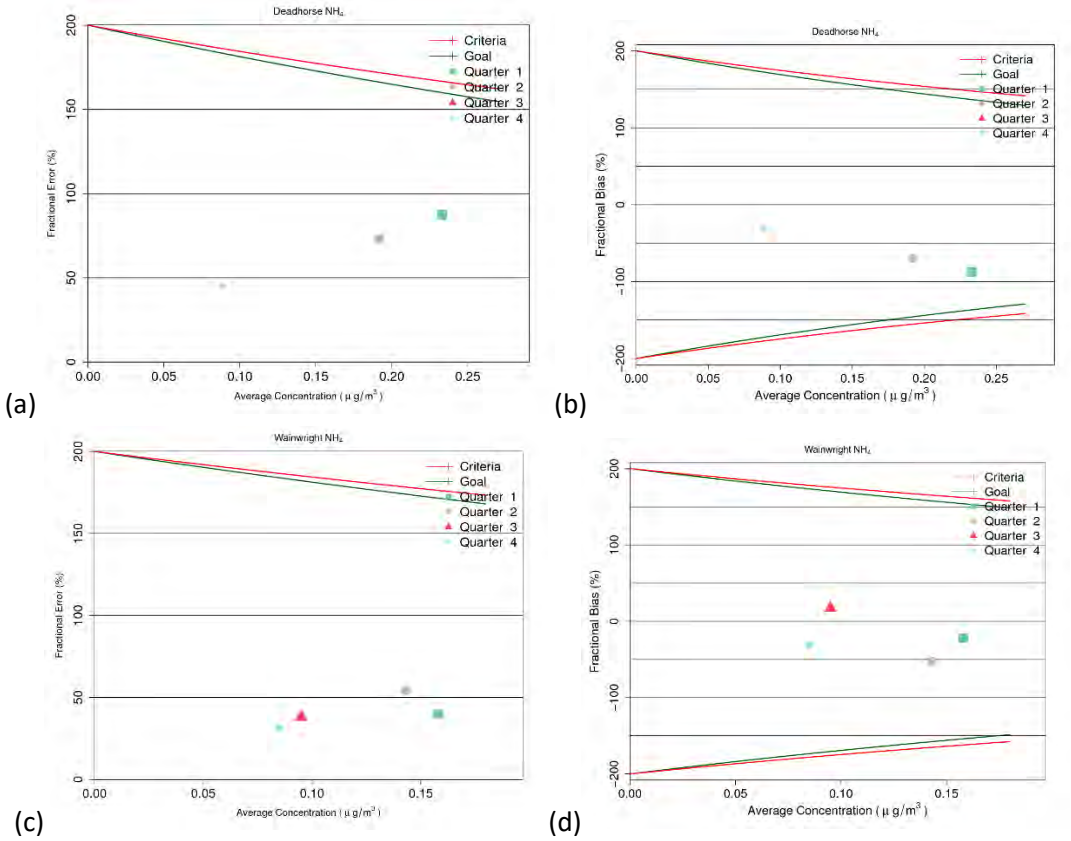


Figure B.2-12 Bugle plots for (a) fractional error and (b) fractional bias of ammonium at Deadhorse and for (c) fractional error and (d) fractional bias of ammonium at Wainwright.

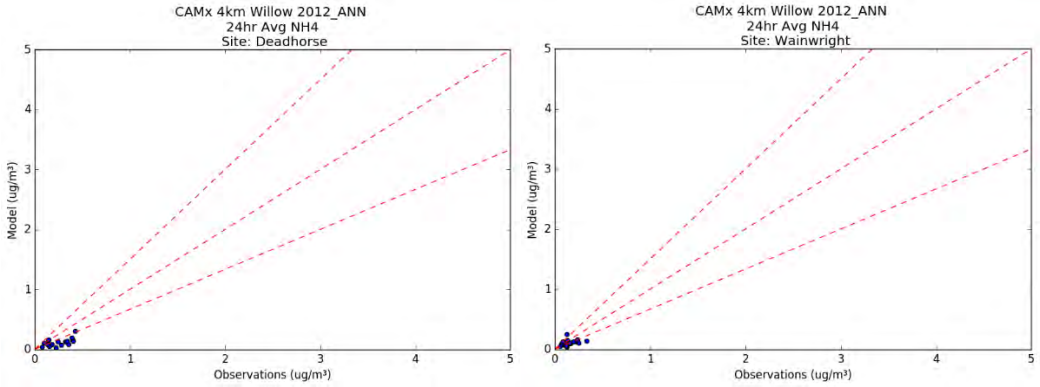


Figure B.2-13 Ammonium scatter plots: Deadhorse (left) and Wainwright (right).

B.2.4.4 Organic Carbon

Table B.2-13 summarizes the performance metrics for OC. The model systematically under-predicts OC throughout the year at both Deadhorse and Wainwright. All NMB and NME values are outside the criteria ranges established in Emery, et al. (2017) (±50% for NMB and 65% for NME) and outside the 25th-75th percentile range reported in Simon et al. (2012). Further, the bugle plots (Figure B.2-14) show that MFB and MFE are outside the criteria ranges for all quarters at both monitoring stations, with MFB being consistently negative.

Table B.2-13 Statistical metrics for OC at Deadhorse and Wainwright. Bolded values represent values that fall outside of criteria ranges established in Emery, et al., if available.

Sites	Statistical Measure	Annual	Q1	Q2	Q3	Q4
Deadhorse	NMB	**-95.6**	**-97.7**	**-95.5**	**-91.0**	**-94.8**
	NME	**95.6**	**97.7**	**95.5**	**91.0**	**94.8**
	MNB	-94.1	-97.6	-95.1	-90.7	-94.6
	MNGE	94.1	97.6	95.1	90.7	94.6
	MFB	-178	-191	-182	-167	-180
	MFE	178	191	182	167	180
	Mean Obs	2.82	7.17	2.28	1.29	2.59
	Mean Mod	0.125	0.167	0.102	0.116	0.135
Wainwright	NMB	**-98.1**	**-98.7**	**-98.4**	**-97.4**	**-96.8**
	NME	**98.1**	**98.7**	**98.4**	**97.4**	**96.8**
	MNB	-97.6	-98.0	-98.0	-97.6	-96.9
	MNGE	97.6	98.0	98.0	97.6	96.9
	MFB	-191	-192	-192	-191	-188
	MFE	191	192	192	191	188
	Mean Obs	1.58	2.61	2.01	1.31	0.716
	Mean Mod	0.0306	0.0344	0.0321	0.0336	0.0231

[a]Quarter 1 (Q1) is averaged over January, February, and March
Quarter 2 (Q2) is averaged over April, May, and June
Quarter 3 (Q3) is averaged over July, August, and September
Quarter 4 (Q4) is averaged over October, November, and December

Table B.2-14 Statistical metrics for this study, statistical metrics reported in Simon et al. (2012), and criteria values reported in Emery et al. (2017) for OC. Bolded values represent values that fall outside of criteria ranges established in Emery, et al., if available.

Pollutant	Statistical Measure	Deadhorse	Wainwright	Simon et al.			Emery et al.
				25th percentile	50th percentile	75th percentile	Criteria Value
OC	NMB	**-95.6**	**-98.1**	-30.8	5.2	19.6	±50%
	NME	**95.6**	**98.1**	47.5	52.7	67.0	65%
	MFB	-178	-191	-58.0	-37.0	-1.5	--
	MFE	178	191	43.0	49.0	64.0	--

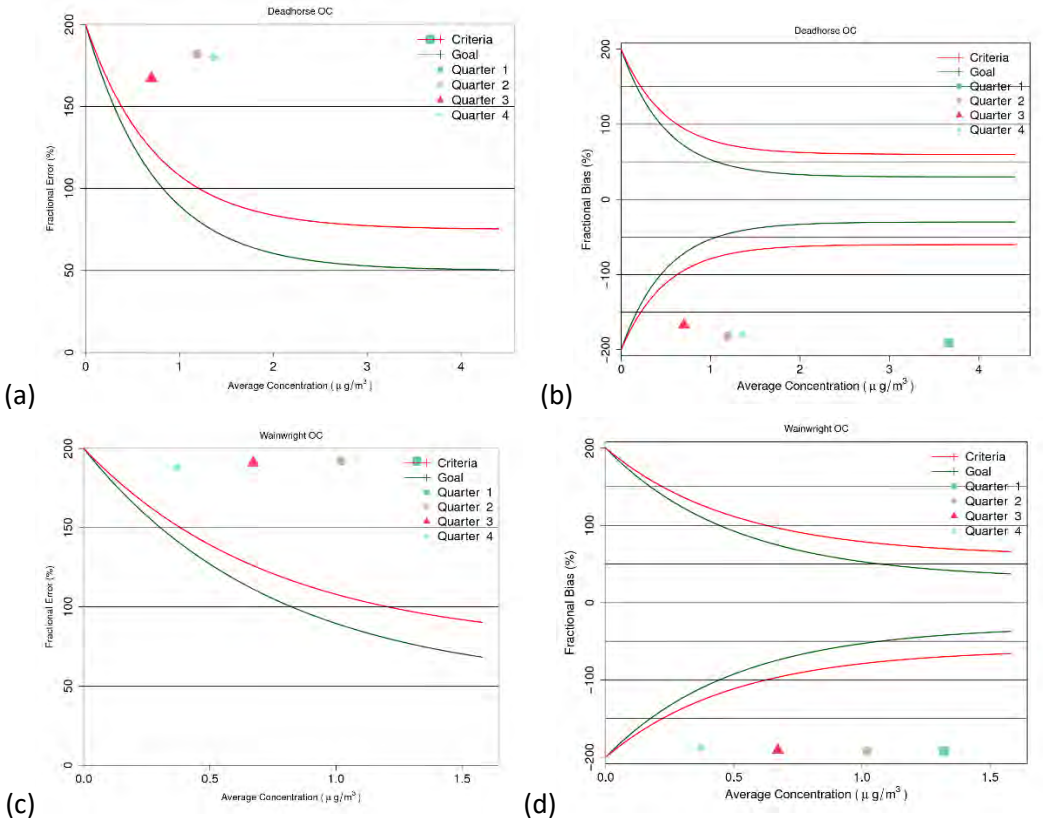


Figure B.2-14 Bugle plots for (a) fractional error and (b) fractional bias of OC at Deadhorse and for (c) fractional error and (d) fractional bias of OC at Wainwright.

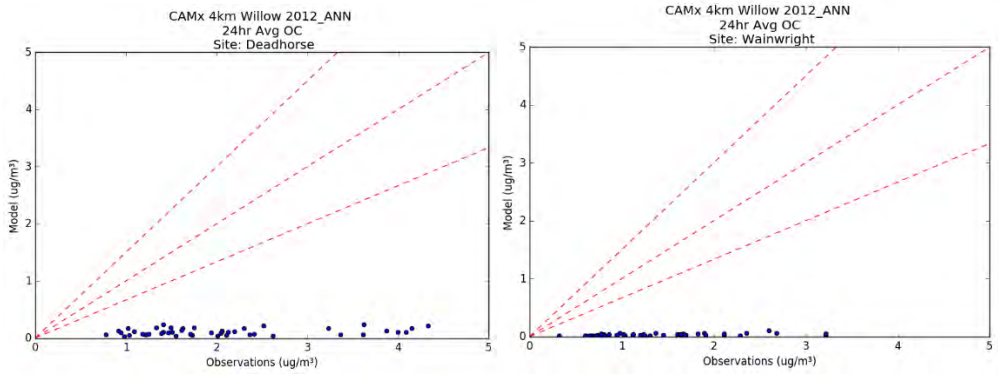


Figure B.2-15 OC scatter plots: Deadhorse (left) and Wainwright (right).

B.2.4.5 Elemental Carbon

Table B.2-15 summarizes the performance metrics for EC. The model performance for EC is similar to OC with consistently negative biases, suggesting systematic under-prediction. Similar to OC, all NMB and NME values (except Q3 and Q4 NME at Deadhorse) are outside the criteria ranges established in Emery, et al. (2017) (±40% for NMB and 75% for NME), though many NME values are close to the criteria (e.g., Q2 at Deadhorse has a NME of 80.5%). All NME and NMB values at both sites are outside the 25th-75th percentile range reported in Simon et al. (2012), though the values reported in Simon et al. (2012) show that other modeling results also consistently under-predicted EC.

Table B.2-15 Statistical metrics for EC at Deadhorse and Wainwright. Bolded values represent values that fall outside of criteria ranges established in Emery, et al., if available.

Sites	Statistical Measure	Annual	Q1	Q2	Q3	Q4
Deadhorse	NMB	**-76.2**	**-83.3**	**-78.3**	**-65.2**	**-72.7**
	NME	**77.6**	**83.3**	**80.5**	71.0	72.7
	MNB	-69.5	-83.4	-77.3	-55.8	-68.0
	MNGE	73.3	83.4	77.3	69.9	68.0
	MFB	-116	-144	-129	-94.6	-111
	MFE	119	144	129	104	111
	Mean Obs	0.537	1.10	0.469	0.313	0.507
	Mean Mod	0.128	0.183	0.102	0.109	0.139
Wainwright	NMB	**-76.8**	**-82.9**	**-49.2**	**-89.7**	**-75.4**
	NME	**86.3**	**82.9**	**96.6**	**89.7**	**81.2**
	MNB	-10.9	-71.2	107	-81.4	-28.8
	MNGE	102	71.2	159	81.4	85.9
	MFB	-76.0	-119	12.3	-144	-82.4
	MFE	114	119	93.8	144	111
	Mean Obs	0.129	0.200	0.0738	0.170	0.0986
	Mean Mod	0.030	0.0343	0.0375	0.0175	0.0243

[a]Quarter 1 (Q1) is averaged over January, February, and March
Quarter 2 (Q2) is averaged over April, May, and June
Quarter 3 (Q3) is averaged over July, August, and September
Quarter 4 (Q4) is averaged over October, November, and December

Table B.2-16 Statistical metrics for this study, statistical metrics reported in Simon et al. (2012), and criteria values reported in Emery et al. (2017) for EC. Bolded values represent values that fall outside of criteria ranges established in Emery, et al., if available.

Pollutant	Statistical Measure	Deadhorse	Wainwright	Simon et al.			Emery et al.
				25th percentile	50th percentile	75th percentile	Criteria Value
EC	NMB	**-76.2**	**-76.8**	-29.4	-21.0	-3.0	±40%
	NME	**77.6**	**86.3**	40.7	52.5	59.5	75%
	MFB	-116	-76.0	-34.0	-7.0	2.8	--
	MFE	119	114	41.5	52.0	66.3	--

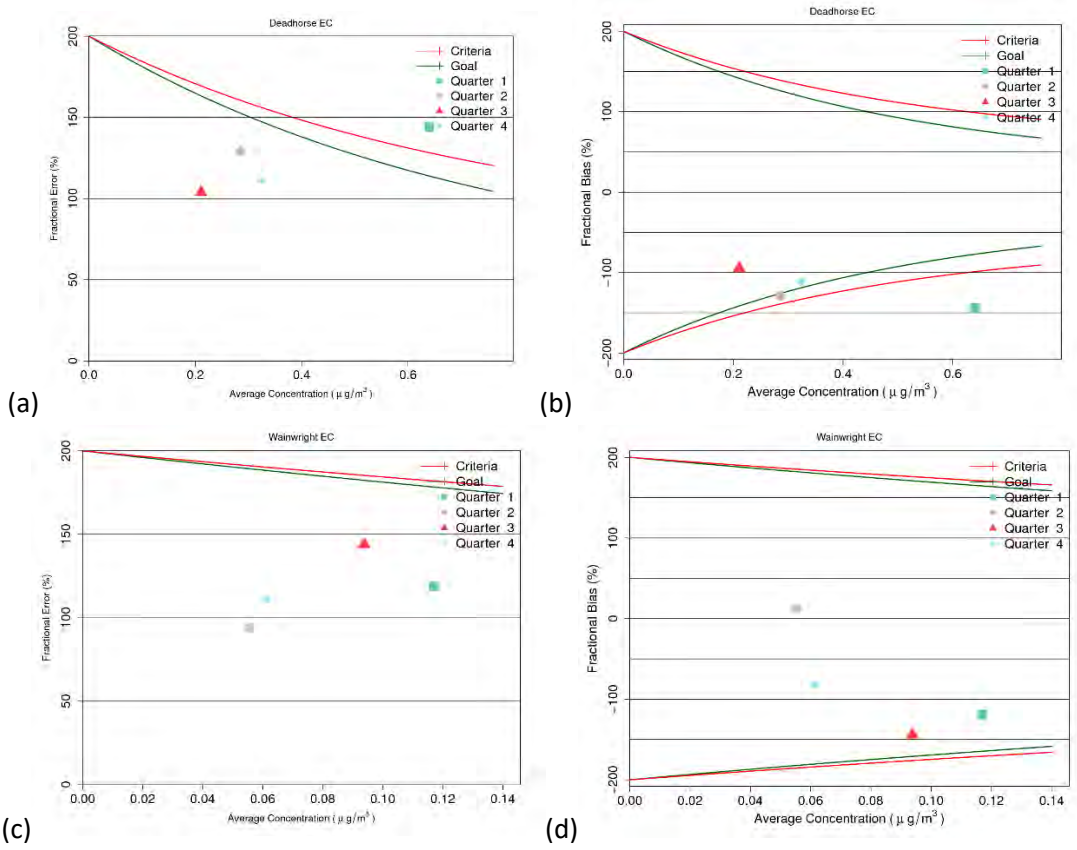


Figure B.2-16 Bugle plots for (a) fractional error and (b) fractional bias of EC at Deadhorse and for (c) fractional error and (d) fractional bias of EC at Wainwright.

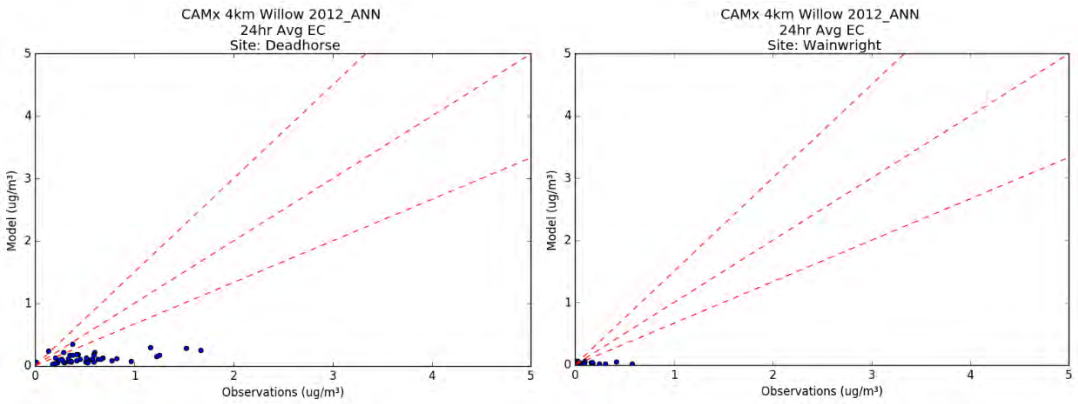


Figure B.2-17 EC scatter plots: Deadhorse (left) and Wainwright (right).

B.2.4.6 Sodium and Fine Soil

Criteria and percentiles ranges were not presented in Emery, et al. (2017) nor Simon et al. (2012) for Na nor soil, so performance evaluation of these species groups relies on the metrics, scatter plots, and bugle plots. Dust emissions adjustments resulted in significant improvement in both NME and NMB for crustal soil at both sites, as shown by comparing Table B.2-17 and Table B.2-18 (see section B.2.5 for further details). Nevertheless, the model is systematically biased high for soil at Deadhorse and biased high during Q2 and Q3 at Wainwright, but modeled soil is biased low during Q1 and Q4 at Wainwright (Table B.2-17). Sodium results show systematic positive biases at Wainwright and positive biases for Q3 and Q4 at Deadhorse, but the model is biased low for Q1 and Q2 at Deadhorse. As seen in the bugle plots for soil (Figure B.2-18) the MFE and MFB for each site for each quarter fall within the criteria ranges. For sodium (Figure B.2-20), all MFE and MFB values for both sites fall within the criteria ranges except for Q3 at Wainwright, suggesting adequate model performance for sea salt emissions.

Table B.2-17 Statistical metrics for crustal soil at Deadhorse and Wainwright

Sites	Statistical Measure	Annual	Q1	Q2	Q3	Q4
Deadhorse	NMB	166	232	296	302	19.1
	NME	225	274	312	335	117
	MNB	840	652	1340	820	536
	MNGE	859	665	1350	829	576
	MFB	88.7	112	107	112	38.4
	MFE	116	130	118	125	98.5
	Mean Obs	0.112	0.09	0.106	0.0653	0.175
	Mean Mod	0.297	0.299	0.419	0.263	0.208
Wainwright	NMB	2.04	-27.7	194	19.5	-67.4
	NME	122	104	230	122	89
	MNB	249	264	485	117	153

Sites	Statistical Measure	Annual	Q1	Q2	Q3	Q4
	MNGE	306	314	496	175	257
	MFB	14.4	26.2	92.8	10.7	-62.6
	MFE	105	102	107	96.1	114
	Mean Obs	0.187	0.157	0.106	0.169	0.314
	Mean Mod	0.19	0.113	0.311	0.201	0.102

Table B.2-18 Statistical metrics for crustal soil at Deadhorse and Wainwright using emissions pre-adjustment

Sites	Statistical Measure	Annual	Q1	Q2	Q3	Q4
Deadhorse	NMB	693	232	1010	2320	19.1
	NME	746	274	1020	2320	117
	MNB	3180	652	5350	5590	536
	MNGE	3200	665	5360	5590	576
	MFB	112	112	130	175	38.4
	MFE	136	130	140	175	98.5
	Mean Obs	0.112	0.0900	0.106	0.0653	0.175
	Mean Mod	0.885	0.299	1.17	1.58	0.208
Wainwright	NMB	339	-27.0	1010	836	-66.9
	NME	436	105	1050	850	89.0
	MNB	1180	270	2430	1700	154
	MNGE	1230	319	2450	1700	257
	MFB	57.0	27.1	127	131	-60.9
	MFE	124	103	141	135	113
	Mean Obs	0.187	0.157	0.106	0.169	0.314
	Mean Mod	0.819	0.114	1.18	1.58	0.104

[a]Quarter 1 (Q1) is averaged over January, February, and March
Quarter 2 (Q2) is averaged over April, May, and June
Quarter 3 (Q3) is averaged over July, August, and September
Quarter 4 (Q4) is averaged over October, November, and December

Table B.2-19 Statistical metrics for sodium at Deadhorse and Wainwright.

Sites	Statistical Measure	Annual	Q1	Q2	Q3	Q4
Deadhorse	NMB	-33.3	-33.1	-71.8	89.6	49.6
	NME	105	105	94.6	120	154
	MNB	93.1	-16.3	26.3	160	152
	MNGE	173	103	132	187	237
	MFB	-24.8	-81.1	-65.5	44.3	-23.1
	MFE	107	123	119	79.2	116
	Mean Obs	0.472	0.219	1.17	0.248	0.151
	Mean Mod	0.315	0.146	0.330	0.469	0.225
Wainwright	NMB	89.9	18.9	122	66.3	294
	NME	205	134	166	205	314

Sites	Statistical Measure	Annual	Q1	Q2	Q3	Q4
	MNB	585	131	109	1820	179
	MNGE	625	224	152	1840	199
	MFB	32.9	-51.8	17.1	92.6	48.9
	MFE	93.5	91.3	76.3	129	78.3
	Mean Obs	0.226	0.0964	0.0953	0.573	0.0800
	Mean Mod	0.428	0.115	0.212	0.953	0.315

[a]Quarter 1 (Q1) is averaged over January, February, and March
Quarter 2 (Q2) is averaged over April, May, and June
Quarter 3 (Q3) is averaged over July, August, and September
Quarter 4 (Q4) is averaged over October, November, and December.

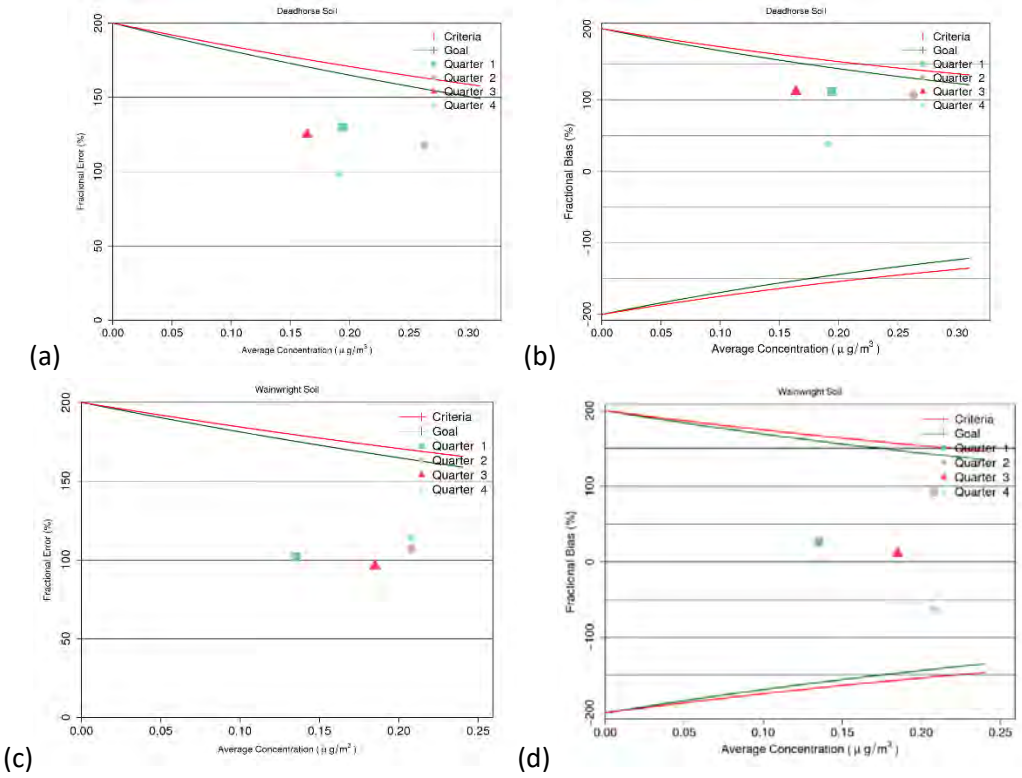


Figure B.2-18 Bugle plots for (a) fractional error and (b) fractional bias of crustal soil at Deadhorse and for (c) fractional error and (d) fractional bias of crustal soil at Wainwright.

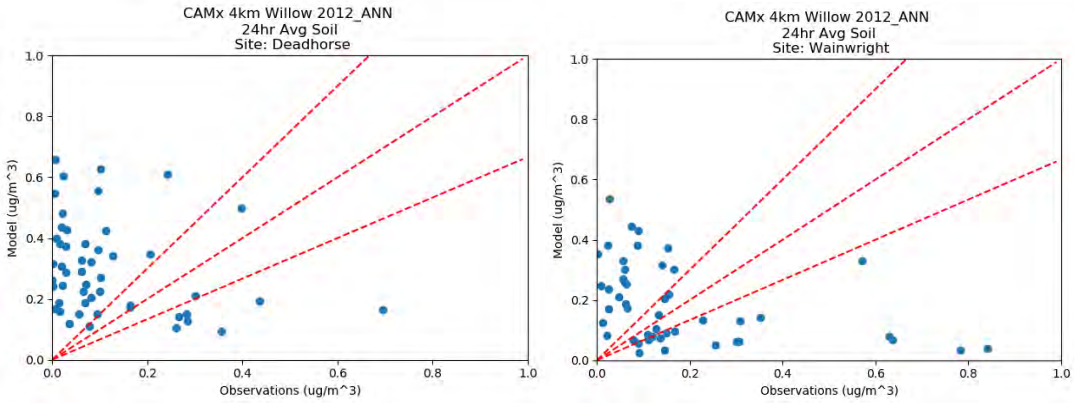


Figure B.2-19 Soil scatter plots: Deadhorse (left) and Wainwright (right).

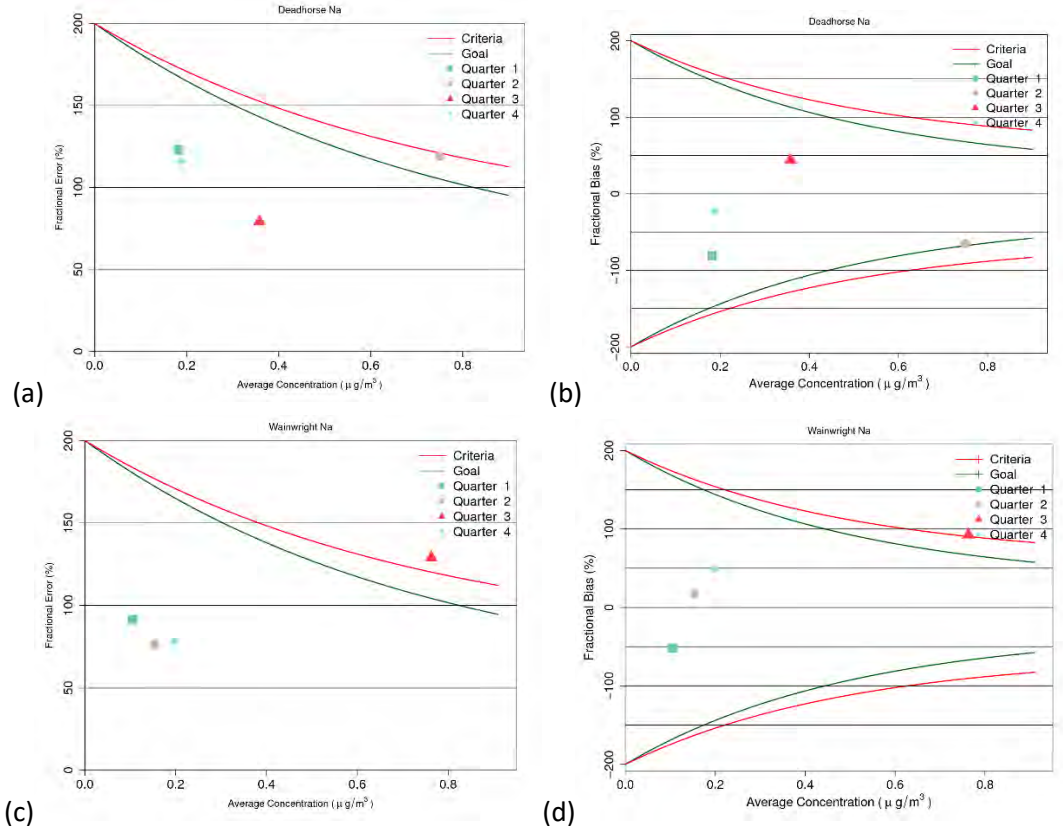


Figure B.2-20 Bugle plots for (a) fractional error and (b) fractional bias of sodium at Deadhorse and for (c) fractional error and (d) fractional bias of sodium at Wainwright.

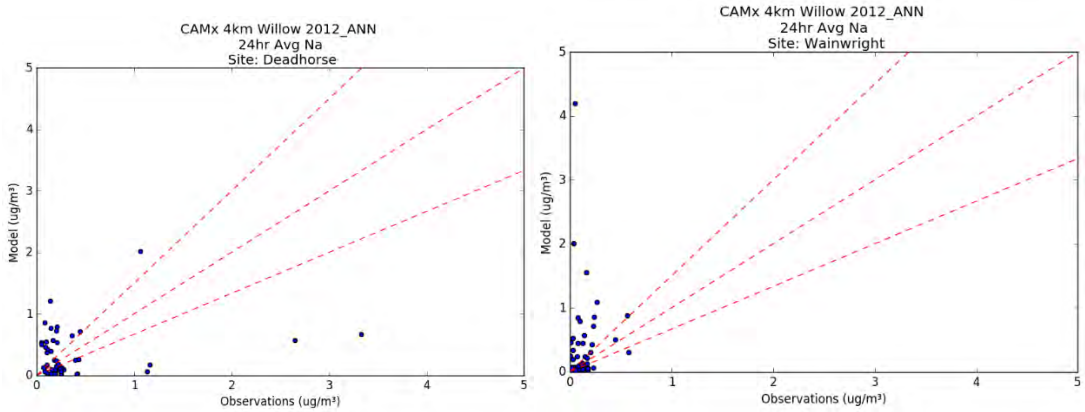


Figure B.2-21 Sodium scatter plots: Deadhorse (left) and Wainwright (right).

B.2.5 Regional Unpaved Road Dust Evaluation

This study originally relied on unpaved fugitive dust emissions from BOEM modeling platform. A comparison of the modeled fine soil concentrations with speciated monitored soil concentrations at Deadhorse and Wainwright sites showed very high modeled concentrations as discussed below. Note that monitored soil is not readily available in the observations and hence it was calculated using the IMPROVE network soil definition (i.e., SOIL = 2.20*Al + 2.49*Si + 1.63*Ca + 2.42*Fe + 1.94*Ti, reference:http://vista.cira.colostate.edu/improve/Publications/GrayLit/023_SoilEquation/Soil_Eq_Evaluation.pdf)

Three type of analyses were conducted at both monitoring sites:

1. Comparison of 24-hour concentrations
2. Evaluation of monthly normalized mean bias (NMB) and normalized median bias (NMeB)
3. Evaluation of quarterly normalized mean bias and normalized median bias

For both monitoring sites, the modeled soil concentrations were at least an order of magnitude larger than monitored values during summertime and can exceed observations by two orders of magnitude on some dates as shown in Figure B.2-22. This over-estimate is larger and more consistent at Deadhorse than at Wainwright which is due to the former's close proximity to the majority of the dust emissions.

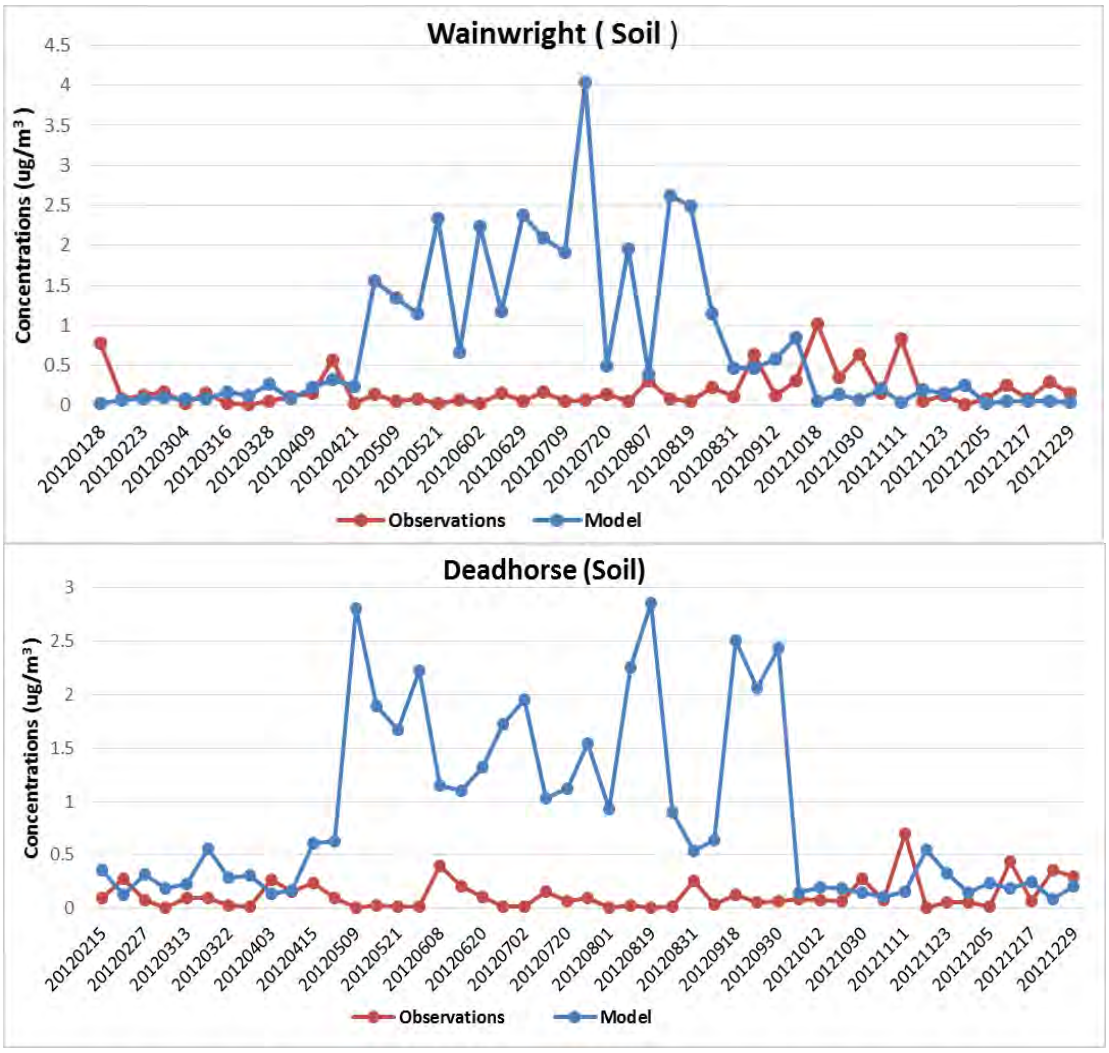


Figure B.2-22 Timeseries of 24-hour daily values from Monitoring and Modeled concentrations at Wainwright and Deadhorse.

Here are the specific finding for each of the analyses methods.

1. Daily 24-hour concentrations are a factor of 10 greater than monitored concentrations for all dates except for 4 days out of 21 at Deadhorse and 9 days out of 21 at Wainwright. It is expected that there would be dates when the dust emissions would have a smaller contribution to overall monitored soil due to variability in daily transport patterns. This is particularly true at Wainwright which is a coastal site and only has a moderate influence from anthropogenic dust sources.
2. Normalized Mean Bias (NMB) and Normalized Median Bias (NMeB) values exceed 1000%, which is equivalent to a factor of 10 difference, at Deadhorse and Wainwright for all months except June at deadhorse, and September at wainwright.

3. NMB and NMeB values exceed 1000%, which is equivalent to a factor of 10 difference, during Q2 and Q3 at deadhorse and Q2 at Wainwright. During Q3 at wainwright NMB is <1000%, but NMeB >1000% as shown in Table B.2-17.

Finally the new dust reduced modeled soil concentrations were compared with the monitoring data and it appears close to the monitoring data and able to moderately capture the temporal trend in the monitoring data as shown in Figure B.2-23. Based on this evaluation we improved the dust emissions from the BOEM platform.

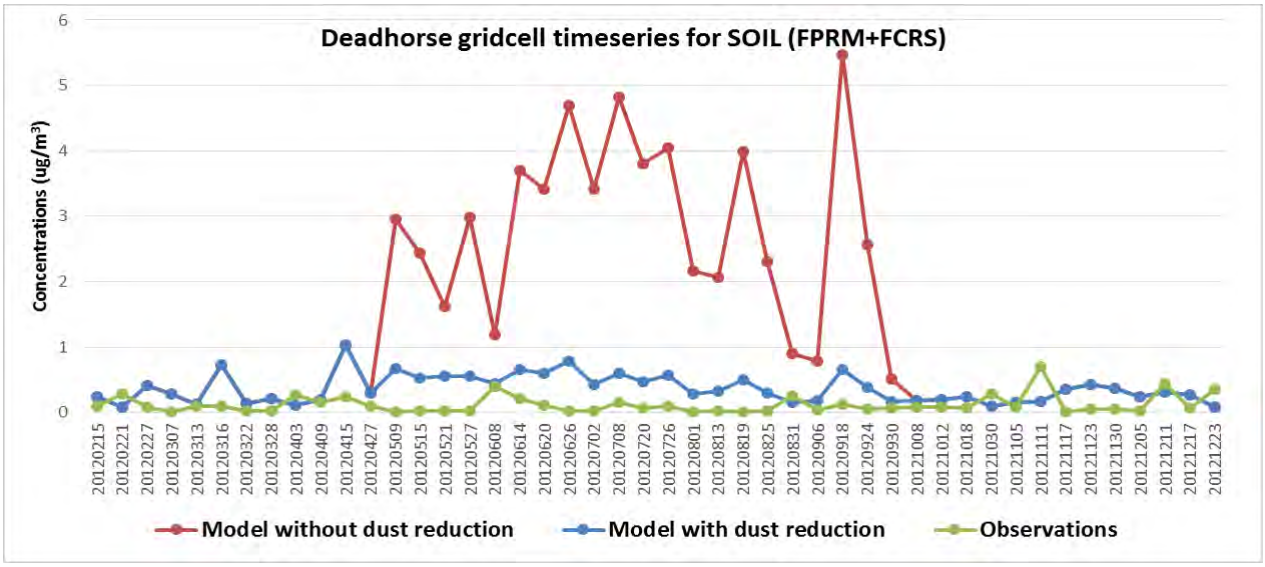


Figure B.2-23 Timeseries comparison of model scenario "with dust reduction" and "without dust reduction" with monitoring data at Deadhorse site.

B.2.6 Summary and Conclusions of MPE

A detailed model performance evaluation is presented for ozone, $PM_{2.5}$, and $PM_{2.5}$ species (sulfate, nitrate, ammonium, OC, EC, sodium, and soil) for the 4 km base-case modeling simulation. The model performance results should be interpreted with care given that contemporaneous air quality observations were very limited for this area.

The model performance generally falls within expected criteria ranges for ozone, but the model performed worse during periods of peak high and low observational data. Overall, the model is biased low for ozone during Q1 and Q4 and biased high during Q2 and Q3. $PM_{2.5}$ model results are systematically biased low at all sites during all quarters. Additionally, Annual-based $PM_{2.5}$ MFE and MFB fall within criteria ranges at Nuiqsut but not the other sites.

Sulfate, nitrate, and ammonium performed the worst in Q3 with high positive biases. For each of these species groups, the observational data tended to be low during Q3. For nitrate and ammonium, model results are under-predicted except during Q3. Sulfate is over-predicted except during Q1, and soil is over-predicted throughout the year. Nitrate, ammonium, and crustal soil perform best out of these

species groups with MFE and MFB for all quarters across both monitoring sites within criteria ranges. For sulfate, MFB and MFE results are mixed.

OC and EC are systematically under-predicted throughout the year at Wainwright and Deadhorse. EC performs better than OC, as shown by the bugle plots. None of the MFE or MFB values for OC are within the criteria ranges, but all (except Q1 at Deadhorse) MFE and MFB estimates for EC are within criteria ranges.

Even with known difficulties with modeling sea salt emissions, the model performed well for sodium. The model is biased high for sodium except during Q1 and Q2 at Deadhorse, but almost all MFB and MFE values are within criteria ranges.

Overall, the model performs well at the limited available observational sites, excluding an inability to reproduce peak high and low concentrations for ozone and systematic low biases for EC and OC. Most of the modeled species have MFB and MFE that fall well within the goal and criteria ranges. Nitrate and ammonium performed particularly well with all of the NMB and NME values falling within the goal or criteria ranges established in Emery, et al. (2017). The goals and other criteria used in the MPE are not bright-line (pass/fail) thresholds.

B.3 References

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Attachment C

Willow Development Emissions Inventory Report Alternative B and Module Delivery Option 3 (Proponent's Proposed Project)

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Willow Development Emissions Inventory Report Alternative B – Option 3

1.0 Introduction and Purpose

ConocoPhillips Alaska, Inc. (CPAI), as operator and working interest owner, proposes to develop hydrocarbon resources from federal oil and gas leases in the Northeast Planning Area of the National Petroleum Reserve-Alaska (NPR-A). The Willow Master Development Plan (MDP) addresses a series of infrastructure components that would be constructed over an approximately nine-year period for the purpose of oil and gas development in the NPR-A. The Willow MDP area (Plan Area) is located on the North Slope of Alaska, in the northeast section of the NPR-A. The majority of the proposed facilities associated with the Willow MDP are on leased federal lands, and the proposed drillsites are in the Bear Tooth Unit (BTU). See CPAI's Willow MDP Environmental Evaluation Document (EED) for additional information on the location of the proposed project.

Supporting infrastructure would be located in the Greater Mooses Tooth Unit (GMTU), on un-unitized lands within the NPR-A, on lands owned by the Kuukpik Corporation, the Alaska Native Claims Settlement Act (ANCSA) village corporation for Nuiqsut, and on lands owned and managed by the State of Alaska. A proposed road corridor providing access to the Plan Area would tie into the access road in the GMTU to the east. Proposed pipelines would tie into existing pipeline infrastructure at a tie-in pad near Colville Delta 4 North (CD4N), the Alpine Central Facility (ACF), and the Kuparuk River Unit Central Processing Facility 2 (CPF2). Proposed pipelines cross lands owned by Kuukpik Corporation and the State of Alaska. Large modules are proposed to be transported via sealift barge to Oliktok Dock (Option 3), via gravel road to Drill Site (DS2P), and via heavy-haul ice road west across the Colville River to the Willow access road just west of the Greater Mooses Tooth 2 Drill Site (GMT2). A gravel site is proposed on federally managed lands within the GMTU and in un-unitized lands. None of the proposed Willow facilities would be located on Native allotments or private land, except that the pipelines would use existing pipeline corridors, some of which are on private land.

CPAI's purpose for the Willow Development is the economic production and transportation to market of oil and gas resources from the BTU, while protecting important surface resources and ensuring safe operations. The Willow Development would produce multiphase product (oil, gas, and water) that would be carried by pipeline to new processing facilities at the Willow Central Processing Facility (WCF). Sales-quality crude oil produced at the WCF would be transported to a tie-in pad near CD4N at Alpine, where it would tie into the existing Alpine Sales Oil Pipeline. From the tie-in point, it would be transported to the Kuparuk Pipeline and to the Trans-Alaska Pipeline System (TAPS) for shipment to market (see CPAI's Willow MDP EED for a depiction of the proposed pipeline system).

2.0 Proposed Project Description

CPAI's proposed project would provide the shortest road access from GMTU to the proposed Willow facilities. It includes five drillsite locations necessary to economically develop Plan Area oil resources, a WCF, a Willow Operations Center (WOC) containing project support facilities, and an airstrip with an apron. Access to the Plan Area from GMTU and to proposed drillsites from the WCF and the WOC would be via gravel roads and would include seven bridge crossings. Access to the Plan Area would also be

provided by air using fixed wing aircraft and helicopters and a Plan Area airstrip near the WOC, and, during construction, by ice road. The proposed project includes module delivery via sealift barge to the existing Oliktok Dock and staged mobilization of modules to the Plan Area by existing gravel roads and ice roads.

The proposed project includes infield pipelines to transport produced fluids from drillsites to the WCF and an oil export pipeline, the Willow Pipeline, to transport sales-quality crude oil from the WCF to a tie-in point with the Alpine Pipeline near CD4N. Other support pipelines include a seawater pipeline, diesel pipeline, and freshwater pipeline. Gravel valve pads would be constructed at pipeline crossing locations over Judy Creek and Fish Creek. All pipelines would be parallel to proposed or existing gravel roads.

The proposed project also includes development of a new gravel mine in the Tiŋmiaqsiuġvik Area to support project construction and a constructed freshwater reservoir (CFWR) for a reliable freshwater source within the Plan Area. An overview and graphical depiction of the proposed project including road routing, pad locations, gravel mine site, reservoir, and dock location is provided in the Willow MDP EED.

2.1 Construction

CPAI proposes to construct the Willow Development on a nine-year construction schedule beginning in late 2020 and completing in 2029. This nine-year period will include construction of five drillsites, the WCF, WOC, airstrip, gravel access roads, pipelines, communications facilities, living quarters, and other infrastructure to support long-term operations. CPAI will also construct and operate temporary facilities including a gravel mine, seasonal ice roads, single-season and multi-season ice pads, and temporary camp facilities for worker housing to support construction activities, as well as making infrastructure improvements at Oliktok Dock, staging areas, and roads for module delivery and transport.

2.1.1 Gravel Sourcing

A total of approximately 5.0 million cubic yards of material will be required for the Willow Development, including improvements to Oliktok Dock, to fill approximately 453 surface acres. CPAI plans to source most of this gravel from two mine sites with a maximum final mine pit disturbance area of approximately 150 acres in the Tiŋmiaqsiuġvik Area over six winter construction seasons. Gravel for infrastructure improvements at Oliktok Dock, staging areas, and roads for module transport would be sourced from an existing gravel source in Kuparuk. Blasting is required to loosen material from the gravel source, and heavy equipment is required to remove the material. After blasting, these materials will be removed in multiple lifts. The mine site excavation would take place in three separate removal activities: (1) removal of organic materials; (2) removal of inorganic overburden; and (3) removal of suitable gravel material in approximately 20-foot lifts. Initial lifts will be for the removal of overburden, which will be stockpiled adjacent to the pit on a seasonal ice pad. Subsequent lifts will supply the gravel for the project. In addition to blasting, gravel sourcing would be conducted with a variety of diesel-fired nonroad equipment, such as crushers, dozers, drills, excavators, light plants, loaders, air compressors, trimmers, water pumps, and welders, as well as mobile support equipment. When gravel extraction is complete, the site will be rehabilitated, and stockpiled overburden will be backfilled to contour the mined pit into a natural habitat.

2.1.2 Ice Road and Ice Pad Construction

Ice roads would be used primarily during construction to support gravel infrastructure and pipeline construction, for lake access, and to access the selected gravel source(s). Single-season and multi-season ice pads would be used to house construction camps, stage construction equipment or materials, and support other construction activities. Ice road construction is dependent upon ground temperature and precipitation (i.e., sufficient snow for pre-packing of routes) and typically begins in November or December. The annual ice road season for the Willow Development is expected to be 90 days long, from the end of January through the end of April each year.

Ice roads and pads are constructed by smoothing or compacting the snow surface and/or placing water or ice on the ground surface. Then, water trucks apply water over the route or location until the ice pad or road surface is built up to the desired thickness. Ice roads are marked with stakes to facilitate driving and assist with snow removal. Ice roads and pads are maintained throughout the ice road season by monitoring for litter, contamination, and degradation and cleaning or repairing, as necessary. All stakes and contamination are cleared when the ice road or pad is closed for the season. Multi-season ice pads are constructed similarly to single-season ice pads, with compacted snow over a base layer of ice, except they also include a vapor barrier and foam insulation to prevent melting. Ice road and ice pad construction is conducted with a variety of diesel-fired nonroad equipment, such as graders, loaders, pumpers, snowblowers, light plants, and trimmers, as well as on-road mobile support equipment.

2.1.3 Gravel Road and Pad Construction and Facilities Installation

After gravel extraction, gravel is transported from the mine or storage location via off-road belly dump B70 haul trucks and placed during winter construction seasons. Other diesel-fired nonroad equipment, including graders and compactors, are used to place the gravel during the winter, but also to work the gravel to melt remaining frozen materials and compact the gravel and create road and pad surfaces during the summer season following gravel placement.

2.1.4 Bridge and Culvert Construction

CPAI proposes to construct multiple bridges to allow for road access throughout the Willow Development. Multi-span bridges are constructed on steel pile pier groups, made up of sets of four pilings positioned approximately 40 to 70 feet apart. Shorter crossings will be traversed by single-span bridges or culvert batteries. All span-style bridges include sheet pile abutments for erosion protection at each end of the bridge. Estimated bridge crossings range from 40 to 420 feet in length. Bridges would be constructed during winter from ice roads and pads. Bridge construction is conducted with a variety of diesel-fired nonroad equipment, including cranes, loaders, drills, small generators, hammers, compressors, light plants, manlifts, and small heaters, as well as mobile on-road support equipment.

2.1.5 Pipelines and Supporting Infrastructure Construction

CPAI plans to construct infield pipelines within the Willow Development and import/export pipelines connecting the Willow Development to the Colville River and Kuparuk River Units. Most of the pipeline would be constructed aboveground and supported on common horizontal support members (HSMs) that would be supported by vertical support members (VSMs) placed approximately 55 feet apart across open tundra to protect permafrost. VSMs are constructed by embedding a vertical steel pipe piling in holes drilled in the permafrost and adding a sand/water slurry surrounding the pipe pile to freeze it in place. VSMs would have a typical diameter of 12 to 24 inches and total disturbance footprint diameter of 18 to 32 inches for each pipe pile. Seasonal ice roads would be constructed to access right-of-ways for the construction of VSMs, pipelines, and other infrastructure suspended on VSMs, including fiber optic cables and power cables.

At Fish Creek and Judy Creek bridge crossings, pipelines would be constructed on structural steel supports attached to the bridge girders, below the bridge deck. Gravel valve pads would also be constructed on each side of the Fish Creek and Judy Creek bridge crossings to isolate produced fluids pipelines and minimize potential spill impacts. At smaller streams, pipelines would be installed approximately perpendicular to the channel, with VSMs on each side of the crossing to avoid VSM placement in streams to the extent practicable.

VSMs are constructed using primarily nonroad engines and equipment, including drills, trenchers, loaders, and cranes, as well as on-road mobile support equipment. Similarly, pipelines, powerlines, and fiber optic cables are suspended from VSMs using a variety of diesel-fired nonroad equipment, such as

compressors, derrick and telescoping cranes, side boom cranes, small generators, light plants, loaders, manlifts, drills, and small heaters, as well as on-road mobile support equipment.

All pipelines crossing the Colville River would be installed by boring beneath the river using horizontal directional drilling (HDD). The HDD process would involve drilling a borehole under the river that is large enough to accommodate the pipeline casing. This operation is supported by diesel-fired nonroad equipment, including generators, air compressors, winches, cranes, and small heaters and boilers. Throughout the process of drilling and enlarging the hole, a slurry made of naturally occurring nontoxic materials (typically bentonite clay and water) would be circulated through the drilling tools to lubricate the drill bit, remove drill cuttings, and hold the hole open. Pipelines and casing sections would be staged and welded together to form segments long enough to span the entire crossing (the pull string) on the exit side of the HDD crossing. Once the borehole is ready, the completed casing and pipelines are pulled back through the drilled hole using nonroad equipment. The Willow HDD would be completed during the winter construction season using adjacent ice pads to stage equipment and materials. Two new gravel pads would be constructed adjacent to the existing Alpine Pipeline HDD where the pipelines transition from above ground to below ground on either side of the river.

2.1.6 Infrastructure for Module Transport (Module Delivery Option 3: Ocean Point Crossing) and Bulk Materials Transport

The modules comprising the processing facilities at the WCF and drillsites would be delivered to the North Slope by sealift using low-draft barges towed by tugs during two open water seasons (ice-free periods) in 2024 and 2026. Bulk materials and smaller modules that can be transported on the Alpine Resupply Ice Road would also be delivered by sealift barge. Sealift barges would make deliveries during four open-water seasons during the summers of 2022 through 2024 and 2026.

Barge offloading is proposed at the existing Oliktok Dock. Sealift modules and bulk materials would be stored at an existing 12-acre pad located approximately two miles south of Oliktok Dock until winter and then transported to the Plan Area. Smaller modules and bulk materials would be transported to the Plan Area via existing gravel roads and the annual Alpine Resupply Ice Road. The larger WCF and drillsite modules would be transported to the Plan area via Self-Propelled Modular Transporters (SPMTs) along existing gravel roads to Kuparuk DS2P. The modules would then travel on a heavy-haul ice road to GMT2, crossing the Colville River via grounded ice in the area of Ocean Point. From GMT2 to the WCF, the modules would be transported on the Willow access gravel road.

To facilitate module and bulk materials transport with sealift barges to Oliktok Dock, several infrastructure improvements must be made. CPAI would raise the existing dock surface approximately 6 feet by adding structural components and a gravel ramp to accommodate the 25-foot-high side-shell sealift barges expected to be used for the proposed project. These improvements are all within the existing footprint of the dock area.

To facilitate transport of the larger WCF and drillsite modules during the winters of 2025 and 2027, a camp would be staged on a 15-acre ice pad near the DS2P access road. For transport of the larger modules, improvements to the existing staging area gravel pad near Oliktok Dock and gravel roads would also be made. These construction activities would be completed with the same types of diesel-fired nonroad and on-road mobile equipment described supporting other gravel and facilities construction throughout the Willow Development. See the Willow MDP EED for additional detail on Option 3: Ocean Point Crossing.

2.1.7 Construction Camp Facilities

CPAI would utilize various camps to house workers throughout the nine-year construction period. CPAI would utilize existing camps, including the Kuukpik Pad Camp, Alpine Operations Camp, Sharkstooth

Camp and Kuukpik Hotel near Nuiqsut, as well as temporary camps near and on the WOC and the near Kuparuk DS2P, and a permanent Willow Camp to be constructed at the WOC. Temporary camps to support drilling would be located at each of the drillsites or the WOC. Temporary construction camps near the WOC in 2021 would be powered by diesel-fired generators. The temporary construction camp on the WOC would be electrically powered by a multi-purpose power plant located at the WOC. That power plant would utilize liquid-fired turbines for power generation. The Willow Camp would be permanently switched over to electricity generated by the WCF once the facility comes online.

2.1.8 Constructed Freshwater Reservoir

CPAI proposes creation of a CFWR to ensure a reliable source of fresh water for the project while minimizing the need for water withdrawals from Willow-area lakes. It would consist of an 800-foot-long by 700-foot-wide by 50-foot-deep pit with 6:1 side slopes. An approximately 1,325-foot-long, 6- to 10-foot-deep connection would link the CFWR to Lake M0015 to support initial flooding and to facilitate annual recharge. The CFWR would be bordered by a 7-foot-high permanent berm. Equipment required to construct the CFWR would include the same types of equipment needed for gravel sourcing described in Section 2.1.1 to excavate the material and equipment for other gravel work described in Section 2.1.3 to finish surfacing the reservoir and building the berm.

2.2 Drilling

CPAI proposes to construct 251 wells throughout the Willow Development at five drillsites. Wells will be approximately evenly split between production and injection wells. Multiphase (oil, gas, and water) fluids will be gathered from production wells and sent for processing at the WCF. Injection wells will be used to inject gas, produced water, seawater, and miscible-injectant (MI) back into the producing formation to maintain formation pressure and as part of enhanced oil recovery. CPAI estimates that it will take approximately 15 to 30 days to drill each well and expects to begin pre-drilling in 2024 at the BT1 Drillsite. Pre-drilling activities would allow the WCF to be commissioned immediately following WCF construction by timing completion of a sufficient number of wells to provide the minimum fluid rates to commission the pipelines and facility. Pre-drilling eliminates a 1- to 2-year delay between construction and production of first oil. Assuming the use of two drill rigs continuously operating throughout the development, drilling would be complete by 2029.

Drilling is conducted with a drill rig containing electrically powered drill rig draw-works, top-drive, and pumps with heat supplied by diesel-fired air heaters and boilers. The drilling operation will be supported by small portable diesel-fired nonroad equipment, mobile equipment, and temporary storage tanks at the drillsites. The approximate 3.5-megawatt (MW) single drill rig electrical demand (approximately 7 MW for 2 drill rigs) can be satisfied by diesel-fired reciprocating engine-powered generators, certified USEPA Tier 4f, that travel with the drill rig or highline power generated at the WCF. CPAI plans to predominantly conduct their drilling operations on highline supplied electrical power throughout the life of project whenever possible. However, highline power may not be available for a period of time during construction before permanent power infrastructure is commissioned. Therefore, CPAI expects there to be a short period of time when power for the drill rigs is supplied by diesel-fired reciprocating engines only until highline electrical power is available. After that, diesel-fired engines that travel with the drill rig will be used as back-up if highline power is temporarily unavailable. All other portable support equipment will typically be powered by diesel fuel.

After a well is drilled, it is completed. To complete a production well, it sometimes is first hydraulically fractured, then it undergoes a well cleanout process known as a flowback. During the flowback, fluids and solids present in the well bore as part of the drilling and completion process are allowed to flow from the well until the fluids produced from the well are no longer contaminated with excessive solids or drilling fluids. Liquids and solids produced during the flowback are placed in portable tanks for disposal and gas is captured, flared, or vented depending on infrastructure availability. Immediately following the

construction of each drillsite, CPAI anticipates that there will be a period of time before permanent infrastructure is in place to handle gas from flowbacks. If the infrastructure is not in place, CPAI will route any gas from flowbacks to a portable flare located at the drillsite. Once permanent facilities are available (pipelines and WCF), gas from flowbacks will be routed to the WCF and processed. CPAI conservatively assumes that all production and injection wells could be hydraulically fractured as part of the completion process. This would equate to hydraulically fracturing all 251 wells throughout the development.

Hydraulic fracturing in the Willow Development would be hydraulic fracturing of conventional resources which is intended to counter formation damage and stimulate and maximize recovery of resources. This is a very different purpose than hydraulic fracturing unconventional shale formations. Hydraulic fracturing of a well at Willow will be conducted in stages and to various depths by pumping proppant, made of water, sand, and chemical additives, at high pressure into a well drilled to create small length fractures in the formation in the immediate vicinity of the wellbore.

Hydraulic fracturing is expected to be conducted using 5 to 10 pumps powered by electric motors or engines (nonroad engines), certified USEPA Tier 4f for generator sets. When powered by engines the engines will run at high loads for short periods of time and idling or operating at low loads the remainder of the process. Similar to drilling, CPAI plans to predominantly conduct their hydraulic fracturing operations on highline supplied electrical power throughout the life of project whenever possible; however, there may be a short period of time during construction when the hydraulic fracturing unit operates on diesel only until highline electrical power is available. A typical frac operation for the Willow Development is expected to take approximately 6 days per well. These operations may also be supported by small nonroad engines and/or portable heaters, as necessary.

2.3 Operations

2.3.1 Willow Central Facility

The WCF would primarily consist of facilities necessary to generate power for the Willow Development, dehydrate and compress gas for fuel and reinjection, pump and inject seawater and produced water to the subsurface as part of pressure maintenance/water flood for secondary recovery, and separate and process production fluids and deliver sales-quality crude oil. Fluid separation and processing occurs through pressure drops, gravity separation, and heating followed by distillation and includes the production of sales-quality crude, produced water, and MI for enhanced oil recovery. Produced natural gas would be (1) used to fuel plant and facility equipment, (2) reinjected into a producing formation to maintain reservoir pressure and increase recovery, and/or (3) used for gas lift. Under plant startups, shutdowns, and upset conditions, natural gas may be flared. A simplified process flow diagram for major systems is presented in **Appendix A**.

WCF power generation and processing equipment would include:

- Turbine-driven power generators with waste heat recovery;
- Turbine-driven compressors with waste heat recovery;
- Gas strippers;
- Gas treatment facilities;
- Heat exchangers;
- Separators;
- Stabilizer unit;
- A flare system;

- Heaters;
- Oil vessels;
- Pumps;
- Pigging facilities;
- Metering facilities;
- Diesel fuel supply storage tank(s) and an associated fueling station;
- A tank farm, which could include methanol, sales oil or off-spec crude, crude flowback fluids, scale inhibitor, emulsion breaker, corrosion inhibitor, and minor volumes of other chemicals as required for operations;
- Warm storage facilities for equipment; and
- Portable heaters, light plants, and boilers, including the potential for a snowmelter.

At various times throughout the Willow Development's producing lifetime, temporary modules, maintenance buildings, pipelines, and other structures may be used at the WCF to address short-term needs. See the Willow MDP EED for the proposed WCF layout.

Refer to the "INPUTS" tabs in the "Willow_AltB_EI-Non-Construction-WCF+WOC+Airstrip.xlsx" spreadsheet referenced in **Appendix C** for sizing and major equipment assumptions for fuel burning equipment.

2.3.2 Willow Drillsites

Each drillsite has been sized and designed to accommodate all drilling and operations facilities, wellhead shelters, drill rig movement, drilling material storage, and well work equipment. Each drillsite could accommodate 40 to 70 wells at a 20-foot wellhead spacing. Additional typical drillsite facilities include:

- Fuel gas dehydration equipment, consisting of an electric heater and a knock-out pot;
- Pig launchers/receivers;
- Chemical injection facilities (including tanks within module, containment, and exterior tank fill connection);
- Production heater and associated equipment;
- Production operations storage tanks containing methanol, scale inhibitor, emulsion breaker, and/or corrosion inhibitor;
- Temporary tanks to support drilling and well work operations;
- Transformer platforms (oil-insulated);
- Pipe racks and/or manifold piping/valves;
- Portable heaters, light plants, and boilers including the potential for a snowmelter; and
- Back-up power generation.

All equipment described above, with the exception of the production heater and back-up power generation, is electrically powered, with power supplied from the WCF via cable run along the pipeline corridor. The production heater is powered by fuel gas, and its purpose is to heat the multiphase production fluids (oil, water, and gas) prior to shipment to the WCF for processing. Any back-up power generation installed at the drillsites would be diesel-fired reciprocating engine-powered generators, expected to meet USEPA Tier 4i emissions standards for non-generator sets or better.

Wells would be grouped into two general categories: producers and injectors. The production wells would generate the field's multiphase production while the injector wells would be used to inject water (i.e., treated seawater and/or produced water that has been processed at the WCF) and/or gas into the producing formation(s) to maintain reservoir pressure. See the Willow MDP EED for a typical drillsite layout.

Refer to the "INPUTS" tabs in the "Willow_AltB_EI-Construction-BT[X].xlsx" spreadsheet referenced in **Appendix C** for fuel burning equipment assumptions for the Willow drillsites.

2.3.3 Willow Operations Center

The base of operations for the Willow Development would be at the WOC. The WOC would be near to but separated from the WCF. The WOC location would minimize risk to personnel by placing permanently occupied buildings away from potential blast hazards associated with the WCF. The WOC would also be adjacent to the airstrip. See the Willow MDP EED for a typical layout of these facilities.

The WOC would contain accommodation and utility buildings and maintenance and storage facilities to support operations. These include:

- Permanent Willow Operations Camp facilities including living quarters, offices, meeting rooms, dining facilities, central control building, medical clinic, and wellness and camp maintenance facilities;
- Wastewater and water treatment plants, lab, and chemical storage;
- Water tanks;
- Class I underground injection control disposal well(s) (Class I disposal well[s]);
- Emergency Response Center, including spill response shop, fire department, and ambulance bay;
- Hazardous waste accumulation and storage;
- Fleet maintenance shop;
- Fabrication and weld shop;
- Warehouse;
- Storage tents;
- Drilling shop and mud plant;
- Small remote incinerator;
- Helipad, helicopter storage tent, and jet fuel tank and pump house;
- Staging areas;
- Craft maintenance shops and tool room to provide equipment repair, fabrication, and maintenance support;
- Tanks for diesel and drilling and cuttings storage;
- Portable heaters, light plants, and boilers including the potential for a snowmelter; and
- Turbine-driven and reciprocating engine-driven power generation.

Under normal operations, all equipment and facilities described above will be electrically powered, except for the power generation, portable equipment, and incinerator. Any back-up power generation installed at the WOC would be diesel-fired reciprocating engine-powered generators, expected to meet USEPA Tier

4i standards for non-generator sets or better. In addition to permanent surface structures, temporary surface structures such as camps, offices, shops, envirovacs, connexes, fuel and chemical storage areas, and warehouses may be used at the WOC to support projects.

Information regarding fuel burning equipment associated with Willow infrastructure can be found in "INPUTS" tabs in the "Willow_AltB_EI-Non-Construction-WCF+WOC+Airstrip.xlsx" spreadsheet referenced in **Appendix C**.

2.3.4 Willow Pipelines

The Willow Development would include infield lines and import/export lines. Infield lines carry a variety of products, including produced fluids, produced water, seawater, MI, and gas, between the WCF and each drillsite (including GMT2).

Import/export pipelines include the Willow sales-oil pipeline, a seawater pipeline, and a diesel pipeline. The Willow sales-oil pipeline would carry sales-quality crude oil from the WCF to a tie-in with the Alpine Pipeline near CD4N. The seawater pipeline would import seawater from existing infrastructure in Kuparuk to the Plan Area. The diesel pipeline would transport Ultra Low Sulfur Diesel (ULSD) from the Kuparuk Central Processing Facility 2 (CPF2) to the ACF. A freshwater pipeline would also transport fresh water from the primary freshwater sources to the WOC.

Infield lines would include the following pipelines connecting the WCF to each drillsite:

- Produced fluids pipeline – produced multiphase fluids from each drillsite to WCF for processing.
- Injection water pipeline – seawater or produced water transported from WCF for injection to support enhanced oil recovery.
- Gas pipeline – gas transported from WCF for artificial lift, pressure support, and fuel gas.
- MI pipeline – MI transported from WCF for injection to support enhanced oil recovery.

Pipeline length and service characteristics are presented in **Table 1**. All infield pipelines would be designed to allow pipeline inspection and maintenance (e.g., pigging) between each drillsite and the WCF. Permanent pigging facilities would be installed for the produced fluid and injection water pipelines. To limit the venting of volatile organic compounds (VOC) in the enclosed pigging structure, the barrel of the pig launcher/receiver is flooded with inert gas to clear the barrel of accumulated liquids and flammable gases prior to venting to atmosphere and opening the launcher/receiver.

Pipeline valves that can be closed in the event of an emergency would be installed on pipelines in hydrocarbon service at each side of the Judy Creek and Fish Creek crossings, isolating the section of pipeline between the valves to minimize potential spill impacts in the event of a leak or break. Four gravel valve pads (1.3 acres total) would be constructed to support the valve infrastructure. Valve pads would be located adjacent to gravel roads approximately 400 to 2,000 feet from the bridge crossings.

Pipelines would be supported on common HSMs that would be supported by VSMs. All pipelines would parallel new and existing gravel roads, typically at a distance from the roadways of 500 to 1,000 feet. Fiber optic cable and power cables would be suspended from the same pipeline VSMs via messenger cable attached to the HSMs.

Table 1 Pipeline Segments

Segment	Pipelines	Segment Length (miles)	Notes
BT4 to BT2	BT4 Infield Lines[1]	10.2	Pipeline on new set of VSMs.
BT2 to BT1	BT2 Infield Lines[1]	4.7	Pipeline on new set of VSMs; would also transport BT4 materials.
BT1 to WCF	BT1 Infield Lines[1]	4.3	Pipelines on new set of VSMs; would also transport BT2 and BT4 materials.
BT3 to WCF	BT3 Infield Lines[1]	4.2	Pipelines on new set of VSMs.
BT5 to WCF	BT5 Infield Lines[1]	9.8	Pipelines on new set of VSMs; shares VSMs with BT3 infield pipeline from BT5 Junction to WCF (2.8 miles).
GMT2 to WCF	GMT2 Infield Lines[1]	10.2	Shares new VSMs with Willow and seawater pipelines from GMT2 to WCF (10.2 miles).
CFWR to WCF to WOC	Freshwater	4.9	Shares new VSMs with BT3 infield pipeline from CFWR junction to WCF (1.7 miles) and treated water and fuel gas pipelines from WCF to WOC (2.8 miles).
WOC to WCF	Treated Water	2.8	Shares new VSMs with freshwater and fuel gas pipelines from WCF to WOC (2.8 miles).
WOC to WCF	Fuel Gas	2.8	Shares new VSMs with treated water and freshwater pipelines from WCF to WOC (2.8 miles).
WCF to CD4N tie-in	Willow Pipeline	33.3	Shares new VSMs with seawater from WCF to CD4N (33.0 miles).
CPF2 to WCF	Seawater	64.3	Shares new VSMs with Willow Pipeline from WCF to CD4N (33.0 miles) and diesel pipeline from CD4N to CPF2 (31.3 miles). Includes HDD crossing of Colville River.
CPF2 to CD1	Diesel	34.4	Shares new VSMs with seawater pipeline from CPF2 to CD4N (31.3 miles) and existing VSMs from CD4N to CD1 (3.1 miles). Includes HDD crossing of Colville River.

[1] Infield lines include produced fluids, injection water gas, and miscible-injectant pipelines.

Notes: WCF: Willow Central Processing Facility; CFWR: constructed freshwater reservoir; WOC: Willow Operations Center; BT: Bear Tooth; CD4N: Colville Delta 4 North; CD1: Colville Delta 1; CPF2: Kuparuk Central Processing Facility 2; VSMs: vertical support members; HDD: horizontal directional drilling.

2.3.5 Communications

Communications infrastructure throughout the field would be provided by fiber optic cables suspended from pipeline VSMs via messenger cable attached to the HSMs. Additionally, communication towers would be located at the WCF and at all drillsites. The communications tower associated with the WOC would be constructed on a separate, adjacent pad.

2.3.6 Access/Transportation

Access to the Plan Area from Alpine, Kuparuk, and/or Deadhorse would occur via ground transportation on ice roads, fixed-wing aircraft, and helicopter. Access from Alpine would also occur by gravel road. Anticipated ground, air, and marine traffic is detailed in the Willow MDP EED.

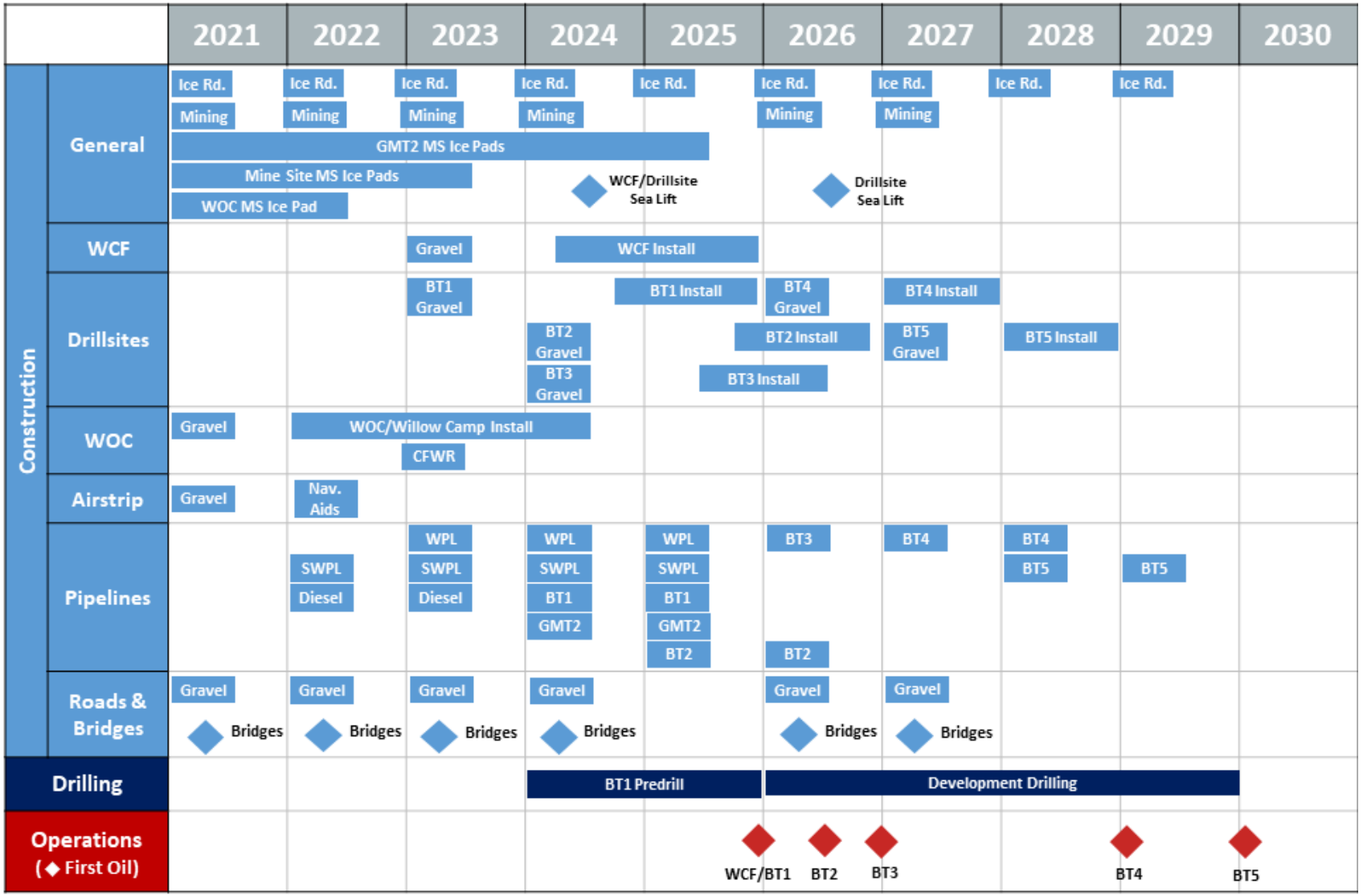
Ice roads would be used primarily during construction to support gravel infrastructure and pipeline construction, for lake access, and to access the selected gravel source(s). Due to heavy equipment size and frequency of construction traffic, safety considerations dictate use of separate ice roads for pipeline construction, gravel placement, and general traffic.

Year-round access to the Plan Area from Deadhorse, Alpine, Kuparuk, and/or other locations would be provided by aircraft. Air access would be supported by a 6,200-foot-long gravel airstrip with aprons located near the WOC. The airstrip would be capable of regular use by Hercules C-130, DC-6, Otter, CASA, and Bombardier Q400, or similar aircraft. Helicopters would be used to support project construction, ongoing environmental studies, ice road permit compliance, and, to a lesser extent, drilling and operations. Helicopter support of future exploration, including exploration wellhead inspections and “stick picking” from winter exploration activities, is not part of the Willow MDP but is described within the context of cumulative effects within the Willow MDP EED.

Details on air, sea, and road-based traffic throughout the project lifecycle are summarized in the Willow MDP EED and on the “INPUTS-[Type]_Traffic” tabs in applicable spreadsheets referenced in **Appendix C**.

2.4 Schedule

Construction of the Willow Development facilities is anticipated to occur over a nine-year period, with field work beginning in 2021 and completed in 2029. Drilling activities are anticipated to begin in 2024 with pre-drilling prior to facility start-up in order to provide enough production to commission the WCF. Drilling is anticipated to continue through 2029. WCF operations are expected to commence in 4Q 2025 with commissioning of the facility and first oil from the BT1 Drillsite. Production and operational activity will continue until the end of field life in 2050. **Figure** 1 provides a general schedule for key construction, drilling, and operations milestones for the Willow MDP.



Notes: Ice Rd.: Ice Road; WCF/Drillsite Sealift includes WCF, BT1, BT2, BT3 facilities; Drillsite Sealift includes BT4, BT5 facilities; GMT2: Greater Mooses Tooth 2; MS: multi-season; BT: Bear Tooth; WCF: Willow Central Processing Facility; WOC: Willow Operations Center; CFWR.: Constructed Freshwater Reservoir; Nav. Aids: Navigational Aids; WPL: Willow Pipeline; SWPL: Seawater Pipeline. SWPL and Diesel HDD in 2024; Operations continues to end of the life of the project in 2050

Figure 1 Willow Construction Schedule from Willow MDP EED

3.0 Emissions Inventory Development

An emissions inventory for the Willow Development was assembled based on the project description in CPAI's Willow MDP EED and highlighted in the previous sections. The emission inventory for CPAI's Preferred Alternative (Alternative B) and Sealift Module Delivery Option 3 (Ocean Point Crossing) includes project-specific emissions from development activities related to the following categories:

- Construction;
- Drilling;
- Routine operations;
- Well workovers and interventions; and
- Module delivery and transport.

For each of these categories, project-related emissions may occur from the following types of sources:

- Non-mobile combustion sources (e.g. turbines, reciprocating engines, and heaters);
- Mobile, on-road tailpipe combustion sources (e.g. vehicle traffic);
- Mobile, nonroad tailpipe combustion sources (e.g. construction equipment);
- Fugitive sources (e.g., fugitive dust, venting, or equipment leaks);
- Aircraft sources (e.g., airplane traffic); and
- Marine vessel sources (e.g., ocean-going boats and barges).

For each of these types of sources, emissions were calculated for the following pollutants:

- Criteria pollutants, including nitrogen oxides (NO_x), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter less than 10 microns in diameter (PM_{10}), and particulate matter less than 2.5 microns in diameter ($PM_{2.5}$).
- Volatile organic compounds (VOC).
- Hazardous air pollutants (HAPs), including benzene, toluene, ethylbenzene, xylenes, n-hexane, and formaldehyde.
- Greenhouse gases (GHGs), including carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O).

Calculations for each source of emissions and each pollutant were compiled into monthly summaries of emissions according to the proposed project schedule in **Figure** 1.

Given that the Willow Development is in the early stages of its design, the emissions inventory was developed by leveraging information from CPAI's other North Slope projects, including the GMT2 Drillsite in the GMTU and the ACF in the Colville River Unit. The emissions inventory for the five proposed Willow drillsites was developed directly using the GMT2 emissions inventory calculations compiled by Kleinfelder for the GMT2 Draft Supplemental Environmental Impact Statement (SEIS). This approach was used: (1) to facilitate the ease of review for Federal Land Managers (FLMs) with a familiar emissions inventory format; and (2) because those spreadsheets, calculations, and methodologies were reviewed and approved by FLMs through the GMT2 National Environmental Policy Act (NEPA) process. The Kleinfelder GMT2 emissions inventory spreadsheets were used, as is, to characterize emissions from the five Willow drillsites, except where Willow-specific inputs were updated. Where GMT2 emissions inventory spreadsheets were used as the basis for calculations, Kleinfelder's logo remains in those spreadsheets.

The emissions inventory for the WCF, WOC, and module delivery and transport activities were developed based on the emissions inventories for similar facilities and activities supporting the construction and operation of the ACF. This information was supplemented by equipment sizing information, newer emissions control and equipment technologies, and other Willow-specific design information developed by CPAI.

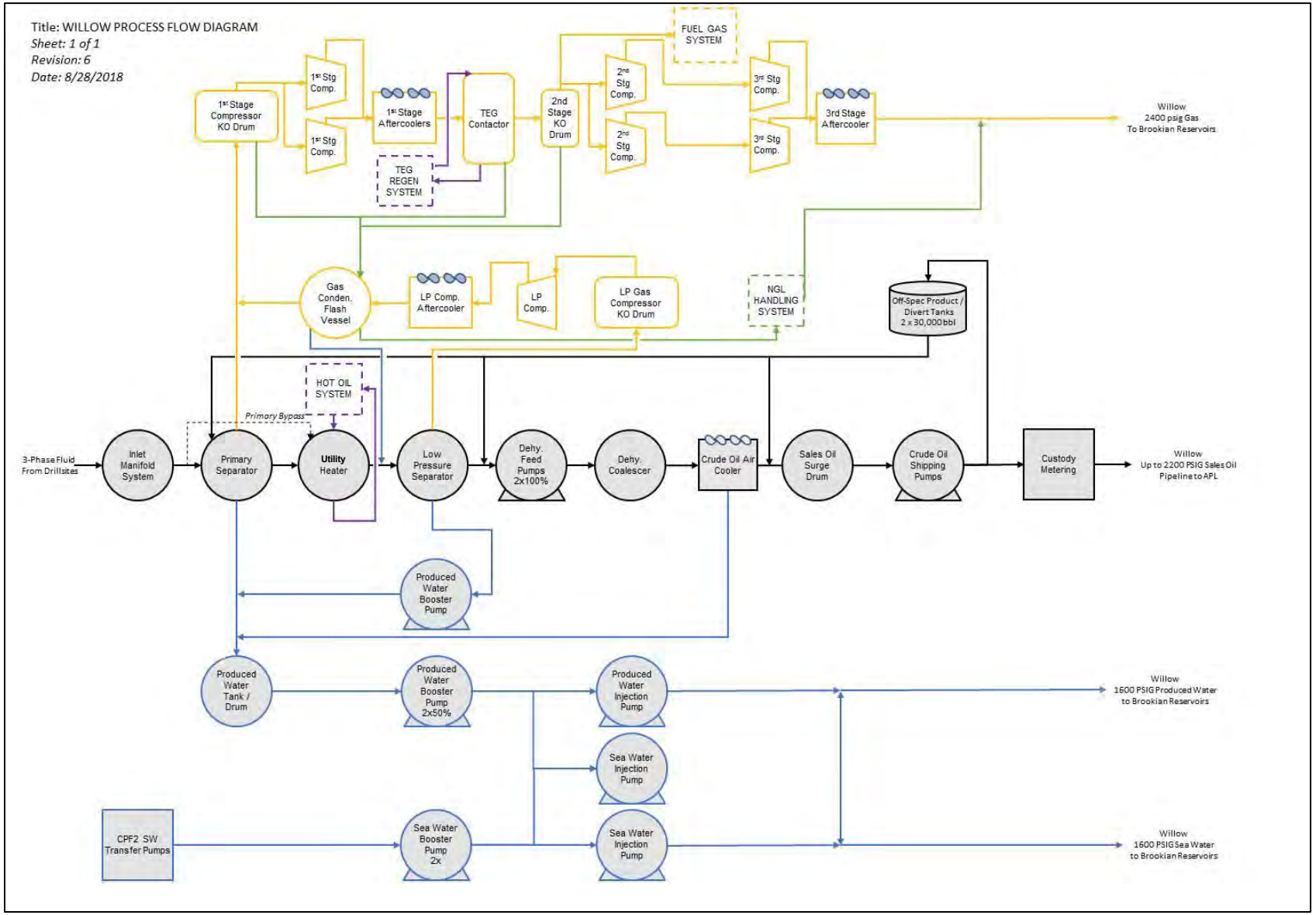
Using these resources, most emission calculations were performed using the following key references that are generally accepted for emission factors:

- AP-42, Chapter 1 (External Combustion Sources), Chapter 2 (Solid Waste Disposal), Chapter 3 (Stationary Internal Combustion Sources), Chapter 5 (Petroleum Industry), Chapter 7 (Liquid Storage Tanks), and Chapter 13 (Miscellaneous Sources).
- 40 Code of Federal Regulations (CFR) Part 98, Subpart A, Table A-1 (Global Warming Potentials) and Subpart C, Table C-1 (Default CO_2 Emission Factors) and Table C-2 (Default CH_4 and N_2O Emission Factors) for general stationary fuel combustion sources.
- Applicable federal requirements in 40 CFR Part 89 and Part 1039 (Control of Emissions from New and In-Use Nonroad Compression-Ignition Engines), 40 CFR 60 (Standards of Performance for New Stationary Sources), and 40 CFR 63 (National Emission Standards for Hazardous Air Pollutants for Source Categories).
- Limited representative vendor data from similar projects, such as ACF, for certain combustion sources.
- U.S. Environmental Protection Agency (USEPA) Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017).
- USEPA Motor Vehicle Emission Simulator (MOVES) 2014a model for on-road and nonroad mobile equipment emissions.
- Federal Aviation Administration (FAA) Aviation Environmental Design Tool (AEDT) model for aircraft emissions.
- USEPA TANKS emissions estimation software, Version 4.09D.
- USEPA Current Methodologies in Preparing Mobile Source Port-Related Emission Inventories, Final Report, April 2009, prepared by ICF International.

Tabular and graphical representations of key aspects of the Willow Development emissions inventory are summarized in **Appendix B**. Detailed emissions calculations, assumptions, and methodologies are outlined in the emissions calculation spreadsheets included in **Appendix C** (electronically enclosed) to reduce duplication of material.

Appendix A

Willow Central Processing Facility Process Flow Diagram


Title: WILLOW PROCESS FLOW DIAGRAM
Sheet: 1 of 1
Revision: 6
Date: 8/28/2018
FUEL GAS SYSTEM
1st Stage Compressor KO Drum
1st Stg Comp.
1st Stg Comp.
1st Stage Aftercoolers
TEG Contactor
TEG REGEN SYSTEM
2nd Stage KO Drum
2nd Stg Comp.
2nd Stg Comp.
3rd Stg Comp.
3rd Stg Comp.
3rd Stage Aftercooler
Willow 2400 psig Gas To Brookian Reservoirs
Gas Conden. Flash Vessel
LP Comp. Aftercooler
LP Comp.
LP Gas Compressor KO Drum
NGL HANDLING SYSTEM
Off-Spec Product / Divert Tanks 2 x 30,000 bbl
HOT OIL SYSTEM
Primary Bypass
3-Phase Fluid From Drillsites
Inlet Manifold System
Primary Separator
Utility Heater
Low Pressure Separator
Dehy. Feed Pumps 2x100%
Dehy. Coalescer
Crude Oil Air Cooler
Sales Oil Surge Drum
Crude Oil Shipping Pumps
Custody Metering
Willow Up to 2200 PSIG Sales Oil Pipeline to APL
Produced Water Booster Pump
Produced Water Tank / Drum
Produced Water Booster Pump 2x50%
Produced Water Injection Pump
Willow 1600 PSIG Produced Water to Brookian Reservoirs
Sea Water Injection Pump
CPF2 SW Transfer Pumps
Sea Water Booster Pump 2x
Sea Water Injection Pump
Willow 1600 PSIG Sea Water to Brookian Reservoirs

Appendix B

Summary Emissions Tables

Table B-1 List of Assumptions for Summary Tables

Table/Figure	Assumption/Note
Various	50% of all Project wells are producing wells, 50% are injection wells. Emissions related to both types of wells are summarized.
Table B-6	This table represents the total annual emissions for the Project Area divided by the planned 251 wells. We assume no difference in emissions between injection and producing wells. Emissions from new wells include all emissions related to construction and drilling, divided by the total number of wells and number of years considered to get an average annual emission rate for constructing and drilling each well. Emissions from wells >1 year represent emissions unrelated to construction and drilling and are representative of annual emissions from annual production/operations on a per well basis.
Figure B-1	Drilling will occur until 2029.

Table B-2 Project Alternative Emissions Summary (tpy) for a Typical Production Year

Pollutant	Existing Wells Emissions	Future Wells Emissions	No Action	Proposed Action	Total Emissions for Project Area (Existing + Future Wells)	Existing to Future Difference in Total Project Area Emissions (including Proposed Action)
NO_x	0	654.5	0.0	654.5	654.5	654.5
CO	0	620.7	0.0	620.7	620.7	620.7
SO_2	0	52.6	0.0	52.6	52.6	52.6
PM_{10}	0	170.0	0.0	170.0	170.0	170.0
$PM_{2.5}$	0	79.7	0.0	79.7	79.7	79.7
VOC	0	666.3	0.0	666.3	666.3	666.3

Table B-3a Annual Criteria Pollutant Emissions (tons) for Construction Only

Project Year	Calendar Year	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	2020	20.5	32.7	0.9	1.3	0.5	1.3
1	2021	440.4	376.8	3.8	81.5	20.6	26.5
2	2022	462.9	388.0	4.9	102.5	23.3	26.5
3	2023	543.0	428.0	4.6	265.4	43.2	36.6
4	2024	609.6	443.2	3.9	218.2	42.3	46.8
5	2025	191.7	120.4	1.4	186.1	28.6	21.4
6	2026	182.8	155.9	3.3	113.9	19.5	18.2
7	2027	133.7	119.9	2.0	96.3	14.7	14.8
8	2028	29.5	14.2	0.1	39.7	5.5	3.4
9	2029	6.2	1.8	0.0	0.3	0.2	0.6
10	2030	0.0	0.0	0.0	0.0	0.0	0.0
11	2031	0.0	0.0	0.0	0.0	0.0	0.0
12	2032	0.0	0.0	0.0	0.0	0.0	0.0
13	2033	0.0	0.0	0.0	0.0	0.0	0.0
14	2034	0.0	0.0	0.0	0.0	0.0	0.0
15	2035	0.0	0.0	0.0	0.0	0.0	0.0
16-30	2036-2050	0.0	0.0	0.0	0.0	0.0	0.0

Table B-3b Annual Criteria Pollutant Emissions (tons) For Drilling and Completion Only

Project Year	Calendar Year	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	2020	0.0	0.0	0.0	0.0	0.0	0.0
1	2021	0.0	0.0	0.0	0.0	0.0	0.0
2	2022	0.0	0.0	0.0	0.0	0.0	0.0
3	2023	3.8	5.3	0.0	0.3	0.3	0.4
4	2024	142.1	372.1	1.0	106.1	18.5	60.4
5	2025	143.7	372.7	1.0	138.5	21.8	60.6
6	2026	101.9	142.2	0.5	178.3	24.1	45.1
7	2027	106.6	141.3	0.5	291.9	35.7	36.2
8	2028	99.9	138.5	0.5	147.4	20.9	35.3
9	2029	106.6	141.3	0.5	291.9	35.7	36.2
10	2030	0.0	0.0	0.0	0.0	0.0	0.0
11	2031	0.0	0.0	0.0	0.0	0.0	0.0
12	2032	0.0	0.0	0.0	0.0	0.0	0.0
13	2033	0.0	0.0	0.0	0.0	0.0	0.0
14	2034	0.0	0.0	0.0	0.0	0.0	0.0
15	2035	0.0	0.0	0.0	0.0	0.0	0.0
16-30	2036-2050	0.0	0.0	0.0	0.0	0.0	0.0

Table B-3c Annual Criteria Pollutant Emissions (tons) For Production and Operations Only

Project Year	Calendar Year	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	2020	0.0	0.0	0.0	0.0	0.0	0.0
1	2021	0.5	0.2	0.0	0.0	0.0	0.0
2	2022	0.5	1.5	0.0	0.0	0.0	0.0
3	2023	1.7	3.1	0.2	0.1	0.1	0.7
4	2024	5.2	7.3	0.6	2.1	0.5	1.3
5	2025	251.5	238.2	16.8	51.2	30.5	89.8
6	2026	635.7	606.9	52.4	165.0	78.6	405.9
7	2027	643.4	612.7	52.6	169.1	79.4	507.1
8	2028	644.3	613.4	52.6	171.5	79.7	507.1
9	2029	650.1	618.1	52.6	177.7	80.7	587.7
10	2030	654.5	620.7	52.6	178.0	80.9	666.7
11	2031	654.5	620.7	52.6	178.0	80.9	666.7
12	2032	654.5	620.7	52.6	170.0	79.7	666.3
13	2033	654.5	620.7	52.6	170.0	79.7	666.3
14	2034	654.5	620.7	52.6	170.0	79.7	666.3
15	2035	654.5	620.7	52.6	170.0	79.7	666.3
16-30	2036-2050	654.5	620.7	52.6	170.0	79.7	666.3

Table B-4 Well and Pads by Formation and Drilling Technology

Classification	New Wells	New Well Pads	Modification of Existing Well Pads	Single Well Pads	Multi-Well Pads	Expansion of Existing Well Pads	Total Pads
Directional Oil Wells	123	5	0	0	5	0	5
Directional Injection Wells	128		0	0		0	
Total	251	5	0	0	5	0	5

Table B-5a Emissions for Construction of All Drillsite Pads

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/year-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	9.5E-02	4.2E-01	7.6E+00	3.3E+01
CO	4.3E-02	1.9E-01	3.5E+00	1.5E+01
SO_2	3.7E-04	1.6E-03	2.9E-02	1.3E-01
PM_{10}	1.1E-02	4.7E-02	8.5E-01	3.7E+00
$PM_{2.5}$	7.9E-03	3.5E-02	6.3E-01	2.8E+00
VOC	1.2E-02	5.4E-02	9.9E-01	4.3E+00
Benzene	3.2E-04	1.4E-03	2.5E-02	1.1E-01
Toluene	3.6E-04	1.6E-03	2.8E-02	1.2E-01
Ethylbenzene	7.0E-05	3.1E-04	5.6E-03	2.5E-02
Xylene	3.2E-04	1.4E-03	2.5E-02	1.1E-01
Formaldehyde	2.9E-03	1.3E-02	2.3E-01	1.0E+00
n-Hexane	3.9E-05	1.7E-04	3.1E-03	1.4E-02
CO_2e	5.2E+01	2.3E+02	4.1E+03	1.8E+04

[1] Emission factors are the emission rates divided by total acres of all drillsite pads.

Table B-5b Emissions for Construction of All Bridges

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-mile)	Annual (ton/year-mile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	2.2E+00	9.6E+00	4.9E-01	2.1E+00
CO	7.5E-01	3.3E+00	1.7E-01	7.3E-01
SO_2	8.7E-03	3.8E-02	1.9E-03	8.4E-03
PM_{10}	1.6E-01	7.0E-01	3.6E-02	1.6E-01
$PM_{2.5}$	1.5E-01	6.6E-01	3.3E-02	1.5E-01
VOC	2.0E-01	8.6E-01	4.4E-02	1.9E-01
Benzene	5.8E-03	2.5E-02	1.3E-03	5.6E-03
Toluene	5.8E-03	2.5E-02	1.3E-03	5.6E-03
Ethylbenzene	1.1E-03	4.6E-03	2.3E-04	1.0E-03
Xylene	4.4E-03	1.9E-02	9.8E-04	4.3E-03
Formaldehyde	4.7E-02	2.1E-01	1.0E-02	4.6E-02
n-Hexane	5.0E-04	2.2E-03	1.1E-04	4.8E-04
CO_2e	1.1E+03	4.9E+03	2.5E+02	1.1E+03

[1] Emission factors are the emission rates divided by total length in miles of bridges constructed.

Table B-5c Emissions for Construction of Gravel Roads and Support Pads

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/year-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	3.9E-03	1.7E-02	1.1E+00	4.7E+00
CO	1.5E-03	6.5E-03	4.1E-01	1.8E+00
SO_2	1.5E-05	6.7E-05	4.2E-03	1.8E-02
PM_{10}	7.1E-03	3.1E-02	1.9E+00	8.4E+00
$PM_{2.5}$	1.3E-03	5.5E-03	3.4E-01	1.5E+00
VOC	6.3E-04	2.7E-03	1.7E-01	7.4E-01
Benzene	1.3E-05	5.8E-05	3.6E-03	1.6E-02
Toluene	1.9E-05	8.5E-05	5.3E-03	2.3E-02
Ethylbenzene	3.6E-06	1.6E-05	9.8E-04	4.3E-03
Xylene	2.0E-05	8.7E-05	5.4E-03	2.4E-02
Formaldehyde	1.4E-04	6.3E-04	3.9E-02	1.7E-01
n-Hexane	2.6E-06	1.1E-05	7.1E-04	3.1E-03
CO_2e	2.5E+00	1.1E+01	6.9E+02	3.0E+03

[1] Emission factors are the emission rates divided by total acres of all gravel roads and support pads (valve, pipeline, and water access/reservoir pads).

Table B-5d Emissions for Construction of Ice Roads and Ice Pads

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/year-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	3.2E-03	1.4E-02	1.3E+01	5.9E+01
CO	8.7E-04	3.8E-03	3.6E+00	1.6E+01
SO_2	3.8E-06	1.7E-05	1.6E-02	6.9E-02
PM_{10}	1.1E-04	5.0E-04	4.7E-01	2.1E+00
$PM_{2.5}$	1.1E-04	4.9E-04	4.6E-01	2.0E+00
VOC	2.9E-04	1.3E-03	1.2E+00	5.2E+00
Benzene	6.1E-06	2.7E-05	2.5E-02	1.1E-01
Toluene	8.4E-06	3.7E-05	3.5E-02	1.5E-01
Ethylbenzene	1.7E-06	7.5E-06	7.1E-03	3.1E-02
Xylene	8.8E-06	3.8E-05	3.6E-02	1.6E-01
Formaldehyde	6.6E-05	2.9E-04	2.7E-01	1.2E+00
n-Hexane	1.2E-06	5.1E-06	4.8E-03	2.1E-02
CO_2e	7.3E-01	3.2E+00	3.0E+03	1.3E+04

[1] Emission factors are the emission rates divided by total acres of all ice roads and ice pads constructed through the life of the project.

Table B-5e Emissions for Construction of Powerlines and Fiber Optics

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-mile)	Annual (ton/year-mile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	7.7E-03	3.4E-02	2.5E-01	1.1E+00
CO	3.1E-03	1.4E-02	1.0E-01	4.5E-01
SO_2	3.4E-05	1.5E-04	1.1E-03	5.0E-03
PM_{10}	6.5E-04	2.8E-03	2.1E-02	9.4E-02
$PM_{2.5}$	6.1E-04	2.7E-03	2.0E-02	8.8E-02
VOC	8.0E-04	3.5E-03	2.7E-02	1.2E-01
Benzene	2.2E-05	9.8E-05	7.5E-04	3.3E-03
Toluene	2.2E-05	9.8E-05	7.4E-04	3.3E-03
Ethylbenzene	4.4E-06	1.9E-05	1.5E-04	6.4E-04
Xylene	1.8E-05	7.7E-05	5.8E-04	2.6E-03
Formaldehyde	1.9E-04	8.2E-04	6.2E-03	2.7E-02
n-Hexane	2.0E-06	8.8E-06	6.7E-05	2.9E-04
CO_2e	4.3E+00	1.9E+01	1.4E+02	6.2E+02

[1] Emission factors are the emission rates divided by total length in miles of fiber optics line constructed. Miles of powerline are assumed equal to the miles of fiber optic line constructed.

Table B-5f Emissions for Construction of Pipelines

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-mile)	Annual (ton/year-mile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	7.8E-02	3.4E-01	1.4E+01	6.3E+01
CO	5.0E-02	2.2E-01	9.2E+00	4.0E+01
SO_2	1.8E-04	7.8E-04	3.3E-02	1.4E-01
PM_{10}	3.9E-03	1.7E-02	7.2E-01	3.2E+00
$PM_{2.5}$	3.8E-03	1.7E-02	7.0E-01	3.1E+00
VOC	1.1E-02	4.8E-02	2.0E+00	8.9E+00
Benzene	9.1E-05	4.0E-04	1.7E-02	7.4E-02
Toluene	7.5E-05	3.3E-04	1.4E-02	6.1E-02
Ethylbenzene	1.1E-05	4.8E-05	2.1E-03	9.0E-03
Xylene	6.5E-05	2.8E-04	1.2E-02	5.3E-02
Formaldehyde	4.8E-04	2.1E-03	8.9E-02	3.9E-01
n-Hexane	6.7E-06	2.9E-05	1.2E-03	5.4E-03
CO_2e	2.0E+01	8.9E+01	3.8E+03	1.7E+04

[1] Emission factors are the emission rates divided by total length in miles of pipeline constructed.

Table B-5g Emissions for Construction of WCF

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/year-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	4.3E-01	1.9E+00	9.9E+00	4.3E+01
CO	1.8E-01	8.0E-01	4.2E+00	1.8E+01
SO_2	1.4E-03	6.3E-03	3.3E-02	1.4E-01
PM_{10}	4.0E-02	1.7E-01	9.1E-01	4.0E+00
$PM_{2.5}$	3.3E-02	1.4E-01	7.5E-01	3.3E+00
VOC	5.3E-02	2.3E-01	1.2E+00	5.3E+00
Benzene	1.4E-03	6.1E-03	3.2E-02	1.4E-01
Toluene	1.5E-03	6.6E-03	3.4E-02	1.5E-01
Ethylbenzene	3.0E-04	1.3E-03	6.8E-03	3.0E-02
Xylene	1.3E-03	5.8E-03	3.0E-02	1.3E-01
Formaldehyde	1.2E-02	5.4E-02	2.8E-01	1.2E+00
n-Hexane	1.6E-04	7.0E-04	3.7E-03	1.6E-02
CO_2e	2.0E+02	9.0E+02	4.7E+03	2.0E+04

[1] Emission factors are the emission rates divided by total acres of the WCF pad.

Table B-5h Emissions for Construction of WOC and Airstrip

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/year-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.5E-01	6.7E-01	1.1E+01	4.9E+01
CO	7.4E-02	3.3E-01	5.5E+00	2.4E+01
SO_2	5.2E-04	2.3E-03	3.8E-02	1.7E-01
PM_{10}	1.6E-02	7.1E-02	1.2E+00	5.2E+00
$PM_{2.5}$	1.1E-02	4.6E-02	7.8E-01	3.4E+00
VOC	2.2E-02	9.8E-02	1.6E+00	7.2E+00
Benzene	4.9E-04	2.1E-03	3.6E-02	1.6E-01
Toluene	6.6E-04	2.9E-03	4.8E-02	2.1E-01
Ethylbenzene	1.2E-04	5.3E-04	8.9E-03	3.9E-02
Xylene	6.4E-04	2.8E-03	4.7E-02	2.1E-01
Formaldehyde	4.9E-03	2.2E-02	3.6E-01	1.6E+00
n-Hexane	8.3E-05	3.6E-04	6.1E-03	2.7E-02
CO_2e	8.3E+01	3.6E+02	6.1E+03	2.7E+04

[1] Emission factors are the emission rates divided by total acres of the WOC and Airstrip.

Table B-5i Emissions for Bulk Materials Transport and Sealift Module Delivery Option 3 (Ocean Point Crossing)

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-kton)	Annual (ton/year-kton)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	2.6E-01	1.2E+00	1.1E+01	4.9E+01
CO	1.3E-01	5.5E-01	5.3E+00	2.3E+01
SO_2	3.4E-03	1.5E-02	1.5E-01	6.4E-01
PM_{10}	1.2E-01	5.3E-01	5.1E+00	2.2E+01
$PM_{2.5}$	2.1E-02	9.3E-02	9.0E-01	4.0E+00
VOC	2.8E-02	1.2E-01	1.2E+00	5.2E+00
Benzene	4.3E-04	1.9E-03	1.8E-02	7.9E-02
Toluene	5.1E-04	2.3E-03	2.2E-02	9.6E-02
Ethylbenzene	1.2E-04	5.2E-04	5.0E-03	2.2E-02
Xylene	5.3E-04	2.3E-03	2.2E-02	9.8E-02
Formaldehyde	4.4E-03	1.9E-02	1.9E-01	8.2E-01
n-Hexane	8.6E-05	3.8E-04	3.7E-03	1.6E-02
CO_2e	7.5E+01	3.3E+02	3.2E+03	1.4E+04

[1] Emission factors are the emission rates divided by the total weight of modules (WCF and drillsite modules) transferred via Oliktok Dock in thousands of tons (kton).

Table B-5j Emissions for Gravel Mining and Reservoir Development

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-MCY)	Annual (ton/year-MCY)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.3E+00	5.7E+00	7.8E+00	3.4E+01
CO	3.4E+00	1.5E+01	2.0E+01	8.8E+01
SO_2	9.6E-02	4.2E-01	5.8E-01	2.5E+00
PM_{10}	1.1E-01	4.7E-01	6.5E-01	2.8E+00
$PM_{2.5}$	3.0E-02	1.3E-01	1.8E-01	7.9E-01
VOC	6.4E-02	2.8E-01	3.8E-01	1.7E+00
Benzene	1.6E-03	7.0E-03	9.6E-03	4.2E-02
Toluene	1.9E-03	8.5E-03	1.2E-02	5.1E-02
Ethylbenzene	3.7E-04	1.6E-03	2.2E-03	9.8E-03
Xylene	1.8E-03	8.0E-03	1.1E-02	4.8E-02
Formaldehyde	1.5E-02	6.6E-02	9.1E-02	4.0E-01
n-Hexane	2.3E-04	1.0E-03	1.4E-03	6.0E-03
CO_2e	2.0E+02	8.8E+02	1.2E+03	5.3E+03

[1] Emission factors are the emission rates divided by total gravel volume in million cubic yards (MCY).

Table B-5k Emissions for Construction Traffic

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-kmile)	Annual (ton/year-kmile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.2E-04	5.3E-04	3.4E+00	1.5E+01
CO	1.1E-04	4.6E-04	3.0E+00	1.3E+01
SO_2	4.4E-07	1.9E-06	1.2E-02	5.4E-02
PM_{10}	9.0E-04	3.9E-03	2.5E+01	1.1E+02
$PM_{2.5}$	9.5E-05	4.2E-04	2.7E+00	1.2E+01
VOC	2.0E-05	8.5E-05	5.5E-01	2.4E+00
Benzene	1.5E-07	6.5E-07	4.1E-03	1.8E-02
Toluene	1.4E-07	5.9E-07	3.8E-03	1.7E-02
Ethylbenzene	5.5E-08	2.4E-07	1.5E-03	6.7E-03
Xylene	1.4E-07	6.3E-07	4.0E-03	1.8E-02
Formaldehyde	1.6E-06	7.2E-06	4.6E-02	2.0E-01
n-Hexane	4.6E-08	2.0E-07	1.3E-03	5.6E-03
CO_2e	5.3E-02	2.3E-01	1.5E+03	6.6E+03

[1] Emission factors are the emission rates divided by total number of construction traffic miles in thousands of miles (kmile).

Table B-5l Emissions for Early Operations Power Generation the WOC

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-kWe)	Annual (ton/year-kWe)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	4.8E-03	2.1E-02	7.1E+01	3.1E+02
CO	3.9E-03	1.7E-02	5.7E+01	2.5E+02
SO_2	1.5E-05	6.5E-05	2.2E-01	9.5E-01
PM_{10}	1.3E-04	5.7E-04	1.9E+00	8.3E+00
$PM_{2.5}$	1.3E-04	5.7E-04	1.9E+00	8.3E+00
VOC	2.0E-04	8.9E-04	3.0E+00	1.3E+01
Benzene	1.5E-06	6.4E-06	2.1E-02	9.3E-02
Toluene	3.6E-07	1.6E-06	5.3E-03	2.3E-02
Ethylbenzene	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Xylene	2.5E-07	1.1E-06	3.6E-03	1.6E-02
Formaldehyde	2.4E-06	1.1E-05	3.5E-02	1.6E-01
n-Hexane	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CO_2e	1.5E+00	6.8E+00	2.3E+04	9.9E+04

[1] Emission factors are the emission rates divided by total power at the WOC in kilowatts electric (kWe).

Table B-5m Emissions for Drilling of All Wells at Drillsite Pads

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-well)	Annual (ton/year-well)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	2.1E-01	9.2E-01	5.3E+01	2.3E+02
CO	4.6E-01	2.0E+00	1.2E+02	5.1E+02
SO_2	1.3E-03	5.8E-03	3.3E-01	1.4E+00
PM_{10}	1.4E-02	6.2E-02	3.6E+00	1.6E+01
$PM_{2.5}$	1.4E-02	6.0E-02	3.4E+00	1.5E+01
VOC	8.8E-02	3.8E-01	2.2E+01	9.7E+01
Benzene	3.4E-04	1.5E-03	8.5E-02	3.7E-01
Toluene	1.7E-04	7.6E-04	4.3E-02	1.9E-01
Ethylbenzene	1.1E-05	4.9E-05	2.8E-03	1.2E-02
Xylene	1.0E-04	4.4E-04	2.5E-02	1.1E-01
Formaldehyde	3.3E-04	1.5E-03	8.4E-02	3.7E-01
n-Hexane	2.1E-03	9.2E-03	5.3E-01	2.3E+00
CO_2e	1.2E+02	5.2E+02	3.0E+04	1.3E+05

[1] Emission factors are the emission rates divided by total number of wells drilled at all drillsite pads.

Table B-5n Emissions for Drilling Traffic

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-kmile)	Annual (ton/year-kmile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	7.8E-04	3.4E-03	3.8E+00	1.6E+01
CO	3.3E-04	1.4E-03	1.6E+00	6.9E+00
SO_2	2.9E-06	1.3E-05	1.4E-02	6.1E-02
PM_{10}	1.6E-02	6.9E-02	7.6E+01	3.3E+02
$PM_{2.5}$	1.6E-03	7.1E-03	7.8E+00	3.4E+01
VOC	1.0E-04	4.6E-04	5.0E-01	2.2E+00
Benzene	9.2E-07	4.0E-06	4.4E-03	1.9E-02
Toluene	1.1E-06	4.7E-06	5.2E-03	2.3E-02
Ethylbenzene	3.6E-07	1.6E-06	1.7E-03	7.7E-03
Xylene	1.2E-06	5.3E-06	5.9E-03	2.6E-02
Formaldehyde	1.1E-05	4.9E-05	5.3E-02	2.3E-01
n-Hexane	3.2E-07	1.4E-06	1.5E-03	6.7E-03
CO_2e	3.5E-01	1.5E+00	1.7E+03	7.4E+03

[1] Emission factors are the emission rates divided by total number of drilling traffic miles in thousands of miles (kmile).

Table B-5o Emissions for Operations of All Drillsite Pads

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-pad)	Annual (ton/year-pad)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.5E+00	6.7E+00	7.7E+00	3.4E+01
CO	1.3E+00	5.6E+00	6.4E+00	2.8E+01
SO_2	3.5E-02	1.6E-01	1.8E-01	7.8E-01
PM_{10}	1.8E-01	7.9E-01	9.1E-01	4.0E+00
$PM_{2.5}$	9.9E-02	4.3E-01	4.9E-01	2.2E+00
VOC	2.1E+01	9.3E+01	1.1E+02	4.7E+02
Benzene	2.2E-02	9.5E-02	1.1E-01	4.7E-01
Toluene	6.0E-02	2.6E-01	3.0E-01	1.3E+00
Ethylbenzene	5.4E-01	2.3E+00	2.7E+00	1.2E+01
Xylene	1.1E+00	4.6E+00	5.3E+00	2.3E+01
Formaldehyde	6.5E-04	2.9E-03	3.3E-03	1.4E-02
n-Hexane	1.3E+00	5.8E+00	6.6E+00	2.9E+01
CO_2e	1.0E+03	4.5E+03	5.2E+03	2.3E+04

[1] Emission factors are the emission rates divided by number of drillsite pads.

Table B-5p Emissions for Operations of WCF

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-kbbl/day)	Annual (ton/year-kbbl/day)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	5.7E-01	2.5E+00	1.1E+02	5.0E+02
CO	5.5E-01	2.4E+00	1.1E+02	4.8E+02
SO_2	5.4E-02	2.4E-01	1.1E+01	4.8E+01
PM_{10}	6.2E-02	2.7E-01	1.2E+01	5.4E+01
$PM_{2.5}$	6.1E-02	2.7E-01	1.2E+01	5.3E+01
VOC	2.1E-01	9.2E-01	4.2E+01	1.8E+02
Benzene	2.7E-04	1.2E-03	5.3E-02	2.3E-01
Toluene	1.2E-03	5.3E-03	2.4E-01	1.1E+00
Ethylbenzene	3.3E-04	1.5E-03	6.7E-02	2.9E-01
Xylene	6.6E-04	2.9E-03	1.3E-01	5.8E-01
Formaldehyde	2.0E-03	8.5E-03	3.9E-01	1.7E+00
n-Hexane	8.8E-03	3.9E-02	1.8E+00	7.7E+00
CO_2e	9.8E+02	4.3E+03	2.0E+05	8.5E+05

[1] Emission factors are the emission rates divided by WCF operating capacity in thousands of barrels per day (kbbl/day).

Table B-5q Emissions for Operations of WOC and Airstrip

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-person)	Annual (ton/year-person)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.3E-01	5.7E-01	2.6E+01	1.1E+02
CO	1.2E-01	5.1E-01	2.3E+01	1.0E+02
SO_2	4.4E-03	1.9E-02	8.9E-01	3.9E+00
PM_{10}	1.8E-02	8.0E-02	3.7E+00	1.6E+01
$PM_{2.5}$	1.6E-02	7.2E-02	3.3E+00	1.4E+01
VOC	1.8E-02	7.7E-02	3.5E+00	1.5E+01
Benzene	8.6E-05	3.7E-04	1.7E-02	7.5E-02
Toluene	1.1E-04	4.7E-04	2.2E-02	9.5E-02
Ethylbenzene	2.0E-05	8.6E-05	3.9E-03	1.7E-02
Xylene	5.8E-05	2.6E-04	1.2E-02	5.1E-02
Formaldehyde	1.5E-04	6.5E-04	3.0E-02	1.3E-01
n-Hexane	4.3E-06	1.9E-05	8.7E-04	3.8E-03
CO_2e	9.4E+01	4.1E+02	1.9E+04	8.2E+04

[1] Emission factors are the emission rates divided by number of personnel housed at the WOC.

Table B-5r Emissions for Aircraft Flights

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-flight/yr)	Annual (ton/year-flight/yr)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.1E-03	4.9E-03	6.3E-01	2.8E+00
CO	1.8E-03	7.9E-03	1.0E+00	4.4E+00
SO_2	1.5E-04	6.5E-04	8.3E-02	3.6E-01
PM_{10}	3.8E-05	1.7E-04	2.1E-02	9.3E-02
$PM_{2.5}$	3.8E-05	1.7E-04	2.1E-02	9.3E-02
VOC	3.4E-04	1.5E-03	1.9E-01	8.4E-01
Benzene	5.7E-06	2.5E-05	3.2E-03	1.4E-02
Toluene	2.2E-06	9.7E-06	1.2E-03	5.4E-03
Ethylbenzene	6.0E-07	2.6E-06	3.3E-04	1.5E-03
Xylene	1.5E-06	6.6E-06	8.5E-04	3.7E-03
Formaldehyde	4.2E-05	1.9E-04	2.4E-02	1.0E-01
n-Hexane	6.8E-09	3.0E-08	3.8E-06	1.7E-05
CO_2e	4.0E-01	1.7E+00	2.2E+02	9.8E+02

[1] Emission factors are the emission rates divided by the average number of flights per year.

Table B-5s Emissions for Operations Traffic

Pollutant	Emission Factor [1]		Emission Rates	
	Short-Term (lb/hr-kmile)	Annual (ton/year-kmile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.2E-04	5.4E-04	6.7E-01	3.0E+00
CO	8.0E-05	3.5E-04	4.4E-01	1.9E+00
SO_2	4.9E-07	2.2E-06	2.7E-03	1.2E-02
PM_{10}	4.0E-03	1.8E-02	2.2E+01	9.6E+01
$PM_{2.5}$	4.1E-04	1.8E-03	2.2E+00	9.7E+00
VOC	1.8E-05	7.7E-05	9.6E-02	4.2E-01
Benzene	1.5E-07	6.7E-07	8.3E-04	3.6E-03
Toluene	1.7E-07	7.6E-07	9.5E-04	4.1E-03
Ethylbenzene	6.0E-08	2.6E-07	3.3E-04	1.4E-03
Xylene	1.9E-07	8.5E-07	1.1E-03	4.6E-03
Formaldehyde	1.8E-06	7.9E-06	9.8E-03	4.3E-02
n-Hexane	5.3E-08	2.3E-07	2.9E-04	1.3E-03
CO_2e	6.0E-02	2.6E-01	3.3E+02	1.4E+03

[1] Emission factors are the emission rates divided by total number of operation traffic miles in thousands of miles (kmile).

Table B-6 Average Annual Emissions per Well

Pollutant	Emissions (ton/year/well)			
	Directional Oil Wells		Directional Injection Wells	
	New Well (Construction and Drilling)	Well > 1 Year (Production and Operations)	New Well (Construction and Drilling)	Well > 1 Year (Production and Operations)
NO_x	1.32	2.61	1.32	2.61
CO	1.35	2.47	1.35	2.47
SO_2	0.01	0.21	0.01	0.21
PM_{10}	0.90	0.68	0.90	0.68
$PM_{2.5}$	0.14	0.32	0.14	0.32
VOC	0.19	2.65	0.19	2.65
Benzene	1.64E-03	3.18E-03	1.64E-03	3.18E-03
Toluene	1.58E-03	9.92E-03	1.58E-03	9.92E-03
Ethylbenzene	3.02E-04	4.79E-02	3.02E-04	4.79E-02
Xylenes	1.45E-03	9.46E-02	1.45E-03	9.46E-02
Formaldehyde	1.18E-02	7.88E-03	1.18E-02	7.88E-03
n-Hexane	2.70E-03	1.46E-01	2.70E-03	1.46E-01
CO_2e	485	3,828	485	3,828

Table B-7 Estimated Rate of Development

Project Year	Calendar Year	Number of Drill Rigs Operating in the Willow Field	Number of Active Producing Wells Represented in the EI	Number of Active Injection Wells Represented in the EI
0	2020	0	0	0
1	2021	0	0	0
2	2022	0	0	0
3	2023	0	0	0
4	2024	2	0	0
5	2025	2	0	0
6	2026	2	41	43
7	2027	2	62	64
8	2028	2	82	85
9	2029	2	103	107
10	2030	0	123	128
11	2031	0	123	128
12	2032	0	123	128
13	2033	0	123	128
14	2034	0	123	128
15	2035	0	123	128
16	2036	0	123	128
17	2037	0	123	128
18	2038	0	123	128
19	2039	0	123	128
20	2040	0	123	128
21	2041	0	123	128
22	2042	0	123	128
23	2043	0	123	128
24	2044	0	123	128
25	2045	0	123	128
26	2046	0	123	128
27	2047	0	123	128
28	2048	0	123	128
29	2049	0	123	128
30	2050	0	123	128

Table B-8 Annual Emissions from Construction, Drilling, and Completion Activities

Project Year	Calendar Year	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	2020	20.5	32.7	0.9	1.3	0.5	1.3
1	2021	440.4	376.8	3.8	81.5	20.6	26.5
2	2022	462.9	388.0	4.9	102.5	23.3	26.5
3	2023	546.8	433.3	4.6	265.7	43.5	37.1
4	2024	751.7	815.3	4.9	324.3	60.7	107.2
5	2025	335.3	493.2	2.4	324.6	50.3	82.0
6	2026	284.7	298.1	3.9	292.2	43.6	63.3
7	2027	240.3	261.2	2.6	388.1	50.4	51.0
8	2028	129.3	152.8	0.6	187.1	26.4	38.7
9	2029	112.8	143.0	0.5	292.1	36.0	36.8
10	2030	0.0	0.0	0.0	0.0	0.0	0.0
11	2031	0.0	0.0	0.0	0.0	0.0	0.0
12	2032	0.0	0.0	0.0	0.0	0.0	0.0
13	2033	0.0	0.0	0.0	0.0	0.0	0.0
14	2034	0.0	0.0	0.0	0.0	0.0	0.0
15	2035	0.0	0.0	0.0	0.0	0.0	0.0
16-30	2036-2050	0.0	0.0	0.0	0.0	0.0	0.0

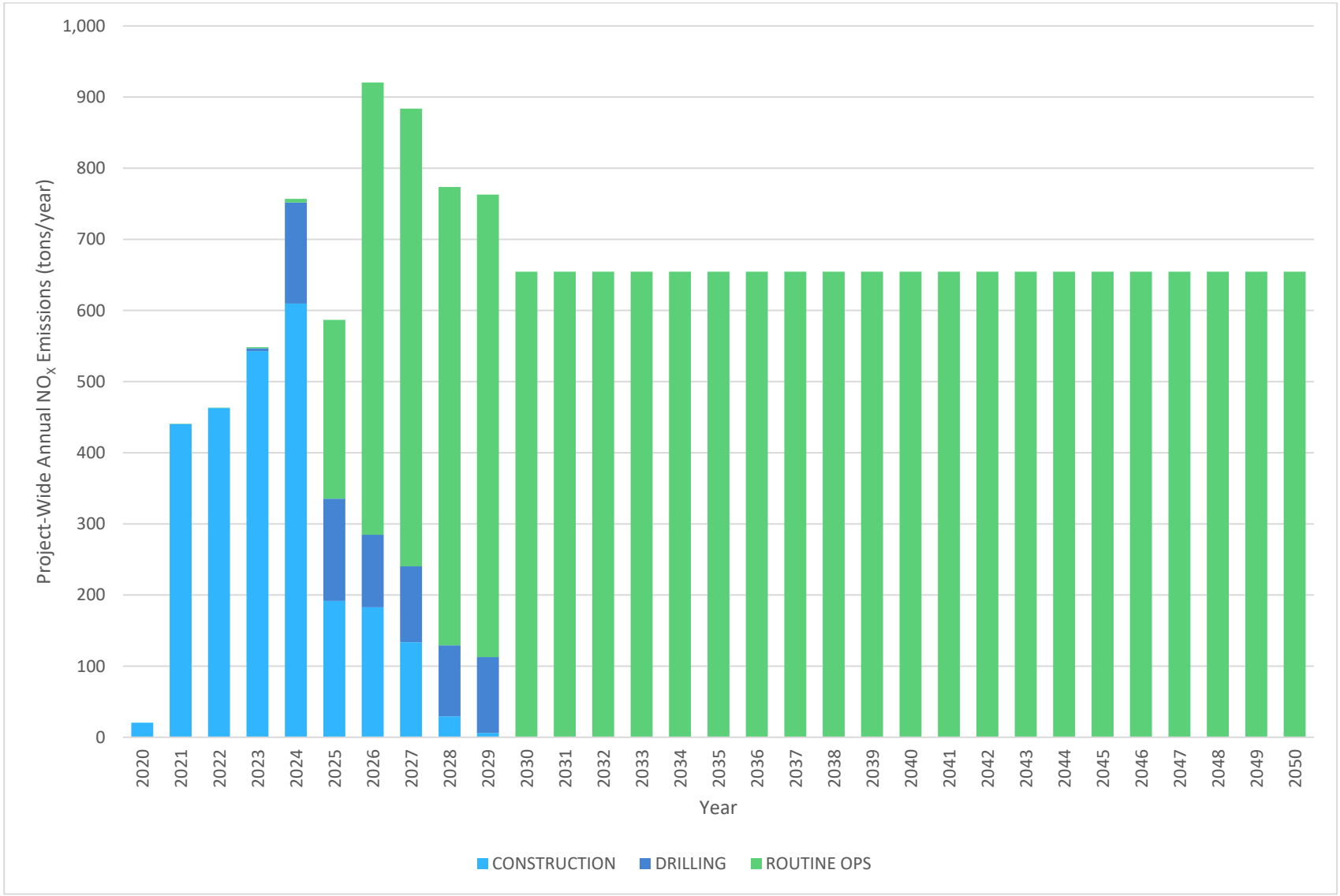


Figure B-1a Bar Chart of Annual Emissions for Each Phase of Development for NO_x

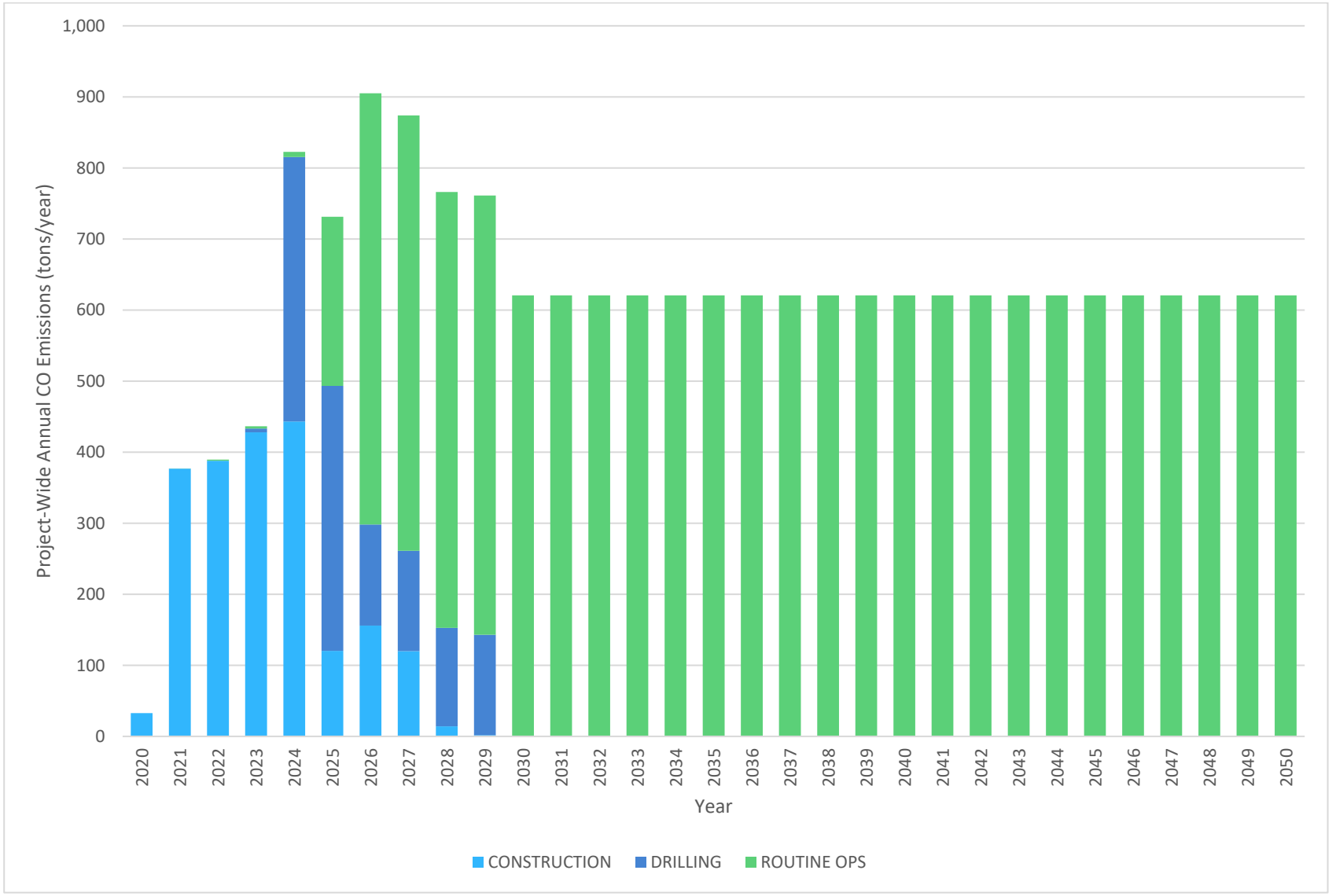


Figure B-1b Bar Chart of Annual Emissions for Each Phase of Development for CO

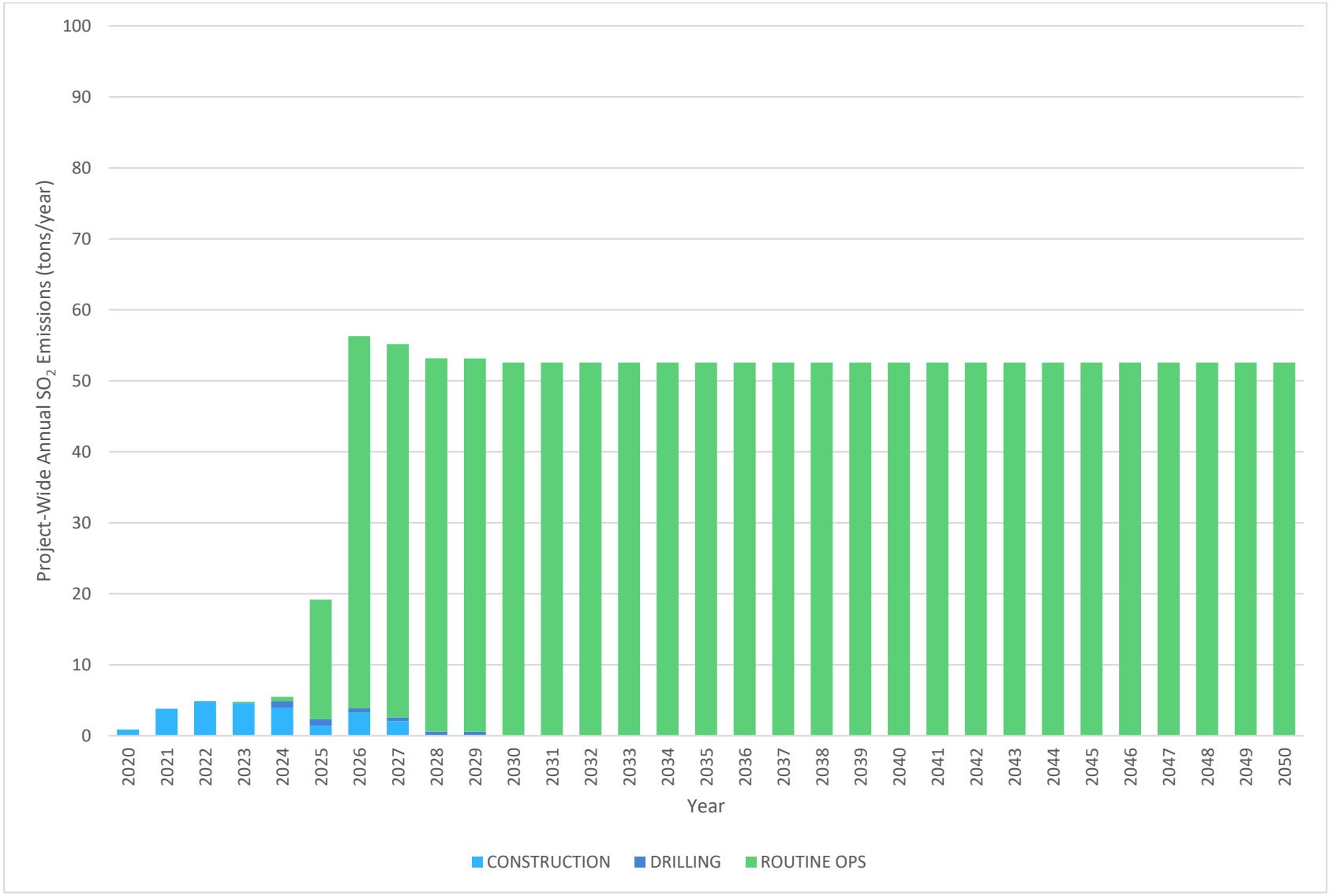


Figure B-1c Bar Chart of Annual Emissions for Each Phase of Development for SO_2

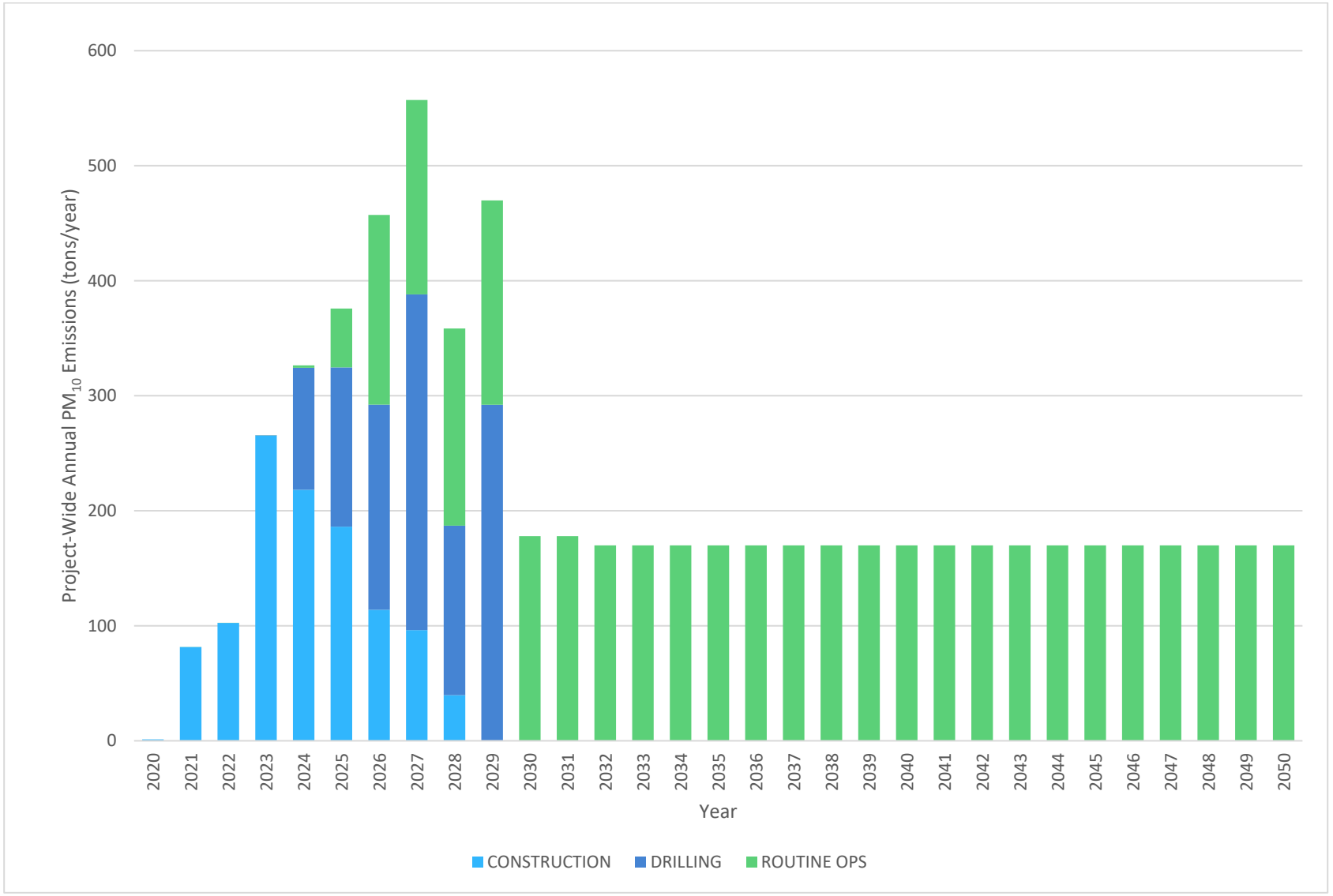


Figure B-1d Bar Chart of Annual Emissions for Each Phase of Development for PM_{10}

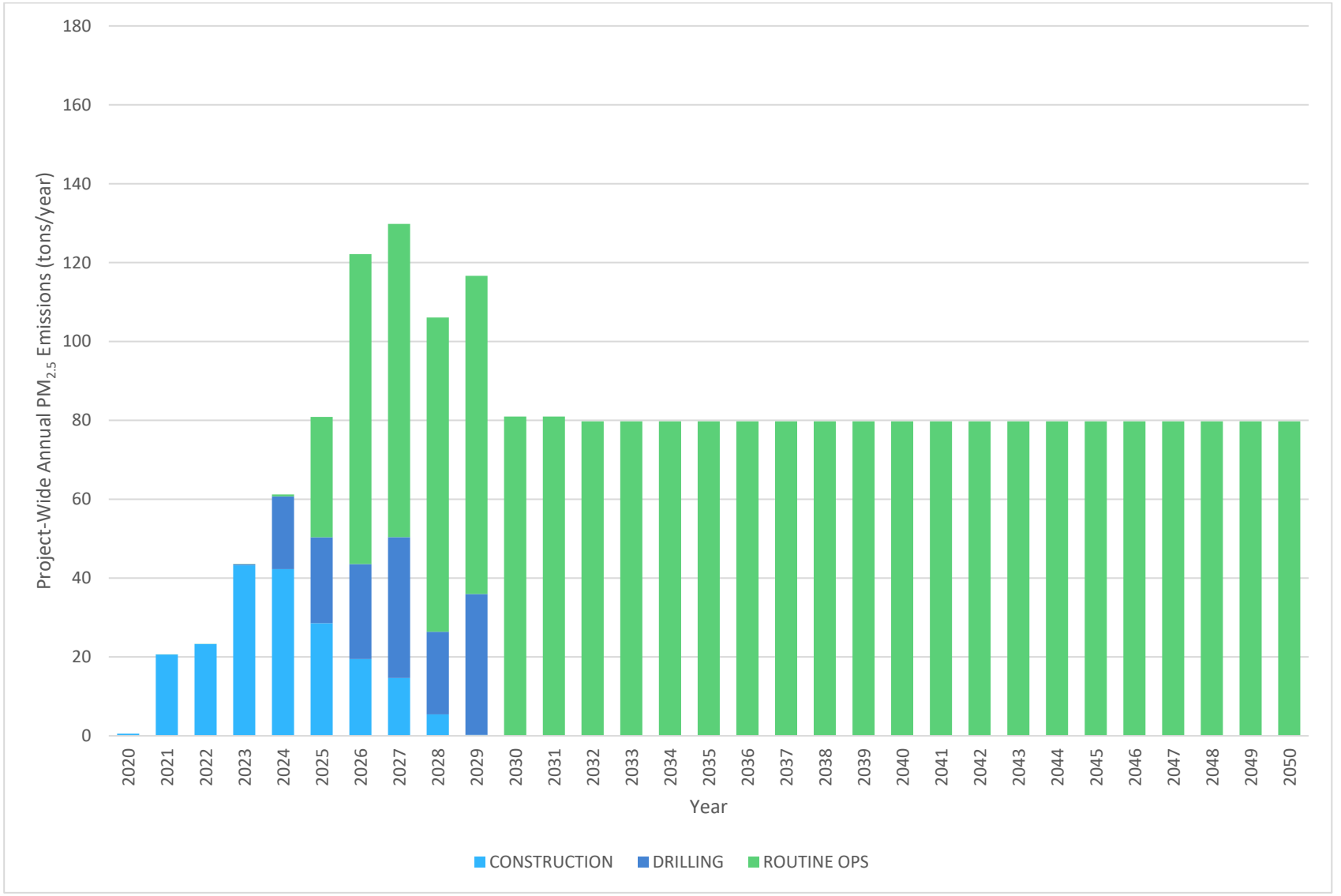


Figure B-1e Bar Chart of Annual Emissions for Each Phase of Development for $PM_{2.5}$

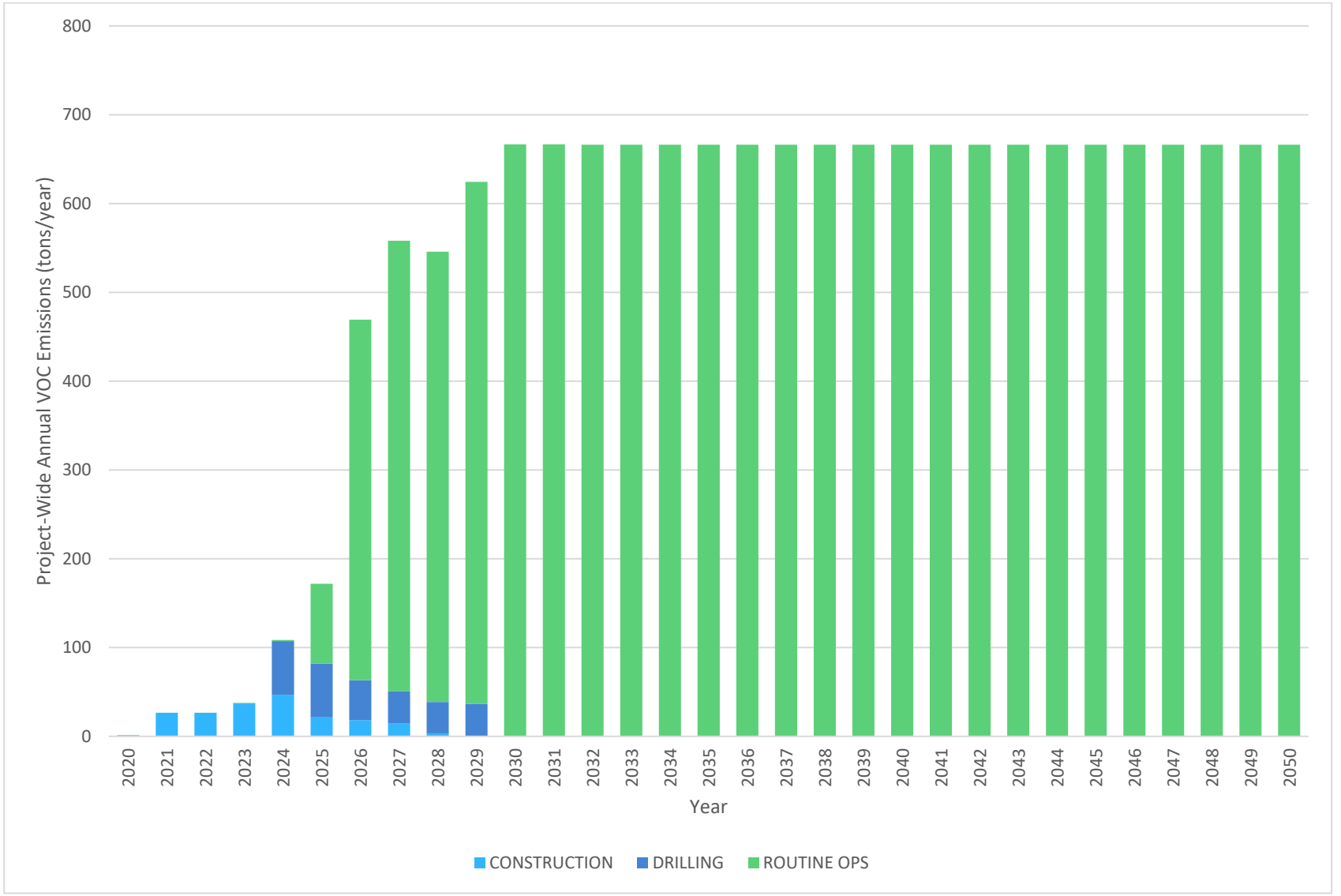


Figure B-1f Bar Chart of Annual Emissions for Each Phase of Development for VOC

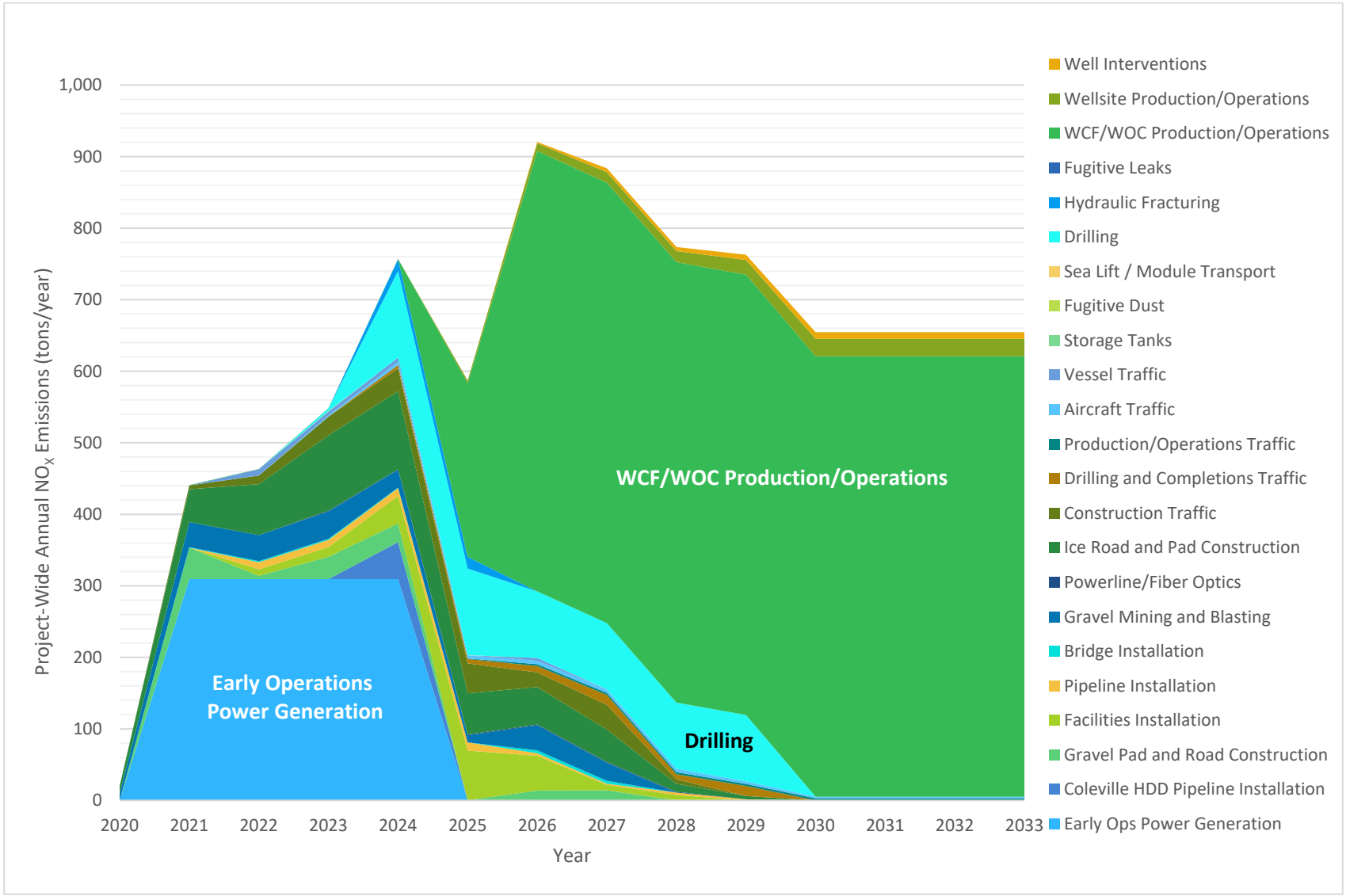


Figure B-2a Emissions by Source Type and Year for Alternative B – Option 3 for NO_x

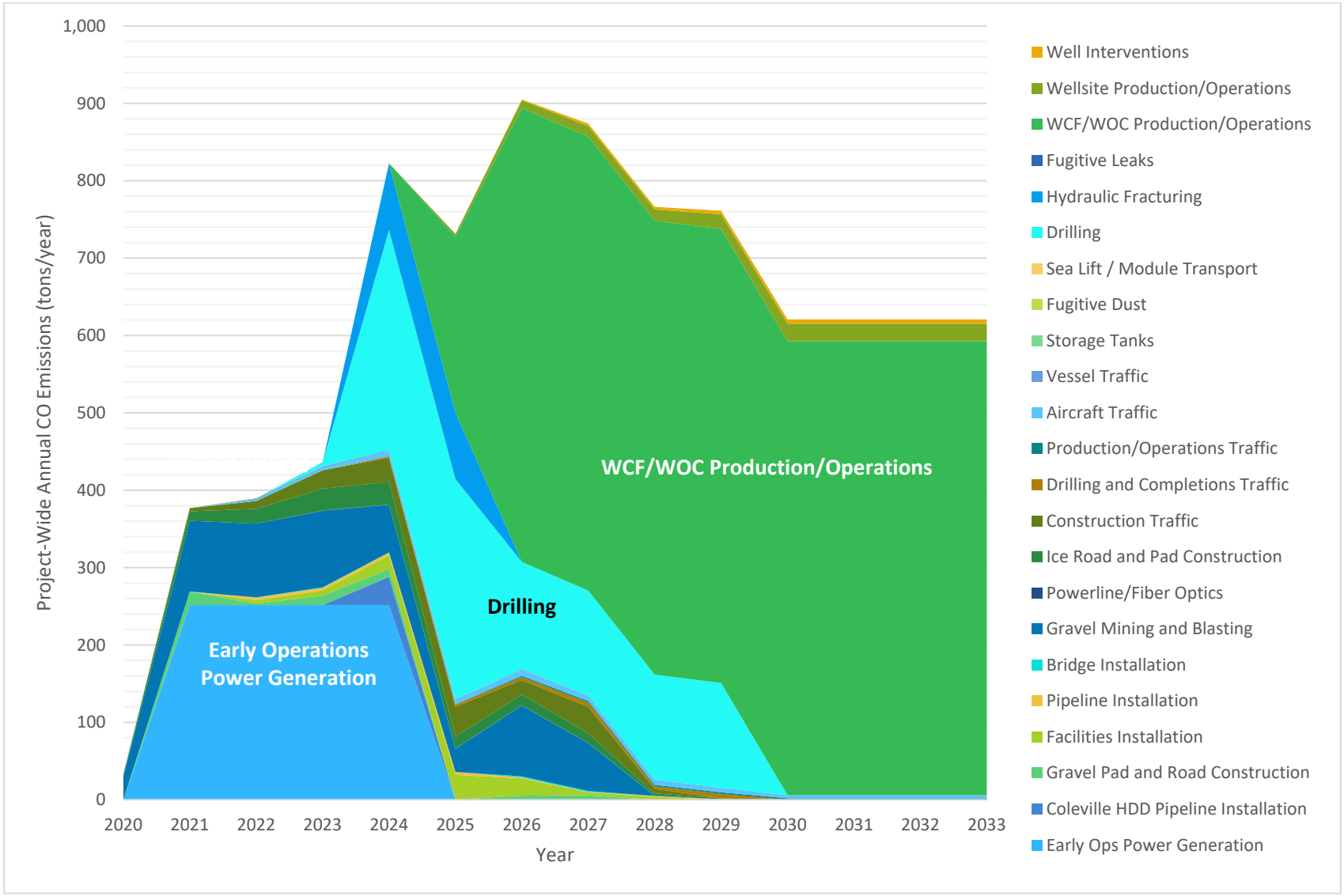


Figure B-2b Emissions by Source Type and Year for Alternative B – Option 3 for CO

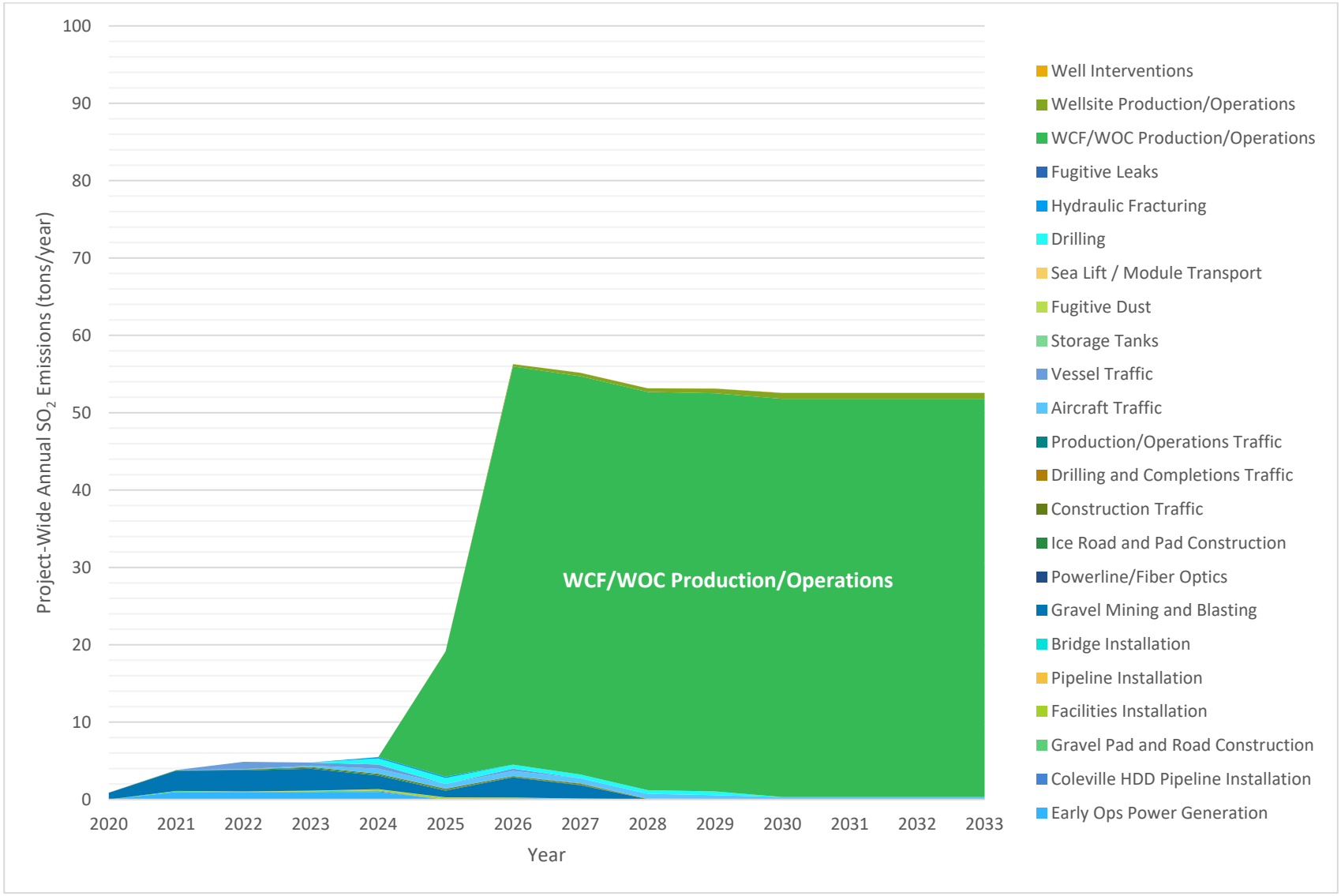


Figure B-2c Emissions by Source Type and Year for Alternative B – Option 3 for SO_2

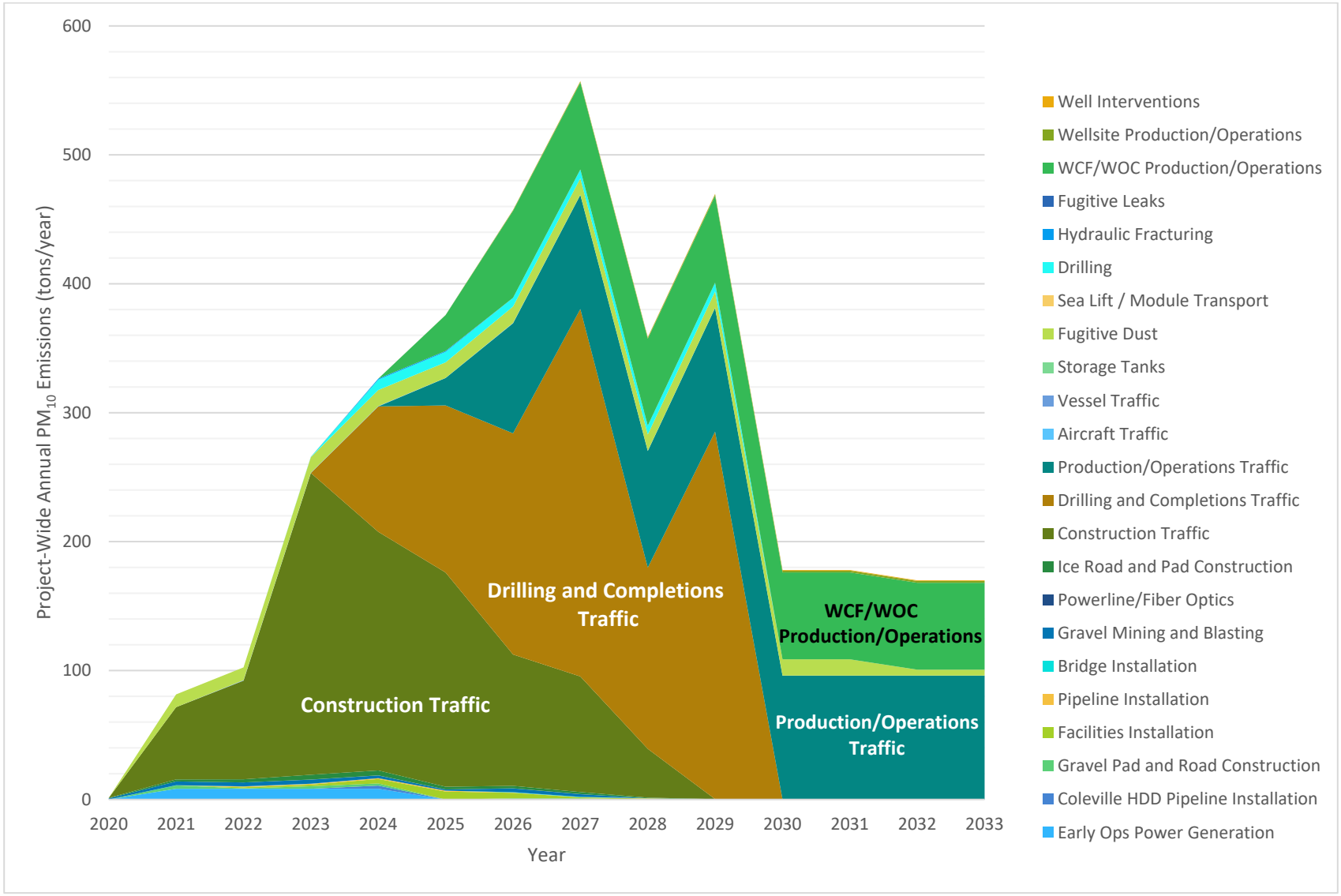


Figure B-2d Emissions by Source Type and Year for Alternative B – Option 3 for PM_{10}

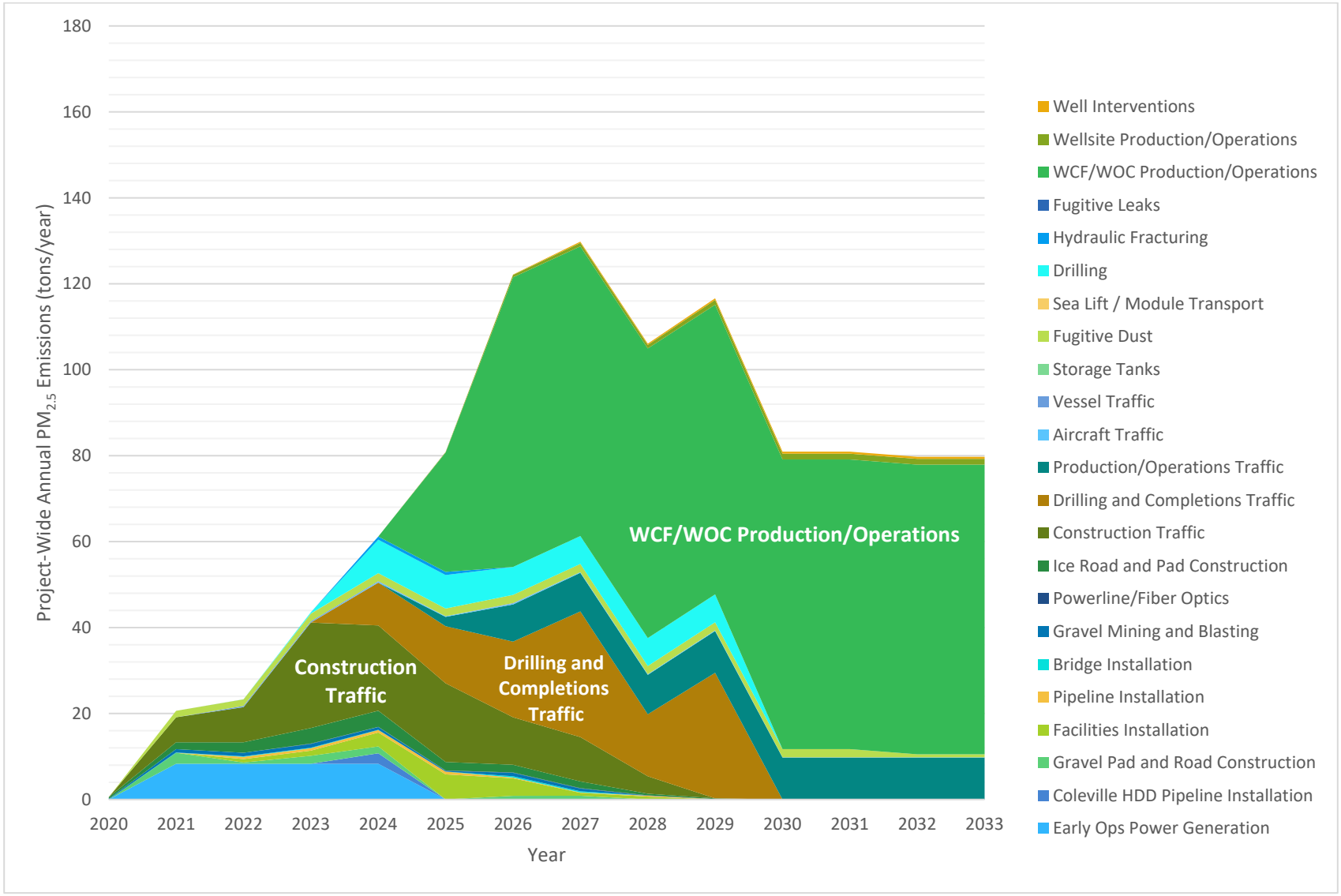


Figure B-2e Emissions by Source Type and Year for Alternative B – Option 3 for $PM_{2.5}$

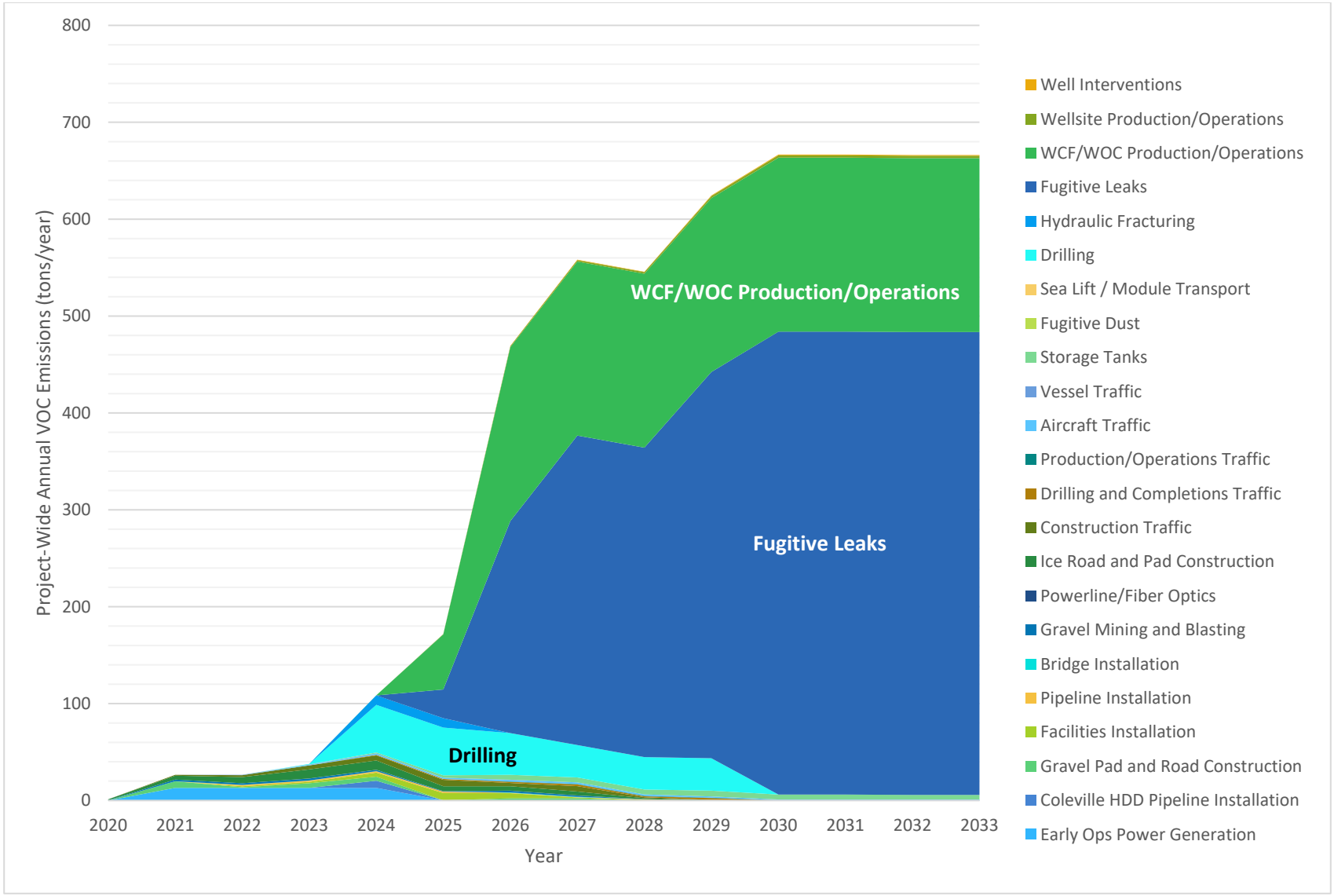


Figure B-2f Emissions by Source Type and Year for Alternative B – Option 3 for VOC

Appendix C

Project Emissions Inventory

The emissions inventory is electronically enclosed as a set of Microsoft Excel spreadsheets. These spreadsheets are organized as described in **Table C-1**.

Table C-1. Organization of Emissions Calculation Spreadsheets Electronically Enclosed

Spreadsheet(s)	Description of Contents
Willow_AltB_Emissions_Summary.xlsx Willow_Option3_Emissions_Summary.xlsx Willow_AltB_Option3_Emissions_Summary.xlsx	Overall summary of monthly emissions by pollutant for Alternative B only, Option 3 only, and for the entire development project combined for Alternative B and Option 3, respectively.
Willow_AltB_EI-Construction-BT1.xlsx Willow_AltB_EI-Construction-BT2.xlsx Willow_AltB_EI-Construction-BT3.xlsx Willow_AltB_EI-Construction-BT4.xlsx Willow_AltB_EI-Construction-BT5.xlsx	Construction-related emissions calculations for each of the five Willow drillsites (BT1 through BT5).
Willow_AltB_EI-Construction-WCF+WOC+Airstrip.xlsx	Construction-related emissions calculations for the WCF, WOC, and Willow Airstrip.
Willow_AltB_EI-General Activities.xlsx	Emissions calculations for a variety of activities occurring throughout the development, at multiple undefined locations, or outside the development. These types of activities include certain aspects of road, bridge, pipeline, and utility lines construction, vehicle traffic, drilling throughout the development, connected activities at the ACF, fugitive sources, and others.
Willow_AltB_EI-Non-Construction-BT1.xlsx Willow_AltB_EI-Non-Construction-BT2.xlsx Willow_AltB_EI-Non-Construction-BT3.xlsx Willow_AltB_EI-Non-Construction-BT4.xlsx Willow_AltB_EI-Non-Construction-BT5.xlsx	Routine operations and drilling-related emissions calculations for each of the five Willow drillsites (BT1 through BT5).
Willow_AltB_EI-Non-Construction-WCF+WOC+Airstrip.xlsx	Routine operations-related emissions calculations for the WCF, WOC, and Willow Airstrip.
Willow_EI-NSA_General Acitivities_Option3.xlsx Willow_EI-NSA+Sealift_Option3.xlsx	Emissions calculations related to construction for infrastructure improvements, sealift, and ground module transport to the Willow Development.

Attachment D

Willow Emissions Inventory Report for Alternatives C and D and for Module Delivery Options 1 and 2

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1.0 INTRODUCTION AND PURPOSE

The Willow Master Development Plan (Willow MDP, or simply 'Project') is an oil and natural gas development project proposed by ConocoPhillips Alaska, Inc. (CPAI). The CPAI notified the Bureau of Land Management (BLM) that they propose to explore and develop hydrocarbon resources from oil and gas leases owned by CPAI within the Northeast Planning Area of the National Petroleum Reserve – Alaska (NPR-A). The Willow MDP Environmental Impact Statement (EIS) addresses a series of infrastructure components for oil and gas development in the NPR-A. CPAI may submit permit applications for up to five drill sites, a central processing facility, an infrastructure pad, gravel access roads, an airstrip, module delivery via sealift barges, import/export pipelines, and gravel mine sites on federal land in the NPR-A. The construction and operation of these facilities require permits from BLM. CPAI's Willow MDP Environmental Evaluation Document[1] (EED) includes additional information describing the proposed Project.

CPAI's purpose for the proposed Project is the economic production and transportation to market of oil and gas resources from Bear Tooth Unit (BTU), while protecting important surface resources and ensuring safe operations. To serve this purpose, CPAI needs permit approval to enable construction of drill sites, access and infield roads, pipelines, a processing plant, and other ancillary facilities. The Willow MDP would produce multiphase product (oil, gas, and water) that would be carried by pipeline to new processing facilities at the Willow Processing Facility (WPF). Pipelines would tie into existing pipeline infrastructure at a tie-in pad near Colville Delta 4 North (CD4N), the Alpine Central Facility (ACF), and the Kuparuk River Unit Central Processing Facility 2 (CPF2). From the tie-in point, sales-quality crude oil would be transported to the Kuparuk Sales Pipeline and to the Trans-Alaska Pipeline System (TAPS) for shipment to market.

In compliance with the National Environmental Policy Act (NEPA), the BLM evaluates a range of alternatives and analyzes and discloses the environmental effects of the alternatives. For the Willow MDP, the BLM has developed four alternatives and three options related to the Module Delivery[2]:

- Alternative A (No Action)
- Alternative B (Proponent's Project)
- Alternative C (Disconnected Infield Roads)
- Alternative D (Disconnected Access)
- Module Delivery Option 1 (Atigaru Point Module Transfer Island [MTI])
- Module Delivery Option 2 (Point Lonely MTI)
- Module Delivery Option 3 (Colville River Crossing)

Action alternatives (B, C, and D) presented in the Final EIS include variations on specific Willow MDP components such as project access. Any of the three module delivery options could be combined with any of the action alternatives to provide the modules for the Project.

This report documents emission inventories for Willow MDP Alternative C and Alternative D and for the Atigaru Point and Point Lonely module delivery options. The emission inventory for the Alternative B, including Colville River Crossing (Oliktok Dock) Option 3, is documented in AECOM (2020)[3]. The main difference between the Alternative B and Alternative C is that Alternative C does not include a gravel

[1] CPAI. 2019. Environmental Evaluation Document (Revision No. 3): Willow Master Development Plan. Anchorage, AK.

[2] Project modules would be transported to the vicinity of the Project Area by sea barge in the summer and stored until winter when the modules can be transported to the Project area over ice road. The exact location and method to store the modules are not yet finalized. Three module delivery options are assessed as part of the analysis and either option could be selected for any of the analyzed action alternatives.

[3] AECOM, 2020. Willow Development Emissions Inventory Report Alternative B – Option 3. April, 2020.

road connecting drill site BT1 and the WPF, resulting in different schedule and infrastructure requirements for Alternative C compared to Alternative B. The main difference between the Alternative B and Alternative D is that Alternative D does not include a road corridor providing access to the Project area from the GMT2 development to the east of the Project, resulting in different schedule and infrastructure requirements for Alternative C compared to Alternative B.

Emissions from each module delivery option are expected to be identical for Alternative B and Alternative C. Therefore, the Module Delivery Option 1 and 2 emission inventories presented in this report for Alternative C are also applicable to Alternative B and the Module Delivery Option 3 emission inventory presented in AECOM (2020) is applicable to Alternative C. Alternative D emissions from each module delivery option are expected to be identical to Alternatives B and C, except there would be a one year delay in emissions for Alternative D compared to Alternatives B and C.

Three module delivery options are available for delivery of large modules to the project area under each project alternative, as listed above. Under Option 1, the Atigaru Point MTI would be constructed in State of Alaska waters in Harrison Bay. Under Option 2, Point Lonely MTI would be constructed in State of Alaska waters north of Point Lonely. Under Option 3, the existing Oliktok Dock would be used and no MTI would be constructed.

Many features are identical between Alternative B and Alternatives C and D; therefore, many descriptions of Alternative C and D features are identical to the language in the CPAI/AECOM report (AECOM, 2020)[3]. Similarly, the overall emission calculation methodology is the same for Alternative B and Alternatives C and D; therefore, descriptions of Alternatives C and D emission calculation methodology is the same as AECOM, 2020.

2.0 ALTERNATIVE C PROJECT DESCRIPTION

Alternative C would have the same gravel access road between GMT2 and the Project area as Alternative B but would not include a gravel road connection from the Willow WPF to drill site BT1. Alternative C includes five drill site locations to develop the Project area oil resources, an on-site WPF, two Willow Operations Centers (WOC) containing project support facilities (one each for north drill site [BT1, BT2, and BT4] and south drill sites [BT3 and BT5]), and an airstrip with an apron located near to each WOC. Access to the Project area from GMTU and to proposed drill sites from the WPF and the WOC would be via gravel roads and would include six bridge crossings. Access to the Project area would also be provided by air using fixed wing aircraft and helicopters from the Project area airstrips near the North WOC and South WOC. Similar to Alternative B, Alternative C includes module delivery via sealift barge and staged mobilization of modules to the Project area by existing gravel roads and ice roads.

Similar to Alternative B, Alternative C includes infield pipelines to transport produced fluids from drill sites to the WPF and an oil export pipeline, the Willow Pipeline, to transport sales-quality crude oil from the WPF to a tie-in point with the Alpine Pipeline near Colville Delta 4 North (CD4N). Other support pipelines include a seawater pipeline, diesel pipeline, and freshwater pipeline. Gravel valve pads would be constructed at pipeline crossing locations over Judy Creek and Fish Creek. All pipelines would be parallel to proposed or existing gravel roads, except for approximately 4 miles of pipeline between WPF and BT1.

Similar to Alternative B, Alternative C includes development of new gravel mines in the Tiŋmiaqsiuġvik Area to support project construction. An overview and graphical depiction of Alternative C, including road routing, pad location, gravel mine sites, and module delivery options (MDOs) is provided in the Willow MDP EED[1].

2.1 Construction

Under Alternative C, the Willow Development would be constructed on a nine-year construction schedule beginning in late 2020 and completing in 2029. This nine-year period will include construction of five drill sites, the WPF, North WOC and South WOC, airstrip, gravel access roads, pipelines, communications facilities, living quarters, and other infrastructure to support long-term operations. Temporary facilities would also be constructed and operated including a gravel mine, MTI, seasonal ice roads, single-season and multi-season ice pads, and temporary camp facilities for worker housing to support construction activities

2.1.1 Gravel Sourcing

A total of approximately 5.8 million cubic yards of material will be required to fill approximately 506 surface acres for the Willow Development under Alternative C, not including module delivery options (CPAI, 2019). Additionally, approximately 0.4 million cubic yards of material will be required to fill approximately 13 surface acres for either module delivery option 1 or 2. This gravel would be sourced from two mine sites with a maximum final mine pit disturbance area of approximately 150 acres in the Tiŋmiaqsiuġvik Area over seven winter construction seasons. Blasting is required to loosen material from the gravel source, and heavy equipment is required to remove the material. After blasting, these materials will be removed in multiple lifts. The mine site excavation would take place in three separate removal activities: (1) removal of organic materials; (2) removal of inorganic overburden; and (3) removal of suitable gravel material in approximately 20-foot lifts. Initial lifts will be for the removal of overburden, which will be stockpiled adjacent to the pit on a seasonal ice pad. Subsequent lifts will supply the gravel for the project. In addition to blasting, gravel sourcing would be conducted with a

variety of diesel-fired nonroad equipment, such as crushers, dozers, drills, excavators, light plants, loaders, air compressors, trimmers, water pumps, and welders, as well as mobile support equipment. When gravel extraction is complete, the site will be rehabilitated, and stockpiled overburden will be backfilled to contour the mined pit into a natural habitat.

2.1.2 Ice Road and Ice Pad Construction

Ice roads would be used primarily during construction to support gravel infrastructure and pipeline construction, for lake access, and to access the selected gravel source(s). Single-season and multi-season ice pads would be used to house construction camps, stage construction equipment or materials, and support other construction activities. Ice road construction is dependent upon ground temperature and precipitation (i.e., sufficient snow for pre-packing of routes) and typically begins in November or December. The annual ice road season for the Willow Development is expected to be 90 days long, from the end of January through the end of April each year (CPAI, 2019).

Ice roads and pads are constructed by smoothing or compacting the snow surface and/or placing water or ice on the ground surface. Then, water trucks apply water over the route or location until the ice pad or road surface is built up to the desired thickness. Ice roads are marked with stakes to facilitate driving and assist with snow removal. Ice roads and pads are maintained throughout the ice road season by monitoring for litter, contamination, and degradation and cleaning or repairing, as necessary. All stakes and contamination are cleared when the ice road or pad is closed for the season. Multi-season ice pads are constructed similarly to single-season ice pads, with compacted snow over a base layer of ice, except they also include a vapor barrier and foam insulation to prevent melting. Ice road and ice pad construction is conducted with a variety of diesel-fired nonroad equipment, such as graders, loaders, pumpers, snowblowers, light plants, and trimmers, as well as on-road mobile support equipment.

2.1.3 Gravel Road and Pad Construction and Facilities Installation

After gravel extraction, gravel is transported from the mine or storage location via off-road belly dump B70 haul trucks and placed during winter construction seasons (CPAI, 2019). Other diesel-fired nonroad equipment, including graders and compactors, are used to place the gravel during the winter, but also to work the gravel to melt remaining frozen materials and compact the gravel and create road and pad surfaces during the summer season following gravel placement.

2.1.4 Bridge and Culvert Construction

Multiple bridges would be constructed to allow for road access throughout the Willow Development. Multi-span bridges are constructed on steel pile pier groups, made up of sets of four pilings positioned approximately 40 to 70 feet apart (CPAI, 2019). Shorter crossings will be traversed by single-span bridges or culvert batteries. All span-style bridges include sheet pile abutments for erosion protection at each end of the bridge. Estimated bridge crossings range from 40 to 420 feet in length . Bridges would be constructed during winter from ice roads and pads. Bridge construction is conducted with a variety of diesel-fired nonroad equipment, including cranes, loaders, drills, small generators, hammers, compressors, light plants, manlifts, and small heaters, as well as mobile on-road support equipment.

2.1.5 Pipelines and Supporting Infrastructure Construction

Infield pipelines within the Willow Development and import/export pipelines connecting the Willow Development to the Colville River and Kuparuk River Units would be constructed. Most of the pipeline would be constructed aboveground and supported on common horizontal support members (HSMs) that would be supported by vertical support members (VSMs) placed approximately 55 feet apart

across open tundra to protect permafrost (CPAI, 2019). VSMs are constructed by embedding a vertical steel pipe piling in holes drilled in the permafrost and adding a sand/water slurry surrounding the pipe pile to freeze it in place. VSMs would have a typical diameter of 12 to 24 inches and total disturbance footprint diameter of 18 to 32 inches for each pipe pile. Seasonal ice roads would be constructed to access right-of-ways for the construction of VSMs, pipelines, and other infrastructure suspended on VSMs, including fiber optic cables and power cables.

At Fish Creek bridge crossings, pipelines would be constructed on structural steel supports attached to the bridge girders, below the bridge deck. Gravel valve pads would also be constructed on each side of Fish Creek to isolate produced fluids pipelines and minimize potential spill impacts. At smaller steams, pipelines would be installed approximately perpendicular to the channel, with VSMs on each side of the crossing to avoid VSM placement in streams to the extent practicable.

VSMs are constructed using primarily nonroad engines and equipment, including drills, trenchers, loaders, and cranes, as well as on-road mobile support equipment. Similarly, pipelines, powerlines, and fiber optic cables are suspended from VSMs using a variety of diesel-fired nonroad equipment, such as compressors, derrick and telescoping cranes, side boom cranes, small generators, light plants, loaders, manlifts, drills, and small heaters, as well as on-road mobile support equipment.

All pipelines crossing the Colville River would be installed by boring beneath the river using horizontal directional drilling (HDD). The HDD process would involve drilling a borehole under the river that is large enough to accommodate the pipeline casing. This operation is supported by diesel-fired nonroad equipment, including generators, air compressors, winches, cranes, and small heaters and boilers. Throughout the process of drilling and enlarging the hole, a slurry made of naturally occurring nontoxic materials (typically bentonite clay and water), would be circulated through the drilling tools to lubricate the drill bit, remove drill cuttings, and hold the hole open. Pipelines and casing sections would be staged and welded together to form segments long enough to span the entire crossing (the pull string) on the exit side of the HDD crossing. Once the borehole is ready, the completed casing and pipelines are pulled back through the drilled hole using nonroad equipment. The Willow HDD would be completed during the winter construction season using adjacent ice pads to stage equipment and materials. Two new gravel pads would be constructed adjacent to the existing Alpine Pipeline HDD where the pipelines transition from above ground to below ground on either side of the river.

2.1.6 WPF/Drillsite Module Sealift and Delivery Options

For Alternative C, the modules comprising the processing facilities at the WPF and drill sites would be delivered to the North Slope by sealift barges during two open water seasons (ice-free periods) in 2024 and 2026 (CPAI, 2019). Barge offloading is proposed at a new MTI in State of Alaska-owned waters near Atigaru Point or Point Lonely. Sealift modules would be staged on the MTI until winter and then transported to the WPF via Self-Propelled Modular Transporters driven over the water and land on ice roads. A camp would be staged near the MTI to support these activities. Modules for the WPF and drill sites BT1 through BT3 would be delivered during the summer of 2024 sealift. Modules for the drill sites BT4 and BT5 would be delivered during the 2026 sealift.

The MTI would be built through placement of gravel fill in approximately 8 to 10 feet of water to a height of approximately 13 feet above Mean Lower Low Water (MLLW). The MTI would include a 600-foot-square (8-acre) gravel work surface formed by grading and compacting similar to other gravel pads construction. At the end of the island service life, all gravel slope protection materials and other anthropogenic materials would be removed from the island, and the island would be reshaped naturally by waves and ice.

2.1.7 Construction Camp Facilities

Per (CPAI, 2019), various camps would be utilized to house workers throughout the nine-year construction period as described below:

- Existing camps, including the Kuukpik Pad Camp, Alpine Operations Camp, Sharkstooth Camp and Kuukpik Hotel near Nuiqsut, as well as temporary camps near and on the North and South WOC and the near the MTI
- Permanent Willow Camps at the North and South WOC.
- Temporary camps to support drilling would be located at each of the drill sites or the WOC.
- Temporary construction camps near the WOC in 2021 and near the MTI in 2022 to 2023 would be powered by diesel-fired generators. Temporary construction camps on the North and South WOC would be electrically powered by a multi-purpose power plant located at the North and South WOC. That power plant would utilize liquid-fired turbines for power generation. The Willow Camp would be permanently switched over to electricity generated by the WPF once the facility comes online.

2.2 Drilling

Per CPAI (2019), similar to Alternative B, 251 wells would be constructed throughout the Willow Development at five drill sites for Alternative C. Wells will be approximately evenly split between production and injection wells. Multi-phase (oil, gas, and water) fluids will be gathered from production wells and sent for processing at the WPF. Injection wells will be used to inject gas, produced water, seawater, and miscible injectant (MI) back into the producing formation to maintain formation pressure and as part of enhanced oil recovery. Similar to Alternative B, it will take approximately 15 to 30 days to drill each well and conservatively plans to drill all wells consecutively beginning in 2024 with the BT1 Drill site. Pre-drilling activities would allow the WPF to be commissioned immediately following WPF construction by timing completion of a sufficient number of wells to provide the minimum fluid rates to commission the pipelines and facility. Pre-drilling eliminates a 1- to 2-year delay between construction and production of first oil. Assuming the use of two drill rigs continuously operating throughout the development, drilling would be complete by 2029.

Drilling is conducted with a drill rig containing electrically powered drill rig draw-works, top-drive, and pumps with heat supplied by diesel-fired air heaters and boilers. The drilling operation will be supported by small portable diesel-fired nonroad equipment, mobile equipment, and temporary storage tanks at the drill sites. The approximate 3.5-megawatt (MW) single drill rig electrical demand (approximately 7 MW for 2 drill rigs) can be satisfied by diesel-fired reciprocating engine-powered generators, certified USEPA Tier 4f, that travel with the drill rig or highline power generated at the WPF. Similar to Alternative B, drilling operations will be conducted predominantly on highline supplied electrical power throughout the life of project whenever possible. However, highline power may not be available for a period of time during construction before permanent power infrastructure is commissioned. There would be a short period of time when power for the drill rigs is supplied by diesel-fired reciprocating engines only until highline electrical power is available. After that, diesel-fired engines that travel with the drill rig will be used as back-up if highline power is temporarily unavailable. All other portable support equipment will typically be powered by diesel fuel.

After a well is drilled, it needs to be completed. To complete a production well, it sometimes is first hydraulically fractured, then it undergoes a well cleanout process known as a flowback. During the flowback, fluids and solids present in the well bore as part of the drilling and completion process are allowed to flow from the well until the fluids produced from the well are no longer contaminated with excessive solids or drilling fluids. Liquids and solids produced during the flowback are placed in

portable tanks for disposal and gas is captured, flared, or vented depending on infrastructure availability. Immediately following the construction of each drill site, there will be a period of time before permanent infrastructure is in place to handle gas from flowbacks. Similar to Alternative B, if the infrastructure is not in place, any gas from flowbacks will be routed to a portable flare located at the drill site. Once permanent facilities are available (pipelines and WPF), gas from flowbacks will be routed to the WPF and processed. Consistent with Alternative B, it is assumed that all production and injection wells could be hydraulically fractured as part of the completion process. This would equate to hydraulically fracturing all 251 wells throughout the development.

Hydraulic fracturing in the Willow Development would be hydraulic fracturing of conventional resources which is intended to counter formation damage and stimulate and maximize recovery of resources. This is a very different purpose than hydraulic fracturing unconventional shale formations. Hydraulic fracturing of a well at Willow will be conducted in stages and to various depths by pumping proppant, made of water, sand, and chemical additives, at high pressure into a well drilled to create small length fractures in the formation in the immediate vicinity of the wellbore.

Hydraulic fracturing is expected to be conducted using 5 to 10 pumps powered by electric motors or engines (nonroad engines), certified USEPA Tier 4f for generator sets. When powered by engines, the engines will run at high loads for short periods of time and idling or operating at low loads the remainder of the process. Similar to Alternative B, hydraulic fracturing operations would be predominantly conducted using highline supplied electrical power throughout the life of project whenever possible; however, there may be a short period of time during construction when the hydraulic fracturing unit operates on diesel only until highline electrical power is available. A typical frac operation for the Willow Development is expected to take approximately 6 days per well. These operations may also be supported by small nonroad engines and/or portable heaters, as necessary.

2.3 Operations

2.3.1 Willow Processing Facility

The WPF would primarily consist of facilities necessary to generate power for the Willow Development, dehydrate and compress gas for fuel and reinjection, pump and inject seawater and produced water to the subsurface as part of pressure maintenance/water flood for secondary recovery, and separate and process production fluids and deliver sales-quality crude oil. Fluid separation and processing occurs through pressure drops, gravity separation, and heating followed by distillation and includes the production of sales-quality crude, produced water, and MI for enhanced oil recovery. Produced natural gas would be (1) used to fuel plant and facility equipment, (2) re-injected into a producing formation to maintain reservoir pressure and increase recovery, and/or (3) used for gas lift. Under plant startups, shutdowns, and upset conditions, natural gas may be flared. A simplified process flow diagram for major systems is presented in Enclosure D.1.

Per CPAI (2019), WPF power generation and processing equipment would include:

- Emergency shutdown equipment
- Gas turbine generators
- Compressors
- Gas strippers
- Gas treatment facilities
- Heat exchangers
- Separators
- Stabilizer unit

- Flare system
- Utility systems (i.e., heating glycol, nitrogen, etc.)
- Oil producing vessels
- Pumps
- Pigging facilities
- Metering facilities
- Electrical equipment
- Fuel supply storage tank(s) and an associated fueling station
- A tank farm, which could include methanol, sales oil or off-spec crude, crude flowback fluids, scale inhibitor, emulsion breaker, corrosion inhibitor, and minor volumes of other chemicals as required for operations
- Warm storage facilities for equipment

Per CPAI (2019), additional equipment would be required to accommodate production from GMT2:

- Electrically driven booster compressor to increase gas pressures for injection into the deeper Jurassic GMT2 reservoir.
- Electrically driven booster pump to increase injection water pressures for injection into the deeper Jurassic GMT2 reservoir.
- Additional metering equipment required for independent measurement of injection fluids departing from the WCF to GMT2, as they would cross the GMTU-BTU unit boundary.

At various times throughout the Willow Development's producing lifetime, temporary modules, maintenance buildings, pipelines, and other structures may be used at the WPF to address short-term needs. See the Willow MDP EED (CPAI, 2019) for the proposed WPF layout.

Refer to the "INPUTS" tabs in the "Willow AltC EI-Non-Construction-WPF+IP+Airstrip.xlsx" spreadsheet referenced in Enclosure D.6 for sizing and major equipment assumptions for fuel burning equipment.

2.3.2 Willow Drill sites

Each drill site has been sized and designed to accommodate all drilling and operations facilities, wellhead shelters, drill rig movement, drilling material storage, and well work equipment. Each drill site could accommodate 40 to 70 wells at a 20-foot wellhead spacing. Per CPAI (2019), additional typical drill site facilities include:

- Emergency shutdown equipment
- Fuel gas treatment equipment
- Well test and associated measurement facilities
- Electrical and instrumentation control equipment
- Pig launchers/receivers
- Chemical injection facilities (including tanks, containment, small pumps, and exterior tank fill connection)
- Production heater and associated equipment
- Spill response equipment containers
- Communications infrastructure, including a tower up to 200 feet high
- High-mast lights
- Temporary tanks to support drilling and well work operations
- Production operations storage tanks

- Production operations stand-by tank (normally empty)
- Transformer platforms (oil-insulated)
- Pipe racks and/or manifold piping/valves

All equipment described above, with the exception of the production heater and back-up power generation, is electrically powered, with power supplied from the WPF via cable run along the pipeline corridor. The production heater is powered by fuel gas, and its purpose is to heat the multiphase production fluids (oil, water, and gas) prior to shipment to the WPF for processing. Any back-up power generation installed at the drill sites would be diesel-fired reciprocating engine-powered generators, expected to meet USEPA Tier 4i emissions standards for non-generator sets or better.

Wells would be grouped into two general categories: producers and injectors. The production wells would generate the field's multi-phase production while the injector wells would be used to inject water (i.e., treated seawater and/or produced water that has been processed at the WPF) and/or gas into the producing formation(s) to maintain reservoir pressure. See the Willow MDP EED for a typical drill site layout.

Refer to the "INPUTS" tabs in the "Willow AltC EI-Construction-BT*.xlsx" spreadsheet referenced in Enclosure D.6 for fuel burning equipment assumptions for the Willow drill sites.

2.3.3 Willow Operations Center

Unlike in Alternative B, under Alternative C, the bases of operations for the Willow Development would be at a North WOC and South WOC. The South WOC would be near to but separated from the WPF, approximately 5 miles east of BT3. Separating the South WOC from the WPF is necessary to minimize risk to personnel by placing living quarters away from potential blast hazards associated with the WPF. The South WOC would also be adjacent to an airstrip. The North WOC and associated adjacent airstrip would be just west of BT2. See the Willow MDP EED for a typical layout of these facilities.

The North WOC and South WOC would contain accommodation and utility buildings and maintenance and storage facilities to support operations. Per CPAI (2019), these include:

- Permanent Willow Operations Camp facilities, including living quarters, offices, meeting rooms, dining facilities, a central control building, lab, medical clinic, and wellness facilities
- Wastewater and water treatment plants, water tanks, and chemical storage
- Freshwater storage tanks
- At least two Class I underground injection control disposal well(s) (Class I disposal well(s))
- Emergency Response Center, including spill response shop, fire department, and ambulance bay
- Essential and black start generators
- Craft maintenance shops and tool room
- Hazardous waste accumulation and storage
- Fleet maintenance shop
- Fabrication and weld shop
- Warehouse
- Storage tents
- Diesel and jet fuel tanks and pump skids
- Drilling shop and mud plant
- Municipal solid waste incinerator
- Staging areas
- Drilling and cuttings storage

- Operations and maintenance storage,
- Laydown space
- Rolling stock parking

Per CPAI (2019), the lack of gravel road connecting the northern and southern Willow MDP drill sites would require additional facilities for Alternative C compared to Alternative B. These include three Class I disposal wells at the North WOC and in addition to the two at the South WOC. The North WOC would also include a grind and inject facility, a mud plant, and additional maintenance shops. The South WOC would not include a mud plant to avoid construction of two mud plants in the field; instead, muds for the southern drill sites would be trucked to and from Alpine.

Under normal operations, all equipment and facilities described above will be electrically powered, except for the power generation, portable equipment, and incinerator. Any back-up power generation installed at the North WOC and South WOC would be diesel-fired reciprocating engine-powered generators, expected to meet USEPA Tier 4i standards for non-generator sets or better. In addition to permanent surface structures, temporary surface structures such as camps, offices, shops, envirovacs, connexes, fuel and chemical storage areas, and warehouses may be used at the North WOC and South WOC to support projects.

Information regarding fuel burning equipment associated with Willow infrastructure can be found in "INPUTS" tabs in the "Willow AltC EI-Non-Construction-WPF+IP+Airstrip.xlsx" spreadsheet referenced in Enclosure D.6.

2.3.4 Willow Pipelines

The Willow Development would include infield lines and import/export lines. Infield lines carry a variety of products, including produced fluids, produced water, seawater, miscible injectant, and gas, between the WPF and each drill site (including GMT2).

Import/export pipelines include the Willow sales-oil pipeline, a seawater pipeline, and a diesel pipeline (CPAI, 2019). The Willow sales-oil pipeline would carry sales-quality crude oil from the WPF to a tie-in with the Alpine Pipeline near CD4N. The seawater pipeline would import seawater from existing infrastructure in Kuparuk to the Project area. The diesel pipeline would transport Ultra Low Sulfur Diesel (ULSD) from the Kuparuk Central Processing Facility 2 (CPF2) to the South WOC and WPF via ACF. An additional freshwater pipeline would also transport fresh water from the primary freshwater sources to the WOC.

Infield lines would include the following pipelines connecting the WPF to each drill site:

- Produced fluids pipeline – produced multiphase fluids from each drill site to WPF for processing.
- Injection water pipeline – seawater or produced water transported from WPF for injection to support enhanced oil recovery.
- Gas pipeline – gas transported from WPF for artificial lift, pressure support, and fuel gas.
- MI pipeline – MI transported from WPF for injection to support enhanced oil recovery.

Pipeline length and service characteristics are presented in Table 2-1. All infield pipelines would be designed to allow pipeline inspection and maintenance (e.g., pigging) between each drill site and the WPF. Permanent pigging facilities would be installed for the produced fluid and injection water pipelines. To limit the venting of volatile organic compounds (VOC) in the enclosed pigging structure,

the barrel of the pig launcher/receiver is flooded with inert gas to clear the barrel of accumulated liquids and flammable gases prior to venting to atmosphere and opening the launcher/receiver.

Pipeline valves that can be closed in the event of an emergency would be installed on pipelines in hydrocarbon service at each side of the Judy Creek and Fish Creek crossings, isolating the section of pipeline between the valves to minimize potential spill impacts in the event of a leak or break. Four gravel valve pads (1.3 acres total) would be constructed to support the valve infrastructure. Valve pads would be located adjacent to gravel roads approximately 400 to 2,000 feet from the bridge crossings.

Pipelines would be supported on common HSMs that would be supported by VSMs. Most pipelines would parallel new and existing gravel roads, typically at a distance from the roadways of 500 to 1,000 feet. Fiber optic cable and power cables would be suspended from the same pipeline VSMs via messenger cable attached to the HSMs. For Alternative C, infield pipelines between WPF and BT1 would not parallel a gravel road for approximately 4 miles, unlike Alternative A for which all infield pipelines parallel gravel roads.

Table 2-1. Alternative C Pipeline Lengths[4]

Pipelines	Start/End Points	Length (miles)	Notes
BT4 Infield Lines[a]	BT4 to BT2	9.9	Pipelines on new set of VSMs.
BT2 Infield Lines[a]	BT2 to BT1	4.5	Pipelines on new set of VSMs; would also transport BT4 materials.
BT1 Infield Lines[a]	BT1 to WPF	6.0	Pipelines on new set of VSMs; would also transport BT2 and BT4 materials. Requires 10 VSMs below OHW at Judy Creek crossing.
BT3 Infield Lines[a]	BT3 to WPF	5.9	Pipelines on new set of VSMs.
BT5 Infield Lines[a]	BT5 to WPF	11.5	Pipelines on new set of VSMs. Shares VSMs with BT3 infield pipeline from BT5 Junction to WPF (4.6 miles)
GMT2 Infield Lines[a]	GMT2 to WPF	9.2	Shares new VSMs with Willow, diesel and seawater pipelines from GMT2 to WPF (9.1 miles).
Freshwater	CFWR to WPF to South WOC	5.6	Shares new VSMs with BT3 infield pipeline from CFWR junction to the WPF (3.4 miles) and treated water, fuel gas, and diesel pipelines from the WPF to the South WOC (1.7 miles).
Treated Water	South WOC to WPF to North WOC	12.9	Shares new VSMs with freshwater, fuel gas and diesel pipelines from the South WOC to the WPF (1.7 miles) and the BT1 and BT2 infield pipelines from the WPF to the BT2 pipeline junction (10.4 miles).
Fuel Gas	WPF to South WOC	1.7	Shares new VSMs with freshwater and treated water pipelines from WPF to WOC (1.7 miles).
Willow Pipeline	WPF to CD4N tie-in	32.2	Shares new VSMs with seawater and diesel pipelines from WPF to CD4N (31.9 miles).

[4] Source: CPAI (2019)

Pipelines	Start/End Points	Length (miles)	Notes
Seawater	CPF2 to WPF	63.3	Shares new VSMs with Willow and diesel pipelines from WPF to CD4N and CPF2 respectively (63.3 miles total). Includes new HDD crossing of Colville River.
Diesel	CPF2 to ACF to South WOC to WPF to North WOC	82.0	Shares VSMs with seawater pipeline from CPF2 to WOC Junction (62.2 miles); freshwater, fuel gas, and treated water pipelines from the WOC Junction to WOC to WPF (2.4 miles); and BT1 and BT2 infield and treated water pipelines from the WPF to the BT2 pipeline junction (10.4 miles). Uses existing VSMs from CD4N to CD1 (6.2 miles). Includes new HDD crossing of Colville River.

[a] Infield lines include produced fluids, injection water gas, and miscible-injectant pipelines.
Notes: WPF: Willow Processing Facility; BT: Bear Tooth; CFWR: constructed freshwater reservoir; WOC: Willow Operations Center; GMT2: Greater Mooses Tooth 2; CD4N: Colville Delta 4 North; ACF: Alpine Central Processing Facility; CD1: Colville Delta 1; CPF2: Kuparuk Central Processing Facility 2; VSMs: vertical support members; OHW: ordinary high water; HDD: horizontal directional drilling.

2.3.5 Communications

Communications infrastructure throughout the field would be provided by fiber optic cables suspended from pipeline VSMs via messenger cable attached to the HSMs (CPAI, 2019). Additionally, communication towers would be located at the WPF and at all drill sites. The communications tower associated with the South WOC would be constructed on a separate, adjacent pad.

2.3.6 Access/Transportation

Access to the Project area from Alpine, Kuparuk, and/or Deadhorse would occur via ground transportation on ice roads, fixed-wing aircraft, and helicopter (CPAI, 2019). Access from Alpine would also occur by gravel road. Anticipated ground, air, and marine traffic is detailed in the Willow MDP EED.

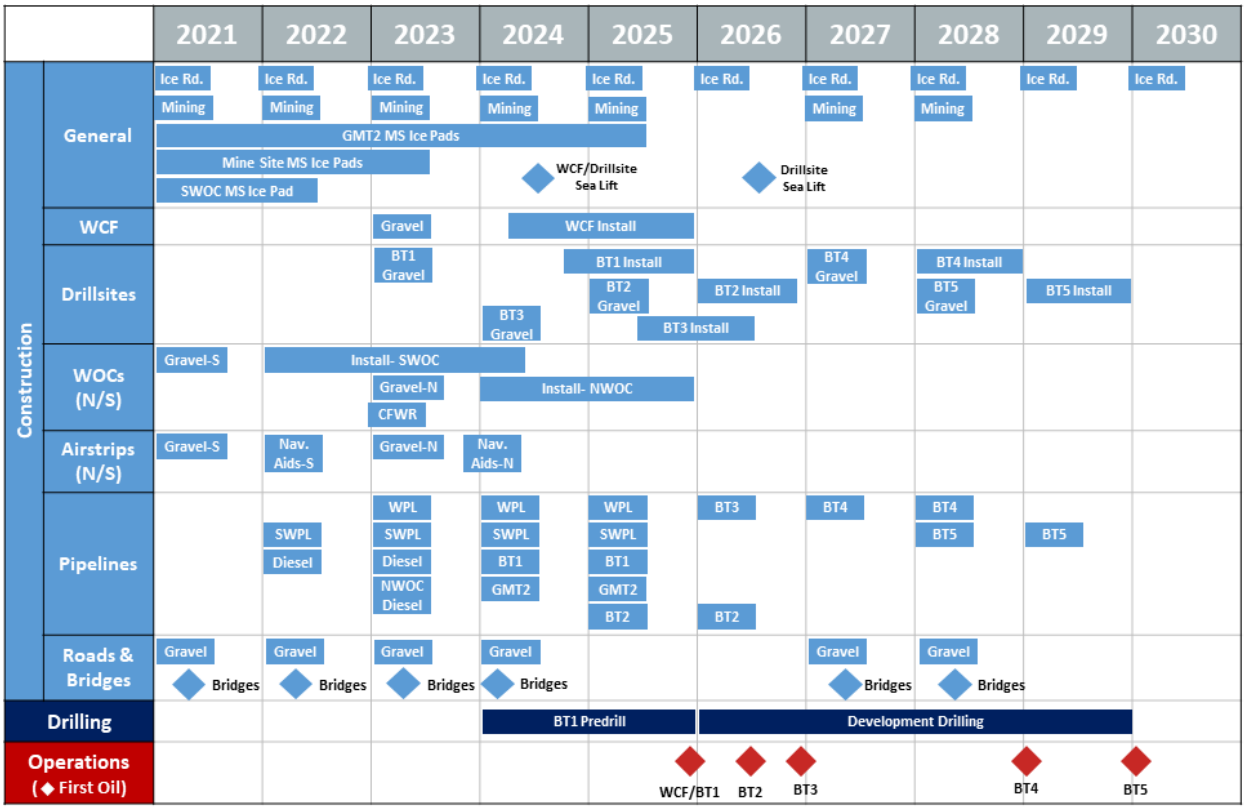
Ice roads would be used primarily during construction to support gravel infrastructure and pipeline construction, for lake access, and to access the selected gravel source(s). Unlike Alternative B, in Alternative C an annual ice road to connect the BT3 access road and BT1 would be used for the life of the project. Due to heavy equipment size and frequency of construction traffic, safety considerations dictate use of separate ice roads for pipeline construction, gravel placement, and general traffic.

Year-round access to the Project area from Deadhorse, Alpine, Kuparuk, and/or other locations would be provided by aircraft. Air access would be supported by a 6,200-foot-long gravel airstrip with aprons located near the WOC. The airstrip would be capable of regular use by Hercules C-130, DC-6, Otter, CASA, and Bombardier Q400, or similar aircraft. Helicopters would be used to support project construction, ongoing environmental studies, ice road permit compliance, and, to a lesser extent, drilling and operations. Helicopter support of future exploration, including exploration wellhead inspections and "stick picking" from winter exploration activities, is not part of the Willow MDP but is described within the context of cumulative effects within the Willow MDP EED.

Details on air, sea, and road-based traffic throughout the project lifecycle are summarized in the Willow MDP EED and on the "INPUTS-[Type]_Traffic" tabs in applicable spreadsheets referenced in Enclosure D.6.

2.4 Schedule

Construction of the Willow Development facilities in Alternative C would occur over a nine-year period, with field work beginning in 2021 and completed in 2029 (CPAI, 2019). Drilling activities would begin in 2024 with pre-drilling prior to facility start-up in order to provide enough production to commission the WPF. Drilling would continue through 2029. WPF operations would commence in 4Q 2025 with commissioning of the facility and first oil from the BT1 Drill site. Production and operational activity will continue until the end of field life in 2050. Figure 2-1 provides a general schedule for key construction, drilling, and operations milestones for the Willow MDP.



Notes: Ice Rd.: Ice Road; WCF/Drillsite Sealift includes WCF, BT1, BT2, BT3 facilities; Drillsite Sealift includes BT4, BT5 facilities; GMT2: Greater Mooses Tooth 2; S: multi-season; BT: Bear Tooth; WCF: Willow Central Processing Facility; S: South; N: North; SWOC: South Willow Operations Center; NWOC: North Willow Operations Center; CFWR.: Constructed Freshwater Reservoir; Nav. Aids: Navigational Aids; WPL: Willow Pipeline; SWPL: Seawater Pipeline. SWPL and Diesel HDD in 2024; Operations continues to end of the life of the project in 2050

Figure 2-1. Alternative C Schedule[5]

[5] Source: CPAI (2019)

3.0 ALTERNATIVE D PROJECT DESCRIPTION

Alternative D would not be connected by an all-season gravel access road to GMTU; however, it would employ the same gravel infield roads as proposed under Alternative B. Under this alternative the WPF co-located with drill site BT3. Similar to Alternative B, Alternative D includes five drill site locations to develop the Project area oil resources, an on-site WPF, a WOC containing project support facilities, and an airstrip with an apron. Access to the Project area from GMTU would be via ice road. Project area gravel roads would connect proposed drill sites, the WPF and the WOC and would include six bridge crossings. Access to the Project area would also be provided by air using fixed wing aircraft and helicopters from the Project area airstrip. Similar to Alternative B, Alternative D includes module delivery via sealift barge and staged mobilization of modules to the Project area by existing gravel roads and ice roads.

Similar to Alternative B, Alternative D includes infield pipelines to transport produced fluids from drill sites to the WPF and an oil export pipeline, the Willow Pipeline, to transport sales-quality crude oil from the WPF to a tie-in point with the Alpine Pipeline near Colville Delta 4 North (CD4N). Other support pipelines include a seawater pipeline, diesel pipeline, and freshwater pipeline. Gravel valve pads would be constructed at pipeline crossing locations over Judy Creek and Fish Creek. All pipelines would be parallel to proposed or existing gravel roads, except for approximately 10 miles between the Willow infield roads and GMT2.

Similar to Alternative B, Alternative D includes development of a new gravel mine in the Tiŋmiaqsiuġvik Area to support project construction. An overview and graphical depiction of Alternative D, including road routing, pad location, gravel mine site, and module delivery options (MDOs) is provided in the Willow MDP EED.

3.1 Construction

Alternative D would construct the Willow Development on a ten-year construction schedule beginning in late 2020 and completing in 2030 (CPAI, 2019). This ten-year period will include construction of five drill sites, the WPF, WOC, airstrip, gravel access roads, pipelines, communications facilities, living quarters, and other infrastructure to support long-term operations. Similar to Alternative B, temporary facilities would be constructed and operated including a gravel mine, MTI, seasonal ice roads, single-season and multi-season ice pads, and temporary camp facilities for worker housing to support construction activities.

Due to the lack of ability to share facilities between Willow and Alpine, Alternative D would also require additional pad space at Alpine (CD1). This includes space for a new heavy duty fleet shop and additional warehouse and maintenance shop space at the ACF. Finally, Alternative D would require an additional gravel pad near GMT2 to store ice road construction equipment over summer to facilitate construction of the annual resupply road.

3.1.1 Gravel Sourcing

A total of approximately 5.9 million cubic yards of material will be required to fill approximately 442.6 surface acres for the Willow Development under Alternative D, not including module delivery options (CPAI, 2019). Additionally, approximately 0.4 million cubic yards of material will be required to fill approximately 13 surface acres for either module delivery option 1 or 2 (CPAI, 2019). Similar to Alternative B, gravel would be sourced from two mine sites with a maximum final mine pit disturbance area of approximately 150 acres in the Tiŋmiaqsiuġvik Area over six winter construction seasons. Blasting is required to loosen material from the gravel source, and heavy equipment is required to

remove the material. After blasting, these materials will be removed in multiple lifts. The mine site excavation would take place in three separate removal activities: (1) removal of organic materials; (2) removal of inorganic overburden; and (3) removal of suitable gravel material in approximately 20-foot lifts. Initial lifts will be for the removal of overburden, which will be stockpiled adjacent to the pit on a seasonal ice pad. Subsequent lifts will supply the gravel for the project. In addition to blasting, gravel sourcing would be conducted with a variety of diesel-fired nonroad equipment, such as crushers, dozers, drills, excavators, light plants, loaders, air compressors, trimmers, water pumps, and welders, as well as mobile support equipment. When gravel extraction is complete, the site will be rehabilitated and stockpiled overburden will be backfilled to contour the mined pit into a natural habitat.

3.1.2 Ice Road and Ice Pad Construction

Ice roads would be used primarily during construction for Project area pipeline, pad, gravel road construction, gravel source access, and as the primary form of ground access from GMTU to the Project area. Single-season and multi-season ice pads would be used to house construction camps, stage construction equipment or materials, and support other construction activities. Ice road construction is dependent upon ground temperature and precipitation (i.e., sufficient snow for pre-packing of routes) and typically begins in November or December. The annual ice road season for the Willow Development is expected to be 90 days long, from the end of January through the end of April each year (CPAI, 2019).

Ice roads and pads are constructed by smoothing or compacting the snow surface and/or placing water or ice on the ground surface. Then, water trucks apply water over the route or location until the ice pad or road surface is built up to the desired thickness. Ice roads are marked with stakes to facilitate driving and assist with snow removal. Ice roads and pads are maintained throughout the ice road season by monitoring for litter, contamination, and degradation and cleaning or repairing, as necessary. All stakes and contamination are cleared when the ice road or pad is closed for the season. Multi-season ice pads are constructed similarly to single-season ice pads, with compacted snow over a base layer of ice, except they also include a vapor barrier and foam insulation to prevent melting. Ice road and ice pad construction is conducted with a variety of diesel-fired nonroad equipment, such as graders, loaders, pumpers, snowblowers, light plants, and trimmers, as well as on-road mobile support equipment.

3.1.3 Gravel Road and Pad Construction and Facilities Installation

After gravel extraction, gravel is transported from the mine or storage location via off-road belly dump B70 haul trucks and placed during winter construction seasons (CPAI, 2019). Other diesel-fired nonroad equipment, including graders and compactors, are used to place the gravel during the winter, but also to work the gravel to melt remaining frozen materials and compact the gravel and create road and pad surfaces during the summer season following gravel placement.

3.1.4 Bridge and Culvert Construction

Multiple bridges would be constructed to allow for road access throughout the Willow Development. Multi-span bridges are constructed on steel pile pier groups, made up of sets of four pilings positioned approximately 40 to 70 feet apart (CPAI, 2019). Shorter crossings will be traversed by single-span bridges or culvert batteries. All span-style bridges include sheet pile abutments for erosion protection at each end of the bridge. Estimated bridge crossings range from 40 to 420 feet in length. Bridges would be constructed during winter from ice roads and pads. Bridge construction is conducted with a variety of diesel-fired nonroad equipment, including cranes, loaders, drills, small generators, hammers, compressors, light plants, manlifts, and small heaters, as well as mobile on-road support equipment.

3.1.5 Pipelines and Supporting Infrastructure Construction

Infield pipelines within the Willow Development and import/export pipelines connecting the Willow Development to the Colville River and Kuparuk River Units would be constructed. Most of the pipeline would be constructed aboveground and supported on common horizontal support members (HSMs) that would be supported by vertical support members (VSMs) placed approximately 55 feet apart across open tundra to protect permafrost (CPAI, 2019). VSMs are constructed by embedding a vertical steel pipe piling in holes drilled in the permafrost and adding a sand/water slurry surrounding the pipe pile to freeze it in place. VSMs would have a typical diameter of 12 to 24 inches and total disturbance footprint diameter of 18 to 32 inches for each pipe pile. Seasonal ice roads would be constructed to access right-of-ways for the construction of VSMs, pipelines, and other infrastructure suspended on VSMs, including fiber optic cables and power cables.

At Fish Creek and Judy Creek bridge crossings, pipelines would be constructed on structural steel supports attached to the bridge girders, below the bridge deck. Gravel valve pads would also be constructed on each side of the Fish Creek and Judy Creek bridge crossings to isolate produced fluids pipelines and minimize potential spill impacts. At smaller steams, pipelines would be installed approximately perpendicular to the channel, with VSMs on each side of the crossing to avoid VSM placement in streams to the extent practicable.

VSMs are constructed using primarily nonroad engines and equipment, including drills, trenchers, loaders, and cranes, as well as on-road mobile support equipment. Similarly, pipelines, powerlines, and fiber optic cables are suspended from VSMs using a variety of diesel-fired nonroad equipment, such as compressors, derrick and telescoping cranes, side boom cranes, small generators, light plants, loaders, manlifts, drills, and small heaters, as well as on-road mobile support equipment.

All pipelines crossing the Colville River would be installed by boring beneath the river using horizontal directional drilling (HDD). The HDD process would involve drilling a borehole under the river that is large enough to accommodate the pipeline casing. This operation is supported by diesel-fired nonroad equipment, including generators, air compressors, winches, cranes, and small heaters and boilers. Throughout the process of drilling and enlarging the hole, a slurry made of naturally occurring nontoxic materials (typically bentonite clay and water), would be circulated through the drilling tools to lubricate the drill bit, remove drill cuttings, and hold the hole open. Pipelines and casing sections would be staged and welded together to form segments long enough to span the entire crossing (the pull string) on the exit side of the HDD crossing. Once the borehole is ready, the completed casing and pipelines are pulled back through the drilled hole using nonroad equipment. The Willow HDD would be completed during the winter construction season using adjacent ice pads to stage equipment and materials. Two new gravel pads would be constructed adjacent to the existing Alpine Pipeline HDD where the pipelines transition from above ground to below ground on either side of the river.

3.1.6 WPF/Drillsite Module Sealift and Delivery Options

For Alternative D, the modules comprising the processing facilities at the WPF and drill sites would be delivered to the North Slope by sealift barges during two open water seasons (ice-free periods) in 2025 and 2027 (CPAI, 2019). Barge offloading is proposed at a new MTI in State of Alaska-owned waters near Atigaru Point or Point Lonely. Sealift modules would be staged on the MTI until winter and then transported to the WPF via Self-Propelled Modular Transporters driven over the water and land on ice roads. A camp would be staged near the MTI to support these activities. Modules for the WPF and drill sites BT1 through BT3 would be delivered during the summer of 2025 sealift. Modules for the drill sites BT4 and BT5 would be delivered during the 2027 sealift.

The MTI would be built through placement of gravel fill in approximately 8 to 10 feet of water to a height of approximately 13 feet above Mean Lower Low Water (MLLW). The MTI would include a 600-foot-square (8-acre) gravel work surface formed by grading and compacting similar to other gravel pads construction. At the end of the island service life, all gravel slope protection materials and other anthropogenic materials would be removed from the island, and the island would be reshaped naturally by waves and ice.

3.1.7 Construction Camp Facilities

Per CPAI (2019), various camps would be utilized to house workers throughout the nine-year construction period as described below:

- Existing camps, including the Kuukpik Pad Camp, Alpine Operations Camp, Sharkstooth Camp and Kuukpik Hotel near Nuiqsut, as well as temporary camps near and on the WOC and the near the MTI
- A permanent Willow Camp at the WOC.
- Temporary camps to support drilling would be located at each of the drill sites or the WOC.
- Temporary construction camps near the WOC in 2021 and near the MTI in 2023 to 2024 would be powered by diesel-fired generators. Temporary construction camps on the North and South WOC would be electrically powered by a multi-purpose power plant located at the North and South WOC. That power plant would utilize liquid-fired turbines for power generation. The Willow Camp would be permanently switched over to electricity generated by the WPF once the facility comes online.

3.2 Drilling

Under Alternative D, 251 wells would be constructed throughout the Willow Development at five drill sites (CPAI, 2019), similar to Alternative B. Wells will be approximately evenly split between production and injection wells. Multi-phase (oil, gas, and water) fluids will be gathered from production wells and sent for processing at the WPF. Injection wells will be used to inject gas, produced water, seawater, and miscible injectant (MI) back into the producing formation to maintain formation pressure and as part of enhanced oil recovery. Similar to Alternative B, it is assumed that it will take approximately 15 to 30 days to drill each well and conservatively plans to drill all wells consecutively beginning in 2025 with the BT1 Drill site. Drill site. Pre-drilling activities would allow the WPF to be commissioned immediately following WPF construction by timing completion of a sufficient number of wells to provide the minimum fluid rates to commission the pipelines and facility. Pre-drilling eliminates a 1- to 2-year delay between construction and production of first oil. Assuming the use of two drill rigs continuously operating throughout the development, drilling would be complete by 2030.

Drilling is conducted with a drill rig containing electrically powered drill rig draw-works, top-drive, and pumps with heat supplied by diesel-fired air heaters and boilers. The drilling operation will be supported by small portable diesel-fired nonroad equipment, mobile equipment, and temporary storage tanks at the drill sites. The approximate 3.5-megawatt (MW) single drill rig electrical demand (approximately 7 MW for 2 drill rigs) can be satisfied by diesel-fired reciprocating engine-powered generators, certified USEPA Tier 4f, that travel with the drill rig or highline power generated at the WPF. Similar to Alternative B, drilling operations would be conducted predominantly on highline supplied electrical power throughout the life of project whenever possible. However, highline power may not be available for a period of time during construction before permanent power infrastructure is commissioned. Similar to Alternative B, there would be a short period of time when power for the drill rigs is supplied by diesel-fired reciprocating engines only until highline electrical power is available.

After that, diesel-fired engines that travel with the drill rig will be used as back-up if highline power is temporarily unavailable. All other portable support equipment will typically be powered by diesel fuel.

After a well is drilled, it is completed. To complete a production well, it sometimes is first hydraulically fractured, then it undergoes a well cleanout process known as a flowback. During the flowback, fluids and solids present in the well bore as part of the drilling and completion process are allowed to flow from the well until the fluids produced from the well are no longer contaminated with excessive solids or drilling fluids. Liquids and solids produced during the flowback are placed in portable tanks for disposal and gas is captured, flared, or vented depending on infrastructure availability. Immediately following the construction of each drill site, it is expected that there will be a period of time before permanent infrastructure is in place to handle gas from flowbacks. If the infrastructure is not in place, gas will be routed from flowbacks to a portable flare located at the drill site. Once permanent facilities are available (pipelines and WPF), gas from flowbacks will be routed to the WPF and processed. Similar to Alternative B, it is conservatively assumed that all production and injection wells could be hydraulically fractured as part of the completion process. This would equate to hydraulically fracturing all 251 wells throughout the development.

Hydraulic fracturing in the Willow Development would be hydraulic fracturing of conventional resources which is intended to counter formation damage and stimulate and maximize recovery of resources. This is a very different purpose than hydraulic fracturing unconventional shale formations. Hydraulic fracturing of a well at Willow will be conducted in stages and to various depths by pumping proppant, made of water, sand, and chemical additives, at high pressure into a well drilled to create small length fractures in the formation in the immediate vicinity of the wellbore.

Hydraulic fracturing is expected to be conducted using 5 to 10 pumps powered by electric motors or engines (nonroad engines), certified USEPA Tier 4f for generator sets. When powered by engines the engines will run at high loads for short periods of time and idling or operating at low loads the remainder of the process. Similar to drilling, hydraulic fracturing operations would be predominantly conducted on highline supplied electrical power throughout the life of project whenever possible; however, there may be a short period of time during construction when the hydraulic fracturing unit operates on diesel only until highline electrical power is available. A typical frac operation for the Willow Development is expected to take approximately 6 days per well. These operations may also be supported by small nonroad engines and/or portable heaters, as necessary.

3.3 Operations

3.3.1 Willow Processing Facility

The WPF would primarily consist of facilities necessary to generate power for the Willow Development, dehydrate and compress gas for fuel and reinjection, pump and inject seawater and produced water to the subsurface as part of pressure maintenance/water flood for secondary recovery, and separate and process production fluids and deliver sales-quality crude oil. Fluid separation and processing occurs through pressure drops, gravity separation, and heating followed by distillation and includes the production of sales-quality crude, produced water, and MI for enhanced oil recovery. Produced natural gas would be (1) used to fuel plant and facility equipment, (2) re-injected into a producing formation to maintain reservoir pressure and increase recovery, and/or (3) used for gas lift. Under plant startups, shutdowns, and upset conditions, natural gas may be flared. A simplified process flow diagram for major systems is presented in Enclosure D.1.

Per CPAI (2019), WPF power generation and processing equipment would include:

- Emergency shutdown equipment
- Gas turbine generators
- Compressors
- Gas strippers
- Gas treatment facilities
- Heat exchangers
- Separators
- Stabilizer unit
- Flare system
- Utility systems (i.e., heating glycol, nitrogen, etc.)
- Oil producing vessels
- Pumps
- Pigging facilities
- Metering facilities
- Electrical equipment
- Fuel supply storage tank(s) and an associated fueling station
- A tank farm, which could include methanol, sales oil or off-spec crude, crude flowback fluids, scale inhibitor, emulsion breaker, corrosion inhibitor, and minor volumes of other chemicals as required for operations
- Warm storage facilities for equipment

Per CPAI (2019), additional equipment would be required to accommodate production from GMT2:

- Electrically driven booster compressor to increase gas pressures for injection into the deeper Jurassic GMT2 reservoir.
- Electrically driven booster pump to increase injection water pressures for injection into the deeper Jurassic GMT2 reservoir.
- Additional metering equipment required for independent measurement of injection fluids departing from the WCF to GMT2, as they would cross the GMTU-BTU unit boundary.

At various times throughout the Willow Development's producing lifetime, temporary modules, maintenance buildings, pipelines, and other structures may be used at the WPF to address short-term needs. See the Willow MDP EED (CPAI, 2019) for the proposed WPF layout.

Refer to the "INPUTS" tabs in the "Willow AltD EI-Non-Construction-WPF+IP+Airstrip.xlsx" spreadsheet referenced in Enclosure D.7 for sizing and major equipment assumptions for fuel burning equipment.

3.3.2 Willow Drill sites

Each drill site has been sized and designed to accommodate all drilling and operations facilities, wellhead shelters, drill rig movement, drilling material storage, and well work equipment. Each drill site could accommodate 40 to 70 wells at a 20-foot wellhead spacing.

- Emergency shutdown equipment
- Fuel gas treatment equipment
- Well test and associated measurement facilities
- Electrical and instrumentation control equipment
- Pig launchers/receivers

- Chemical injection facilities (including tanks, containment, small pumps, and exterior tank fill connection)
- Production heater and associated equipment
- Spill response equipment containers
- Communications infrastructure, including a tower up to 200 feet high
- High-mast lights
- Temporary tanks to support drilling and well work operations
- Production operations storage tanks
- Production operations stand-by tank (normally empty)
- Transformer platforms (oil-insulated)
- Pipe racks and/or manifold piping/valves

All equipment described above, with the exception of the production heater and back-up power generation, is electrically powered, with power supplied from the WPF via cable run along the pipeline corridor. The production heater is powered by fuel gas, and its purpose is to heat the multiphase production fluids (oil, water, and gas) prior to shipment to the WPF for processing. Any back-up power generation installed at the drill sites would be diesel-fired reciprocating engine-powered generators, expected to meet USEPA Tier 4i emissions standards for non-generator sets or better.

Wells would be grouped into two general categories: producers and injectors. The production wells would generate the field's multi-phase production while the injector wells would be used to inject water (i.e., treated seawater and/or produced water that has been processed at the WPF) and/or gas into the producing formation(s) to maintain reservoir pressure. See the Willow MDP EED for a typical drill site layout.

Refer to the "INPUTS" tabs in the "Willow AltD EI-Construction-BT*.xlsx" spreadsheet referenced in Enclosure D.7 for fuel burning equipment assumptions for the Willow drill sites.

3.3.3 Willow Operations Center

The base of operations for the Willow Development would be at the WOC. The WOC would be near to but separated from the WPF. The WOC location would minimize risk to personnel by placing permanently occupied buildings away from potential blast hazards associated with the WPF. The WOC would also be adjacent to an airstrip. See the Willow MDP EED (CPAI, 2019) for a typical layout of these facilities.

The lack of gravel road access to Alpine by way of GMTU constrains Alternative D in a number of additional ways relative to Alternatives B and C. The lack of year-round ground access to Alpine substantially reduces the degree to which the Willow Development can leverage existing Alpine infrastructure. As a result, additional facilities would be required in the Plan Area for Alternative D to duplicate existing facilities at Alpine. These include a grind and inject facility; additional warehouse space; a wireline/coil maintenance shop; a light duty fleet shop; storage and equipment laydown space; and biocide, methanol, and corrosion inhibitor tanks at the WOC. Alternative D would require two Class I injection wells at the WOC in addition to the two described for all alternatives (total of 4 Class I wells) to accommodate drilling, wastewater, and grind and inject materials while providing a backup well. The addition of these facilities would require additional permanent gravel pad space at the WOC.

The WOC would contain accommodation and utility buildings and maintenance and storage facilities to support operations. Per CPAI (2019), these include:

- Permanent Willow Operations Camp facilities, including living quarters, offices, meeting rooms, dining facilities, a central control building, lab, medical clinic, and wellness facilities
- Wastewater and water treatment plants, water tanks, and chemical storage
- Freshwater storage tanks
- At least two Class I underground injection control disposal well(s) (Class I disposal well(s))
- Emergency Response Center, including spill response shop, fire department, and ambulance bay
- Essential and black start generators
- Craft maintenance shops and tool room
- Hazardous waste accumulation and storage
- Fleet maintenance shop
- Fabrication and weld shop
- Warehouse
- Storage tents
- Diesel and jet fuel tanks and pump skids
- Drilling shop and mud plant
- Municipal solid waste incinerator
- Staging areas
- Drilling and cuttings storage
- Operations and maintenance storage,
- Laydown space
- Rolling stock parking

Under normal operations, all equipment and facilities described above will be electrically powered, except for the power generation, portable equipment, and incinerator. Any back-up power generation installed at the WOC would be diesel-fired reciprocating engine-powered generators, expected to meet USEPA Tier 4i standards for non-generator sets or better. In addition to permanent surface structures, temporary surface structures such as camps, offices, shops, envirovacs, connexes, fuel and chemical storage areas, and warehouses may be used at the WOC to support projects.

Information regarding fuel burning equipment associated with Willow infrastructure can be found in "INPUTS" tabs in the "Willow AltD EI-Non-Construction-WPF+IP+Airstrip.xlsx" spreadsheet referenced in Enclosure D.7.

3.3.4 Willow Pipelines

The Willow Development would include infield lines and import/export lines. Infield lines carry a variety of products, including produced fluids, produced water, seawater, miscible injectant, and gas, between the WPF and each drill site (including GMT2).

Import/export pipelines include the Willow sales-oil pipeline, a seawater pipeline, and a diesel pipeline. The Willow sales-oil pipeline would carry sales-quality crude oil from the WPF to a tie-in with the Alpine Pipeline near CD4N. The seawater pipeline would import seawater from existing infrastructure in Kuparuk to the Project area. The diesel pipeline would transport Ultra Low Sulfur Diesel (ULSD) from the Kuparuk Central Processing Facility 2 (CPF2) to the WOC and WPF via ACF. An additional diesel pipeline and freshwater pipeline would also transport fresh water from the primary freshwater sources to the WOC.

Infield lines would include the following pipelines connecting the WPF to each drill site:

- Produced fluids pipeline – produced multiphase fluids from each drill site to WPF for processing.
- Injection water pipeline – seawater or produced water transported from WPF for injection to support enhanced oil recovery.
- Gas pipeline – gas transported from WPF for artificial lift, pressure support, and fuel gas.
- MI pipeline – MI transported from WPF for injection to support enhanced oil recovery.

Pipeline length and service characteristics are presented in Table 2-1. All infield pipelines would be designed to allow pipeline inspection and maintenance (e.g., pigging) between each drill site and the WPF. Permanent pigging facilities would be installed for the produced fluid and injection water pipelines. To limit the venting of volatile organic compounds (VOC) in the enclosed pigging structure, the barrel of the pig launcher/receiver is flooded with inert gas to clear the barrel of accumulated liquids and flammable gases prior to venting to atmosphere and opening the launcher/receiver.

Pipeline valves that can be closed in the event of an emergency would be installed on pipelines in hydrocarbon service at each side of the Judy Creek and Fish Creek crossings, isolating the section of pipeline between the valves to minimize potential spill impacts in the event of a leak or break. Four gravel valve pads (1.3 acres total) would be constructed to support the valve infrastructure. Valve pads would be located adjacent to gravel roads approximately 400 to 2,000 feet from the bridge crossings.

Pipelines would be supported on common HSMs that would be supported by VSMs. Most pipelines would parallel new and existing gravel roads, typically at a distance from the roadways of 500 to 1,000 feet. Fiber optic cable and power cables would be suspended from the same pipeline VSMs via messenger cable attached to the HSMs. Infield pipelines between Willow infield roads and GMT2 would not parallel a gravel road for approximately 10 miles.

Table 3-1. Alternative D Pipeline Lengths[6]

Pipelines	Start/End Points	Length (miles)	Notes
BT4 Infield Lines[a]	BT4 to BT2	10.2	Pipelines on new set of VSMs
BT2 Infield Lines[a]	BT2 to BT1	4.7	Pipelines on new set of VSMs; would also transport BT4 materials
BT1 Infield Lines[a]	BT1 to WPF	10.0	Pipelines on new set of VSMs; would also transport BT2 and BT4 materials.
BT5 Infield Lines[a]	BT5 to WPF	6.5	Pipelines on new set of VSMs. Shares VSMs with BT1 Infield from BT5 Junction to WPF (1.1 miles).
GMT2 Infield Lines[a]	GMT2 to WPF	15.1	Shares new VSMs with Willow, diesel and seawater pipelines from GMT2 to WPF (15.1 miles).
Freshwater	CFWR to WOC to WPF	2.2	Shares new VSMs with treated water, fuel gas, and diesel pipelines from WOC to WPF (1.5 miles).
Treated Water	WOC to WPF	1.5	Share new VSMs with freshwater, fuel gas, and diesel pipelines from WOC to WPF (1.5 miles).

[6] Source: CPAI (2019)

Pipelines	Start/End Points	Length (miles)	Notes
Fuel Gas	WPF to WOC	1.5	Share new VSMs with freshwater, treated water, and diesel pipelines from WPF to WOC (1.5 miles).
Willow Pipeline	WPF to CD4N tie-in	38.2	Shares new VSMs with seawater and diesel pipelines from WPF to CD4N (37.9 miles).
Seawater	CPF2 to WPF	69.2	Shares new VSMs with Willow and diesel pipelines from WPF to CD4N and CPF2 respectively (69.2 miles total). Includes new HDD crossing of Colville River.
Diesel	CPF2 to CD1 to WOC	77.0	Shares new VSMs with seawater pipeline from CPF2 to WPF (69.2 miles); and with the freshwater, fuel gas, and treated water pipelines from WPF to WOC (1.5 miles). Uses existing VSMs from CD4N to CD1 (6.2 miles). Includes new HDD crossing of Colville River.

[a] Infield lines include produced fluids, injection water gas, and miscible-injectant pipelines.

Notes: WPF: Willow Processing Facility; CFWR: constructed freshwater reservoir; BT: Bear Tooth; WOC: Willow Operations Center; CD4N: Colville Delta 4 North; CD1: Colville Delta 1; CPF2: Kuparuk Central Processing Facility 2; VSMs: vertical support members; HDD: horizontal directional drilling.

3.3.5 Communications

Communications infrastructure throughout the field would be provided by fiber optic cables suspended from pipeline VSMs via messenger cable attached to the HSMs (CPAI, 2019). Additionally, communication towers would be located near the WOC and at all drill sites. The communications tower associated with the WOC would be constructed on a separate, adjacent pad.

3.3.6 Access/Transportation

Access to the Project area from Alpine, Kuparuk, and/or Deadhorse would occur via ground transportation on ice roads, fixed-wing aircraft, and helicopter (CPAI, 2019). Anticipated ground, air, and marine traffic is detailed in the Willow MDP EED.

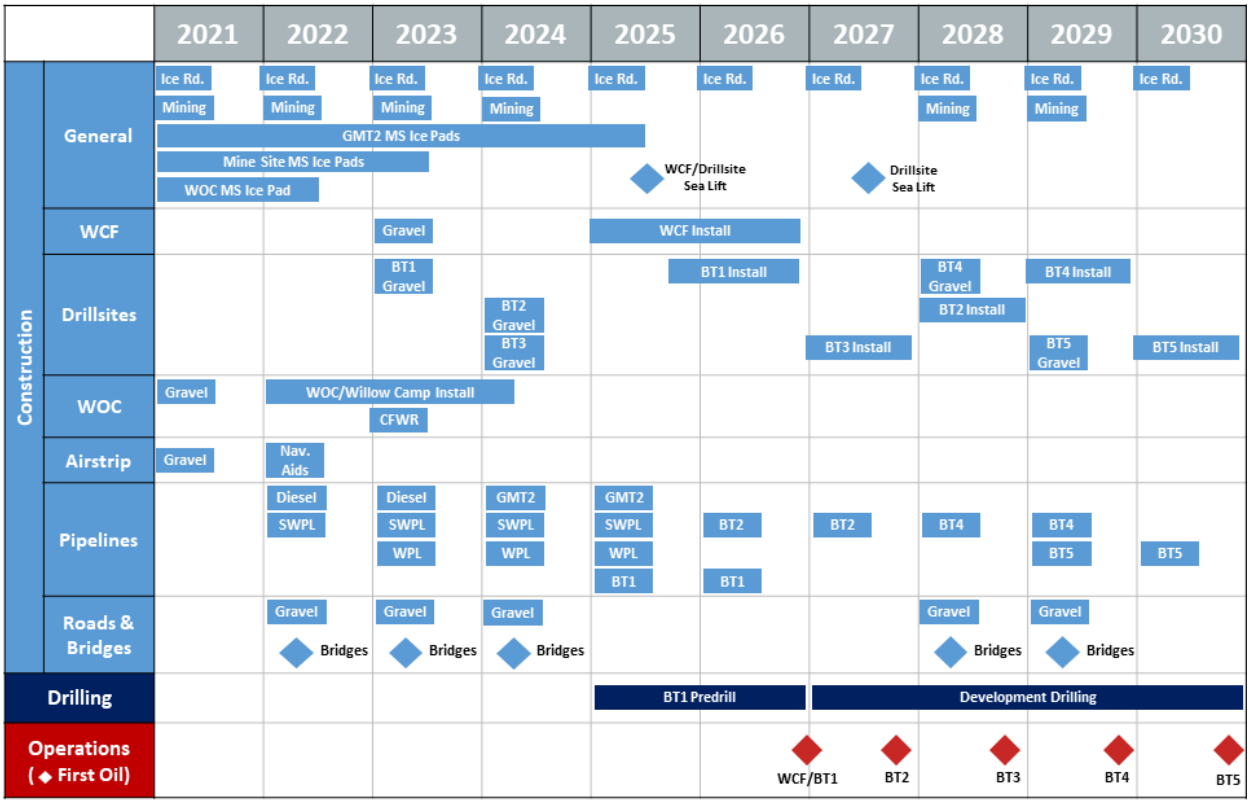
Ice roads would be used primarily during construction to support gravel infrastructure and pipeline construction, for lake access, and to access the selected gravel source(s). Unlike Alternative B, in Alternative D an annual ice road to connect the project area to Alpine would be used for the life of the project. Due to heavy equipment size and frequency of construction traffic, safety considerations dictate use of separate ice roads for pipeline construction, gravel placement, and general traffic.

Year-round access to the Project area from Deadhorse, Alpine, Kuparuk, and/or other locations would be provided by aircraft. Air access would be supported by a 6,200-foot-long gravel airstrip with aprons located near the WOC. The airstrip would be capable of regular use by Hercules C-130, DC-6, Otter, CASA, and Bombardier Q400, or similar aircraft. Helicopters would be used to support project construction, ongoing environmental studies, ice road permit compliance, and, to a lesser extent, drilling and operations. Helicopter support of future exploration, including exploration wellhead inspections and "stick picking" from winter exploration activities, is not part of the Willow MDP but is described within the context of cumulative effects within the Willow MDP EED.

Details on air, sea, and road-based traffic throughout the project lifecycle are summarized in the Willow MDP EED and on the "INPUTS-[Type]_Traffic" tabs in applicable spreadsheets referenced in Enclosure D.7.

3.4 Schedule

Construction of the Willow Development facilities in Alternative D would occur over a ten-year period, with field work beginning in 2021 and completed in 2030 (CPAI, 2019). Drilling activities would begin in 2025 with pre-drilling prior to facility start-up in order to provide enough production to commission the WPF. Drilling would continue through 2030. WPF operations would commence in 4Q 2026 with commissioning of the facility and first oil from the BT1 Drill site. Production and operational activity would continue until the end of field life in 2050. Figure 3-1 provides a general schedule for key construction, drilling, and operations milestones for the Willow MDP.



Notes: Ice Rd.: Ice Road; WCF/Drillsite Sealift includes WCF, BT1, BT2, BT3 facilities; Drillsite Sealift includes BT4, BT5 facilities; GMT2: Greater Mooses Tooth 2; MS: multi-season; BT: Bear Tooth; WCF: Willow Central Processing Facility; WOC: Willow Operations Center; CFWR: Constructed Freshwater Reservoir; WPL: Nav. Aids: Navigational Aids; Willow Pipeline; SWPL: Seawater Pipeline. SWPL and Diesel HDD in 2024; Operations continues to end of the life of the project in 2051

Figure 3-1. Alternative D Schedule[7]

[7] Source: CPAI (2019)

4.0 EMISSIONS INVENTORY DEVELOPMENT FOR ALTERNATIVES C AND D AND MODULE DELIVERY OPTIONS 1 AND 2

The emissions inventories for Willow Development Alternatives C and D as well as module delivery option 1 (Atigaru Point) and module delivery option 2 (Point Lonely) were assembled based on the project description provided in CPAI's Willow MDP EED and highlighted in the previous sections. These emission inventories includes project-specific emissions from development activities related to the following categories:

- Construction
- Drilling
- Routine operations
- Well workovers and interventions
- Module transport

For each of these categories, project-related emissions may occur from the following types of sources:

- Non-mobile combustion sources (e.g. turbines, reciprocating engines, and heaters)
- Mobile, on-road tailpipe combustion sources (e.g. vehicle traffic)
- Mobile, nonroad tailpipe combustion sources (e.g. construction equipment)
- Fugitive sources (e.g., fugitive dust, venting, or equipment leaks)
- Aircraft sources (e.g., airplane traffic)
- Marine vessel sources (e.g., ocean-going boats and barges)

For each of these types of sources, emissions were calculated for the following pollutants:

- Criteria pollutants, including nitrogen oxides (NOx), carbon monoxide (CO), sulfur dioxide (SO2), particulate matter less than 10 microns in diameter (PM_{10}), and particulate matter less than 2.5 microns in diameter ($PM_{2.5}$)
- Volatile organic compounds (VOC)
- Hazardous air pollutants (HAPs), including benzene, toluene, ethylbenzene, xylenes, n-hexane, and formaldehyde
- Greenhouse gases (GHGs), including carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O)

The choice of pollutants is discussed in the main body (Section 2) of the Air Quality Technical Support Document. Calculations for each source of emissions and each pollutant were compiled into monthly summaries of emissions according to the proposed project schedule as described in Section 2.4 (Alternative C) and Section 3.4 (Alternative D). Emission calculations are not based on explicit estimates of the annual number of wells drilled or active wells. Drilling emissions are based on the number of rigs operating in the field. Operation phase emissions from drill sites are estimated based on the conservative assumption that as soon as a drill site begins production, fugitive emissions are emitted from all wells that will be located on that drill site.

Given that the Willow Development is in the early stages of its design, the emissions inventory was developed by leveraging information from CPAI's other North Slope projects, including the GMT2 Drill site in the GMTU and the ACF in the Colville River Unit. The emissions inventory for the five proposed Willow drill sites was developed following the emissions inventory calculations for the GMT2 Draft

Supplemental Environmental Impact Statement (SEIS). This approach was used: (1) to facilitate the ease of review for Federal Land Managers (FLMs) with a familiar emissions inventory format and (2) because those spreadsheets, calculations, and methodologies were reviewed and approved by FLMs through the GMT2 National Environmental Policy Act (NEPA) process.

The emissions inventory for the WPF, WOC, and module delivery and transport activities were developed based on the emissions inventories for similar facilities and activities supporting the construction and operation of the ACF. This information was supplemented by equipment sizing information, newer emissions control and equipment technologies, and other Willow-specific design information developed by CPAI.

Using these resources, most emission calculations were performed using the following key references that are generally accepted for emission factors, similar to that used for Alternative B:

- AP-42, Chapter 1 (External Combustion Sources), Chapter 2 (Solid Waste Disposal), Chapter 3 (Stationary Internal Combustion Sources), Chapter 5 (Petroleum Industry), Chapter 7 (Liquid Storage Tanks), and Chapter 13 (Miscellaneous Sources).
- 40 Code of Federal Regulations (CFR) Part 98, Subpart A, Table A-1 (Global Warming Potentials) and Subpart C, Table C-1 (Default CO2 Emission Factors) and Table C-2 (Default CH4 and N2O Emission Factors) for general stationary fuel combustion sources.
- Applicable federal requirements in 40 CFR Part 89 and Part 1039 (Control of Emissions from New and In-Use Nonroad Compression-Ignition Engines), 40 CFR 60 (Standards of Performance for New Stationary Sources), and 40 CFR 63 (National Emission Standards for Hazardous Air Pollutants for Source Categories).
- Limited representative vendor data from similar projects, such as ACF, for certain combustion sources.
- U.S. Environmental Protection Agency (USEPA) Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017).
- USEPA Motor Vehicle Emission Simulator (MOVES) 2014a model for on-road and nonroad mobile equipment emissions.
- Federal Aviation Administration (FAA) Aviation Environmental Design Tool (AEDT) model for aircraft emissions.
- USEPA TANKS emissions estimation software, Version 4.09D.
- USEPA Current Methodologies in Preparing Mobile Source Port-Related Emission Inventories, Final Report, April 2009, prepared by ICF International.

Tabular and graphical representations of key aspects of the Willow Development emissions inventory are summarized in Enclosure D.2 (Alternative C), Enclosure 3 (Alternative D), Enclosure D.4 (Module Delivery Option 1), and Enclosure D.5 (Module Delivery Option 2). Detailed emissions calculations, assumptions, and methodologies are outlined in the emissions calculation spreadsheets listed in Enclosure D.6 (Alternative C)[8], Enclosure D.7 (Alternative D)[8], Enclosure D.8 (Module Delivery Option 1), and Enclosure D.9 (Module Delivery Option 2) to reduce duplication of material.

[8] Emissions calculation spreadsheets provided separately

ENCLOSURE D.1 WILLOW PROCESSING FACILITY PROCESS FLOW DIAGRAM

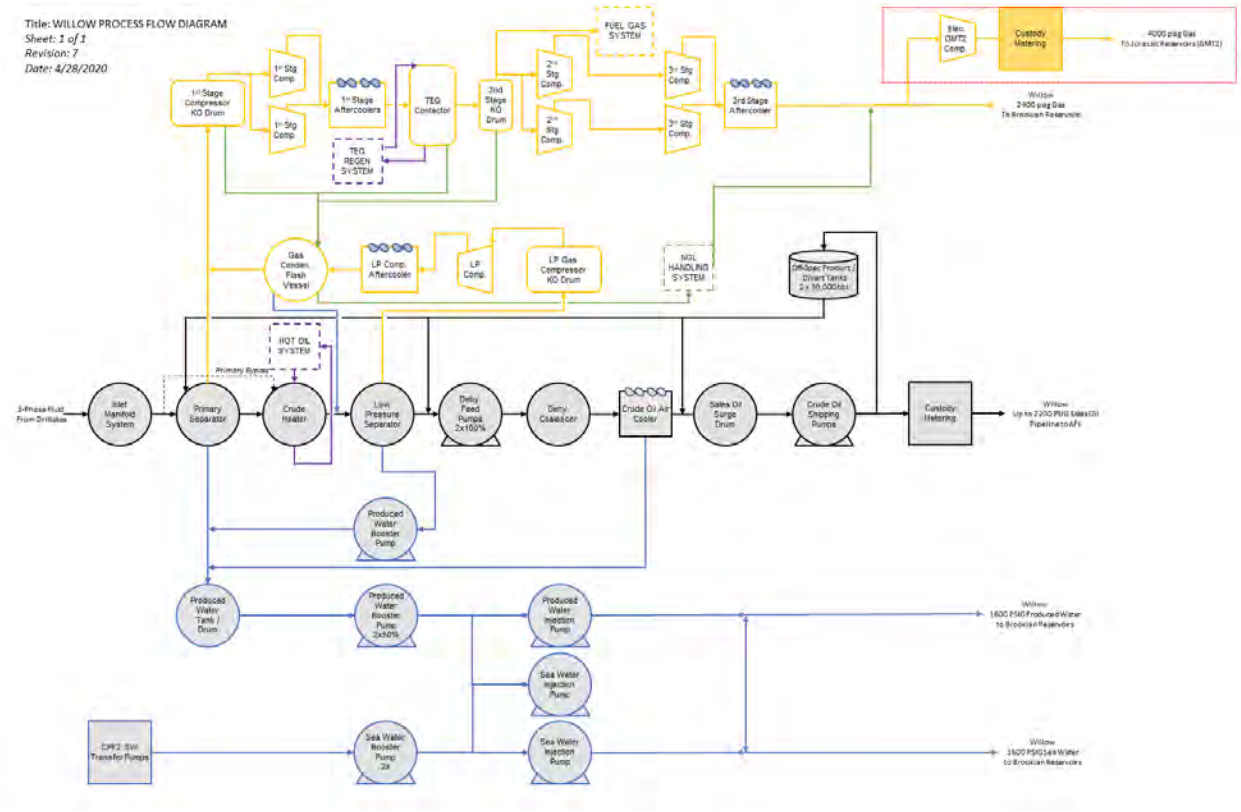


Figure D.1-1. Willow Processing Facility Process Flow Diagram

ENCLOSURE D.2 ALTERNATIVE C SUMMARY EMISSIONS TABLES

Table D.2-1. List of Assumptions for Summary Tables

Table(s)/Figure	Assumption/Note
Various	Emissions from module delivery options are not included in this attachment. 50% of all Project wells are producing wells, 50% are injection wells. Emissions related to both types of wells are summarized.
Table D.2-23	This table represents the total annual emissions for the Project Area divided by a maximum of 251 wells. We assume no difference in emissions between injection and producing wells. Emissions from new wells include all emissions related to construction and drilling, divided by the total number of wells and number of years considered to get an average annual emission rate for constructing and drilling each well. Emissions from wells >1 year represent emissions unrelated to construction and drilling and are representative of annual emissions from annual production/operations on a per well basis.
Figure D.2-1	Drilling will occur until 2030.

Table D.2-2. Alternative C Emissions Summary (tpy) for a Typical Production Year

Pollutant	Existing Wells Emissions	Future Wells Emissions	No Action	Proposed Action	Total emissions for the project area (existing and future wells)	Existing to Future Difference in Total Project Area Emissions (including Proposed Action)
NOx	0	767.0	0	767.0	767.0	767.0
CO	0	721.5	0.0	721.5	721.5	721.5
SO_2	0	56.3	0.0	56.3	56.3	56.3
PM_{10}	0	198.8	0.0	198.8	198.8	198.8
$PM_{2.5}$	0	95.8	0.0	95.8	95.8	95.8
VOC	0	683.0	0.0	683.0	683.0	683.0

Table D.2-3. Annual Criteria Pollutant Emissions (tons) for Construction Only

Project Year	Calendar Year	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	2020	20.4	32.6	0.9	1.2	0.5	1.3
1	2021	434.0	372.1	4.0	65.8	25.6	27.3
2	2022	805.4	642.9	6.2	136.2	49.4	47.9
3	2023	901.3	679.7	5.9	274.5	67.6	59.9
4	2024	913.6	705.2	5.8	301.0	71.2	62.5
5	2025	496.6	375.3	3.3	261.1	49.4	35.1
6	2026	75.5	55.8	1.3	55.9	9.3	7.0
7	2027	124.5	121.5	2.8	170.8	21.1	11.5
8	2028	112.2	93.4	2.0	176.7	21.9	11.2
9	2029	23.0	10.1	0.1	48.1	6.0	2.6
10	2030	2.6	0.7	0.0	0.1	0.1	0.2
11	2031	2.6	0.7	0.0	0.1	0.1	0.2
12	2032	2.6	0.7	0.0	0.1	0.1	0.2
13	2033	2.6	0.7	0.0	0.1	0.1	0.2

Project Year	Calendar Year	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
14	2034	2.6	0.7	0.0	0.1	0.1	0.2
15	2035	2.6	0.7	0.0	0.1	0.1	0.2
16-30	2036-2050	2.6	0.7	0.0	0.1	0.1	0.2

Table D.2-3. Annual Criteria Pollutant Emissions (tons) for Drilling and Completion Only

Project Year	Calendar Year	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	2020	0.0	0.0	0.0	0.0	0.0	0.0
1	2021	0.0	0.0	0.0	0.0	0.0	0.0
2	2022	0.0	0.0	0.0	0.0	0.0	0.0
3	2023	3.8	5.3	0.0	0.3	0.3	0.4
4	2024	146.4	377.6	1.0	118.0	19.9	60.9
5	2025	141.3	371.7	1.0	95.9	17.4	60.3
6	2026	98.2	140.5	0.5	113.0	17.4	44.6
7	2027	99.0	138.1	0.5	134.6	19.6	35.1
8	2028	98.0	137.6	0.5	118.5	18.0	35.0
9	2029	106.7	141.6	0.5	245.3	31.1	36.3
10	2030	0.0	0.0	0.0	0.0	0.0	0.0
11	2031	0.0	0.0	0.0	0.0	0.0	0.0
12	2032	0.0	0.0	0.0	0.0	0.0	0.0
13	2033	0.0	0.0	0.0	0.0	0.0	0.0
14	2034	0.0	0.0	0.0	0.0	0.0	0.0
15	2035	0.0	0.0	0.0	0.0	0.0	0.0
16-30	2036-2050	0.0	0.0	0.0	0.0	0.0	0.0

Table D.2-3. Annual Criteria Pollutant Emissions (tons) for Production and Operations Only

Project Year	Calendar Year	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	2020	0.0	0.0	0.0	0.0	0.0	0.0
1	2021	0.5	0.2	0.0	0.0	0.0	0.0
2	2022	0.5	0.6	0.0	0.0	0.0	0.0
3	2023	0.8	1.0	0.1	0.0	0.0	0.2
4	2024	1.6	3.5	0.2	0.1	0.1	0.5
5	2025	135.0	139.1	12.6	23.3	15.1	73.9
6	2026	663.1	641.1	55.6	129.9	78.7	409.2
7	2027	752.5	717.7	56.1	142.5	89.9	523.3
8	2028	755.8	720.1	56.1	166.6	92.4	543.6
9	2029	763.4	719.3	56.2	205.7	96.7	623.5
10	2030	767.0	721.5	56.3	206.4	97.0	683.0
11	2031	767.0	721.5	56.3	206.4	97.0	683.0
12	2032	767.0	721.5	56.3	198.8	95.8	683.0
13	2033	767.0	721.5	56.3	198.8	95.8	683.0
14	2034	767.0	721.5	56.3	198.8	95.8	683.0
15	2035	767.0	721.5	56.3	198.8	95.8	683.0
16-30	2036-2050	767.0	721.5	56.3	198.8	95.8	683.0

Table D.2-4. Well and Pads by Formation and Drilling Technology

Classification	New Wells	New Well Pads	Modification of Existing Well Pads	Single Well Pads	Multi-Well Pads	Expansion of Existing Well Pads	Total Pads
Directional Oil Wells	125.5	5	0	0	5	0	5
Directional Injection Wells	125.5		0	0		0	
Total	251	5	0	0	5	0	5

Table D.2-5. Emissions for Construction of All Drillsite Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/yr-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	6.5E-02	2.8E-01	5.7E+00	2.5E+01
CO	2.9E-02	1.3E-01	2.6E+00	1.1E+01
SO_2	2.5E-04	1.1E-03	2.2E-02	9.7E-02
PM_{10}	8.0E-03	3.5E-02	7.1E-01	3.1E+00
$PM_{2.5}$	5.4E-03	2.4E-02	4.8E-01	2.1E+00
VOC	8.6E-03	3.8E-02	7.6E-01	3.3E+00
Benzene	2.1E-04	9.4E-04	1.9E-02	8.3E-02
Toluene	2.5E-04	1.1E-03	2.2E-02	9.7E-02
Ethylbenzene	4.9E-05	2.1E-04	4.3E-03	1.9E-02
Xylene	2.3E-04	1.0E-03	2.0E-02	8.8E-02
Formaldehyde	2.0E-03	8.8E-03	1.8E-01	7.8E-01
nHexane	2.8E-05	1.2E-04	2.5E-03	1.1E-02
CO_2e	3.6E+01	1.6E+02	3.2E+03	1.4E+04

1 Emission factors are the emission rates divided by total acres of all drillsite pads

Table D.2-6. Emissions for Construction of All Bridges

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-mile)	Annual (ton/yr-mile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	3.4E+00	1.5E+01	5.1E-01	2.2E+00
CO	1.2E+00	5.1E+00	1.7E-01	7.6E-01
SO_2	1.3E-02	5.8E-02	2.0E-03	8.8E-03
PM_{10}	2.5E-01	1.1E+00	3.7E-02	1.6E-01
$PM_{2.5}$	2.3E-01	1.0E+00	3.5E-02	1.5E-01
VOC	3.0E-01	1.3E+00	4.6E-02	2.0E-01
Benzene	8.9E-03	3.9E-02	1.3E-03	5.8E-03
Toluene	8.9E-03	3.9E-02	1.3E-03	5.9E-03
Ethylbenzene	1.6E-03	7.1E-03	2.4E-04	1.1E-03
Xylene	6.8E-03	3.0E-02	1.0E-03	4.5E-03
Formaldehyde	7.2E-02	3.2E-01	1.1E-02	4.8E-02
nHexane	7.6E-04	3.3E-03	1.2E-04	5.0E-04
CO_2e	1.7E+03	7.5E+03	2.6E+02	1.1E+03

1 Emission factors are the emission rates divided by total length in miles of bridges constructed.

Table D.2-7. Emission for Construction of Gravel Roads and Support Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/yr-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	4.7E-03	2.1E-02	1.2E+00	5.3E+00
CO	1.8E-03	7.9E-03	4.6E-01	2.0E+00
SO_2	1.8E-05	8.1E-05	4.7E-03	2.1E-02
PM_{10}	8.8E-03	3.9E-02	2.3E+00	9.9E+00
$PM_{2.5}$	1.6E-03	6.9E-03	4.0E-01	1.8E+00
VOC	7.5E-04	3.3E-03	1.9E-01	8.4E-01
Benzene	1.6E-05	7.0E-05	4.1E-03	1.8E-02
Toluene	2.3E-05	1.0E-04	6.0E-03	2.6E-02
Ethylbenzene	4.3E-06	1.9E-05	1.1E-03	4.9E-03
Xylene	2.4E-05	1.0E-04	6.1E-03	2.7E-02
Formaldehyde	1.7E-04	7.6E-04	4.4E-02	1.9E-01
nHexane	3.1E-06	1.4E-05	8.1E-04	3.5E-03
CO_2e	3.0E+00	1.3E+01	7.8E+02	3.4E+03

1 Emission factors are the emission rates divided by total acres of all gravel roads and support pads (valve and water access pads).

Table D.2-8. Emission for Construction of Ice Roads and Ice Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/yr-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	4.0E-03	1.8E-02	2.1E+01	9.1E+01
CO	1.1E-03	4.7E-03	5.6E+00	2.4E+01
SO_2	4.8E-06	2.1E-05	2.5E-02	1.1E-01
PM_{10}	1.4E-04	6.3E-04	7.4E-01	3.2E+00
$PM_{2.5}$	1.4E-04	6.1E-04	7.1E-01	3.1E+00
VOC	3.6E-04	1.6E-03	1.8E+00	8.1E+00
Benzene	7.6E-06	3.3E-05	3.9E-02	1.7E-01
Toluene	1.1E-05	4.6E-05	5.4E-02	2.4E-01
Ethylbenzene	2.1E-06	9.3E-06	1.1E-02	4.8E-02
Xylene	1.1E-05	4.8E-05	5.6E-02	2.5E-01
Formaldehyde	8.2E-05	3.6E-04	4.2E-01	1.9E+00
nHexane	1.4E-06	6.3E-06	7.4E-03	3.3E-02
CO_2e	9.1E-01	4.0E+00	4.7E+03	2.0E+04

1 Emission factors are the emission rates divided by total acres of all ice roads and ice pads constructed through the life of the project.

Table D.2-9. Emissions for Construction of Powerlines and Fiber Optics

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-mile)	Annual (ton/yr-mile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	6.4E-03	2.8E-02	2.5E-01	1.1E+00
CO	2.6E-03	1.1E-02	1.0E-01	4.5E-01
SO_2	2.8E-05	1.2E-04	1.1E-03	5.0E-03
PM_{10}	5.4E-04	2.4E-03	2.1E-02	9.4E-02
$PM_{2.5}$	5.0E-04	2.2E-03	2.0E-02	8.8E-02
VOC	6.6E-04	2.9E-03	2.7E-02	1.2E-01
Benzene	1.9E-05	8.2E-05	7.5E-04	3.3E-03
Toluene	1.9E-05	8.1E-05	7.4E-04	3.3E-03
Ethylbenzene	3.6E-06	1.6E-05	1.5E-04	6.4E-04
Xylene	1.5E-05	6.4E-05	5.8E-04	2.6E-03
Formaldehyde	1.6E-04	6.8E-04	6.2E-03	2.7E-02
nHexane	1.7E-06	7.3E-06	6.7E-05	2.9E-04
CO_2e	3.5E+00	1.6E+01	1.4E+02	6.2E+02

1 Emission factors are the emission rates divided by total length in miles of powerline and fiber optics constructed.

Table D.2-10. Emissions for Construction of Pipelines

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-mile)	Annual (ton/yr-mile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.2E-01	5.2E-01	1.5E+01	6.7E+01
CO	7.4E-02	3.2E-01	9.5E+00	4.2E+01
SO_2	2.7E-04	1.2E-03	3.5E-02	1.6E-01
PM_{10}	6.0E-03	2.6E-02	7.7E-01	3.4E+00
$PM_{2.5}$	5.8E-03	2.6E-02	7.5E-01	3.3E+00
VOC	1.7E-02	7.3E-02	2.1E+00	9.4E+00
Benzene	1.5E-04	6.7E-04	2.0E-02	8.7E-02
Toluene	1.3E-04	5.9E-04	1.7E-02	7.6E-02
Ethylbenzene	2.1E-05	9.2E-05	2.7E-03	1.2E-02
Xylene	1.2E-04	5.1E-04	1.5E-02	6.6E-02
Formaldehyde	9.0E-04	3.9E-03	1.2E-01	5.1E-01
nHexane	1.3E-05	5.5E-05	1.6E-03	7.1E-03
CO_2e	3.2E+01	1.4E+02	4.2E+03	1.8E+04

1 Emission factors are the emission rates divided by total length in miles of pipeline constructed.

Table D.2-11. Emissions for Construction of WPF

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/yr-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	2.3E-01	1.0E+00	5.2E+00	2.3E+01
CO	9.7E-02	4.2E-01	2.2E+00	9.7E+00
SO_2	7.6E-04	3.3E-03	1.7E-02	7.6E-02
PM_{10}	2.4E-02	1.1E-01	5.5E-01	2.4E+00
$PM_{2.5}$	1.8E-02	7.9E-02	4.1E-01	1.8E+00
VOC	2.8E-02	1.2E-01	6.3E-01	2.7E+00
Benzene	7.3E-04	3.2E-03	1.7E-02	7.3E-02
Toluene	7.8E-04	3.4E-03	1.8E-02	7.8E-02
Ethylbenzene	1.6E-04	6.8E-04	3.6E-03	1.6E-02
Xylene	6.8E-04	3.0E-03	1.5E-02	6.8E-02
Formaldehyde	6.5E-03	2.8E-02	1.5E-01	6.5E-01
nHexane	8.2E-05	3.6E-04	1.9E-03	8.2E-03
CO_2e	1.1E+02	4.7E+02	2.4E+03	1.1E+04

1 Emission factors are the emission rates divided by total acres of the WPF pad.

Table D.2-12. Emissions for Construction of North WOC and South WOC and Airstrips

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/yr-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	7.6E-02	3.3E-01	1.0E+01	4.6E+01
CO	4.3E-02	1.9E-01	6.0E+00	2.6E+01
SO_2	2.6E-04	1.1E-03	3.6E-02	1.6E-01
PM_{10}	1.1E-02	4.8E-02	1.5E+00	6.6E+00
$PM_{2.5}$	5.7E-03	2.5E-02	7.8E-01	3.4E+00
VOC	1.1E-02	4.8E-02	1.5E+00	6.6E+00
Benzene	2.2E-04	9.8E-04	3.1E-02	1.3E-01
Toluene	3.0E-04	1.3E-03	4.1E-02	1.8E-01
Ethylbenzene	5.5E-05	2.4E-04	7.5E-03	3.3E-02
Xylene	2.9E-04	1.3E-03	4.0E-02	1.8E-01
Formaldehyde	2.2E-03	9.8E-03	3.1E-01	1.3E+00
nHexane	3.8E-05	1.6E-04	5.2E-03	2.3E-02
CO_2e	4.1E+01	1.8E+02	5.6E+03	2.4E+04

1 Emission factors are the emission rates divided by total acres of the North and South WOC and Airstrip.

Table D.2-13. Emissions for Gravel Mining and Reservoir Development

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-MCY)	Annual (ton/yr-MCY)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.6E+00	6.9E+00	1.1E+01	4.7E+01
CO	4.1E+00	1.8E+01	2.8E+01	1.2E+02
SO_2	1.2E-01	5.1E-01	8.0E-01	3.5E+00
PM_{10}	1.3E-01	5.7E-01	8.9E-01	3.9E+00
$PM_{2.5}$	3.6E-02	1.6E-01	2.5E-01	1.1E+00
VOC	7.7E-02	3.4E-01	5.2E-01	2.3E+00
Benzene	1.9E-03	8.4E-03	1.3E-02	5.7E-02
Toluene	2.3E-03	1.0E-02	1.6E-02	7.0E-02
Ethylbenzene	4.5E-04	2.0E-03	3.1E-03	1.3E-02
Xylene	2.2E-03	9.6E-03	1.5E-02	6.5E-02
Formaldehyde	1.8E-02	8.0E-02	1.2E-01	5.4E-01
nHexane	2.7E-04	1.2E-03	1.9E-03	8.2E-03
CO_2e	2.4E+02	1.1E+03	1.7E+03	7.3E+03

1 Emission factors are the emission rates divided by total gravel required in million cubic yards (MCY).

Table D.2-14. Emissions for Construction Traffic

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kmile)	Annual (ton/yr-kmile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	9.8E-05	4.3E-04	3.6E+00	1.6E+01
CO	6.3E-05	2.7E-04	2.3E+00	1.0E+01
SO_2	3.9E-07	1.7E-06	1.4E-02	6.3E-02
PM_{10}	9.6E-04	4.2E-03	3.5E+01	1.5E+02
$PM_{2.5}$	1.0E-04	4.4E-04	3.7E+00	1.6E+01
VOC	1.4E-05	6.3E-05	5.3E-01	2.3E+00
Benzene	1.1E-07	4.7E-07	3.9E-03	1.7E-02
Toluene	1.1E-07	4.7E-07	3.9E-03	1.7E-02
Ethylbenzene	4.0E-08	1.8E-07	1.5E-03	6.5E-03
Xylene	1.2E-07	5.1E-07	4.3E-03	1.9E-02
Formaldehyde	1.2E-06	5.4E-06	4.5E-02	2.0E-01
nHexane	3.4E-08	1.5E-07	1.3E-03	5.5E-03
CO_2e	4.8E-02	2.1E-01	1.8E+03	7.7E+03

1 Emission factors are the emission rates divided by total number of construction traffic miles in thousand of miles (kmile).

Table D.2-15. Emissions for Early Operations Power Generation at the North and South WOC

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kWe)	Annual (ton/yr-kWe)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	5.1E-03	2.2E-02	1.5E+02	6.5E+02
CO	4.0E-03	1.8E-02	1.2E+02	5.1E+02
SO_2	1.9E-05	8.2E-05	5.5E-01	2.4E+00
PM_{10}	2.6E-04	1.2E-03	7.7E+00	3.4E+01
$PM_{2.5}$	2.6E-04	1.2E-03	7.7E+00	3.4E+01
VOC	2.7E-04	1.2E-03	7.8E+00	3.4E+01
Benzene	1.5E-06	6.5E-06	4.3E-02	1.9E-01
Toluene	3.8E-07	1.7E-06	1.1E-02	4.9E-02
Ethylbenzene	1.4E-09	6.3E-09	4.2E-05	1.8E-04
Xylene	2.6E-07	1.1E-06	7.6E-03	3.3E-02
Formaldehyde	2.5E-06	1.1E-05	7.3E-02	3.2E-01
nHexane	4.1E-09	1.8E-08	1.2E-04	5.2E-04
CO_2e	1.7E+00	7.2E+00	4.8E+04	2.1E+05

1 Emission factors are the emission rates divided by total temporary power at the North and South WOC.

Table D.2-16. Emissions for Drilling of All Wells at Drillsite Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-well)	Annual (ton/yr-well)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.8E-01	8.0E-01	4.6E+01	2.0E+02
CO	4.8E-01	2.1E+00	1.2E+02	5.3E+02
SO_2	1.3E-03	5.8E-03	3.3E-01	1.5E+00
PM_{10}	1.2E-02	5.2E-02	3.0E+00	1.3E+01
$PM_{2.5}$	1.1E-02	5.0E-02	2.8E+00	1.2E+01
VOC	9.9E-02	4.3E-01	2.5E+01	1.1E+02
Benzene	3.9E-04	1.7E-03	9.7E-02	4.2E-01
Toluene	1.9E-04	8.3E-04	4.7E-02	2.1E-01
Ethylbenzene	1.2E-05	5.4E-05	3.1E-03	1.3E-02
Xylene	1.1E-04	5.0E-04	2.9E-02	1.3E-01
Formaldehyde	3.1E-04	1.4E-03	7.8E-02	3.4E-01
nHexane	2.4E-03	1.0E-02	5.9E-01	2.6E+00
CO_2e	1.2E+02	5.1E+02	2.9E+04	1.3E+05

1 Emission factors are the emission rates divided by total number of wells drilled at all drillsite pads.

Table D.2-17. Emissions for Drilling Traffic

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kmile)	Annual (ton/yr-kmile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	5.9E-04	2.6E-03	1.9E+00	8.4E+00
CO	2.5E-04	1.1E-03	8.0E-01	3.5E+00
SO_2	2.2E-06	9.6E-06	7.2E-03	3.2E-02
PM_{10}	1.2E-02	5.2E-02	3.9E+01	1.7E+02
$PM_{2.5}$	1.2E-03	5.4E-03	4.0E+00	1.8E+01
VOC	7.7E-05	3.4E-04	2.5E-01	1.1E+00
Benzene	7.3E-07	3.2E-06	2.4E-03	1.0E-02
Toluene	9.0E-07	4.0E-06	3.0E-03	1.3E-02
Ethylbenzene	2.9E-07	1.3E-06	9.6E-04	4.2E-03
Xylene	1.0E-06	4.5E-06	3.4E-03	1.5E-02
Formaldehyde	8.9E-06	3.9E-05	2.9E-02	1.3E-01
nHexane	2.6E-07	1.1E-06	8.6E-04	3.7E-03
CO_2e	2.7E-01	1.2E+00	8.8E+02	3.8E+03

1 Emission factors are the emission rates divided by total number of drilling traffic miles in thousand of miles (kmile).

Table D.2-18. Emissions for Operations of All Drillsite Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-pad)	Annual (ton/yr-pad)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.5E+00	6.7E+00	7.7E+00	3.4E+01
CO	1.3E+00	5.6E+00	6.4E+00	2.8E+01
SO_2	3.5E-02	1.6E-01	1.8E-01	7.8E-01
PM_{10}	1.9E-01	8.4E-01	9.6E-01	4.2E+00
$PM_{2.5}$	1.0E-01	4.4E-01	5.0E-01	2.2E+00
VOC	2.1E+01	9.3E+01	1.1E+02	4.7E+02
Benzene	2.2E-02	9.6E-02	1.1E-01	4.8E-01
Toluene	6.0E-02	2.6E-01	3.0E-01	1.3E+00
Ethylbenzene	5.4E-01	2.3E+00	2.7E+00	1.2E+01
Xylene	1.1E+00	4.6E+00	5.3E+00	2.3E+01
Formaldehyde	6.5E-04	2.9E-03	3.3E-03	1.4E-02
nHexane	1.3E+00	5.8E+00	6.6E+00	2.9E+01
CO_2e	1.0E+03	4.5E+03	5.2E+03	2.3E+04

1 Emission factors are the emission rates divided by number of drillsite pads.

Table D.2-19. Emissions for Operations of WPF

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kbbl/day)	Annual (ton/yr-kbbl/day)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	5.7E-01	2.5E+00	1.1E+02	5.0E+02
CO	5.5E-01	2.4E+00	1.1E+02	4.8E+02
SO_2	5.4E-02	2.4E-01	1.1E+01	4.8E+01
PM_{10}	6.2E-02	2.7E-01	1.2E+01	5.4E+01
$PM_{2.5}$	6.1E-02	2.7E-01	1.2E+01	5.3E+01
VOC	2.1E-01	9.2E-01	4.2E+01	1.8E+02
Benzene	2.7E-04	1.2E-03	5.3E-02	2.3E-01
Toluene	1.2E-03	5.3E-03	2.4E-01	1.1E+00
Ethylbenzene	3.3E-04	1.5E-03	6.7E-02	2.9E-01
Xylene	6.6E-04	2.9E-03	1.3E-01	5.8E-01
Formaldehyde	2.0E-03	8.5E-03	3.9E-01	1.7E+00
nHexane	8.8E-03	3.9E-02	1.8E+00	7.7E+00
CO_2e	9.8E+02	4.3E+03	2.0E+05	8.5E+05

1 Emission factors are the emission rates divided by WPF operating capacity in thousand of barrels per day (kbbl/day).

Table D.2-20. Emissions for Operations of North and South WOC and Airstrips

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-person)	Annual (ton/yr-person)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.3E-01	5.7E-01	5.2E+01	2.3E+02
CO	1.2E-01	5.1E-01	4.7E+01	2.1E+02
SO_2	4.4E-03	1.9E-02	1.8E+00	7.8E+00
PM_{10}	1.8E-02	7.9E-02	7.2E+00	3.2E+01
$PM_{2.5}$	1.7E-02	7.3E-02	6.6E+00	2.9E+01
VOC	1.8E-02	7.9E-02	7.2E+00	3.2E+01
Benzene	8.6E-05	3.7E-04	3.4E-02	1.5E-01
Toluene	1.1E-04	4.7E-04	4.3E-02	1.9E-01
Ethylbenzene	2.0E-05	8.6E-05	7.9E-03	3.4E-02
Xylene	5.8E-05	2.6E-04	2.3E-02	1.0E-01
Formaldehyde	1.5E-04	6.5E-04	5.9E-02	2.6E-01
nHexane	4.3E-06	1.9E-05	1.7E-03	7.6E-03
CO_2e	9.4E+01	4.1E+02	3.7E+04	1.6E+05

1 Emission factors are the emission rates divided by number of personnel housed at North and South WOC.

Table D.2-21. Emissions for Aircraft Flights

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-flight/year)	Annual (ton/yr-flight/year)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	7.5E-03	3.3E-02	2.7E-01	1.2E+00
CO	2.9E-02	1.3E-01	1.0E+00	4.5E+00
SO_2	1.1E-03	4.7E-03	3.8E-02	1.7E-01
PM_{10}	4.0E-04	1.8E-03	1.4E-02	6.2E-02
$PM_{2.5}$	4.0E-04	1.8E-03	1.4E-02	6.2E-02
VOC	4.0E-03	1.8E-02	1.4E-01	6.2E-01
Benzene	7.1E-05	3.1E-04	2.5E-03	1.1E-02
Toluene	2.8E-05	1.2E-04	1.0E-03	4.4E-03
Ethylbenzene	7.6E-06	3.3E-05	2.7E-04	1.2E-03
Xylene	1.9E-05	8.3E-05	6.7E-04	2.9E-03
Formaldehyde	5.2E-04	2.3E-03	1.9E-02	8.1E-02
nHexane	6.2E-07	2.7E-06	2.2E-05	9.6E-05
CO_2e	2.9E+00	1.3E+01	1.0E+02	4.4E+02

1 Emission factors are the emission rates divided by the average number of flights per year.

Table D.2-22. Emissions for Operations Traffic

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kmile)	Annual (ton/yr-kmile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	5.7E-05	2.5E-04	8.5E-01	3.7E+00
CO	3.9E-05	1.7E-04	5.8E-01	2.6E+00
SO_2	2.1E-07	9.3E-07	3.2E-03	1.4E-02
PM_{10}	1.7E-03	7.3E-03	2.5E+01	1.1E+02
$PM_{2.5}$	1.7E-04	7.4E-04	2.5E+00	1.1E+01
VOC	8.4E-06	3.7E-05	1.3E-01	5.5E-01
Benzene	7.3E-08	3.2E-07	1.1E-03	4.8E-03
Toluene	8.0E-08	3.5E-07	1.2E-03	5.2E-03
Ethylbenzene	2.8E-08	1.2E-07	4.2E-04	1.9E-03
Xylene	8.8E-08	3.9E-07	1.3E-03	5.8E-03
Formaldehyde	8.5E-07	3.7E-06	1.3E-02	5.6E-02
nHexane	2.5E-08	1.1E-07	3.7E-04	1.6E-03
CO_2e	2.6E-02	1.1E-01	3.9E+02	1.7E+03

1 Emission factors are the emission rates divided by total number of operation traffic miles in thousand of miles (kmile).

Table D.2-23. Average Annual Emissions per Well

Pollutant	Emissions (ton/year/well)			
	Directional Oil Wells		Directional Injection Wells	
	New Well (Construction and Drilling)	Well > 1 Year (Production and Operations)	New Well (Construction and Drilling)	Well > 1 Year (Production and Operations)
NOx	2.04	3.06	2.04	3.06
CO	1.95	2.87	1.95	2.87
SO2	0.02	0.22	0.02	0.22
PM10	1.03	0.79	1.03	0.79
PM2.5	0.20	0.38	0.20	0.38
VOC	0.24	2.72	0.24	2.72
Benzene	1.90E-03	3.47E-03	1.90E-03	3.47E-03
Toluene	1.75E-03	1.03E-02	1.75E-03	1.03E-02
Ethylbenzene	3.15E-04	4.80E-02	3.15E-04	4.80E-02
Xylenes	1.60E-03	9.48E-02	1.60E-03	9.48E-02
Formaldehyde	1.26E-02	8.21E-03	1.26E-02	8.21E-03
n-Hexane	2.99E-03	1.46E-01	2.99E-03	1.46E-01
CO2e	718	4154	718	4154

Table D.2-24. Annual Emissions for Construction, Drilling, and Completion Activities

Project Year	Calendar Year	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$	VOC
0	2020	20.4	32.6	0.9	1.2	0.5	1.3
1	2021	434.0	372.1	4.0	65.8	25.6	27.3
2	2022	805.4	642.9	6.2	136.2	49.4	47.9
3	2023	905.1	685.1	5.9	274.8	67.8	60.3
4	2024	1060.0	1082.9	6.7	418.9	91.2	123.4
5	2025	637.9	747.0	4.3	357.0	66.8	95.4
6	2026	173.7	196.3	1.8	168.9	26.6	51.6
7	2027	223.5	259.6	3.3	305.5	40.7	46.7
8	2028	210.2	231.0	2.5	295.2	39.8	46.2
9	2029	129.8	151.7	0.6	293.4	37.1	38.9
10	2030	2.6	0.7	0.0	0.1	0.1	0.2
11	2031	2.6	0.7	0.0	0.1	0.1	0.2
12	2032	2.6	0.7	0.0	0.1	0.1	0.2
13	2033	2.6	0.7	0.0	0.1	0.1	0.2
14	2034	2.6	0.7	0.0	0.1	0.1	0.2
15	2035	2.6	0.7	0.0	0.1	0.1	0.2
16-30	2036-2050	2.6	0.7	0.0	0.1	0.1	0.2

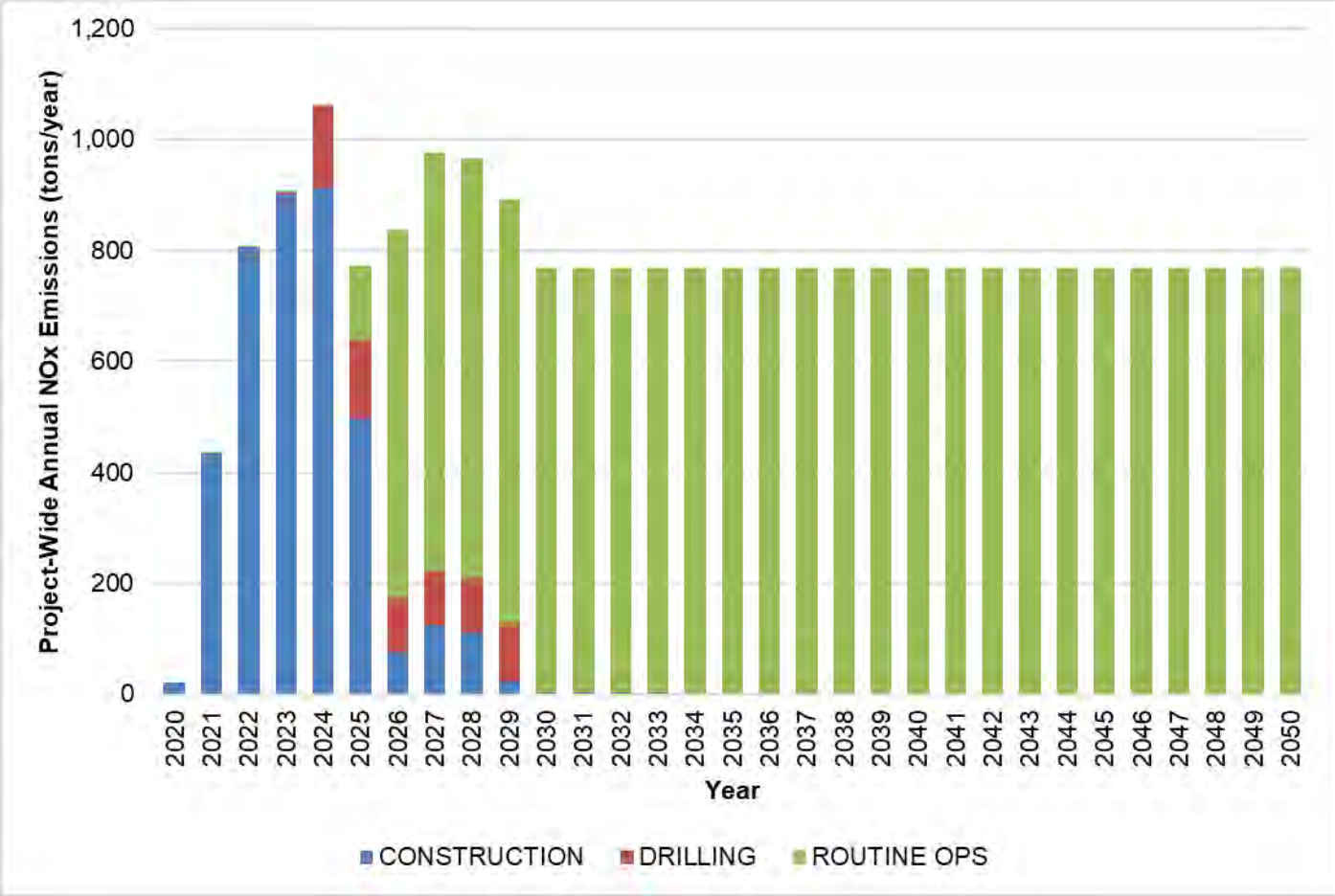


Figure D.2-1. Bar Chart of Annual Emissions for Each Phase of Development for NOx

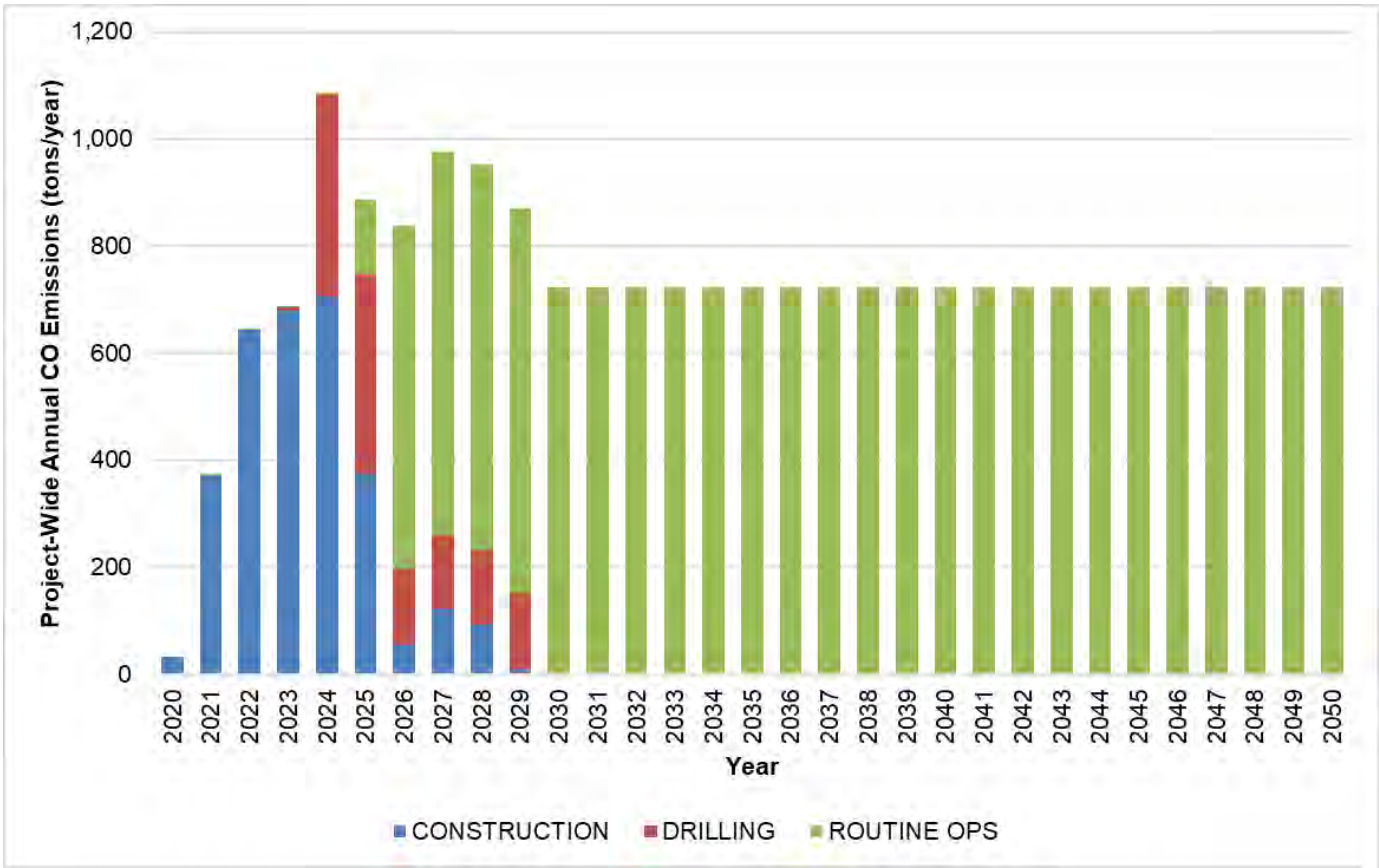


Figure D.2-2. Bar Chart of Annual Emission for Each Phase of Development CO

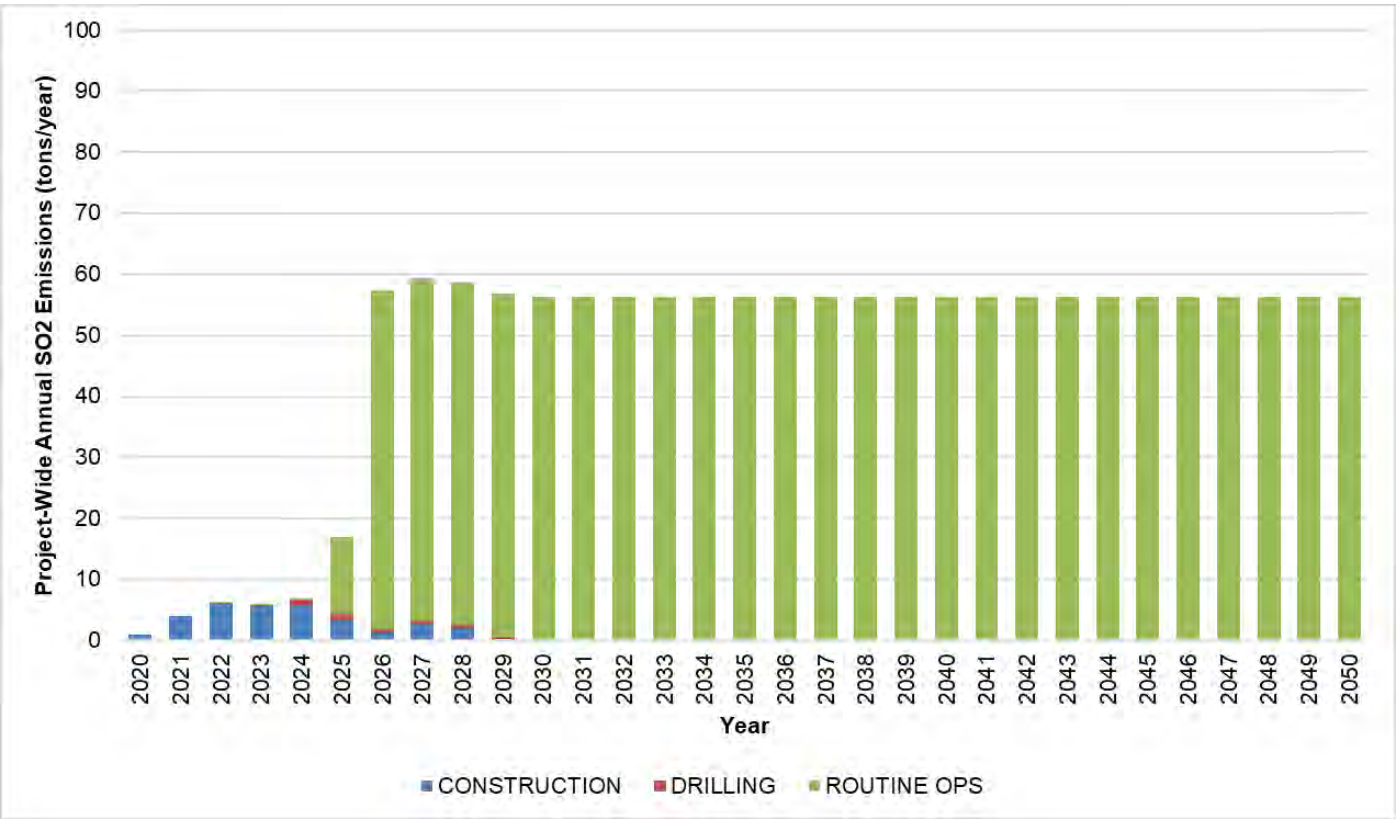


Figure D.2-3. Bar Chart of Annual Emissions for Each Phase of Development SO_2

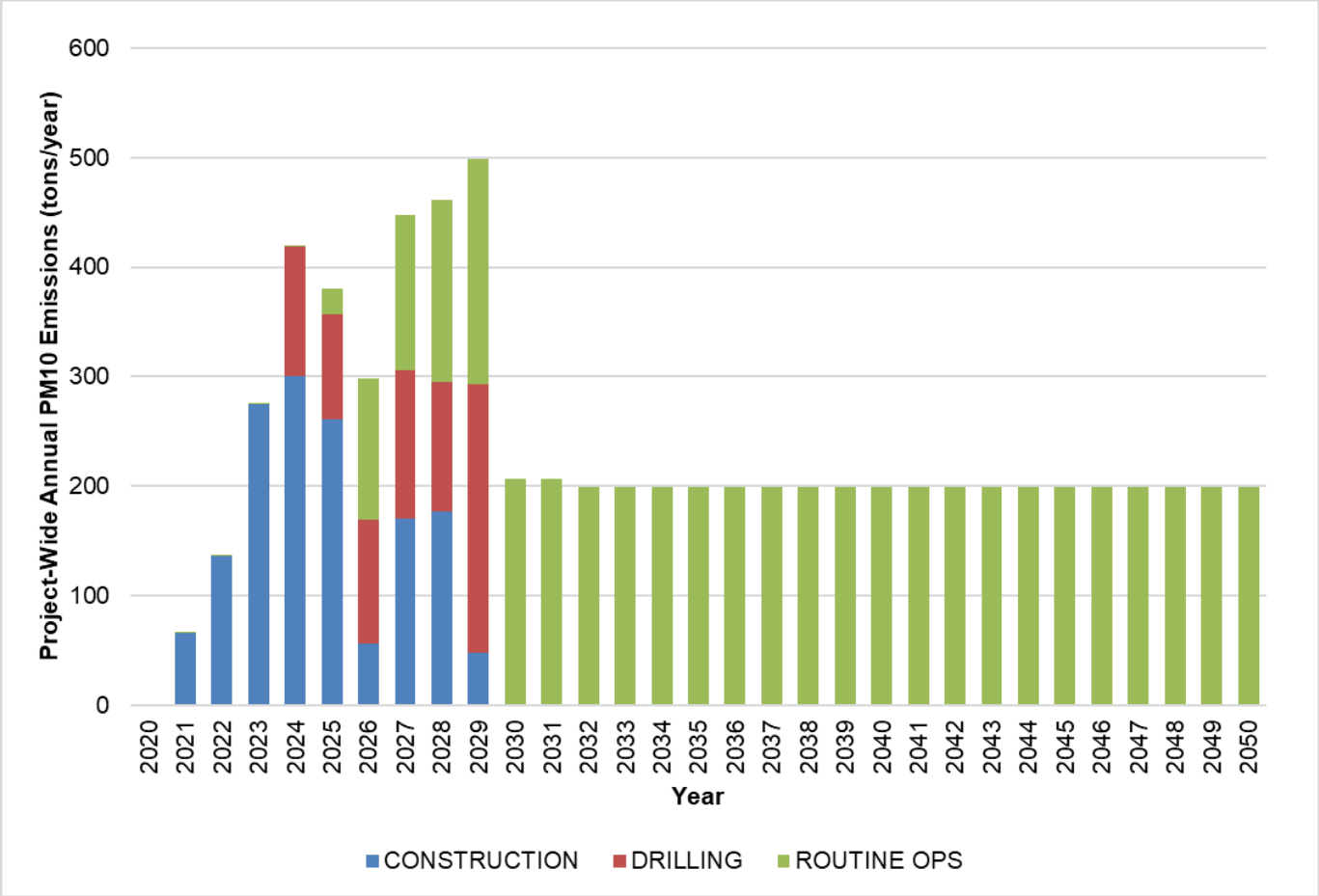


Figure D.2-4. Bar Chart of Annual Emissions for Each Phase of Development for PM_{10}

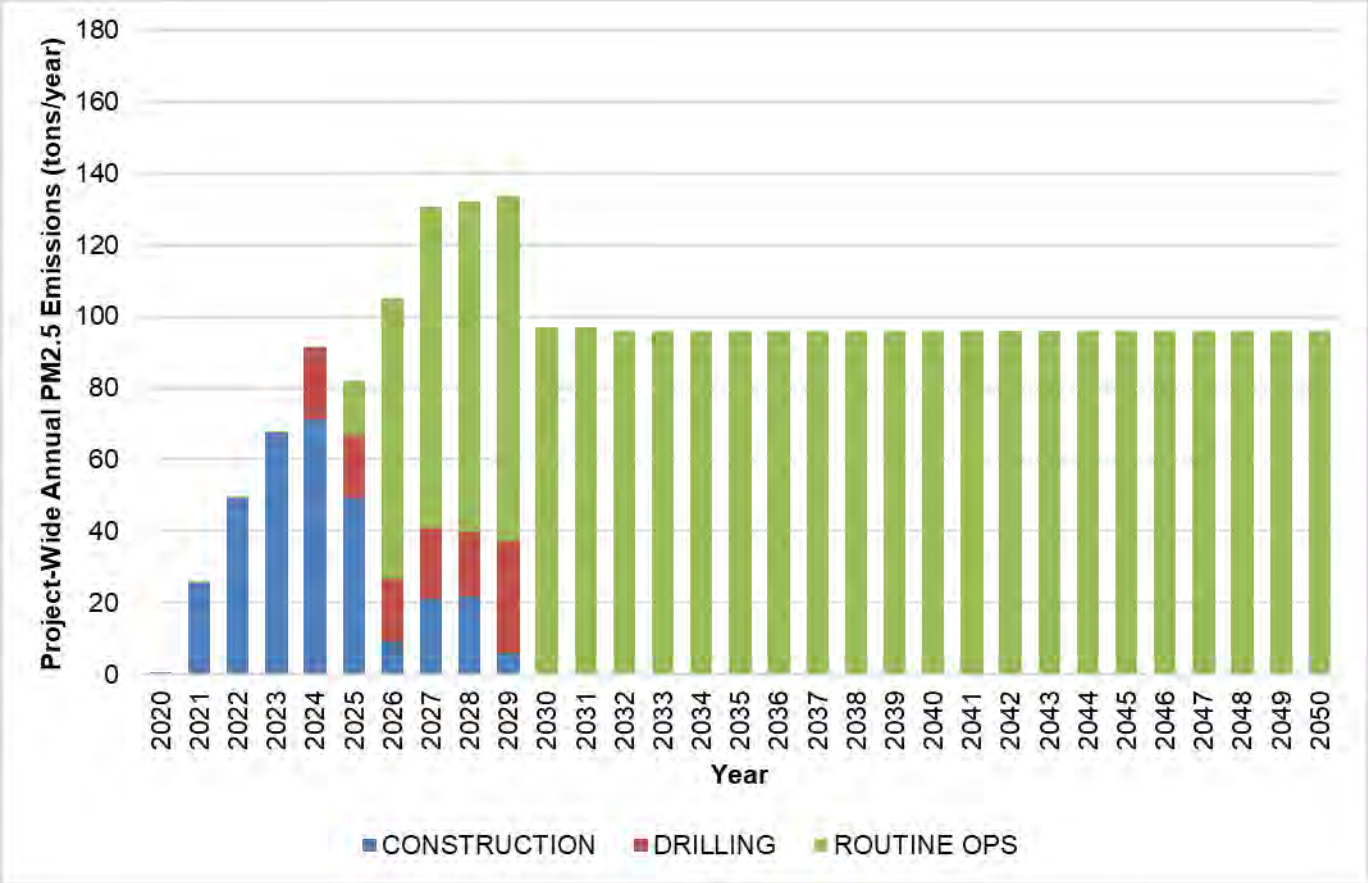


Figure D.2-5. Bar Chart of Annual Emissions for Each Phase of Development for $PM_{2.5}$

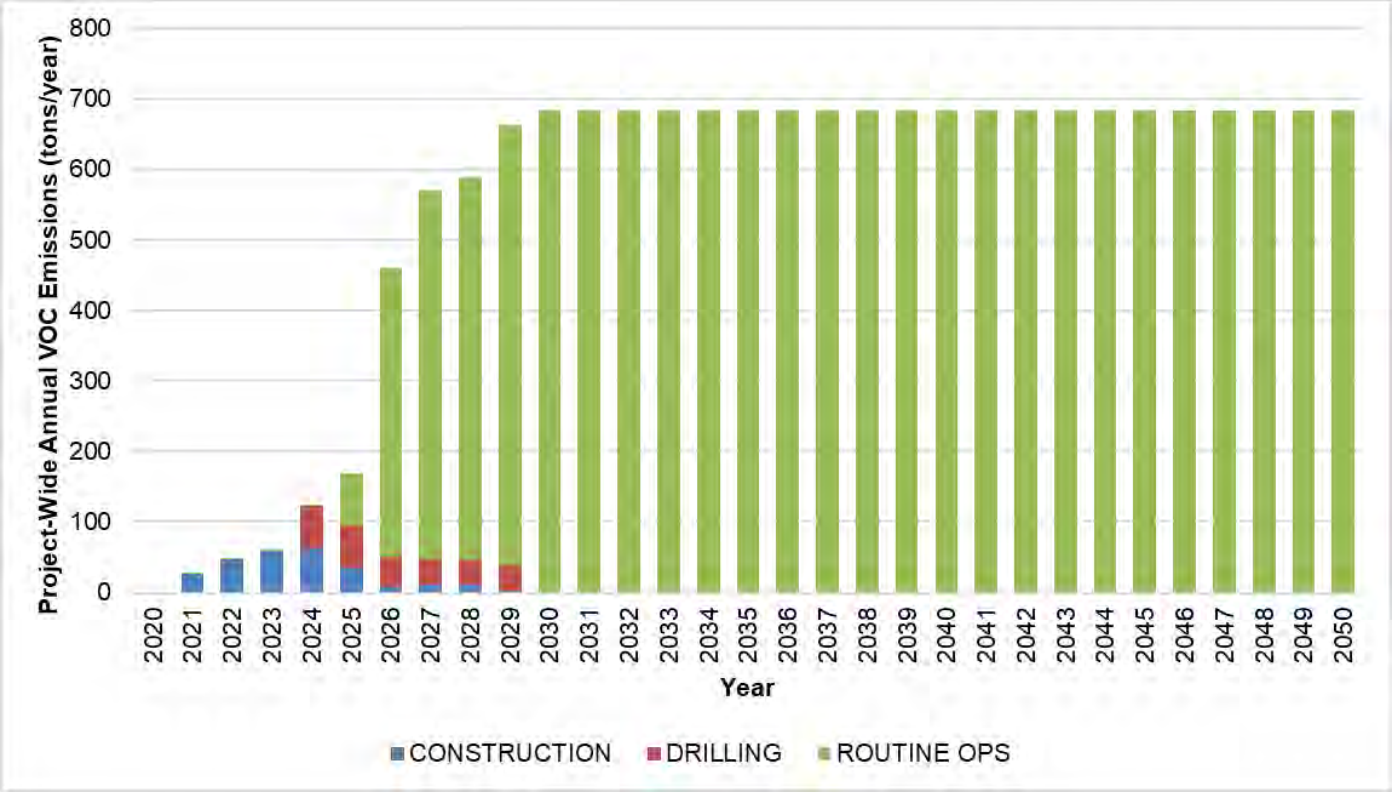


Figure D.2-6. Bar Chart of Annual Emissions for Each Phase of Development for VOC

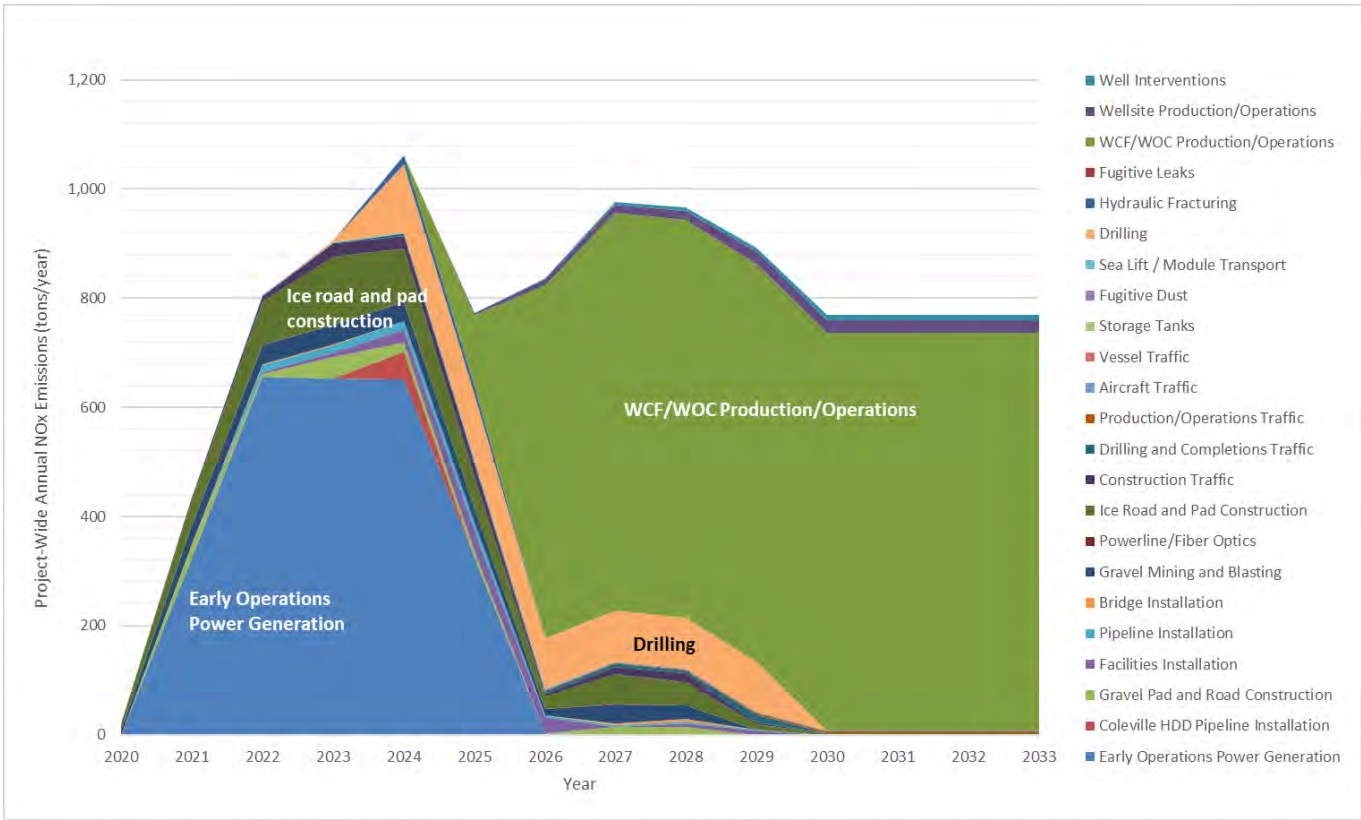


Figure D.2-7. Emissions by Source Type and Year for Alternative C for NOx

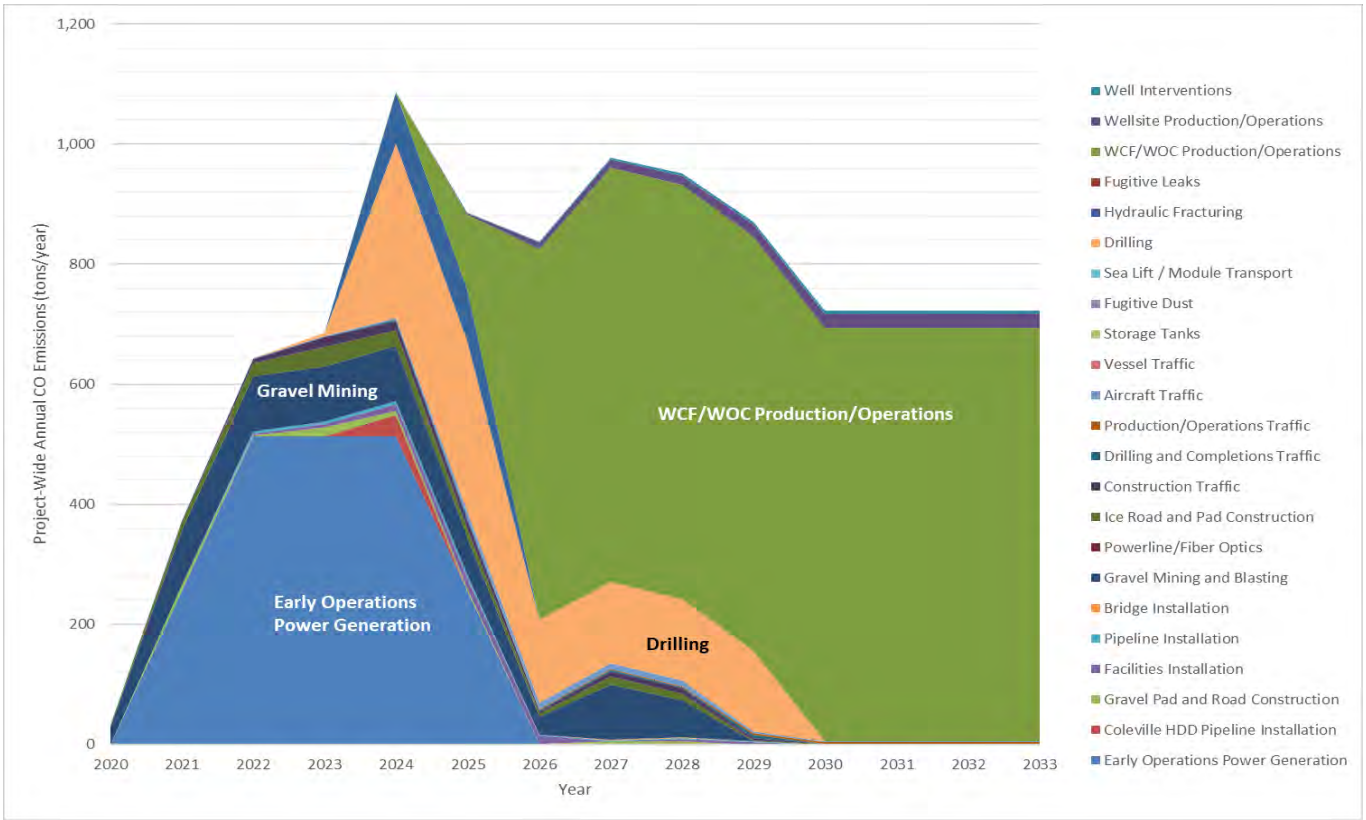


Figure D.2-8. Emissions by Source Type and Year for Alternative C for CO

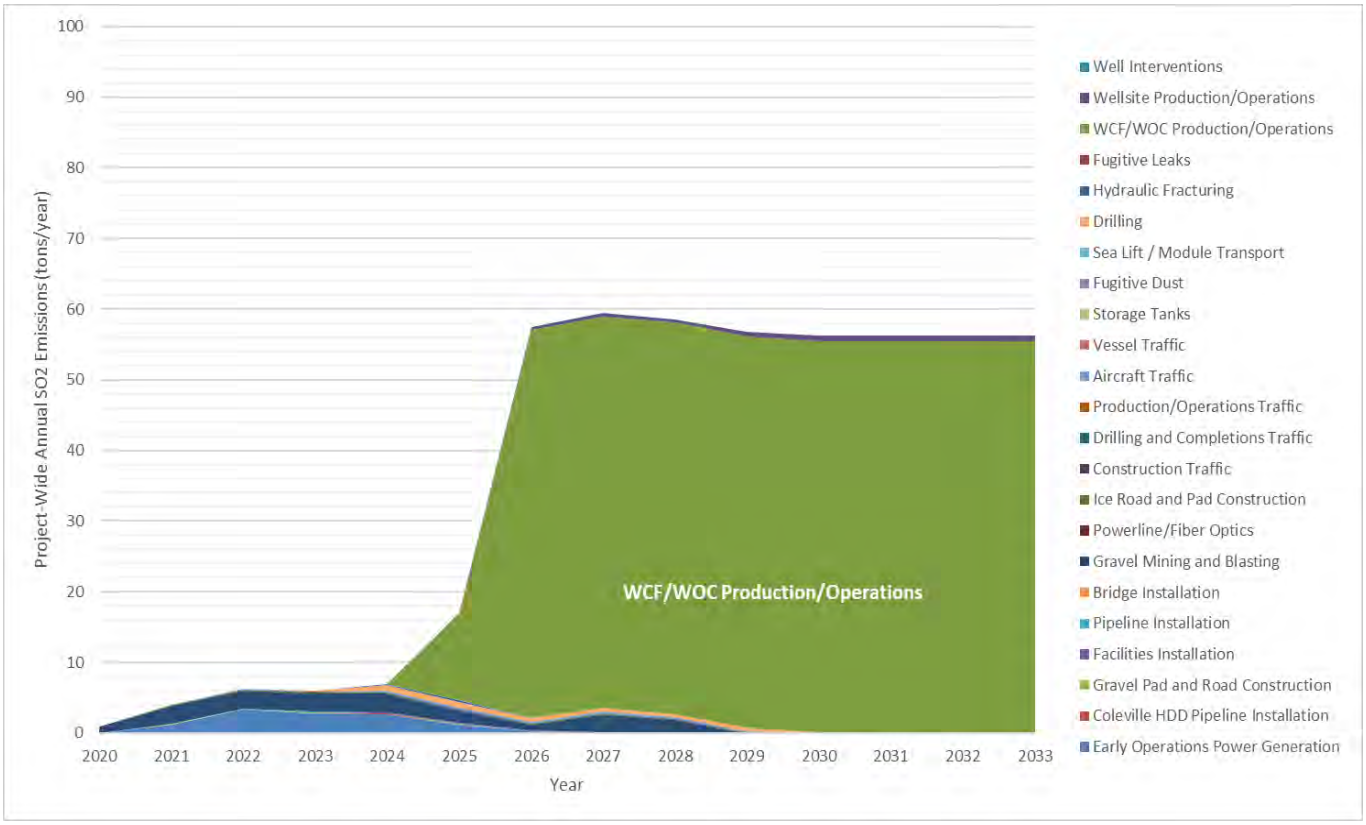


Figure D.2-9. Emissions by Source Type and Year for Alternative C for SO_2

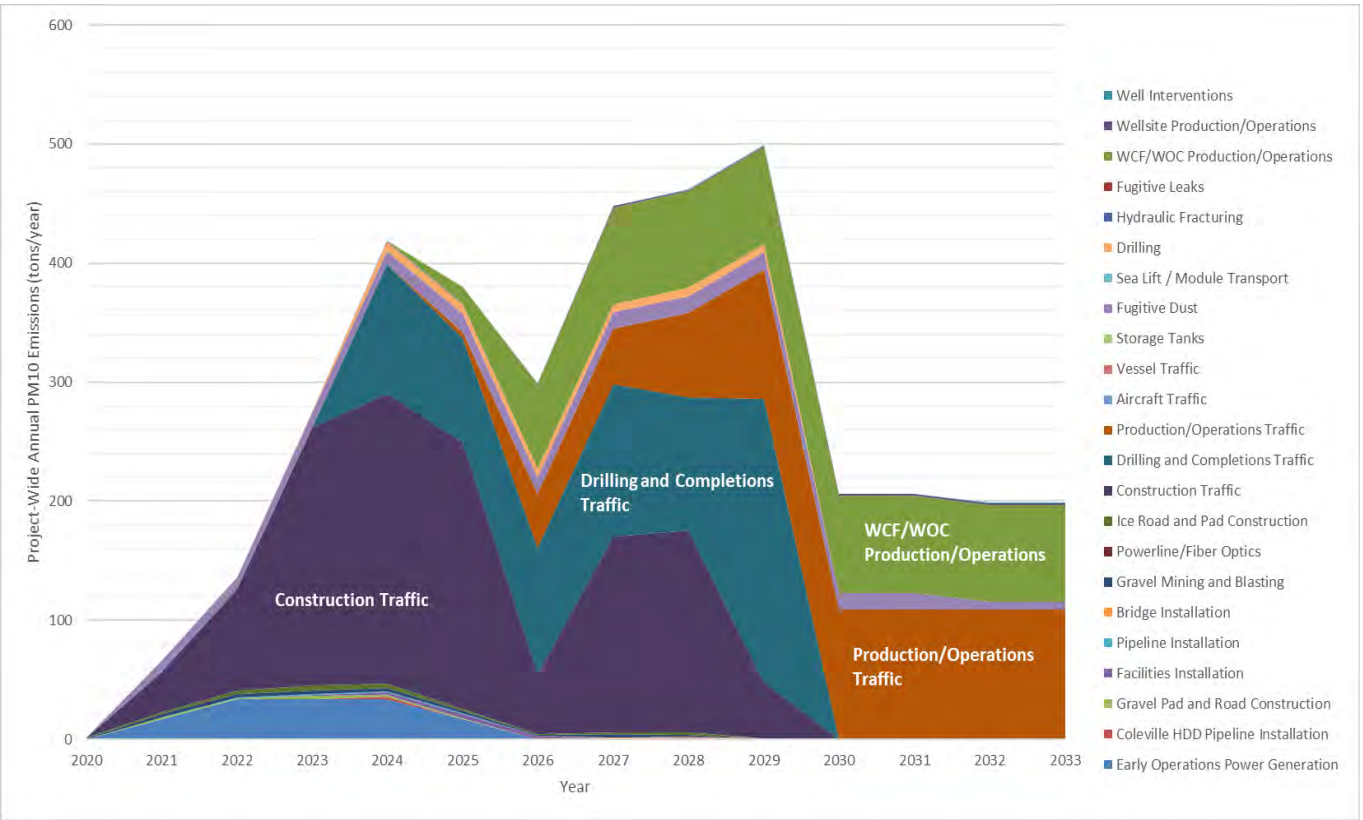


Figure D.2-10. Emissions by Source Type and Year for Alternative C for PM_{10}

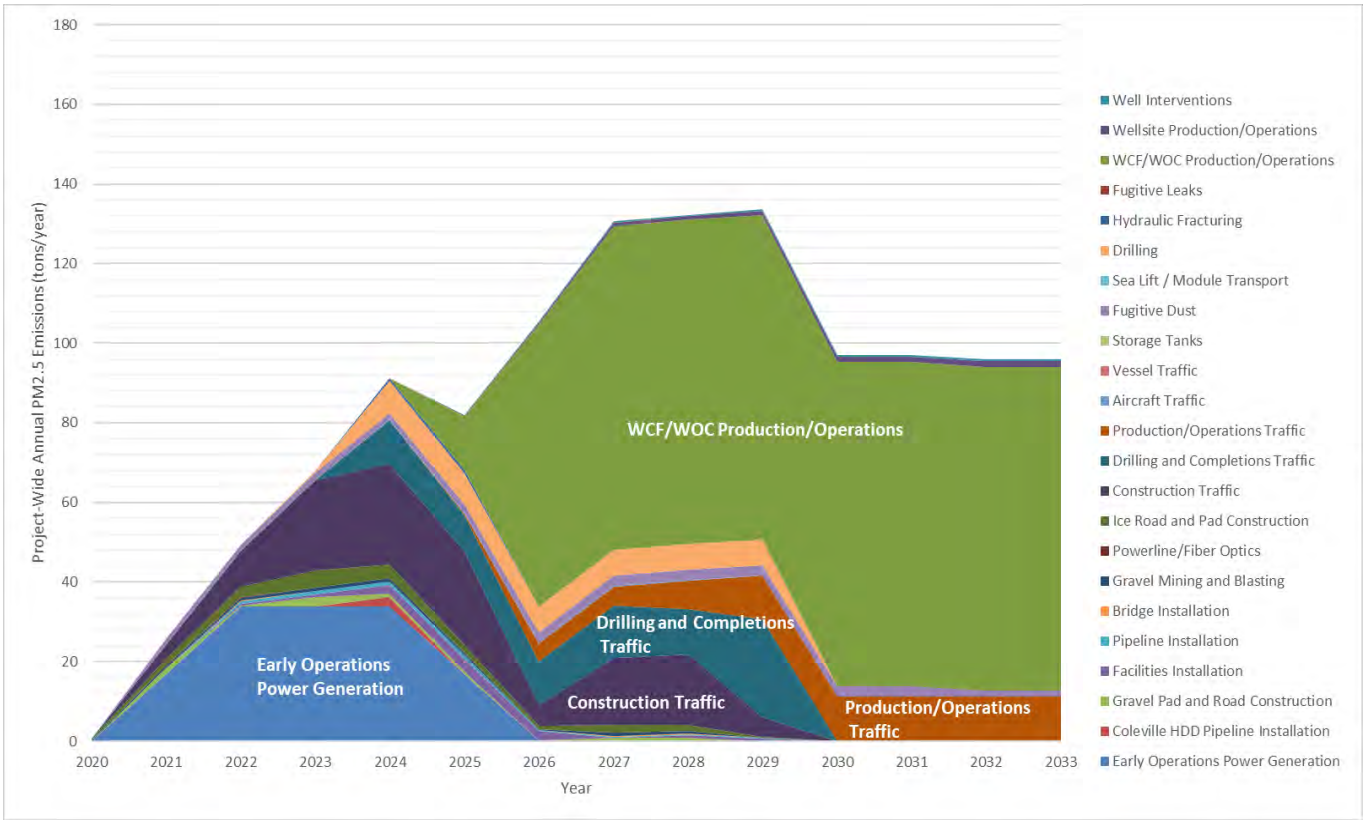


Figure D.2-11. Emissions by Source Type and Year for Alternative C for $PM_{2.5}$

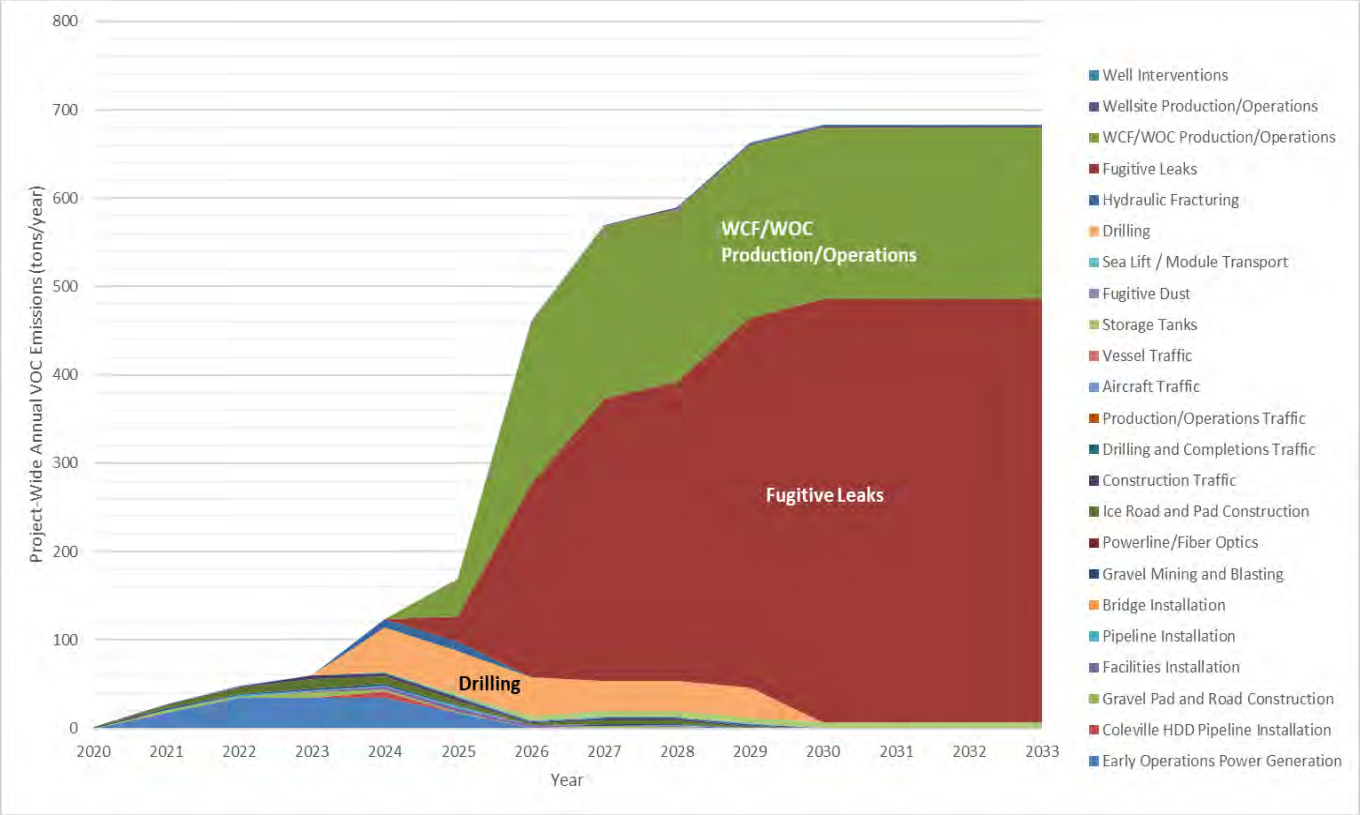


Figure D.2-12. Emissions by Source Type and Year for Alternative C for VOC

ENCLOSURE D.3 ALTERNATIVE D SUMMARY EMISSIONS TABLES

Table D.3-1. List of Assumptions for Summary Tables

Table(s)/Figure	Assumption/Note
Various	Emissions from module delivery options are not included in this attachment. 50% of all Project wells are producing wells, 50% are injection wells. Emissions related to both types of wells are summarized.
Table D.3-23	This table represents the total annual emissions for the Project Area divided by a maximum of 251 wells. We assume no difference in emissions between injection and producing wells. Emissions from new wells include all emissions related to construction and drilling, divided by the total number of wells and number of years considered to get an average annual emission rate for constructing and drilling each well. Emissions from wells >1 year represent emissions unrelated to construction and drilling and are representative of annual emissions from annual production/operations on a per well basis.
Figure D.3-1	Drilling will occur until 2031.

Table D.3-2. Alternative D Emissions Summary (tpy) for a Typical Production Year

Pollutant	Existing Wells Emissions	Future Wells Emissions	No Action	Proposed Action	Total emissions for the project area (existing and future wells)	Existing to Future Difference in Total Project Area Emissions (including Alternative D)
NOx	0	653.6	0.0	653.6	653.6	653.6
CO	0	619.7	0.0	619.7	619.7	619.7
SO_2	0	52.5	0.0	52.5	52.5	52.5
PM_{10}	0	234.6	0.0	234.6	234.6	234.6
$PM_{2.5}$	0	86.2	0.0	86.2	86.2	86.2
VOC	0	665.0	0.0	665.0	665.0	665.0

Table D.3-3a. Annual Criteria Pollutant Emissions (tons) for Construction Only

Project Year	Calendar Year	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	2020	22.6	33.3	0.9	1.3	0.6	1.5
1	2021	456.2	379.0	4.0	65.9	26.4	29.7
2	2022	510.8	397.9	4.1	152.0	37.1	34.4
3	2023	595.1	429.8	5.3	255.0	51.1	44.4
4	2024	597.5	422.9	3.9	280.7	54.1	47.2
5	2025	92.5	36.5	0.5	124.8	16.8	10.0
6	2026	61.3	26.5	0.2	95.5	13.0	6.7
7	2027	76.0	55.6	1.3	125.7	16.0	7.2
8	2028	136.5	129.9	2.9	152.9	20.0	12.9
9	2029	116.1	95.8	2.0	183.9	22.7	11.7
10	2030	27.7	11.1	0.1	77.1	9.0	3.0
11	2031	9.0	2.5	0.0	0.3	0.3	0.8
12	2032	9.0	2.5	0.0	0.3	0.3	0.8
13	2033	7.8	2.2	0.0	0.3	0.3	0.7

Project Year	Calendar Year	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
14	2034	7.8	2.2	0.0	0.3	0.3	0.7
15	2035	7.8	2.2	0.0	0.3	0.3	0.7
16-31	2036-2051	7.8	2.2	0.0	0.3	0.3	0.7

Table D.3-3b. Annual Criteria Pollutant Emissions (tons) for Drilling and Completion Only

Project Year	Calendar Year	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	2020	0.0	0.0	0.0	0.0	0.0	0.0
1	2021	0.0	0.0	0.0	0.0	0.0	0.0
2	2022	0.0	0.0	0.0	0.0	0.0	0.0
3	2023	3.8	5.3	0.0	0.3	0.3	0.4
4	2024	0.0	0.0	0.0	0.0	0.0	0.0
5	2025	142.5	372.3	1.0	131.7	21.0	60.5
6	2026	142.5	372.3	1.0	131.7	21.0	60.5
7	2027	98.2	140.6	0.5	129.7	19.0	44.6
8	2028	97.1	137.1	0.5	99.9	16.0	34.9
9	2029	97.7	137.5	0.5	129.7	19.0	35.0
10	2030	98.4	137.9	0.5	146.3	20.7	35.1
11	2031	0.0	0.0	0.0	0.0	0.0	0.0
12	2032	0.0	0.0	0.0	0.0	0.0	0.0
13	2033	0.0	0.0	0.0	0.0	0.0	0.0
14	2034	0.0	0.0	0.0	0.0	0.0	0.0
15	2035	0.0	0.0	0.0	0.0	0.0	0.0
16-31	2036-2051	0.0	0.0	0.0	0.0	0.0	0.0

Table D.3-3c. Annual Criteria Pollutant Emissions (tons) for Production and Operations Only

Project Year	Calendar Year	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	2020	0.0	0.0	0.0	0.0	0.0	0.0
1	2021	0.5	0.2	0.0	0.0	0.0	0.0
2	2022	0.5	0.3	0.0	0.0	0.0	0.0
3	2023	2.1	4.2	0.2	0.1	0.1	0.8
4	2024	2.5	4.5	0.3	2.9	0.5	0.8
5	2025	119.6	112.5	4.7	17.1	14.7	17.9
6	2026	250.1	238.1	16.9	45.1	29.9	64.9
7	2027	633.8	607.3	52.5	136.2	75.6	331.3
8	2028	637.2	609.4	52.6	136.9	75.9	431.8
9	2029	642.0	613.4	52.6	140.2	76.4	526.2
10	2030	648.5	618.3	52.7	146.3	77.4	606.5
11	2031	653.6	619.7	52.5	240.7	87.2	665.4
12	2032	653.6	619.7	52.5	234.6	86.2	665.0
13	2033	653.6	619.7	52.5	234.6	86.2	665.0
14	2034	653.6	619.7	52.5	234.6	86.2	665.0
15	2035	653.6	619.7	52.5	234.6	86.2	665.0
16-31	2036-2051	653.6	619.7	52.5	234.6	86.2	665.0

Table D.3-4.Well and Pads by Formation and Drilling Technology

Classification	New Wells	New Well Pads	Modification of Existing Well Pads	Single Well Pads	Multi-Well Pads	Expansion of Existing Well Pads	Total Pads
Directional Oil Wells	125.5	5	0	0	5	0	5
Directional Injection Wells	125.5		0	0		0	
Total	251	5	0	0	5	0	5

Table D.3-5. Emissions for Construction of All Drillsite Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/yr-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	6.5E-02	2.8E-01	5.7E+00	2.5E+01
CO	2.9E-02	1.3E-01	2.6E+00	1.1E+01
SO_2	2.5E-04	1.1E-03	2.2E-02	9.7E-02
PM_{10}	8.0E-03	3.5E-02	7.1E-01	3.1E+00
$PM_{2.5}$	5.4E-03	2.4E-02	4.8E-01	2.1E+00
VOC	8.6E-03	3.8E-02	7.6E-01	3.3E+00
Benzene	2.1E-04	9.4E-04	1.9E-02	8.3E-02
Toluene	2.5E-04	1.1E-03	2.2E-02	9.7E-02
Ethylbenzene	4.9E-05	2.1E-04	4.3E-03	1.9E-02
Xylene	2.3E-04	1.0E-03	2.0E-02	8.8E-02
Formaldehyde	2.0E-03	8.8E-03	1.8E-01	7.8E-01
nHexane	2.8E-05	1.2E-04	2.5E-03	1.1E-02
CO_2e	3.6E+01	1.6E+02	3.2E+03	1.4E+04

1 Emission factors are the emission rates divided by total acres of all drillsite pads

Table D.3-6. Emissions for Construction of All Bridges

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-mile)	Annual (ton/yr-mile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	2.4E+00	1.1E+01	5.1E-01	2.2E+00
CO	8.4E-01	3.7E+00	1.7E-01	7.6E-01
SO_2	9.7E-03	4.2E-02	2.0E-03	8.8E-03
PM_{10}	1.8E-01	7.9E-01	3.7E-02	1.6E-01
$PM_{2.5}$	1.7E-01	7.4E-01	3.5E-02	1.5E-01
VOC	2.2E-01	9.6E-01	4.6E-02	2.0E-01
Benzene	6.4E-03	2.8E-02	1.3E-03	5.8E-03
Toluene	6.5E-03	2.8E-02	1.3E-03	5.9E-03
Ethylbenzene	1.2E-03	5.2E-03	2.4E-04	1.1E-03
Xylene	4.9E-03	2.2E-02	1.0E-03	4.5E-03
Formaldehyde	5.2E-02	2.3E-01	1.1E-02	4.8E-02
nHexane	5.5E-04	2.4E-03	1.2E-04	5.0E-04
CO_2e	1.2E+03	5.4E+03	2.6E+02	1.1E+03

1 Emission factors are the emission rates divided by total length in miles of bridges constructed.

Table D.3-7. Emission for Construction of Gravel Roads and Support Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/yr-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	4.7E-03	2.1E-02	9.7E-01	4.3E+00
CO	1.8E-03	7.9E-03	3.7E-01	1.6E+00
SO_2	1.8E-05	8.1E-05	3.8E-03	1.7E-02
PM_{10}	7.2E-03	3.1E-02	1.5E+00	6.5E+00
$PM_{2.5}$	1.3E-03	5.8E-03	2.7E-01	1.2E+00
VOC	7.5E-04	3.3E-03	1.6E-01	6.8E-01
Benzene	1.6E-05	7.0E-05	3.3E-03	1.4E-02
Toluene	2.3E-05	1.0E-04	4.8E-03	2.1E-02
Ethylbenzene	4.3E-06	1.9E-05	9.0E-04	3.9E-03
Xylene	2.4E-05	1.0E-04	4.9E-03	2.2E-02
Formaldehyde	1.7E-04	7.6E-04	3.6E-02	1.6E-01
nHexane	3.1E-06	1.4E-05	6.5E-04	2.9E-03
CO_2e	3.0E+00	1.3E+01	6.3E+02	2.8E+03

1 Emission factors are the emission rates divided by total acres of all gravel roads and support pads (valve and water access pads).

Table D.3-8. Emission for Construction of Ice Roads and Ice Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/yr-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	3.7E-03	1.6E-02	2.4E+01	1.0E+02
CO	9.9E-04	4.3E-03	6.4E+00	2.8E+01
SO_2	4.4E-06	1.9E-05	2.8E-02	1.2E-01
PM_{10}	1.3E-04	5.7E-04	8.5E-01	3.7E+00
$PM_{2.5}$	1.3E-04	5.6E-04	8.2E-01	3.6E+00
VOC	3.3E-04	1.4E-03	2.1E+00	9.3E+00
Benzene	7.0E-06	3.1E-05	4.5E-02	2.0E-01
Toluene	9.6E-06	4.2E-05	6.2E-02	2.7E-01
Ethylbenzene	1.9E-06	8.5E-06	1.3E-02	5.5E-02
Xylene	1.0E-05	4.4E-05	6.5E-02	2.8E-01
Formaldehyde	7.5E-05	3.3E-04	4.9E-01	2.1E+00
nHexane	1.3E-06	5.8E-06	8.5E-03	3.7E-02
CO_2e	8.3E-01	3.6E+00	5.4E+03	2.4E+04

1 Emission factors are the emission rates divided by total acres of all ice roads and ice pads constructed through the life of the project.

Table D.3-9. Emissions for Construction of Powerlines and Fiber Optics

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-mile)	Annual (ton/yr-mile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	6.4E-03	2.8E-02	2.5E-01	1.1E+00
CO	2.6E-03	1.1E-02	1.0E-01	4.5E-01
SO_2	2.8E-05	1.2E-04	1.1E-03	5.0E-03
PM_{10}	5.4E-04	2.4E-03	2.1E-02	9.4E-02
$PM_{2.5}$	5.0E-04	2.2E-03	2.0E-02	8.8E-02
VOC	6.6E-04	2.9E-03	2.7E-02	1.2E-01
Benzene	1.9E-05	8.2E-05	7.5E-04	3.3E-03
Toluene	1.9E-05	8.1E-05	7.4E-04	3.3E-03
Ethylbenzene	3.6E-06	1.6E-05	1.5E-04	6.4E-04
Xylene	1.5E-05	6.4E-05	5.8E-04	2.6E-03
Formaldehyde	1.6E-04	6.8E-04	6.2E-03	2.7E-02
nHexane	1.7E-06	7.3E-06	6.7E-05	2.9E-04
CO_2e	3.5E+00	1.6E+01	1.4E+02	6.2E+02

1 Emission factors are the emission rates divided by total length in miles of powerline and fiber optics constructed.

Table D.3-10. Emissions for Construction of Pipelines

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-mile)	Annual (ton/yr-mile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.2E-01	5.2E-01	1.6E+01	7.0E+01
CO	7.3E-02	3.2E-01	9.7E+00	4.2E+01
SO_2	2.8E-04	1.2E-03	3.7E-02	1.6E-01
PM_{10}	6.0E-03	2.6E-02	8.0E-01	3.5E+00
$PM_{2.5}$	5.9E-03	2.6E-02	7.8E-01	3.4E+00
VOC	1.7E-02	7.3E-02	2.2E+00	9.7E+00
Benzene	1.6E-04	7.1E-04	2.1E-02	9.4E-02
Toluene	1.5E-04	6.4E-04	1.9E-02	8.5E-02
Ethylbenzene	2.3E-05	1.0E-04	3.1E-03	1.4E-02
Xylene	1.3E-04	5.6E-04	1.7E-02	7.5E-02
Formaldehyde	9.9E-04	4.3E-03	1.3E-01	5.8E-01
nHexane	1.4E-05	6.1E-05	1.9E-03	8.2E-03
CO_2e	3.3E+01	1.4E+02	4.4E+03	1.9E+04

1 Emission factors are the emission rates divided by total length in miles of pipeline constructed.

Table D.3-11. Emissions for Construction of WPF

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/yr-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.9E-01	8.5E-01	9.2E+00	4.1E+01
CO	7.9E-02	3.5E-01	3.8E+00	1.7E+01
SO_2	6.3E-04	2.8E-03	3.0E-02	1.3E-01
PM_{10}	1.8E-02	7.8E-02	8.5E-01	3.7E+00
$PM_{2.5}$	1.4E-02	6.0E-02	6.5E-01	2.9E+00
VOC	2.6E-02	1.1E-01	1.2E+00	5.5E+00
Benzene	6.4E-04	2.8E-03	3.0E-02	1.3E-01
Toluene	7.8E-04	3.4E-03	3.7E-02	1.6E-01
Ethylbenzene	1.5E-04	6.6E-04	7.1E-03	3.1E-02
Xylene	7.3E-04	3.2E-03	3.5E-02	1.5E-01
Formaldehyde	6.1E-03	2.7E-02	2.9E-01	1.3E+00
nHexane	9.3E-05	4.1E-04	4.4E-03	1.9E-02
CO_2e	9.8E+01	4.3E+02	4.7E+03	2.1E+04

1 Emission factors are the emission rates divided by total acres of the WPF.

Table D.3-12. Emissions for Construction of WOC and Airstrip

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/yr-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	8.4E-02	3.7E-01	9.0E+00	3.9E+01
CO	4.3E-02	1.9E-01	4.5E+00	2.0E+01
SO_2	2.9E-04	1.3E-03	3.1E-02	1.3E-01
PM_{10}	1.2E-02	5.1E-02	1.2E+00	5.4E+00
$PM_{2.5}$	6.3E-03	2.7E-02	6.7E-01	2.9E+00
VOC	1.2E-02	5.3E-02	1.3E+00	5.7E+00
Benzene	2.6E-04	1.2E-03	2.8E-02	1.2E-01
Toluene	3.5E-04	1.5E-03	3.7E-02	1.6E-01
Ethylbenzene	6.5E-05	2.8E-04	6.9E-03	3.0E-02
Xylene	3.4E-04	1.5E-03	3.6E-02	1.6E-01
Formaldehyde	2.6E-03	1.2E-02	2.8E-01	1.2E+00
nHexane	4.4E-05	1.9E-04	4.7E-03	2.1E-02
CO_2e	4.5E+01	2.0E+02	4.8E+03	2.1E+04

1 Emission factors are the emission rates divided by total acres of the WOC and Airstrip.

Table D.3-13. Emissions for Gravel Mining and Reservoir Development

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-MCY)	Annual (ton/yr-MCY)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.4E+00	6.2E+00	9.8E+00	4.3E+01
CO	3.5E+00	1.5E+01	2.4E+01	1.0E+02
SO_2	9.8E-02	4.3E-01	6.8E-01	3.0E+00
PM_{10}	1.1E-01	5.0E-01	7.9E-01	3.5E+00
$PM_{2.5}$	3.5E-02	1.5E-01	2.4E-01	1.1E+00
VOC	7.6E-02	3.3E-01	5.3E-01	2.3E+00
Benzene	1.9E-03	8.4E-03	1.3E-02	5.8E-02
Toluene	2.3E-03	1.0E-02	1.6E-02	7.0E-02
Ethylbenzene	4.5E-04	2.0E-03	3.1E-03	1.3E-02
Xylene	2.2E-03	9.5E-03	1.5E-02	6.6E-02
Formaldehyde	1.8E-02	7.9E-02	1.3E-01	5.5E-01
nHexane	2.7E-04	1.2E-03	1.9E-03	8.2E-03
CO_2e	2.4E+02	1.0E+03	1.7E+03	7.2E+03

1 Emission factors are the emission rates divided by total gravel required in million cubic yards (MCY).

Table D.3-14. Emissions for Construction Traffic

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kmile)	Annual (ton/yr-kmile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.0E-04	4.4E-04	3.9E+00	1.7E+01
CO	6.6E-05	2.9E-04	2.6E+00	1.1E+01
SO_2	3.9E-07	1.7E-06	1.5E-02	6.8E-02
PM_{10}	9.7E-04	4.3E-03	3.8E+01	1.7E+02
$PM_{2.5}$	1.0E-04	4.4E-04	4.0E+00	1.7E+01
VOC	1.5E-05	6.5E-05	5.8E-01	2.6E+00
Benzene	1.1E-07	4.8E-07	4.3E-03	1.9E-02
Toluene	1.1E-07	4.7E-07	4.3E-03	1.9E-02
Ethylbenzene	4.2E-08	1.8E-07	1.6E-03	7.1E-03
Xylene	1.2E-07	5.1E-07	4.6E-03	2.0E-02
Formaldehyde	1.3E-06	5.5E-06	4.9E-02	2.2E-01
nHexane	3.5E-08	1.5E-07	1.4E-03	6.0E-03
CO_2e	4.8E-02	2.1E-01	1.9E+03	8.2E+03

1 Emission factors are the emission rates divided by total number of construction traffic miles in thousand of miles (kmile).

Table D.3-15. Emissions for Early Operations Power Generation at the WOC

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kWe)	Annual (ton/yr-kWe)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	5.1E-03	2.2E-02	7.4E+01	3.2E+02
CO	4.0E-03	1.8E-02	5.8E+01	2.6E+02
SO_2	1.9E-05	8.2E-05	2.7E-01	1.2E+00
PM_{10}	2.6E-04	1.2E-03	3.8E+00	1.7E+01
$PM_{2.5}$	2.6E-04	1.2E-03	3.8E+00	1.7E+01
VOC	2.7E-04	1.2E-03	3.9E+00	1.7E+01
Benzene	1.5E-06	6.4E-06	2.1E-02	9.3E-02
Toluene	3.8E-07	1.7E-06	5.6E-03	2.4E-02
Ethylbenzene	1.4E-09	6.3E-09	2.1E-05	9.2E-05
Xylene	2.6E-07	1.1E-06	3.8E-03	1.7E-02
Formaldehyde	2.5E-06	1.1E-05	3.7E-02	1.6E-01
nHexane	4.1E-09	1.8E-08	5.9E-05	2.6E-04
CO_2e	1.7E+00	7.2E+00	2.4E+04	1.1E+05

1 Emission factors are the emission rates divided by total temporary power at the WOC.

Table D.3-16. Emissions for Drilling of All Wells at Drillsite Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-well)	Annual (ton/yr-well)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.8E-01	8.0E-01	4.6E+01	2.0E+02
CO	4.8E-01	2.1E+00	1.2E+02	5.3E+02
SO_2	1.3E-03	5.8E-03	3.3E-01	1.5E+00
PM_{10}	1.2E-02	5.2E-02	3.0E+00	1.3E+01
$PM_{2.5}$	1.1E-02	5.0E-02	2.8E+00	1.2E+01
VOC	9.9E-02	4.3E-01	2.5E+01	1.1E+02
Benzene	3.9E-04	1.7E-03	9.7E-02	4.2E-01
Toluene	1.9E-04	8.3E-04	4.7E-02	2.1E-01
Ethylbenzene	1.2E-05	5.4E-05	3.1E-03	1.3E-02
Xylene	1.1E-04	5.0E-04	2.9E-02	1.3E-01
Formaldehyde	3.1E-04	1.4E-03	7.8E-02	3.4E-01
nHexane	2.4E-03	1.0E-02	5.9E-01	2.6E+00
CO_2e	1.2E+02	5.1E+02	2.9E+04	1.3E+05

1 Emission factors are the emission rates divided by total number of wells drilled at all drillsite pads.

Table D.3-17. Emissions for Drilling Traffic

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kmile)	Annual (ton/yr-kmile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	5.5E-04	2.4E-03	1.7E+00	7.6E+00
CO	2.3E-04	1.0E-03	7.3E-01	3.2E+00
SO_2	2.1E-06	9.4E-06	6.8E-03	3.0E-02
PM_{10}	1.3E-02	5.8E-02	4.2E+01	1.8E+02
$PM_{2.5}$	1.4E-03	5.9E-03	4.3E+00	1.9E+01
VOC	7.2E-05	3.2E-04	2.3E-01	9.9E-01
Benzene	6.8E-07	3.0E-06	2.1E-03	9.4E-03
Toluene	8.5E-07	3.7E-06	2.7E-03	1.2E-02
Ethylbenzene	2.7E-07	1.2E-06	8.6E-04	3.8E-03
Xylene	9.6E-07	4.2E-06	3.0E-03	1.3E-02
Formaldehyde	8.3E-06	3.6E-05	2.6E-02	1.1E-01
nHexane	2.5E-07	1.1E-06	7.9E-04	3.4E-03
CO_2e	2.6E-01	1.1E+00	8.2E+02	3.6E+03

1 Emission factors are the emission rates divided by total number of drilling traffic miles in thousand of miles (kmile).

Table D.3-18. Emissions for Operations of All Drillsite Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-pad)	Annual (ton/yr-pad)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.3E+00	5.8E+00	6.7E+00	2.9E+01
CO	1.1E+00	4.8E+00	5.5E+00	2.4E+01
SO_2	2.9E-02	1.3E-01	1.4E-01	6.3E-01
PM_{10}	1.5E-01	6.6E-01	7.5E-01	3.3E+00
$PM_{2.5}$	8.5E-02	3.7E-01	4.3E-01	1.9E+00
VOC	2.1E+01	9.3E+01	1.1E+02	4.6E+02
Benzene	2.1E-02	9.4E-02	1.1E-01	4.7E-01
Toluene	6.0E-02	2.6E-01	3.0E-01	1.3E+00
Ethylbenzene	5.3E-01	2.3E+00	2.7E+00	1.2E+01
Xylene	1.1E+00	4.6E+00	5.3E+00	2.3E+01
Formaldehyde	5.7E-04	2.5E-03	2.8E-03	1.2E-02
nHexane	1.3E+00	5.7E+00	6.5E+00	2.9E+01
CO_2e	8.9E+02	3.9E+03	4.5E+03	2.0E+04

1 Emission factors are the emission rates divided by number of drillsite pads.

Table D.3-19. Emissions for Operations of WPF

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kbbl/day)	Annual (ton/yr-kbbl/day)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	5.7E-01	2.5E+00	1.1E+02	5.0E+02
CO	5.5E-01	2.4E+00	1.1E+02	4.8E+02
SO_2	5.4E-02	2.4E-01	1.1E+01	4.8E+01
PM_{10}	6.3E-02	2.8E-01	1.3E+01	5.5E+01
$PM_{2.5}$	6.1E-02	2.7E-01	1.2E+01	5.4E+01
VOC	2.1E-01	9.2E-01	4.2E+01	1.8E+02
Benzene	2.7E-04	1.2E-03	5.3E-02	2.3E-01
Toluene	1.2E-03	5.3E-03	2.4E-01	1.1E+00
Ethylbenzene	3.3E-04	1.5E-03	6.7E-02	2.9E-01
Xylene	6.6E-04	2.9E-03	1.3E-01	5.8E-01
Formaldehyde	2.0E-03	8.5E-03	3.9E-01	1.7E+00
nHexane	8.8E-03	3.9E-02	1.8E+00	7.7E+00
CO_2e	9.8E+02	4.3E+03	2.0E+05	8.5E+05

1 Emission factors are the emission rates divided by WPF operating capacity in thousand of barrels per day (kbbl/day).

Table D.3-20. Emissions for Operations of WOC and Airstrip

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-person)	Annual (ton/yr-person)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.3E-01	5.7E-01	2.6E+01	1.1E+02
CO	1.2E-01	5.1E-01	2.3E+01	1.0E+02
SO_2	4.4E-03	1.9E-02	8.9E-01	3.9E+00
PM_{10}	1.9E-02	8.4E-02	3.9E+00	1.7E+01
$PM_{2.5}$	1.7E-02	7.2E-02	3.3E+00	1.4E+01
VOC	1.8E-02	7.7E-02	3.5E+00	1.5E+01
Benzene	8.6E-05	3.7E-04	1.7E-02	7.5E-02
Toluene	1.1E-04	4.7E-04	2.2E-02	9.5E-02
Ethylbenzene	2.0E-05	8.6E-05	3.9E-03	1.7E-02
Xylene	5.8E-05	2.6E-04	1.2E-02	5.1E-02
Formaldehyde	1.5E-04	6.5E-04	3.0E-02	1.3E-01
nHexane	4.3E-06	1.9E-05	8.7E-04	3.8E-03
CO_2e	9.4E+01	4.1E+02	1.9E+04	8.2E+04

1 Emission factors are the emission rates divided by number of personnel housed at North and South WOC.

Table D.3-21. Emissions for Aircraft Flights

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-flight/year)	Annual (ton/yr-flight/year)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	3.2E-03	1.4E-02	9.9E-01	4.3E+00
CO	5.6E-03	2.4E-02	1.7E+00	7.6E+00
SO_2	4.2E-04	1.9E-03	1.3E-01	5.8E-01
PM_{10}	1.1E-04	4.9E-04	3.5E-02	1.5E-01
$PM_{2.5}$	1.1E-04	4.9E-04	3.5E-02	1.5E-01
VOC	1.2E-03	5.1E-03	3.7E-01	1.6E+00
Benzene	1.9E-05	8.5E-05	6.1E-03	2.7E-02
Toluene	7.6E-06	3.3E-05	2.4E-03	1.0E-02
Ethylbenzene	2.1E-06	9.0E-06	6.4E-04	2.8E-03
Xylene	5.2E-06	2.3E-05	1.6E-03	7.1E-03
Formaldehyde	1.4E-04	6.3E-04	4.5E-02	2.0E-01
nHexane	1.1E-07	4.9E-07	3.5E-05	1.5E-04
CO_2e	1.1E+00	4.9E+00	3.5E+02	1.5E+03

1 Emission factors are the emission rates divided by the average number of flights per year.

Table D.3-22. Emissions for Operations Traffic

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kmile)	Annual (ton/yr-kmile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	6.9E-05	3.0E-04	1.4E+00	6.3E+00
CO	4.9E-05	2.1E-04	1.0E+00	4.5E+00
SO_2	2.4E-07	1.0E-06	5.0E-03	2.2E-02
PM_{10}	1.7E-03	7.6E-03	3.6E+01	1.6E+02
$PM_{2.5}$	1.8E-04	7.7E-04	3.7E+00	1.6E+01
VOC	1.1E-05	4.7E-05	2.3E-01	9.9E-01
Benzene	9.2E-08	4.0E-07	1.9E-03	8.5E-03
Toluene	9.6E-08	4.2E-07	2.0E-03	8.9E-03
Ethylbenzene	3.5E-08	1.5E-07	7.4E-04	3.3E-03
Xylene	1.1E-07	4.6E-07	2.2E-03	9.8E-03
Formaldehyde	1.1E-06	4.7E-06	2.3E-02	9.9E-02
nHexane	3.0E-08	1.3E-07	6.3E-04	2.7E-03
CO_2e	2.9E-02	1.3E-01	6.1E+02	2.7E+03

1 Emission factors are the emission rates divided by total number of operation traffic miles in thousand of miles (kmile).

Table D.3-23. Average Annual Emissions per Well

Pollutant	Emissions (ton/year/well)			
	Directional Oil Wells		Directional Injection Wells	
	New Well (Construction and Drilling)	Well > 1 Year (Production and Operations)	New Well (Construction and Drilling)	Well > 1 Year (Production and Operations)
NOx	1.35	2.60	1.35	2.60
CO	1.33	2.47	1.33	2.47
SO2	0.01	0.21	0.01	0.21
PM10	0.91	0.93	0.91	0.93
PM2.5	0.15	0.34	0.15	0.34
VOC	0.19	2.65	0.19	2.65
Benzene	1.65E-03	3.18E-03	1.65E-03	3.18E-03
Toluene	1.65E-03	9.91E-03	1.65E-03	9.91E-03
Ethylbenzene	3.06E-04	4.78E-02	3.06E-04	4.78E-02
Xylenes	1.53E-03	9.44E-02	1.53E-03	9.44E-02
Formaldehyde	1.20E-02	8.11E-03	1.20E-02	8.11E-03
n-Hexane	2.70E-03	1.45E-01	2.70E-03	1.45E-01
CO2e	488	3821	488	3821

Table D.3-24. Annual Emissions for Construction, Drilling, and Completion Activities

Project Year	Calendar Year	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$	VOC
0	2020	22.6	33.3	0.9	1.3	0.6	1.5
1	2021	456.2	379.0	4.0	65.9	26.4	29.7
2	2022	510.8	397.9	4.1	152.0	37.1	34.4
3	2023	598.9	435.1	5.3	255.3	51.4	44.9
4	2024	597.5	422.9	3.9	280.7	54.1	47.2
5	2025	235.0	408.8	1.5	256.5	37.8	70.5
6	2026	203.8	398.8	1.2	227.2	34.0	67.2
7	2027	174.2	196.2	1.8	255.4	35.0	51.7
8	2028	233.6	267.0	3.4	252.7	36.0	47.8
9	2029	213.8	233.3	2.5	313.7	41.8	46.6
10	2030	126.1	148.9	0.6	223.3	29.8	38.1
11	2031	9.0	2.5	0.0	0.3	0.3	0.8
12	2032	9.0	2.5	0.0	0.3	0.3	0.8
13	2033	7.8	2.2	0.0	0.3	0.3	0.7
14	2034	7.8	2.2	0.0	0.3	0.3	0.7
15	2035	7.8	2.2	0.0	0.3	0.3	0.7
16-31	2036-2051	7.8	2.2	0.0	0.3	0.3	0.7

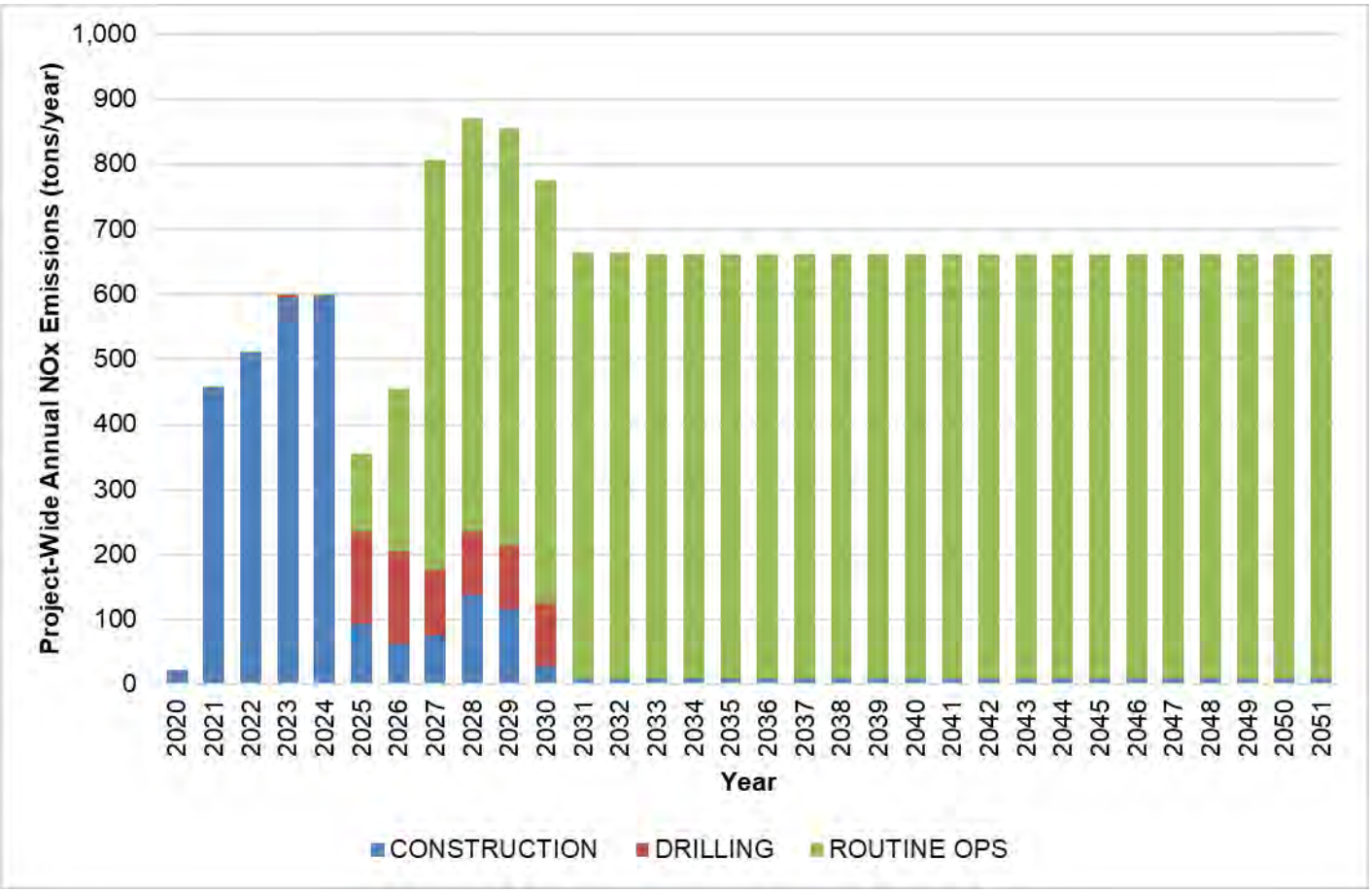


Figure D.3-1. Bar Chart of Annual Emissions for Each Phase of Development for NOx

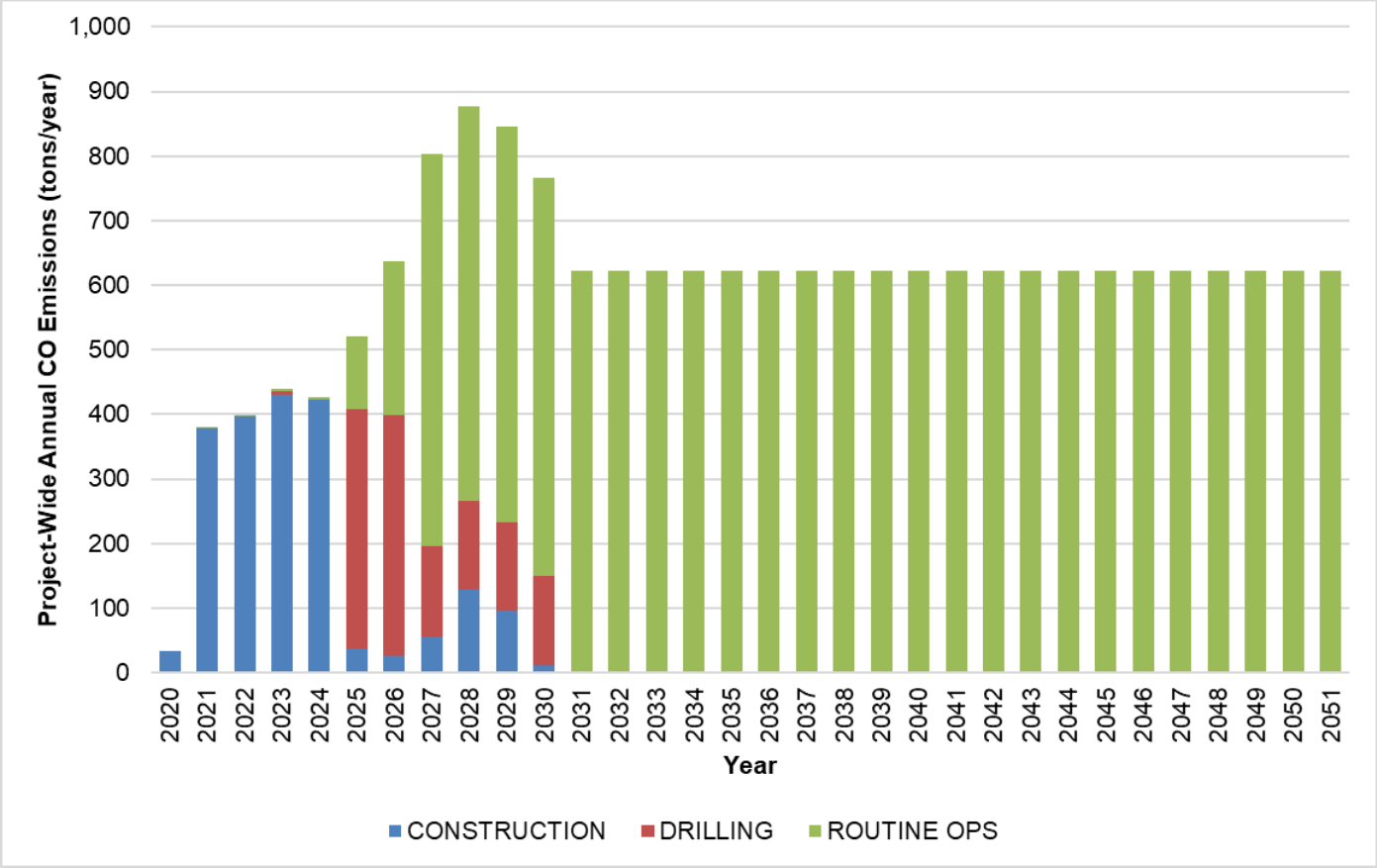


Figure D.3-2. Bar Chart of Annual Emission for Each Phase of Development CO

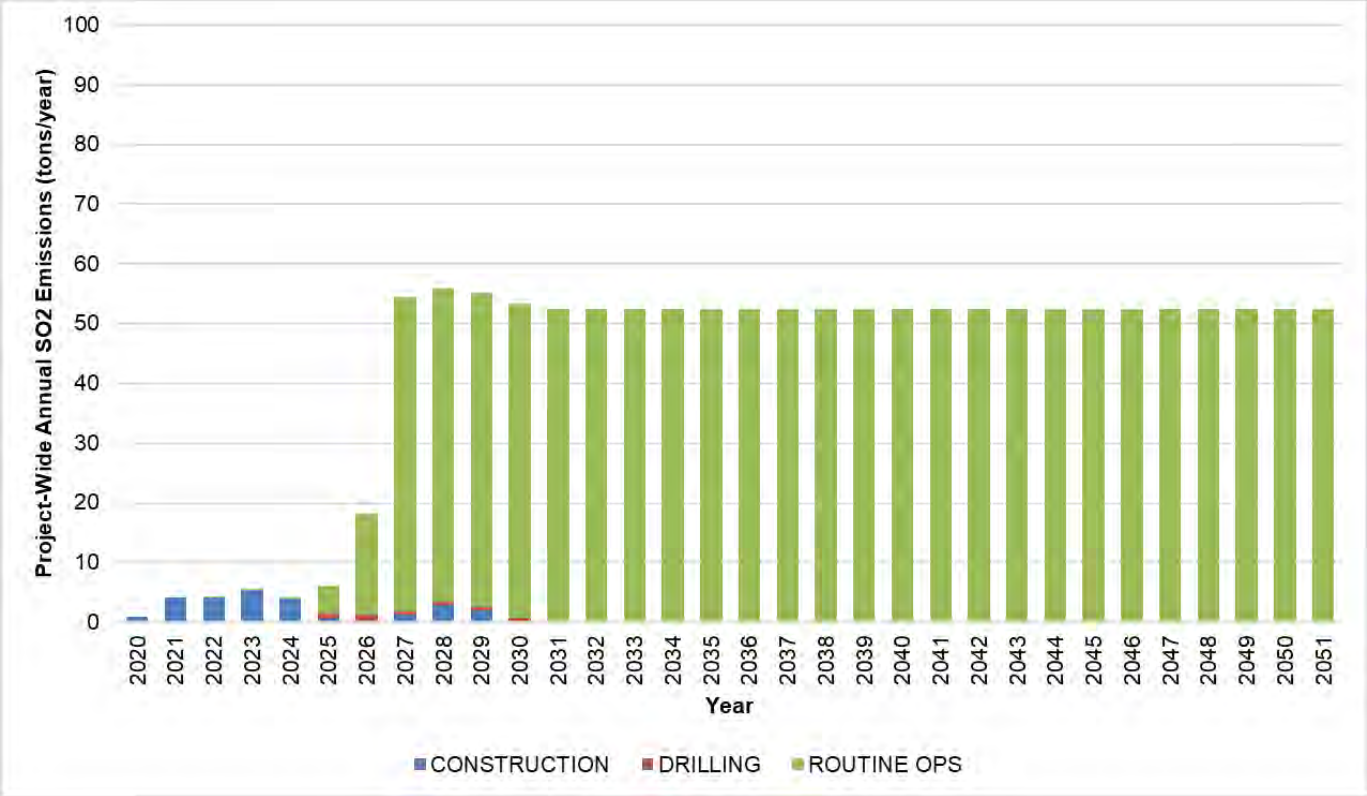


Figure D.3-3. Bar Chart of Annual Emissions for Each Phase of Development SO_2

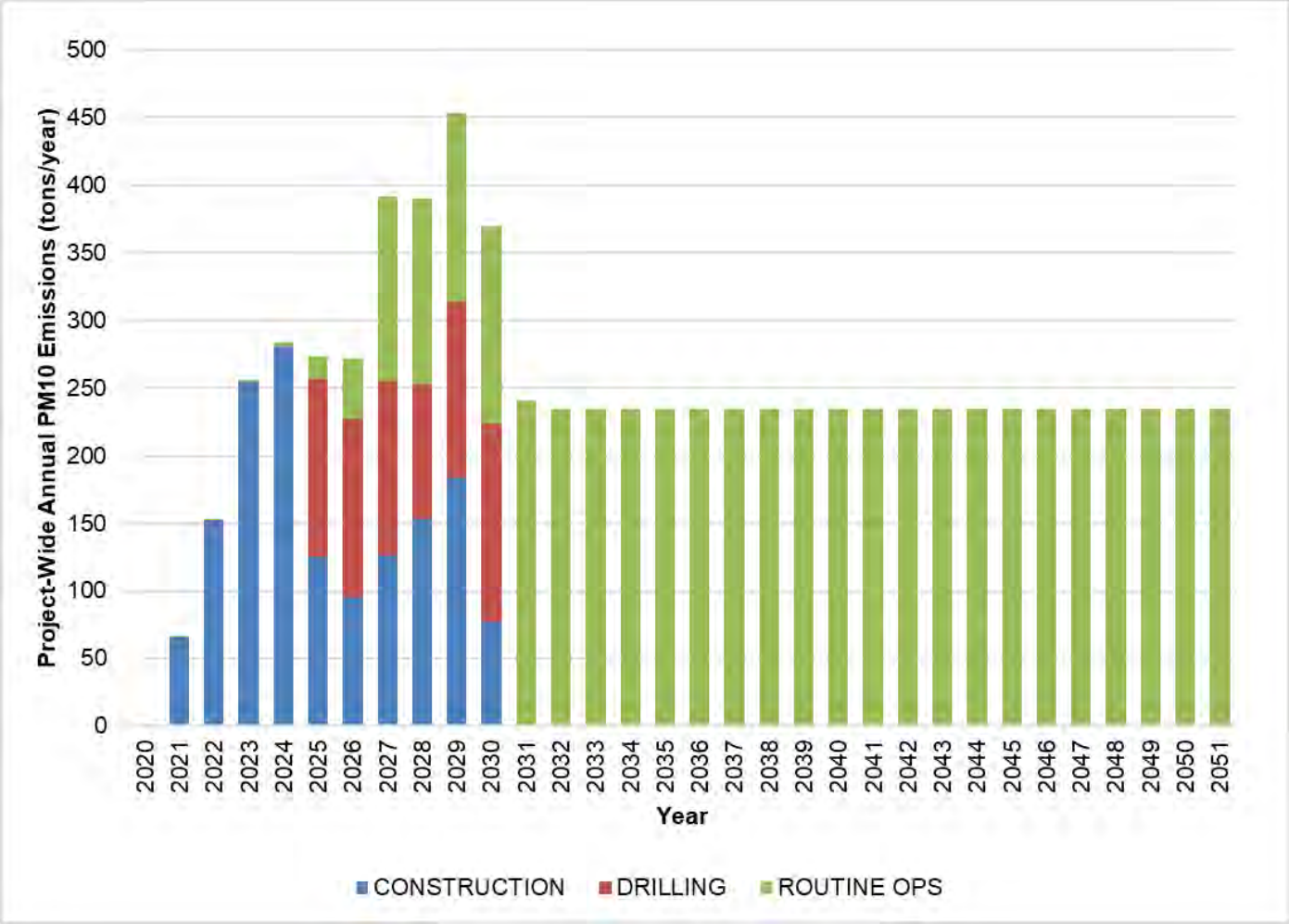


Figure D.3-4. Bar Chart of Annual Emissions for Each Phase of Development for PM_{10}

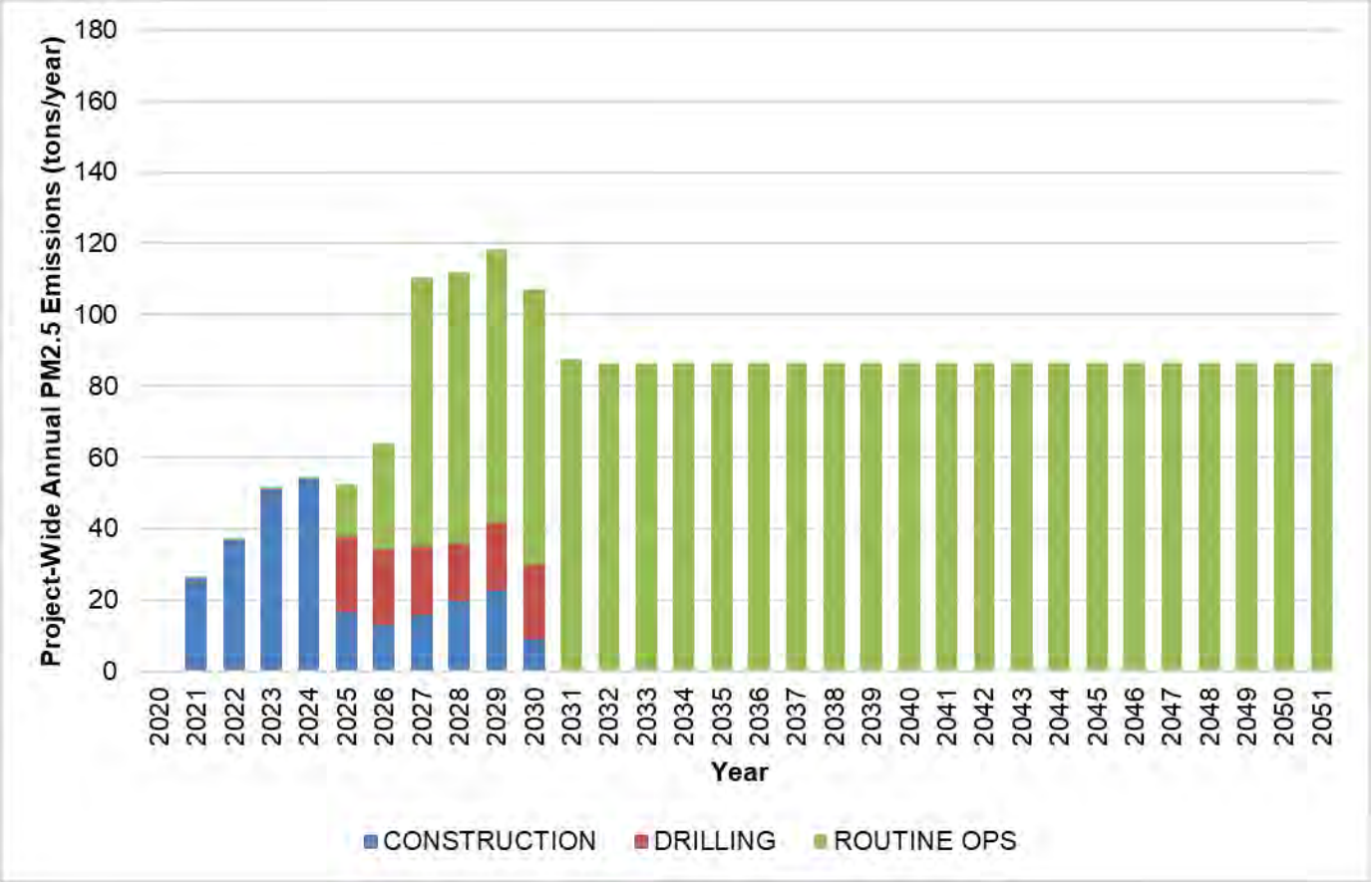


Figure D.3-5. Bar Chart of Annual Emissions for Each Phase of Development for $PM_{2.5}$

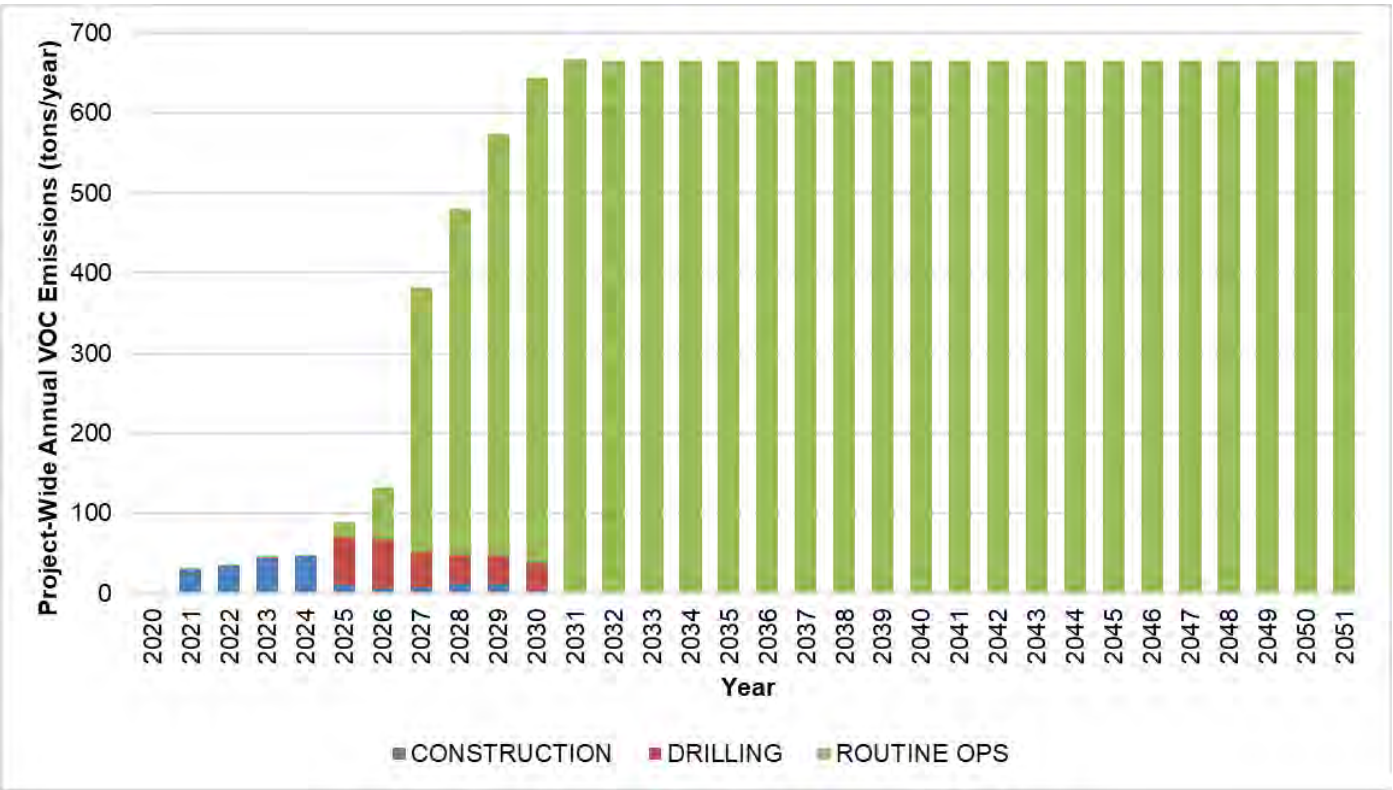


Figure D.3-6. Bar Chart of Annual Emissions for Each Phase of Development for VOC

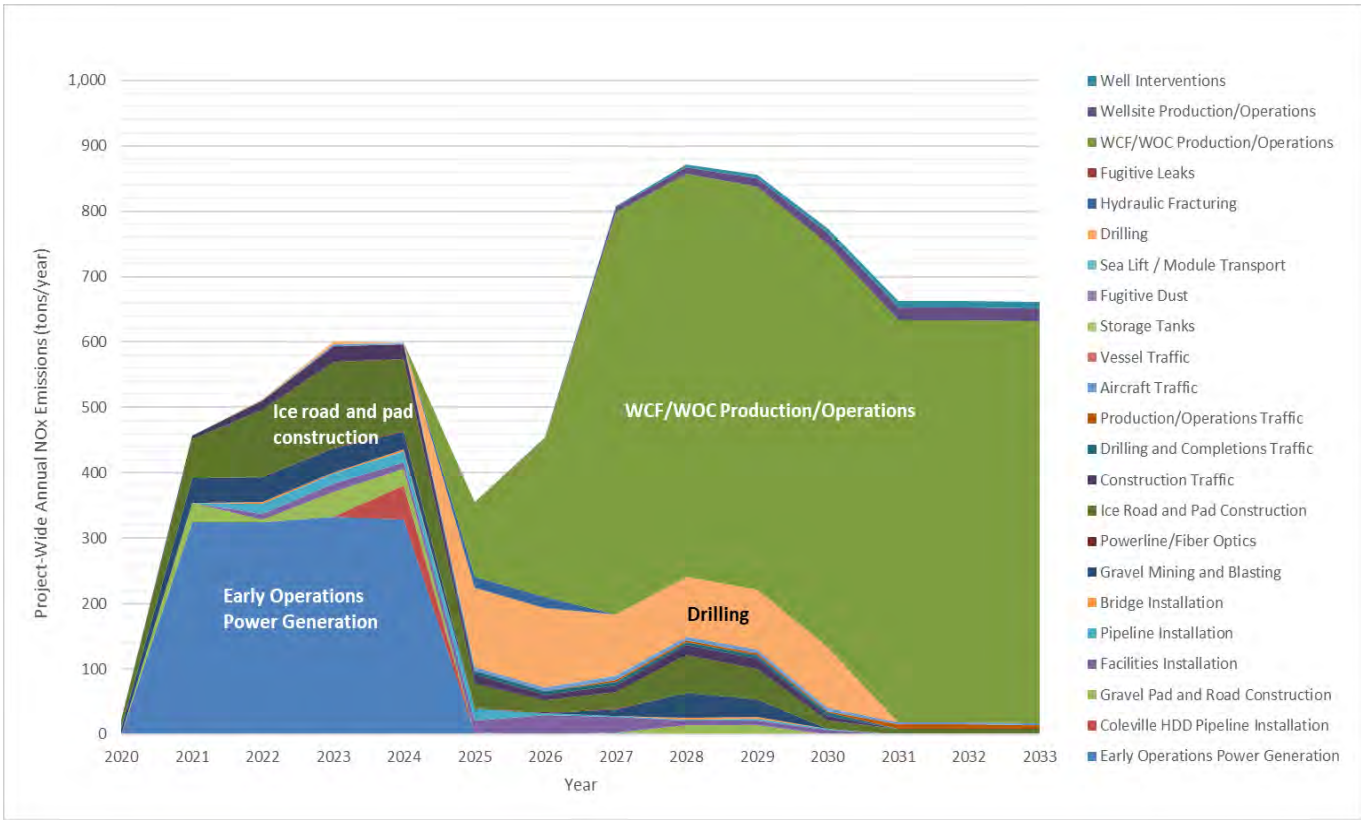


Figure D.3-7. Emissions by Source Type and Year for Alternative D for NOx

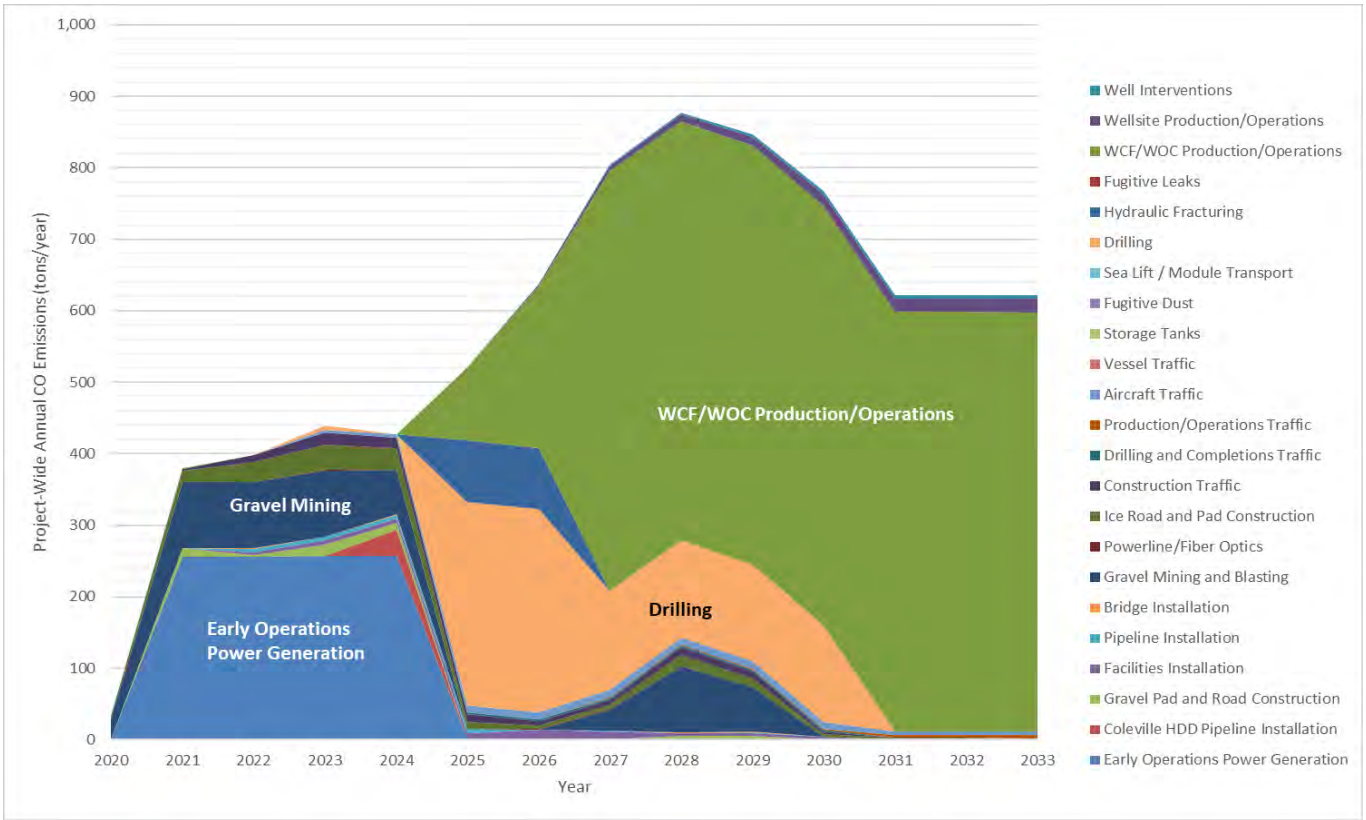


Figure D.3-8. Emissions by Source Type and Year for Alternative D for CO

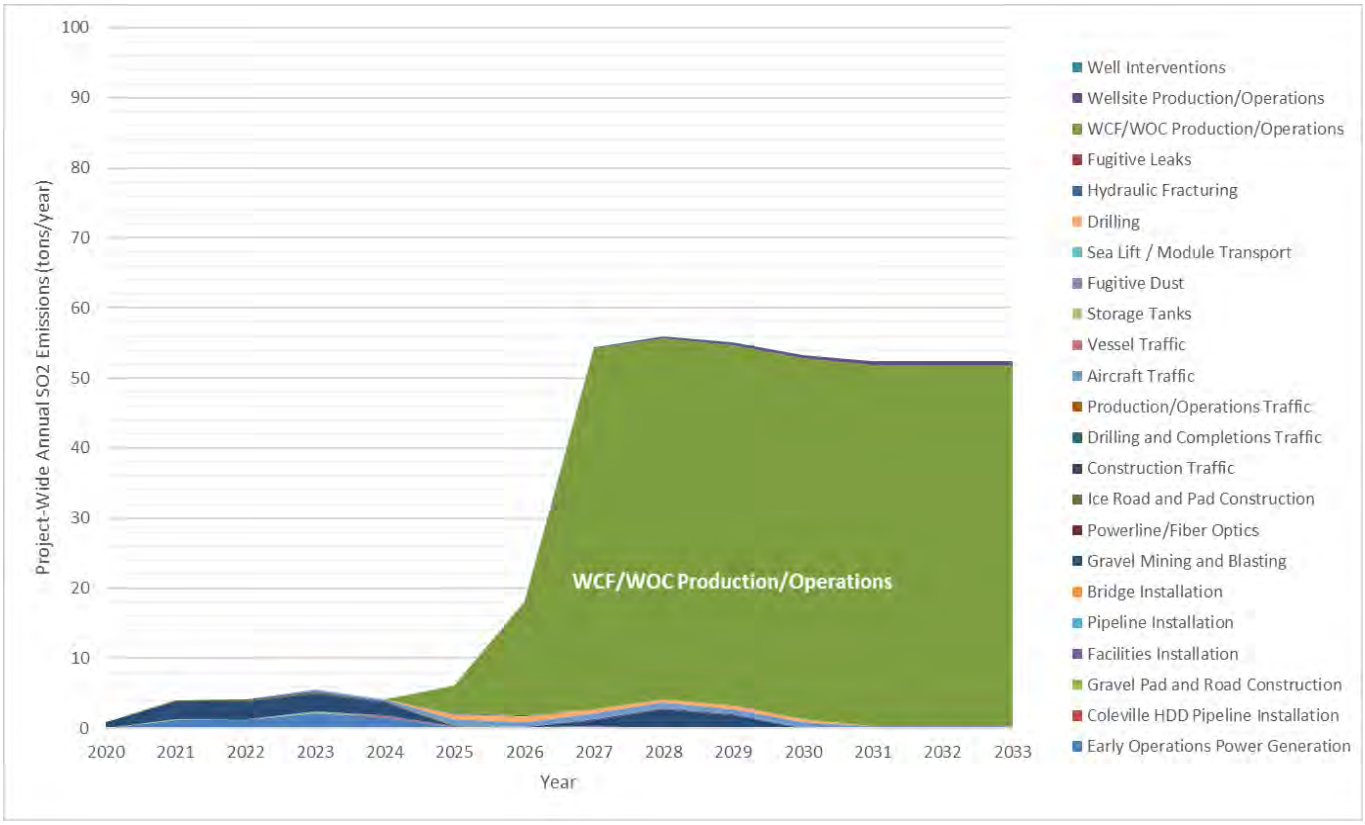


Figure D.3-9. Emissions by Source Type and Year for Alternative D for SO_2

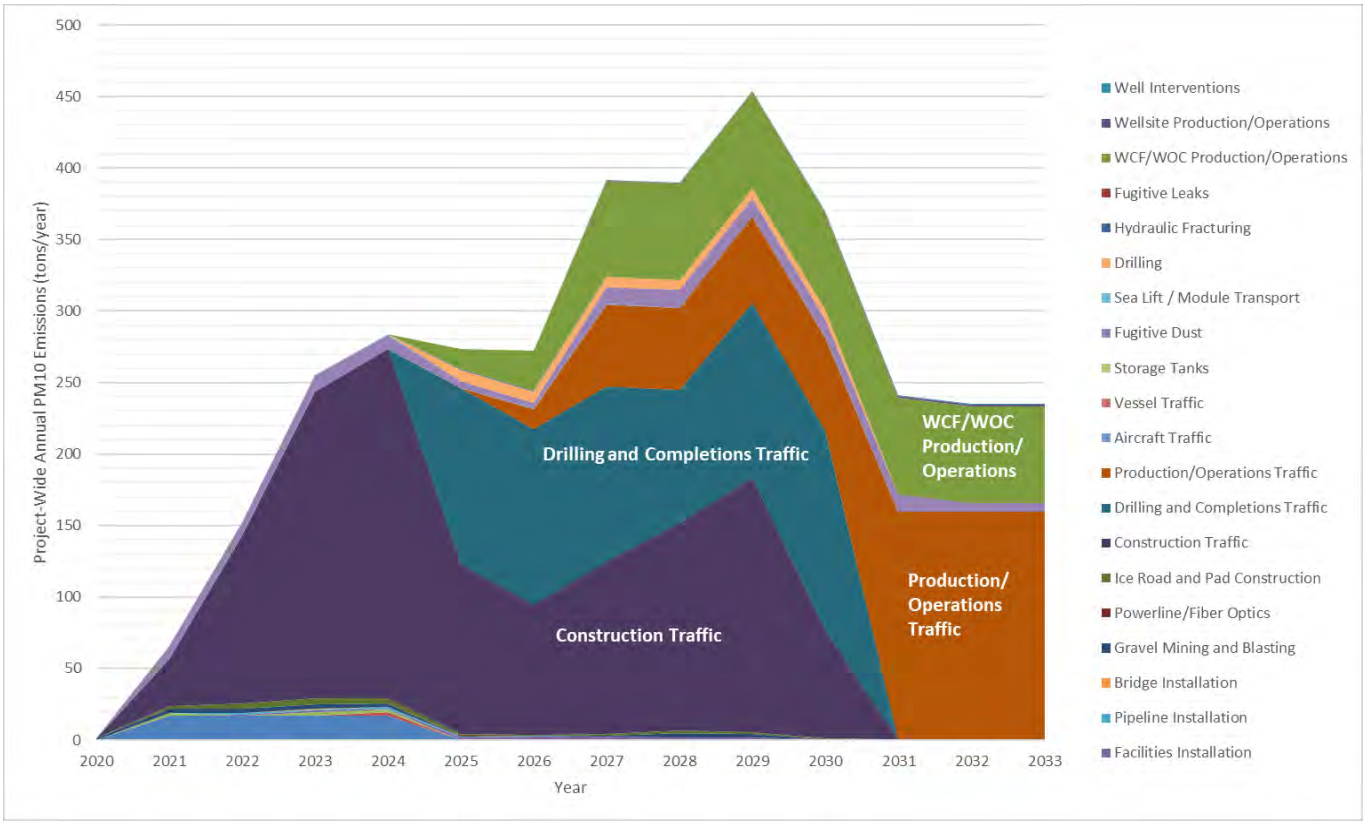


Figure D.3-10. Emissions by Source Type and Year for Alternative D for PM_{10}

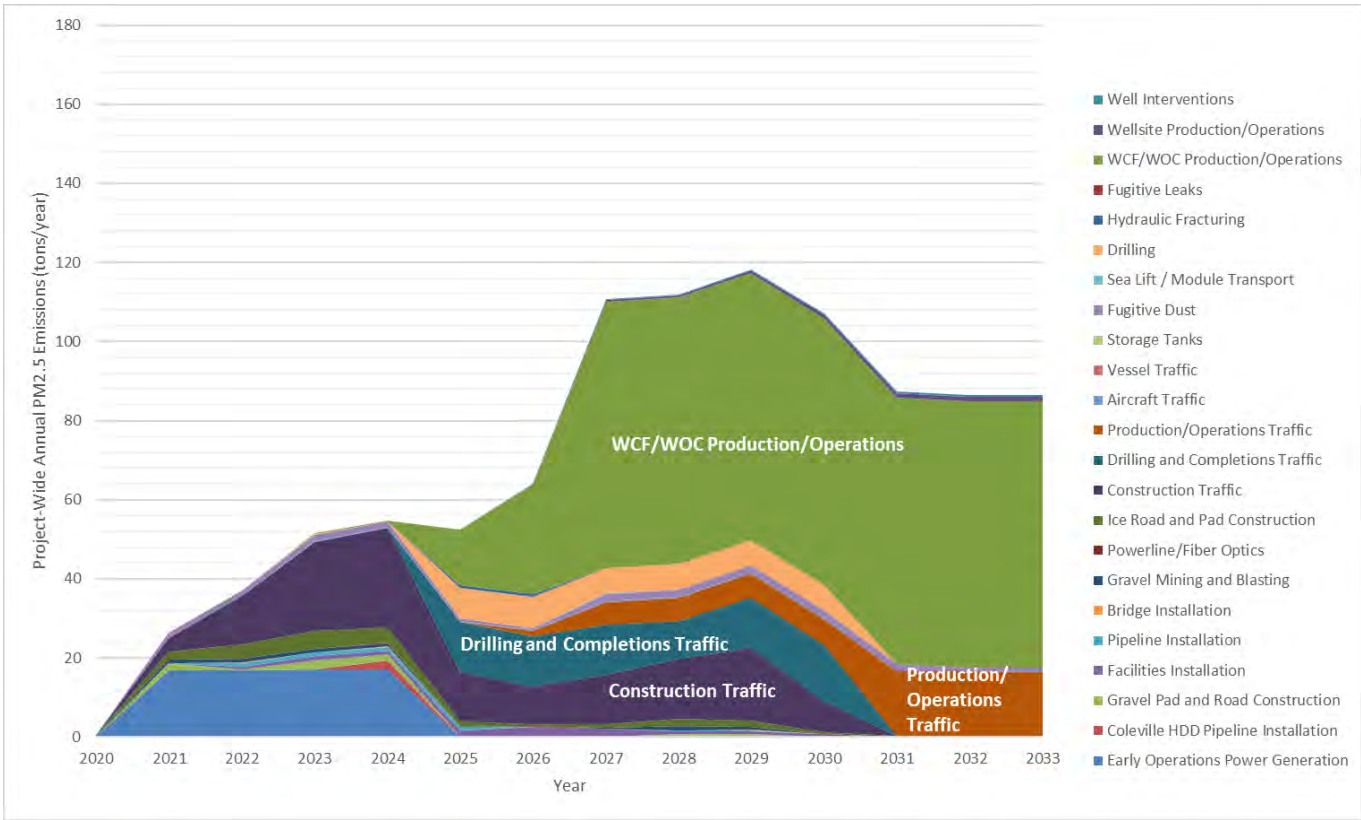


Figure D.3-11. Emissions by Source Type and Year for Alternative D for $PM_{2.5}$

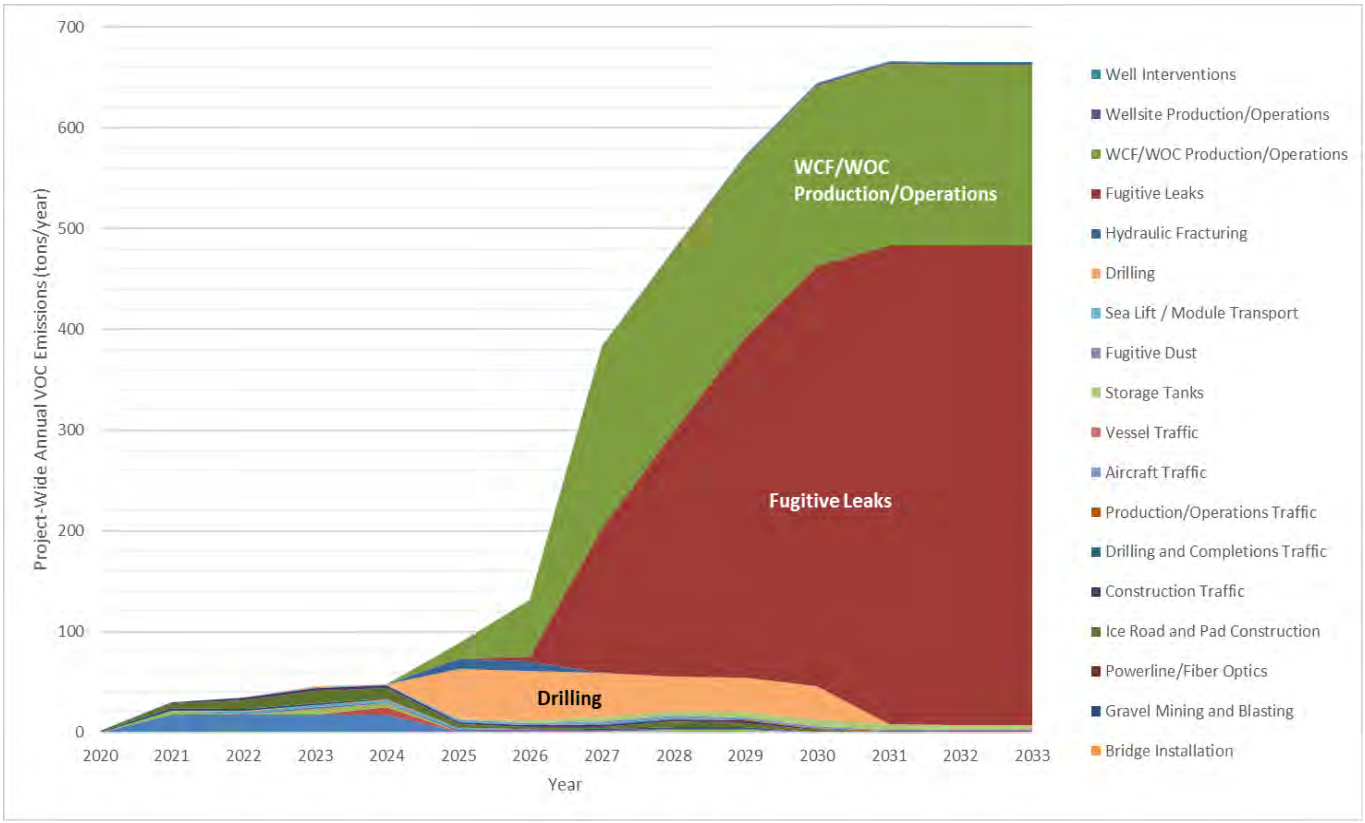


Figure D.3-12. Emissions by Source Type and Year for Alternative D for VOC

ENCLOSURE D.4 MODULE DELIVERY OPTION 1 SUMMARY EMISSIONS TABLES

Please note all emissions are delayed by one year for Alternative D.

Table D.4-1. Annual Criteria Pollutant Emissions (tons)

Project Year	Calendar Year	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	2020	0.0	0.0	0.0	0.0	0.0	0.0
1	2021	1.9	1.6	0.0	0.2	0.1	0.3
2	2022	25.2	24.0	0.4	1.7	1.0	2.8
3	2023	71.5	52.8	1.9	4.4	2.9	7.3
4	2024	74.3	77.4	0.6	5.4	3.6	12.0
5	2025	139.1	171.3	0.4	10.4	6.7	24.5
6	2026	62.7	70.4	0.2	4.6	3.0	10.6
7	2027	118.3	156.1	0.3	8.7	5.7	21.5
8	2028	0.0	0.0	0.0	0.2	0.0	0.0
9	2029	0.0	0.0	0.0	0.2	0.0	0.0
10	2030	0.0	0.0	0.0	0.2	0.0	0.0
11	2031	0.0	0.0	0.0	0.0	0.0	0.0
12	2032	0.0	0.0	0.0	0.0	0.0	0.0
13	2033	0.0	0.0	0.0	0.0	0.0	0.0
14	2034	0.0	0.0	0.0	0.0	0.0	0.0
15	2035	0.0	0.0	0.0	0.0	0.0	0.0
16-30	2036-2050	0.0	0.0	0.0	0.0	0.0	0.0

Table D.4-2. Emissions for Module Delivery

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kton)	Annual (ton/yr-kton)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.6E-01	7.2E-01	7.1E+00	3.1E+01
CO	4.3E-02	1.9E-01	1.8E+00	8.0E+00
SO_2	1.5E-02	6.4E-02	6.2E-01	2.7E+00
PM_{10}	6.5E-03	2.9E-02	2.8E-01	1.2E+00
$PM_{2.5}$	6.3E-03	2.7E-02	2.7E-01	1.2E+00
VOC	7.1E-03	3.1E-02	3.1E-01	1.3E+00
Benzene	9.9E-05	4.3E-04	4.3E-03	1.9E-02
Toluene	1.6E-05	6.8E-05	6.7E-04	2.9E-03
Ethylbenzene	9.7E-06	4.3E-05	4.2E-04	1.8E-03
Xylene	2.3E-05	1.0E-04	1.0E-03	4.4E-03
Formaldehyde	7.3E-04	3.2E-03	3.1E-02	1.4E-01
nHexane	2.7E-05	1.2E-04	1.2E-03	5.0E-03
CO_2e	8.7E+00	3.8E+01	3.7E+02	1.6E+03

1 Emission factors are the emission rates divided by the total weight of modules transferred via MDO in thousands of tons (kton).

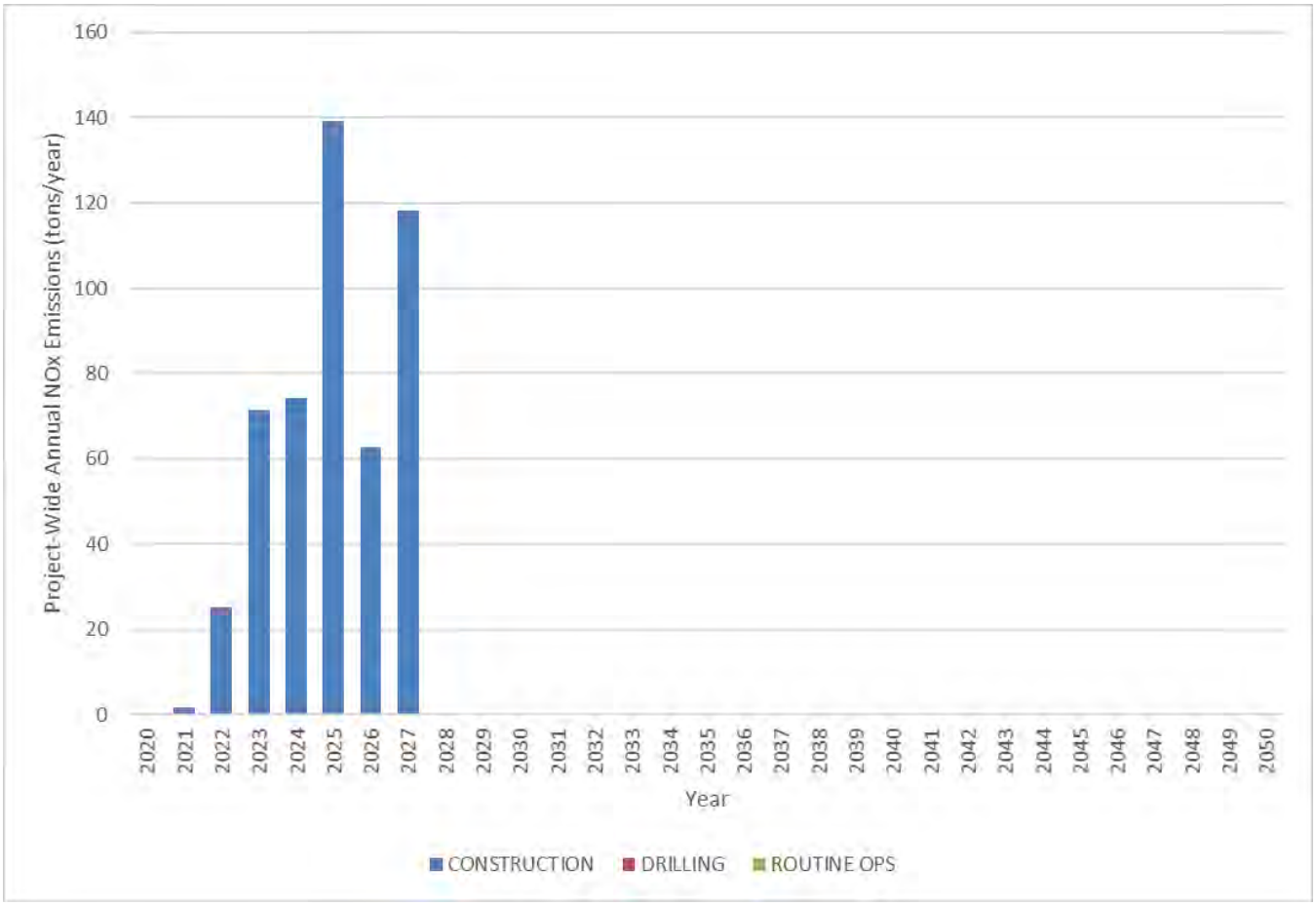


Figure D.4-1. Bar Chart of Annual Emissions for Each Phase of Development for NOx

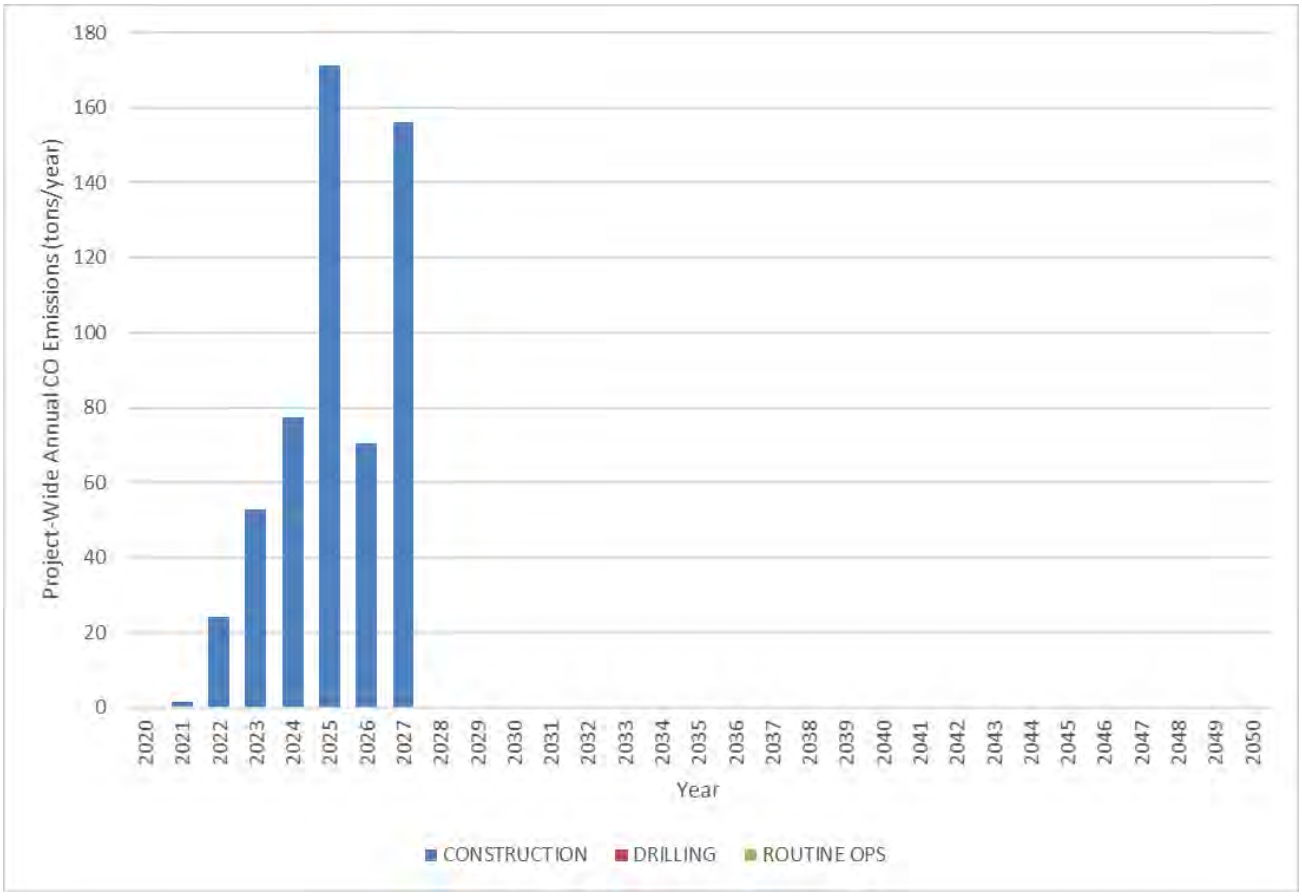


Figure D.4-2. Bar Chart of Annual Emissions for Each Phase of Development for CO

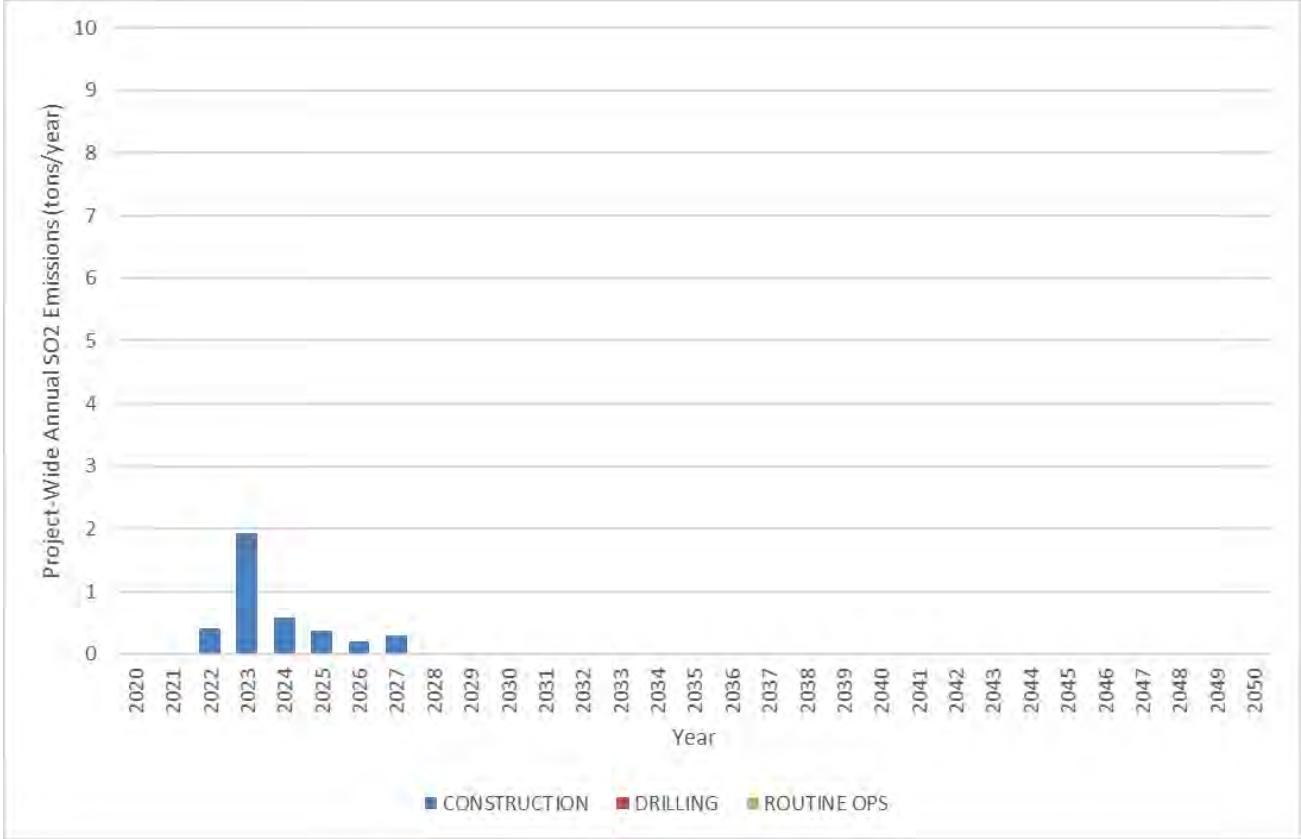


Figure D.4-3. Bar Chart of Annual Emissions for Each Phase of Development for SO_2

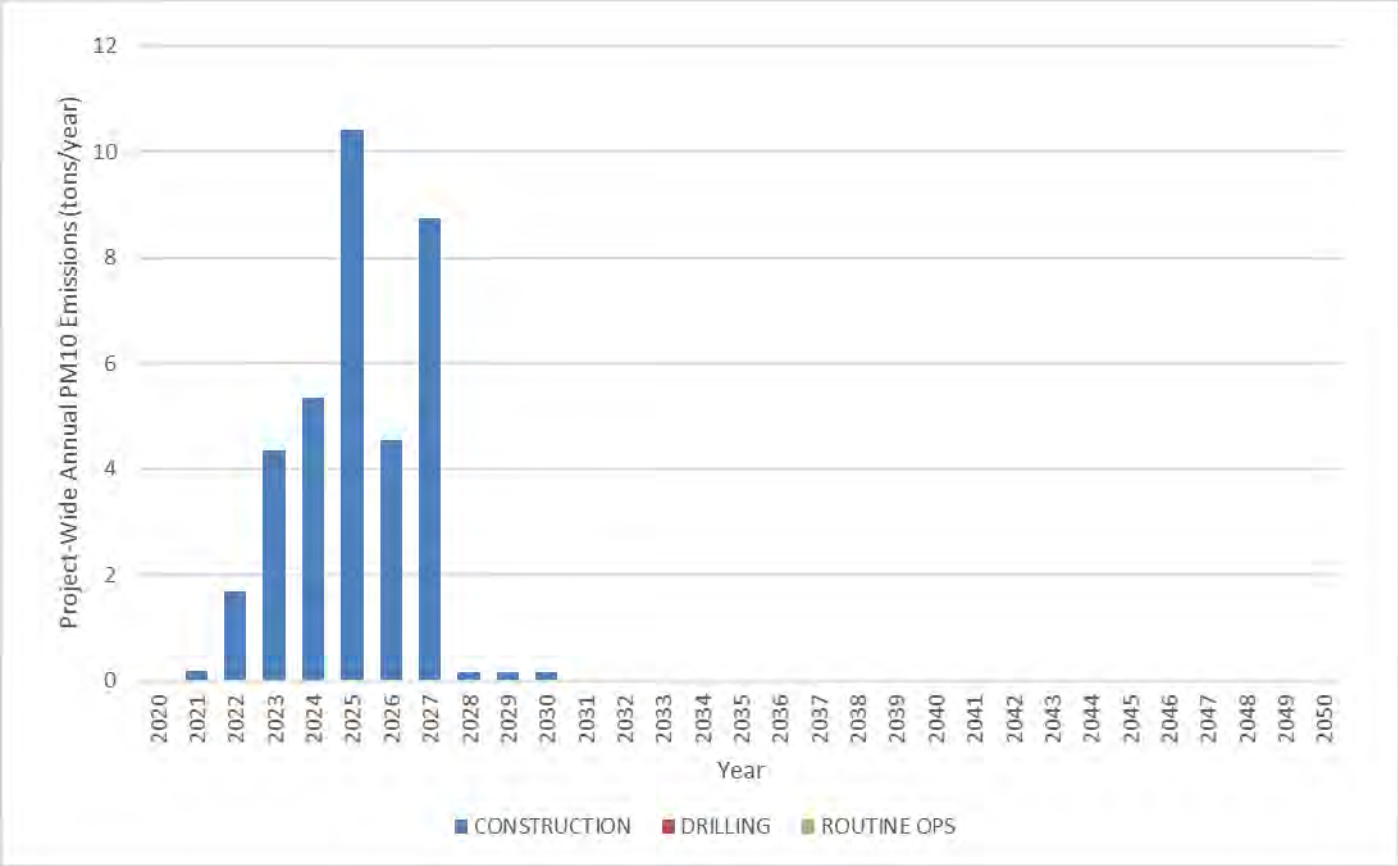


Figure D.4-4. Bar Chart of Annual Emissions for Each Phase of Development for PM_{10}

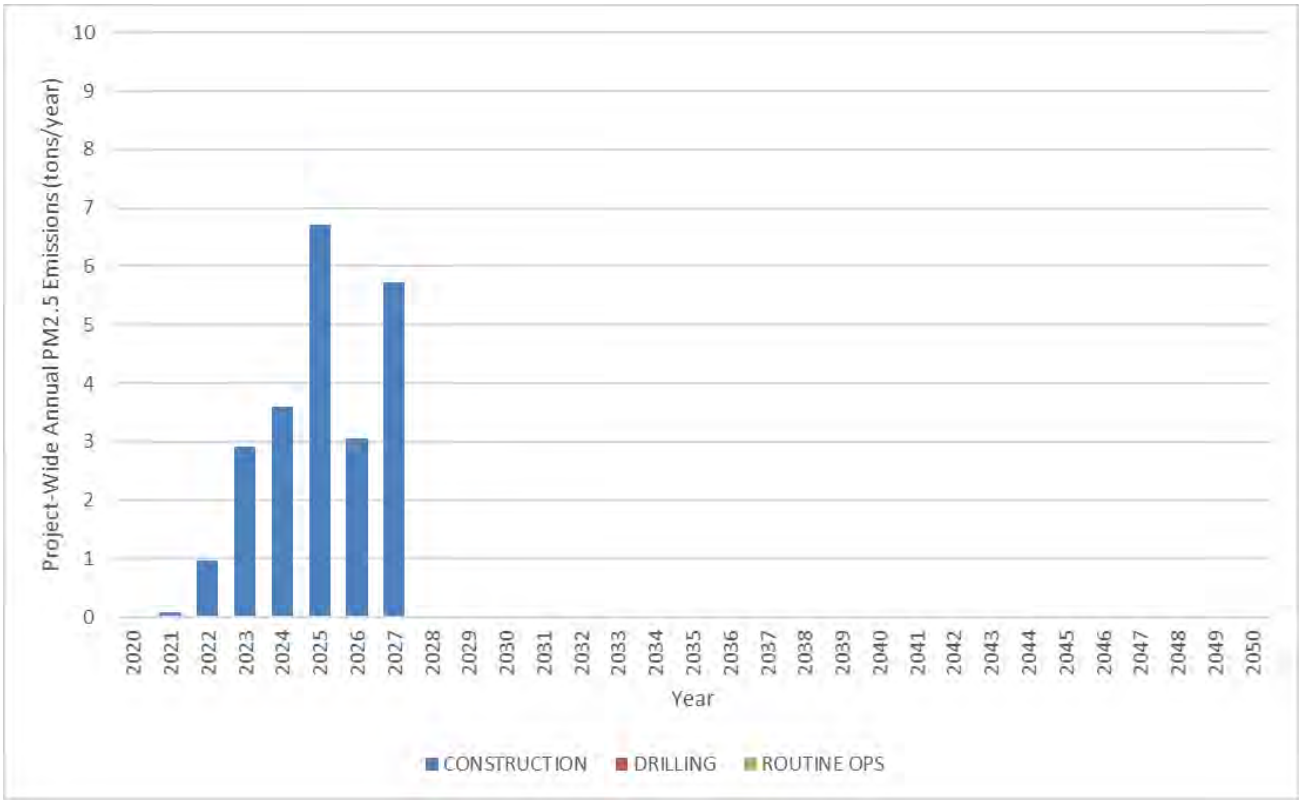


Figure D.4-5. Bar Chart of Annual Emissions for Each Phase of Development for $PM_{2.5}$

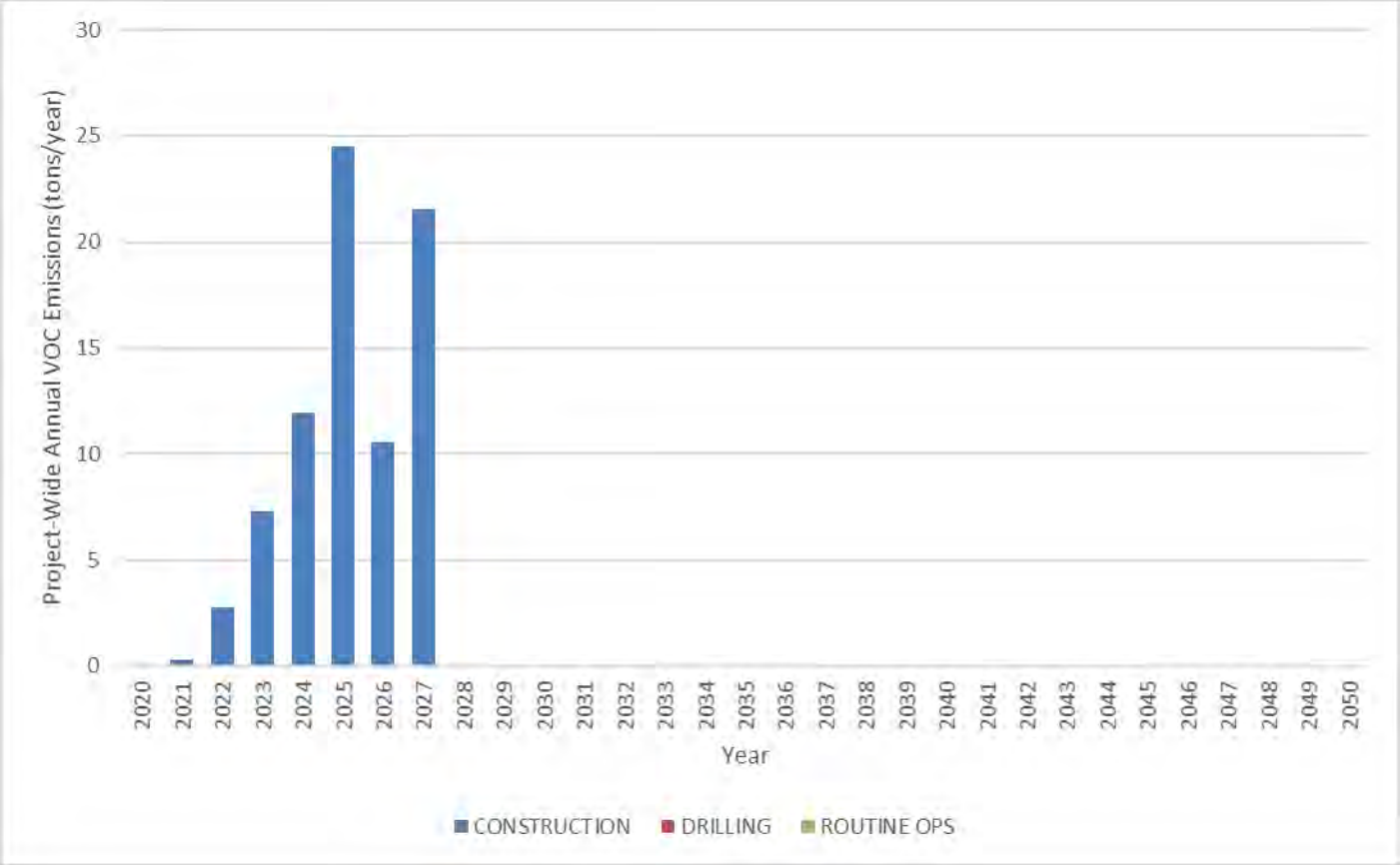


Figure D.4-6. Bar Chart of Annual Emissions for Each Phase of Development for VOC

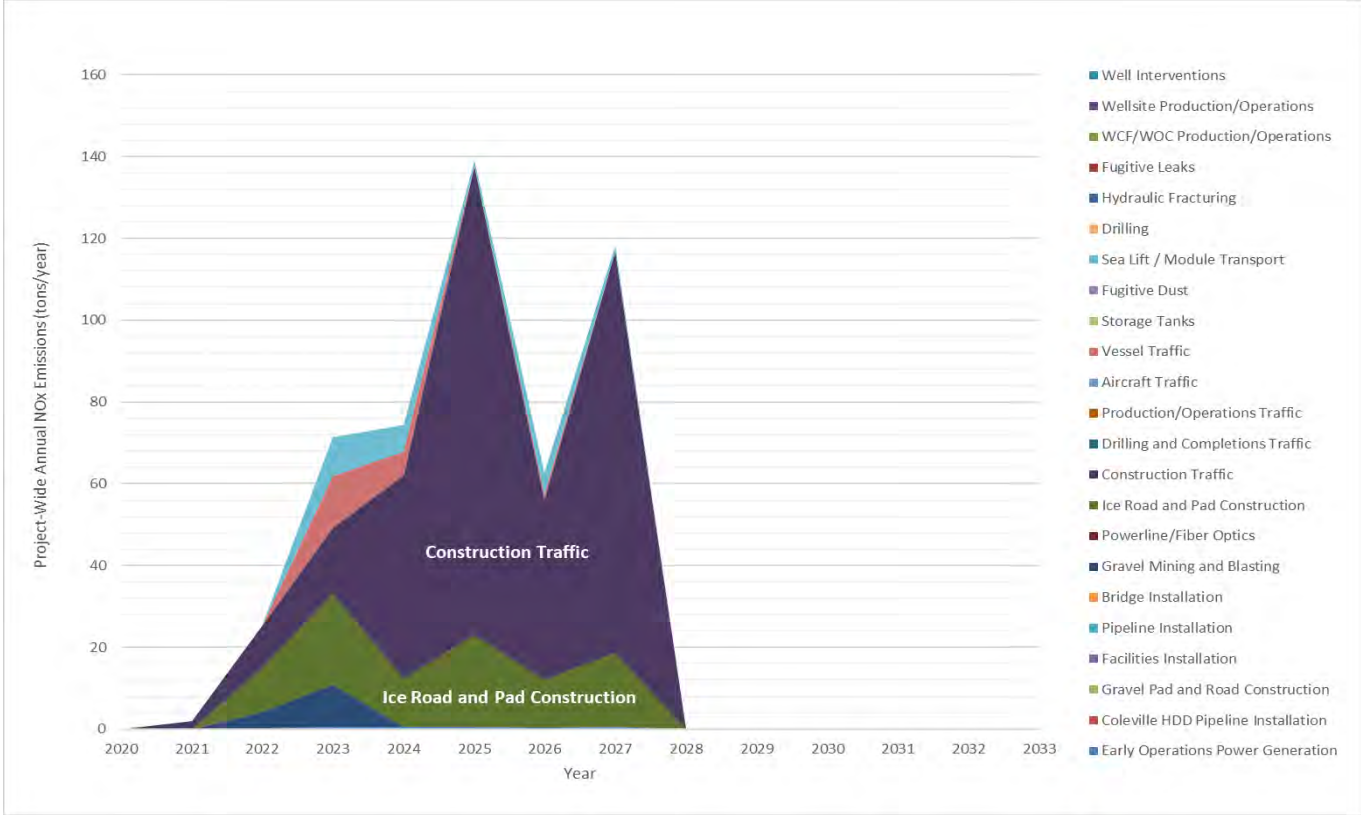


Figure D.4-7. Emissions by Source Type and Year for Module Delivery Option 1 for NOx

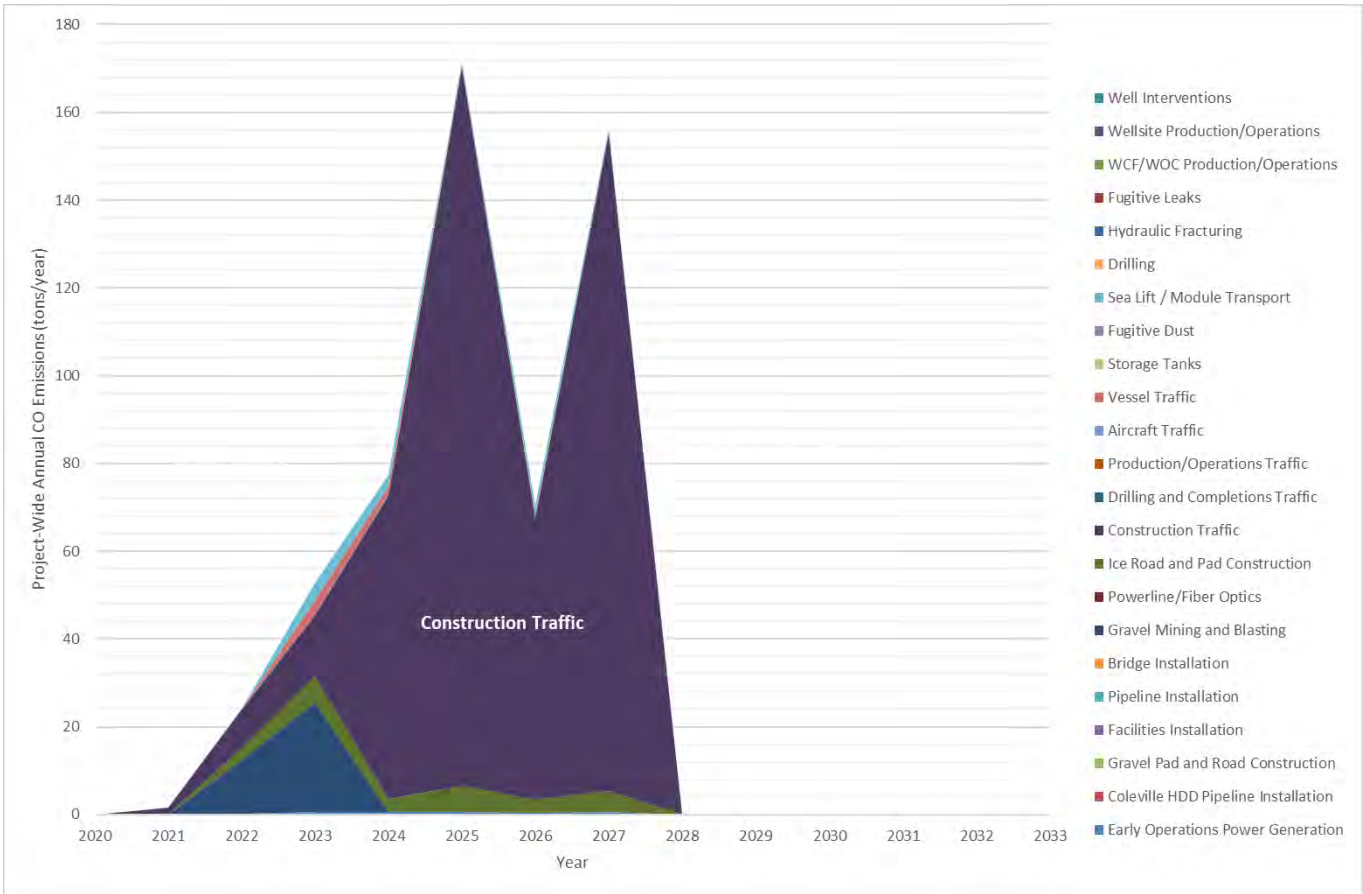


Figure D.4-8. Emissions by Source Type and Year for Module Delivery Option 1 for CO

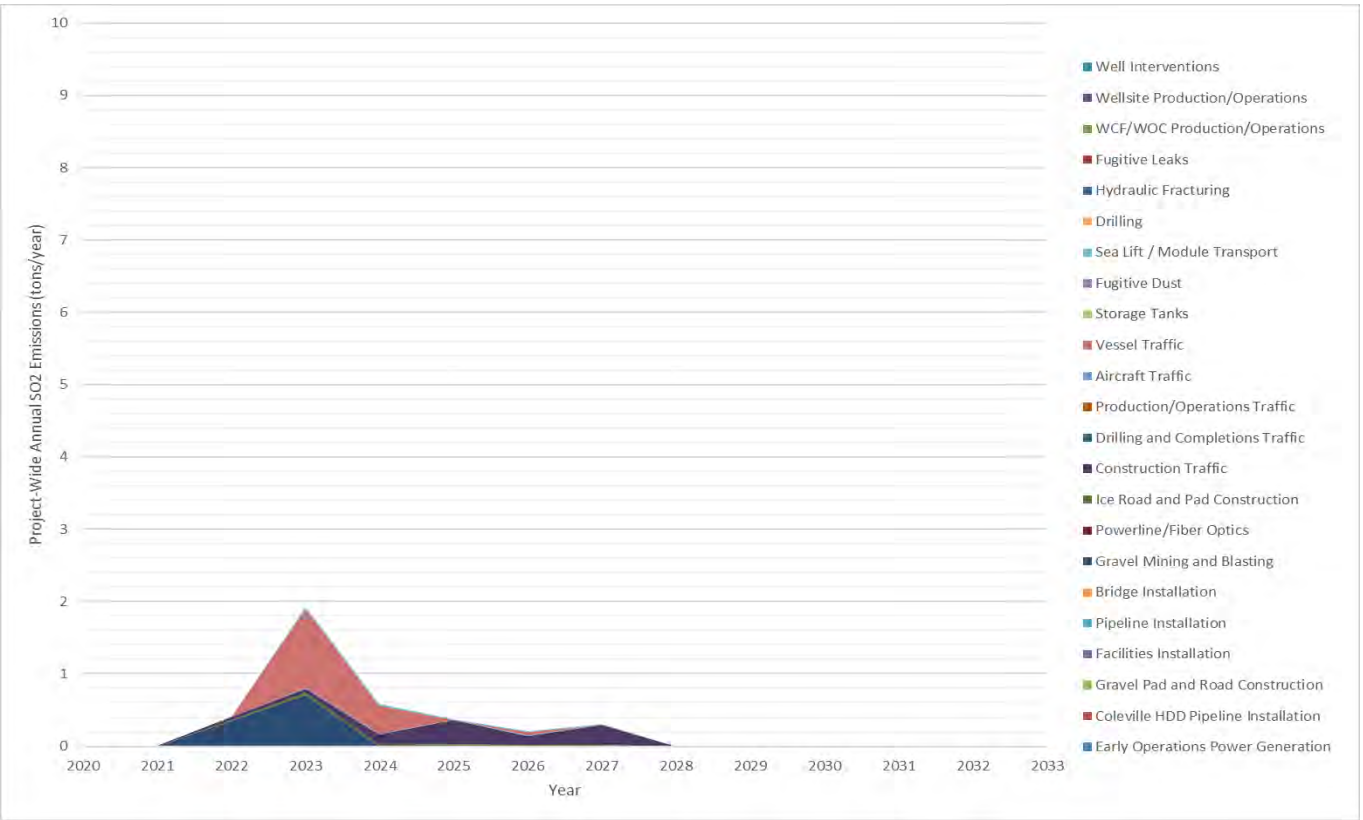


Figure D.4-9. Emissions by Source Type and Year for Module Delivery Option 1 for SO_2

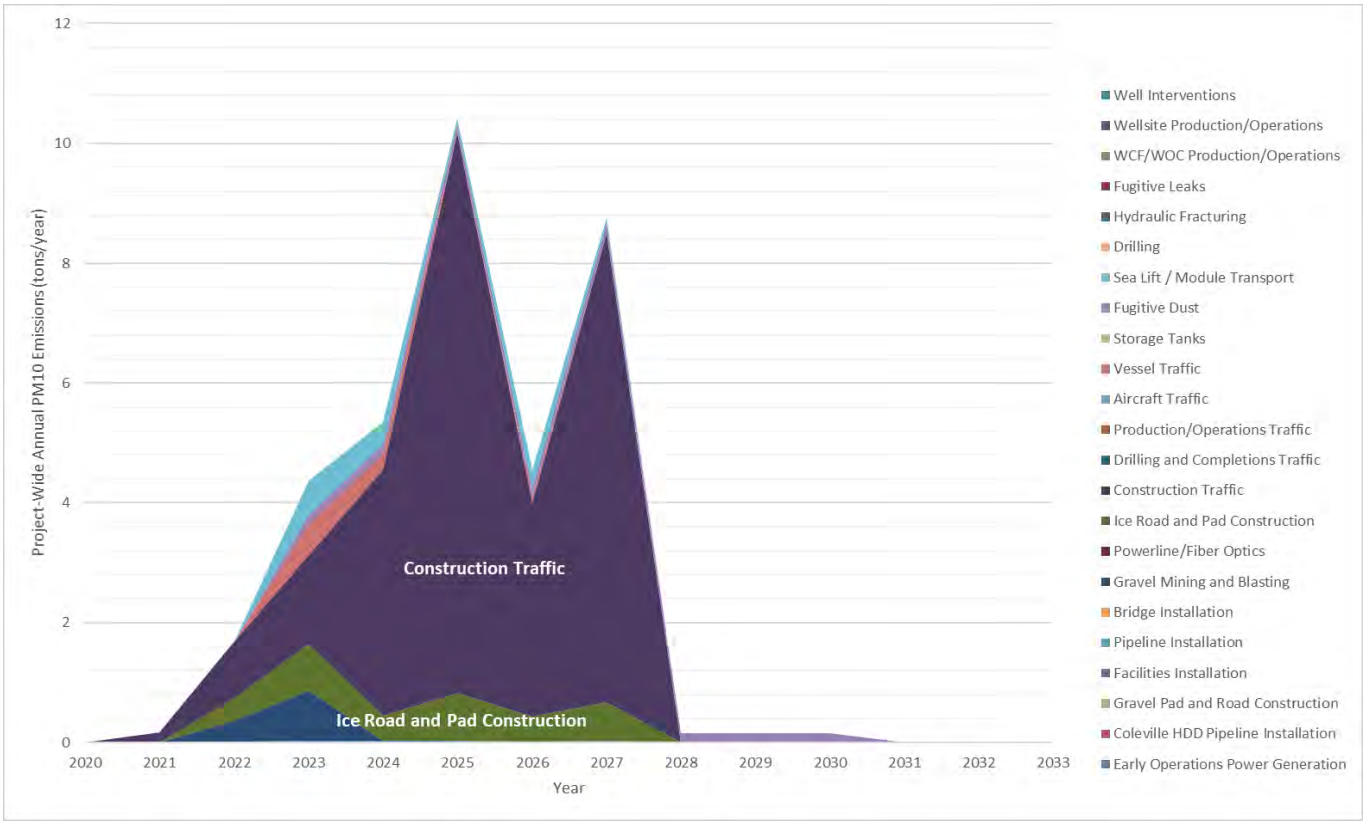


Figure D.4-10. Emissions by Source Type and Year for Module Delivery Option 1 for PM_{10}

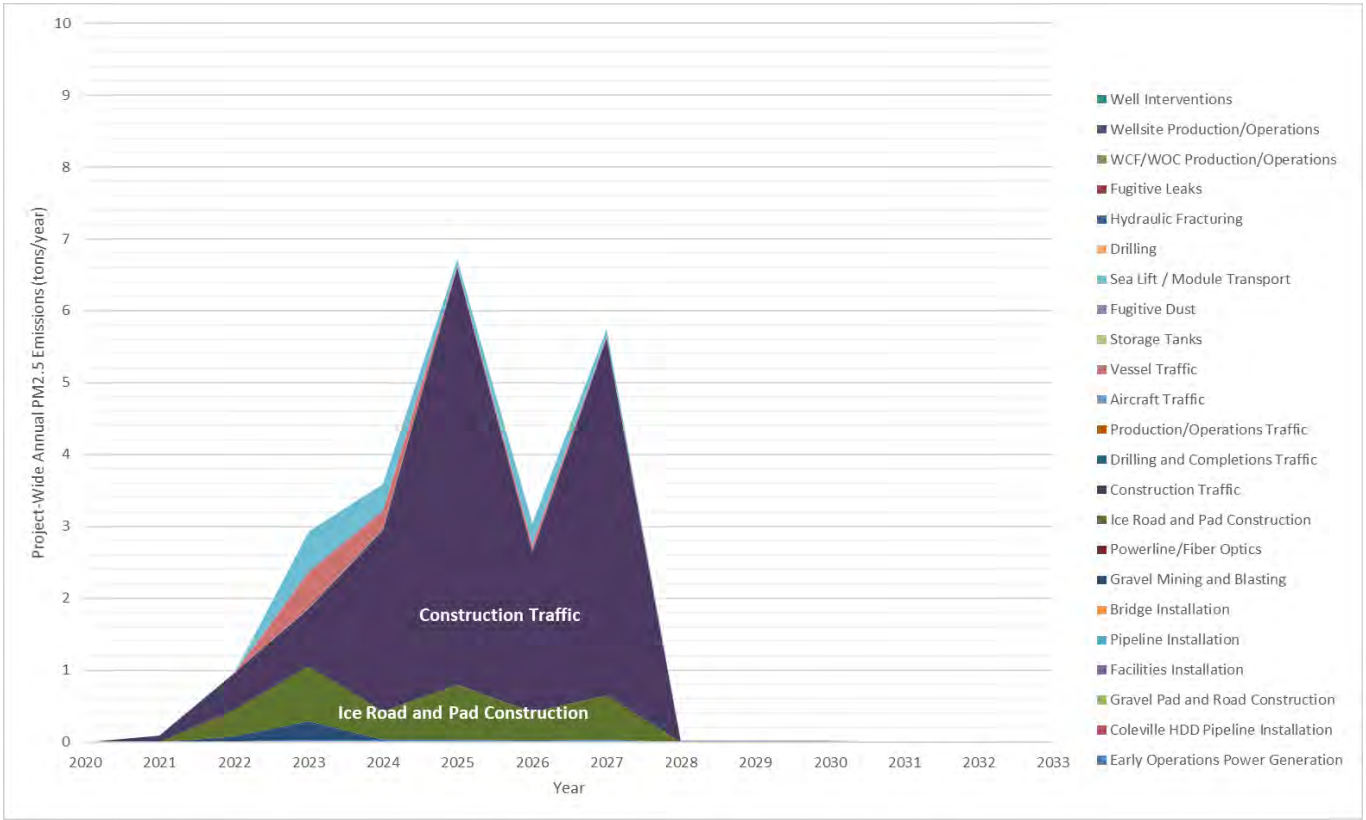


Figure D.4-11. Emissions by Source Type and Year for Module Delivery Option 1 for $PM_{2.5}$

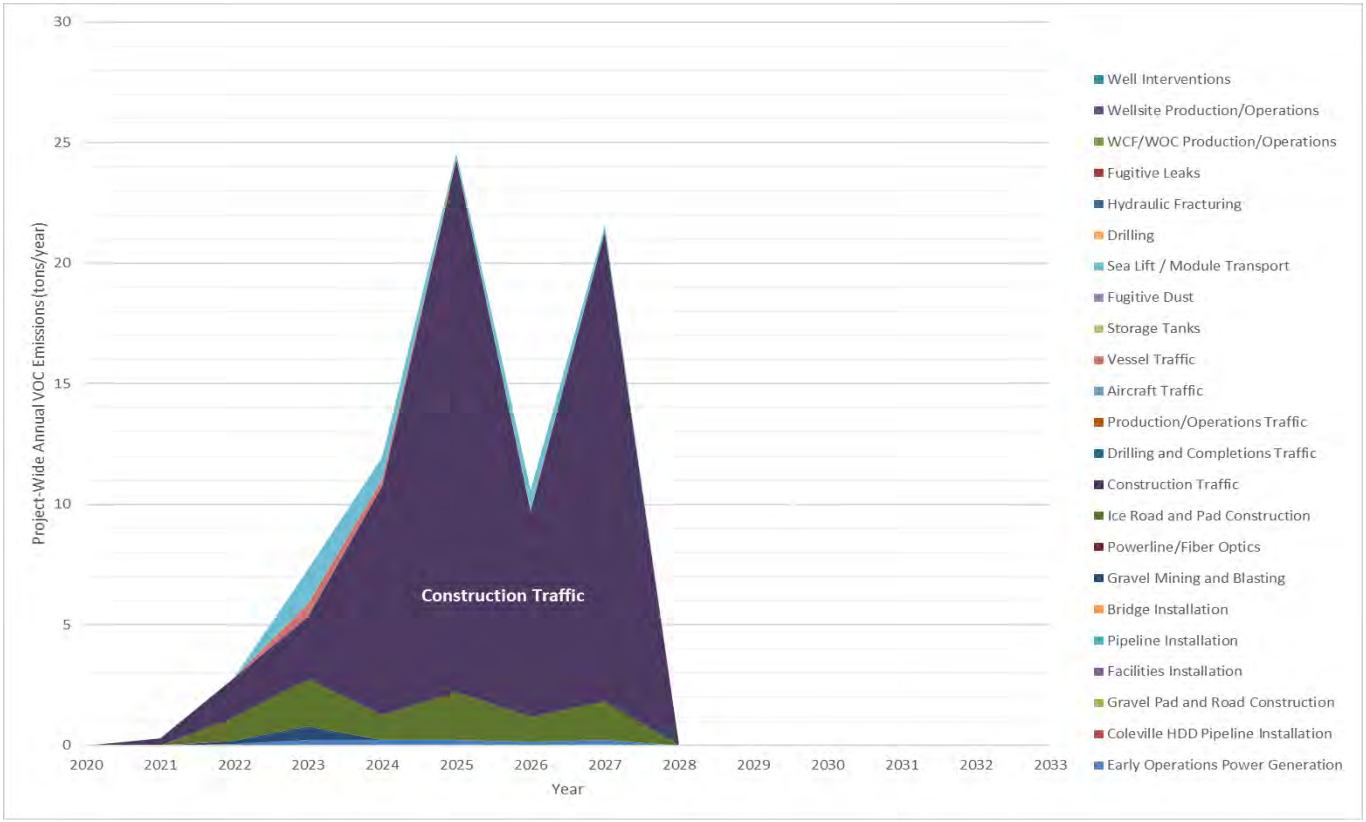


Figure D.4-12. Emissions by Source Type and Year for Module Delivery Option 1 for VOC

ENCLOSURE D.5 MODULE DELIVERY OPTION 2 SUMMARY EMISSIONS TABLES

Please note all emissions are delayed by one year for Alternative D.

Table D.5-1. Annual Criteria Pollutant Emissions (tons)

Project Year	Calendar Year	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	2020	0.0	0.0	0.0	0.0	0.0	0.0
1	2021	3.1	3.0	0.0	0.3	0.2	0.5
2	2022	52.9	45.7	0.5	3.9	2.1	6.4
3	2023	151.7	106.6	2.2	10.3	6.6	18.1
4	2024	145.3	164.4	0.8	11.5	7.0	24.1
5	2025	307.8	381.0	0.9	24.9	14.7	53.5
6	2026	127.6	150.8	0.4	10.0	6.1	21.8
7	2027	270.8	348.0	0.8	21.5	13.0	47.9
8	2028	0.0	0.0	0.0	0.2	0.0	0.0
9	2029	0.0	0.0	0.0	0.2	0.0	0.0
10	2030	0.0	0.0	0.0	0.2	0.0	0.0
11	2031	0.0	0.0	0.0	0.0	0.0	0.0
12	2032	0.0	0.0	0.0	0.0	0.0	0.0
13	2033	0.0	0.0	0.0	0.0	0.0	0.0
14	2034	0.0	0.0	0.0	0.0	0.0	0.0
15	2035	0.0	0.0	0.0	0.0	0.0	0.0
16-30	2036-2050	0.0	0.0	0.0	0.0	0.0	0.0

Table D.5-2. Emissions for Module Delivery

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kton)	Annual (ton/yr-kton)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.6E-01	7.2E-01	7.1E+00	3.1E+01
CO	4.3E-02	1.9E-01	1.8E+00	8.0E+00
SO_2	1.5E-02	6.4E-02	6.2E-01	2.7E+00
PM_{10}	6.5E-03	2.9E-02	2.8E-01	1.2E+00
$PM_{2.5}$	6.3E-03	2.7E-02	2.7E-01	1.2E+00
VOC	7.1E-03	3.1E-02	3.1E-01	1.3E+00
Benzene	9.9E-05	4.3E-04	4.3E-03	1.9E-02
Toluene	1.6E-05	6.8E-05	6.7E-04	2.9E-03
Ethylbenzene	9.7E-06	4.3E-05	4.2E-04	1.8E-03
Xylene	2.3E-05	1.0E-04	1.0E-03	4.4E-03
Formaldehyde	7.3E-04	3.2E-03	3.1E-02	1.4E-01
nHexane	2.7E-05	1.2E-04	1.2E-03	5.0E-03
CO_2e	8.7E+00	3.8E+01	3.7E+02	1.6E+03

1 Emission factors are the emission rates divided by the total weight of modules transferred via MDO in thousands of tons (kton).

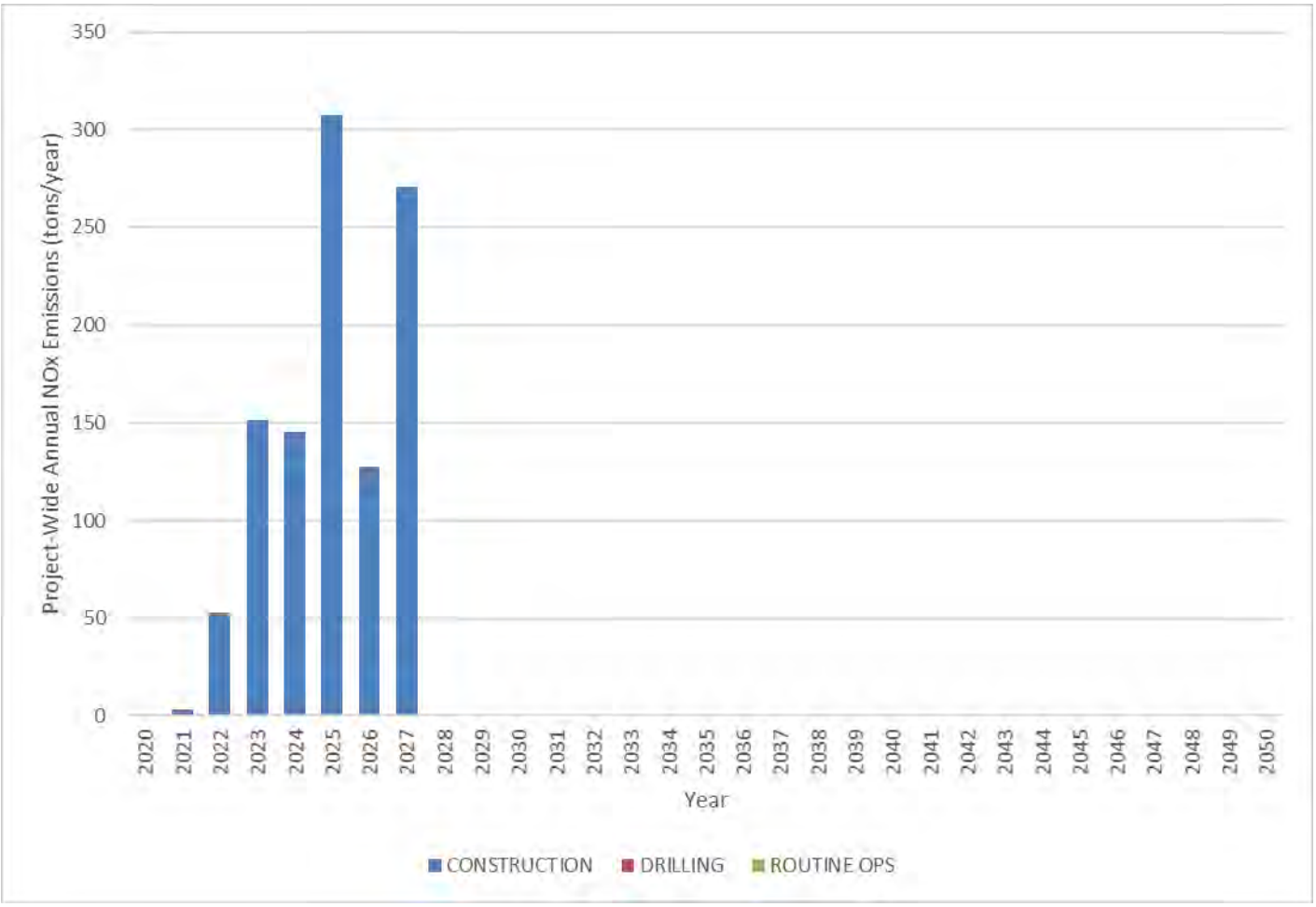


Figure D.5-1. Bar Chart of Annual Emissions for Each Phase of Development for NOx

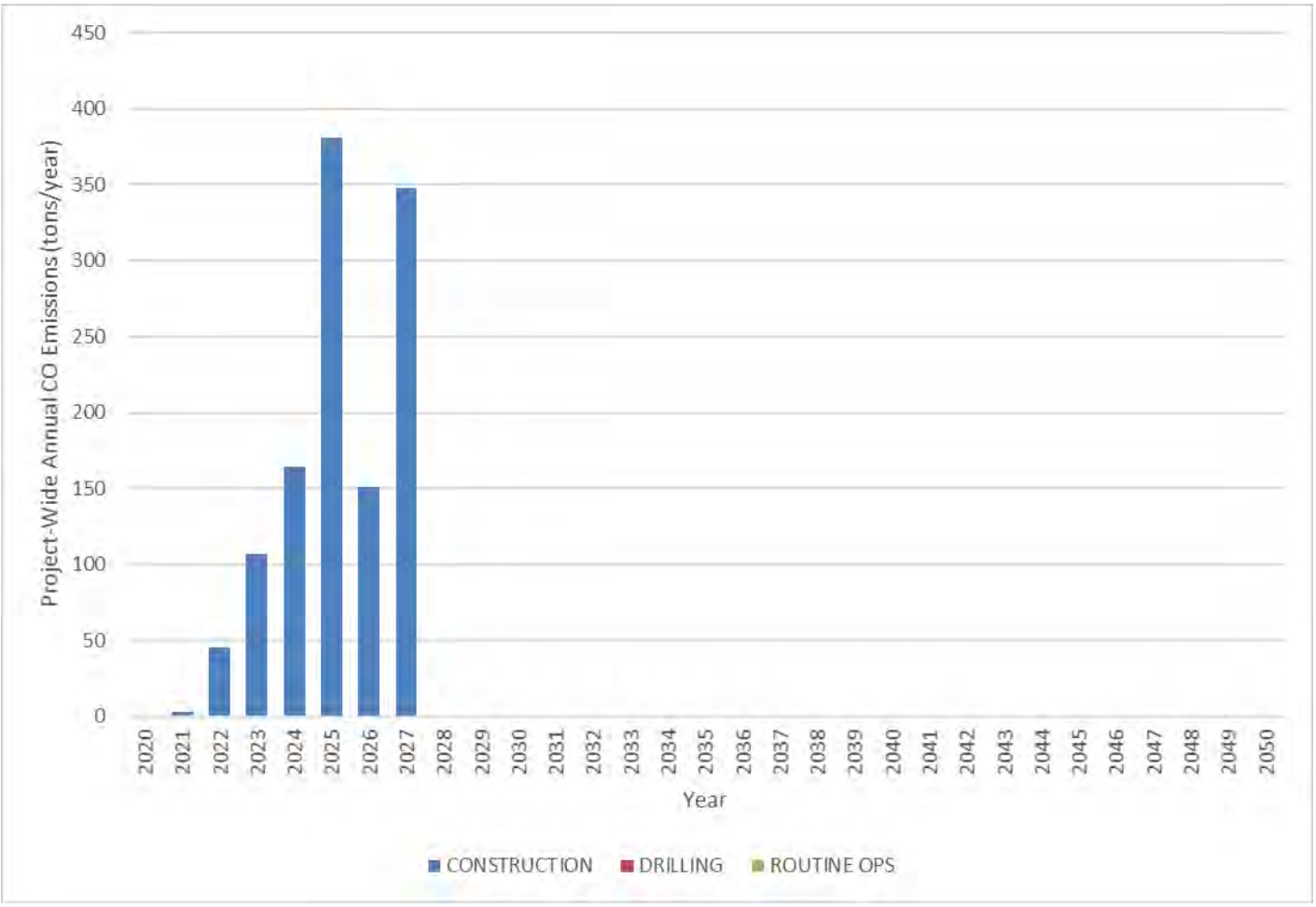


Figure D.5-2. Bar Chart of Annual Emissions for Each Phase of Development for CO

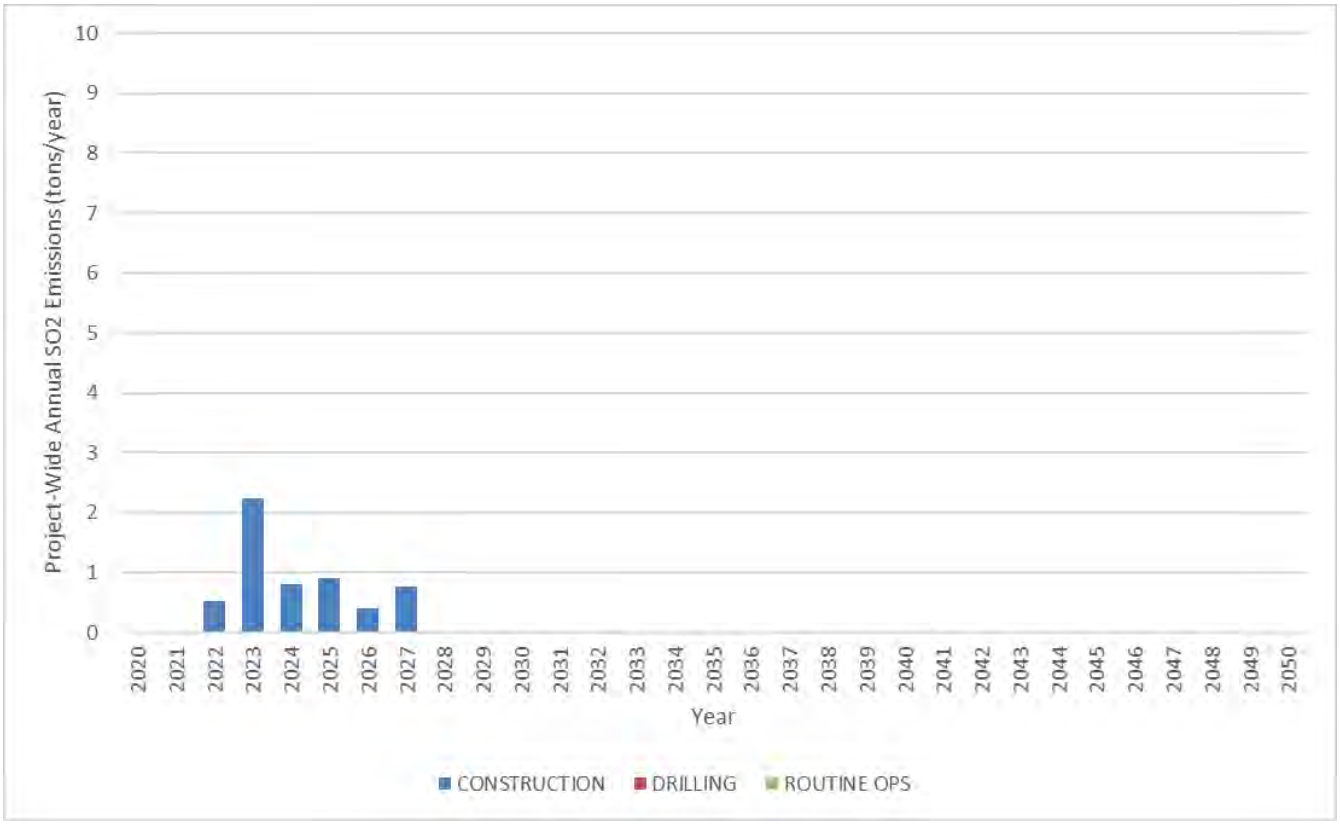


Figure D.5-3. Bar Chart of Annual Emissions for Each Phase of Development for SO_2

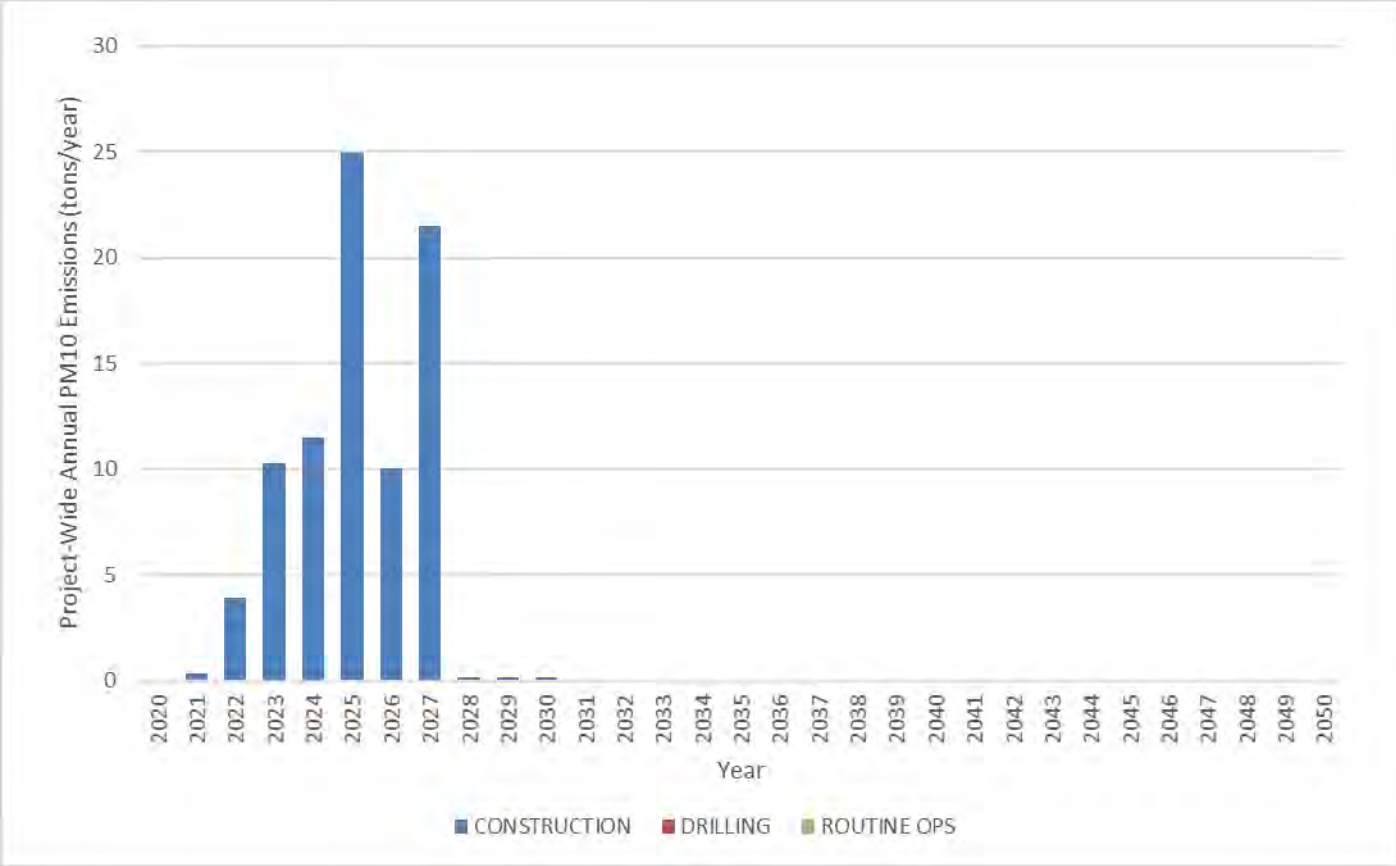


Figure D.5-4. Bar Chart of Annual Emissions for Each Phase of Development for PM_{10}

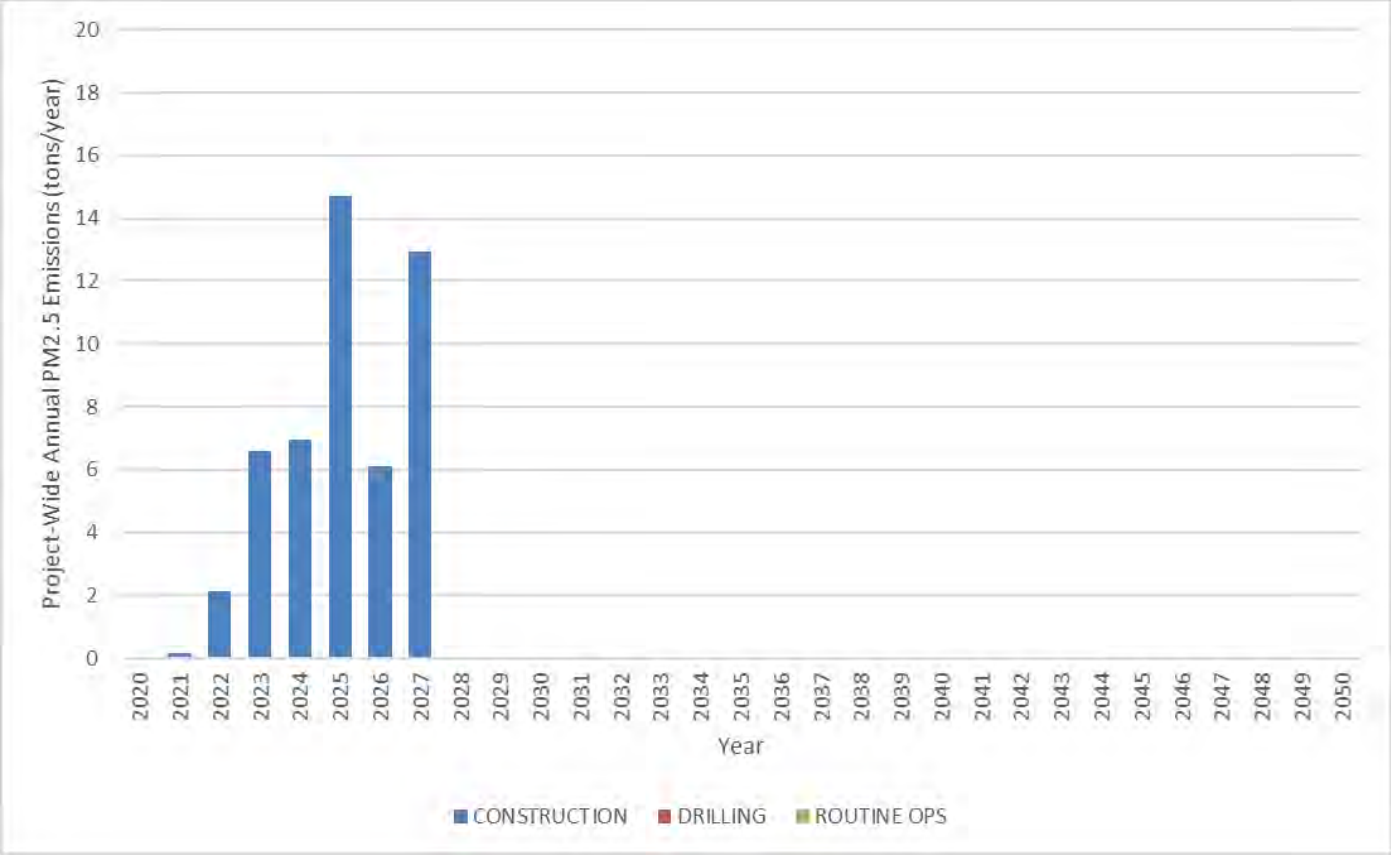


Figure D.5-5. Bar Chart of Annual Emissions for Each Phase of Development for $PM2_{.5}$

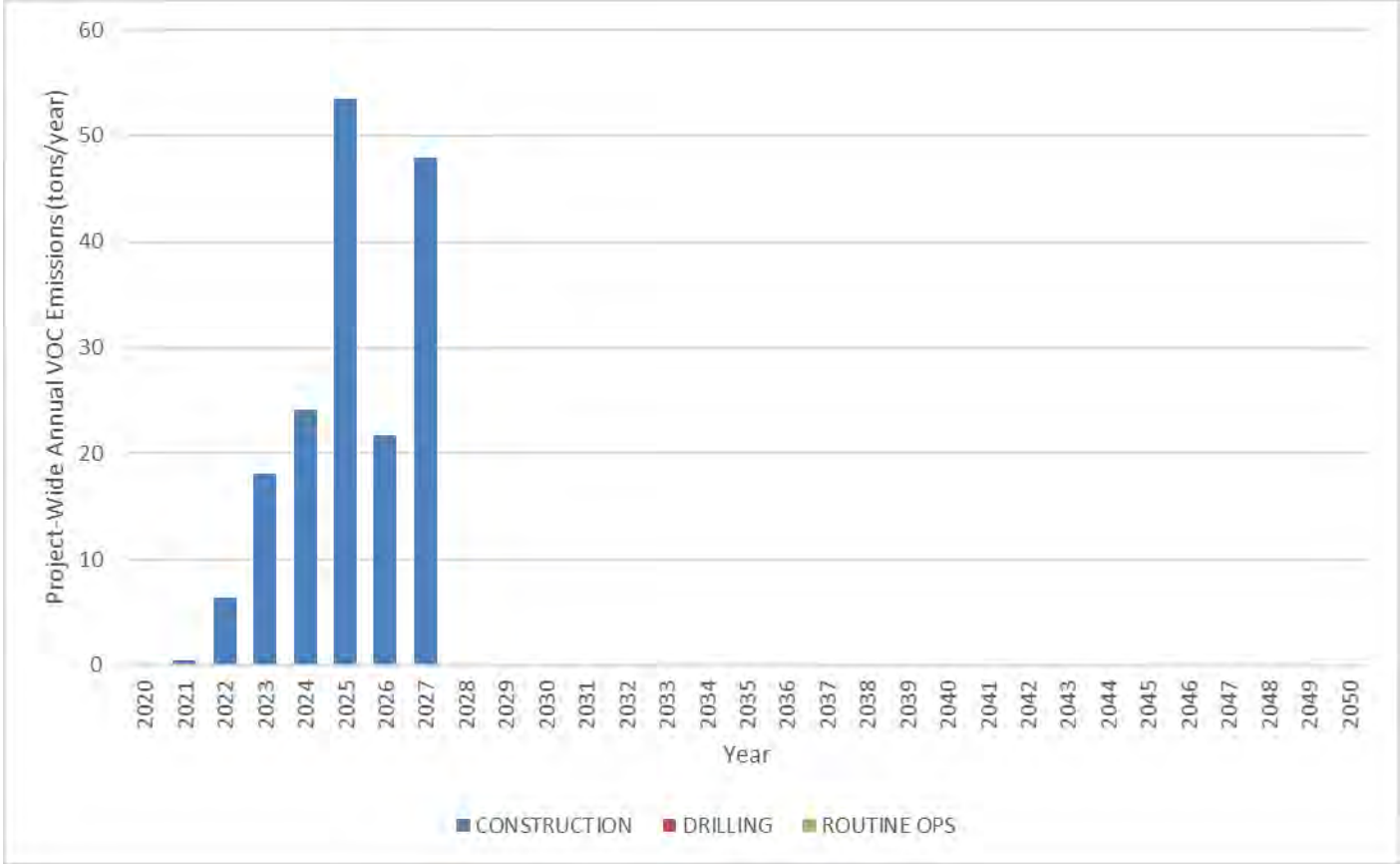


Figure D.5-6. Bar Chart of Annual Emissions for Each Phase of Development for VOC

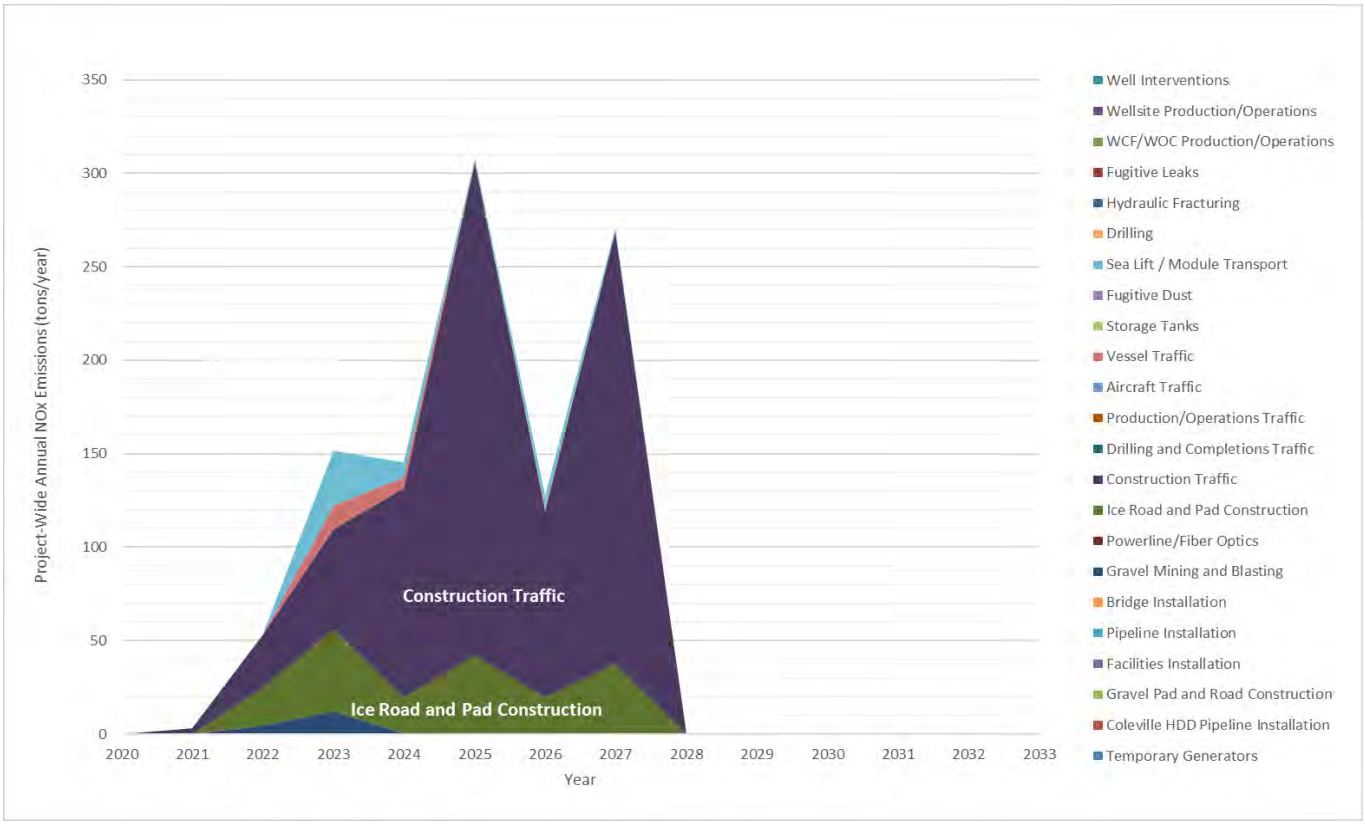


Figure D.5-7. Emissions by Source Type and Year for Module Delivery Option 2 for NOx

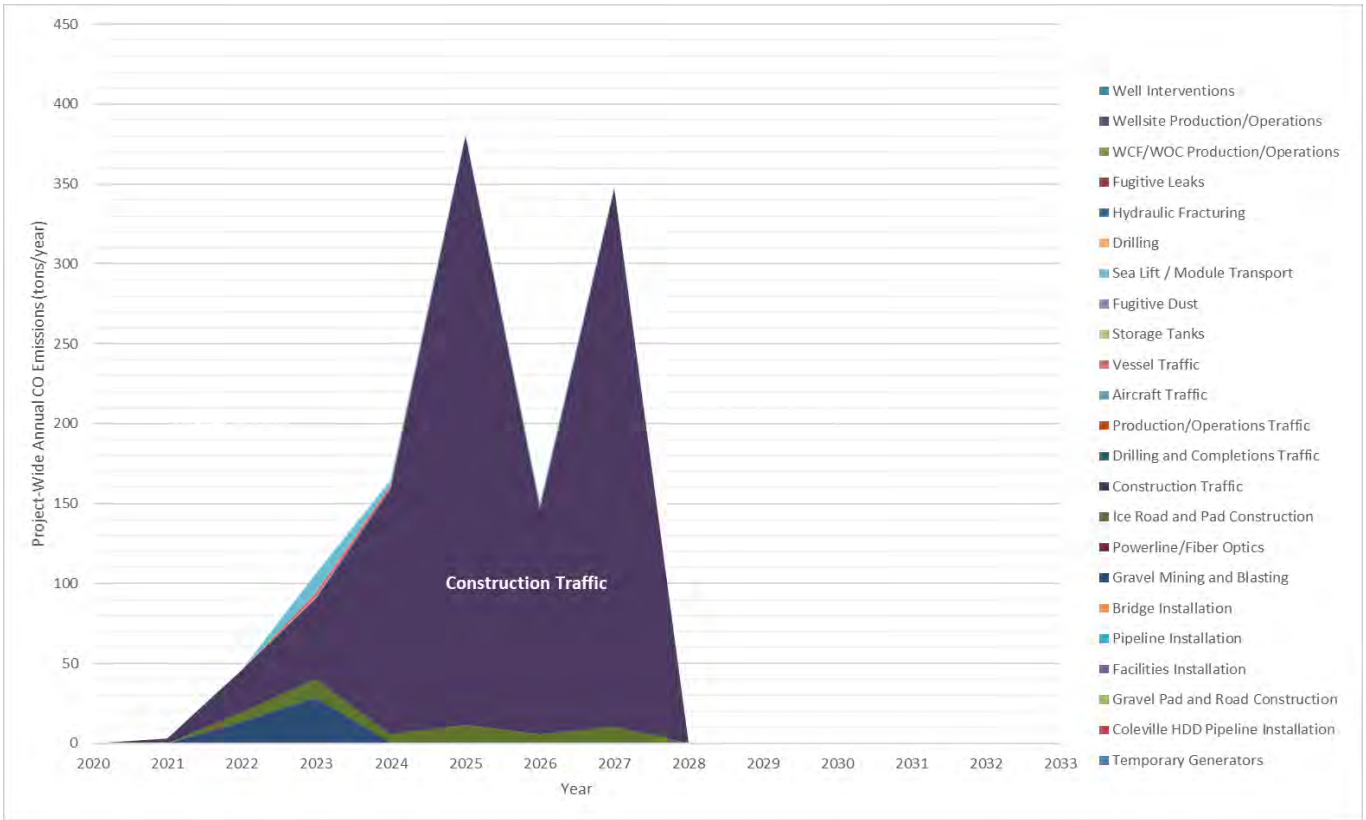


Figure D.5-8. Emissions by Source Type and Year for Module Delivery Option 2 for CO

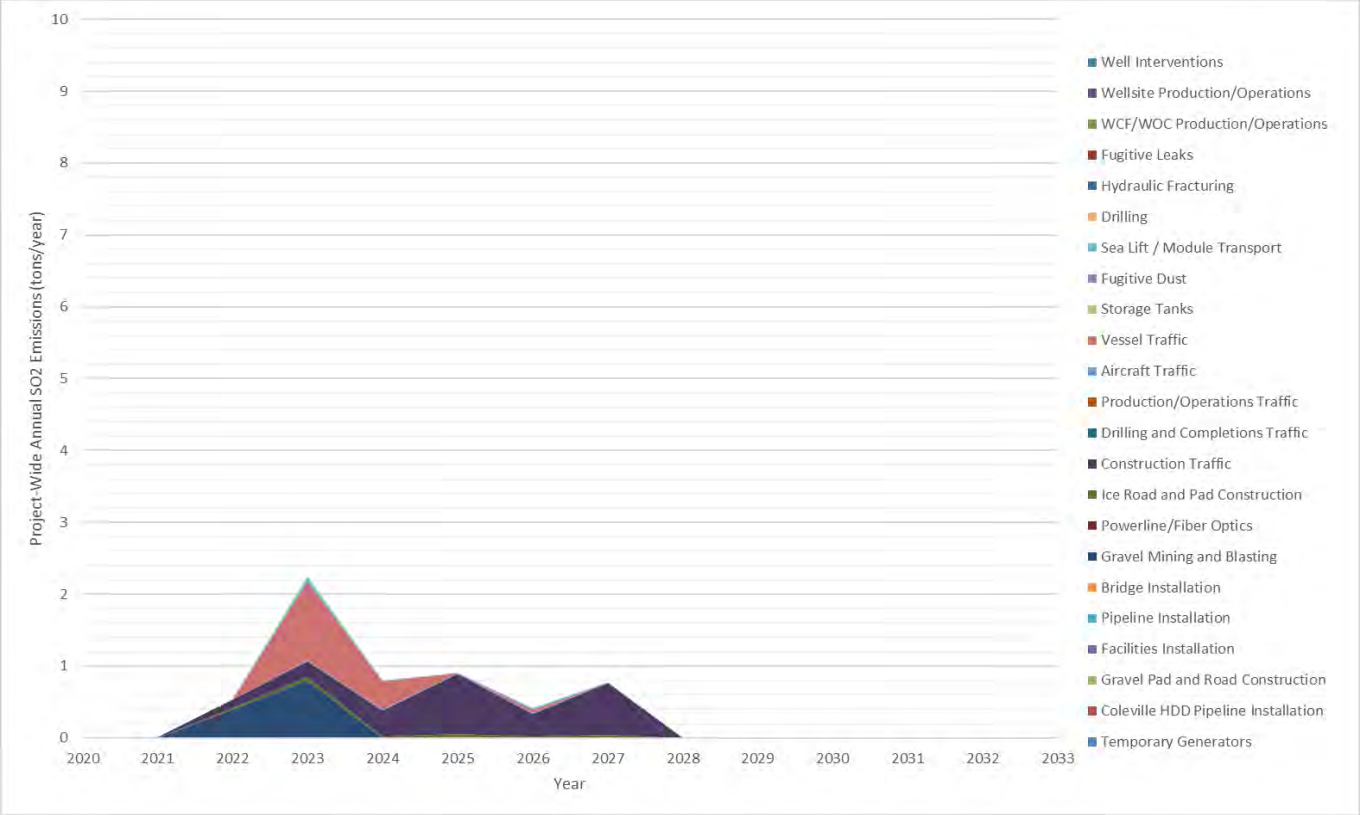


Figure D.5-9. Emissions by Source Type and Year for Module Delivery Option 2 for SO_2

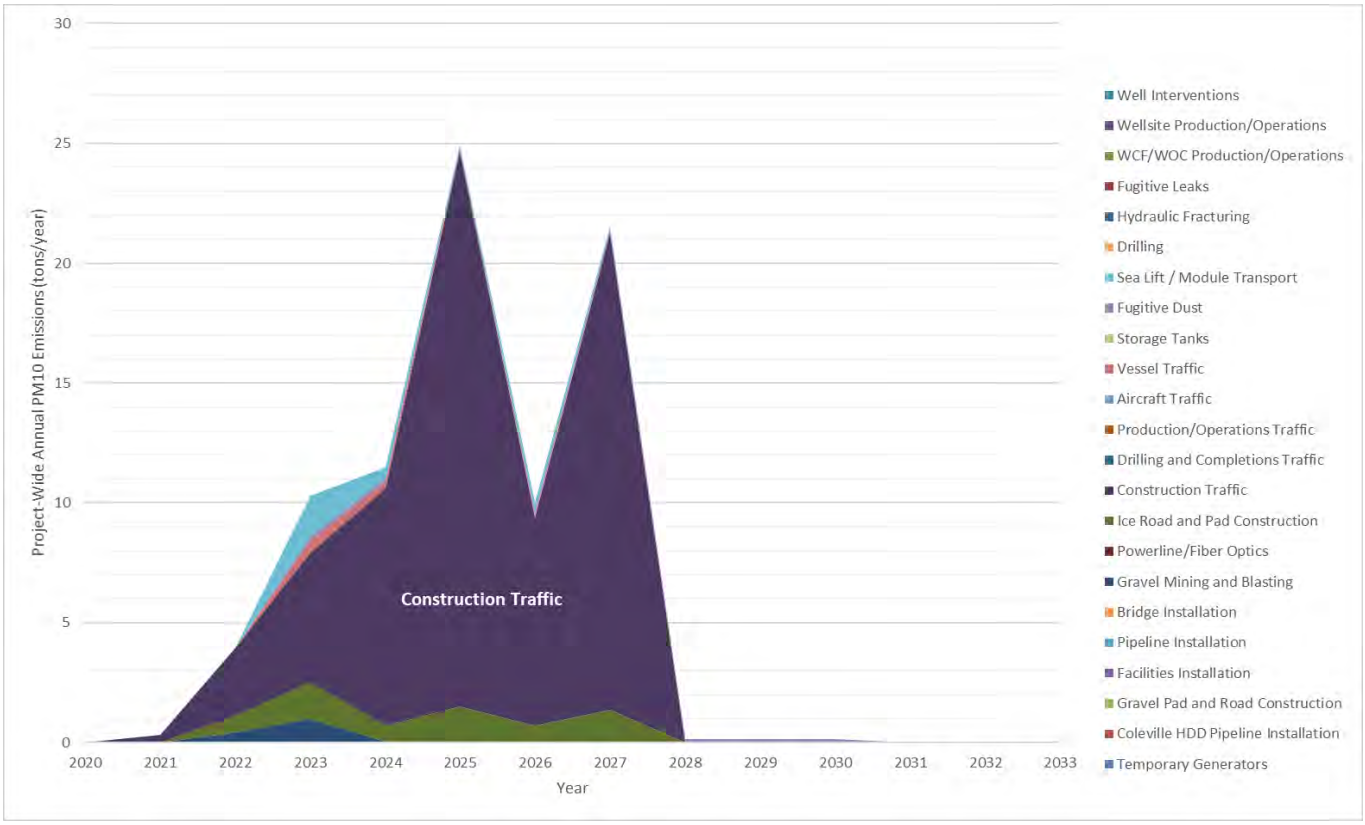


Figure D.5-10. Emissions by Source Type and Year for Module Delivery Option 2 for PM_{10}

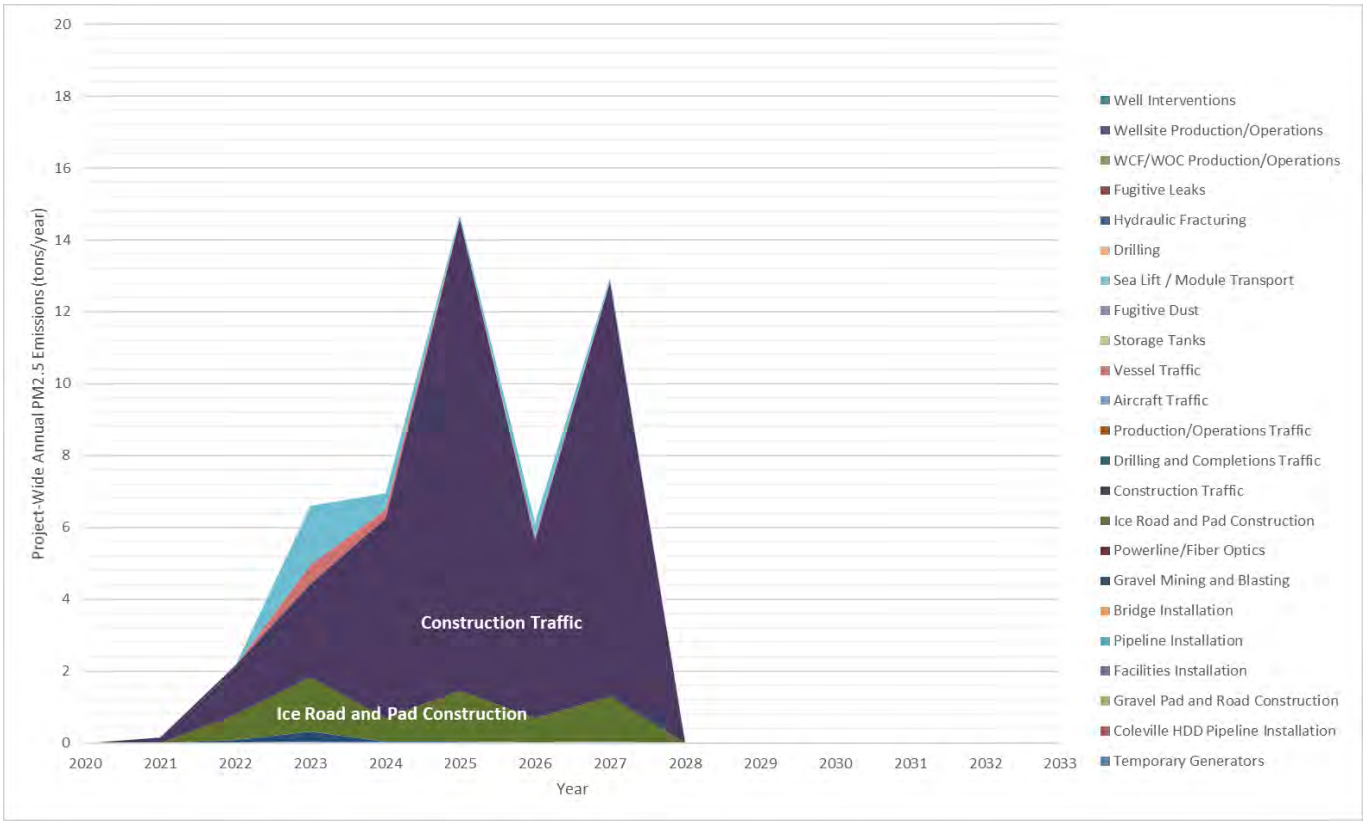


Figure D.5-11. Emissions by Source Type and Year for Module Delivery Option 2 for $PM_{2.5}$

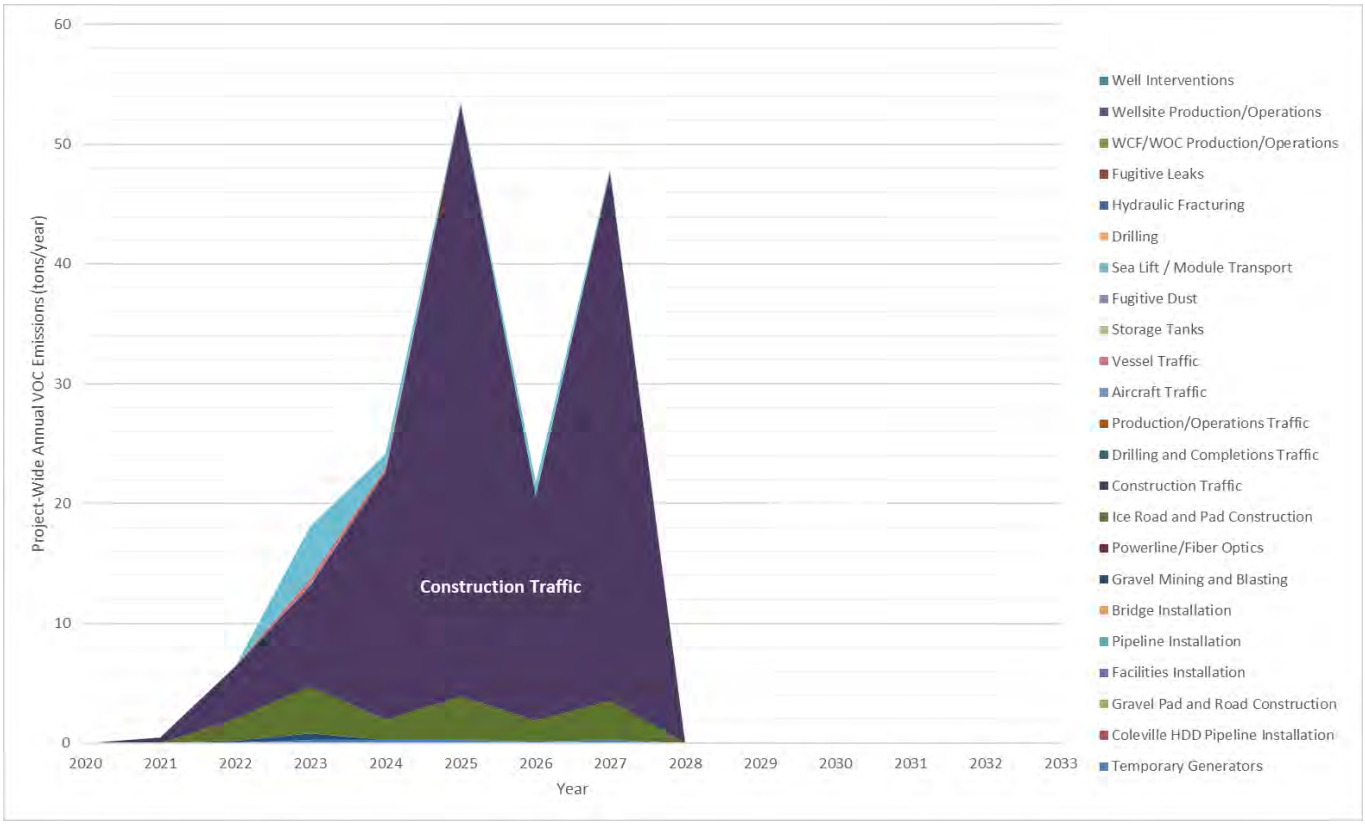


Figure D.5-12. Emissions by Source Type and Year for Module Delivery Option 2 for VOC

ENCLOSURE D.6 ALTERNATIVE C PROJECT EMISSIONS INVENTORY

The emissions inventory for Alternative C is provided separately as a set of Microsoft Excel spreadsheets. These spreadsheets are organized as described in Table D.6-1. The Module Delivery Option emission inventories are listed in Attachments D.8 and D.9 and are separate from the Alternative C emission inventory.

Table D.6-1. Organization of Emissions Calculation Spreadsheets Electronically Enclosed for Alternative C

Spreadsheet(s)	Description of Contents
AltC Emissions Summary_Project.xlsx	Overall summary of monthly emissions for the entire development project by pollutant.
Willow AltC EI-Construction-BT1.xlsx Willow AltC EI-Construction-BT2.xlsx Willow AltC EI-Construction-BT3.xlsx Willow AltC EI-Construction-BT4.xlsx Willow AltC EI-Construction-BT5.xlsx	Construction-related emissions calculations for each of the five Willow drillsites (BT1 through BT5).
Willow AltC EI-Construction-WPF+IP+Airstrip.xlsx	Construction-related emissions calculations for the WPF, WOC, and Willow Airstrip.
Willow AltC EI-General Activities_wT4.xlsx	Emissions calculations for a variety of activities occurring throughout the development, at multiple undefined locations, or outside the development. These types of activities include certain aspects of road, bridge, pipeline, and utility lines construction, vehicle traffic, drilling throughout the development, connected activities at the ACF, fugitive sources, and others.
Willow AltC EI-Non-Construction-BT1_wT4.xlsx Willow AltC EI-Non-Construction-BT2.xlsx Willow AltC EI-Non-Construction-BT3.xlsx Willow AltC EI-Non-Construction-BT4.xlsx Willow AltC EI-Non-Construction-BT5.xlsx	Routine operations and drilling-related emissions calculations for each of the five Willow drillsites (BT1 through BT5).
Willow AltC EI-Non-Construction-WPF+IP+Airstrip.xlsx	Routine operations-related emissions calculations for the WPF, WOC, and Willow Airstrip.

ENCLOSURE D.7 ALTERNATIVE D PROJECT EMISSIONS INVENTORY

The emissions inventory for Alternative D is provided separately as a set of Microsoft Excel spreadsheets. These spreadsheets are organized as described in Table D.7-1. The Module Delivery Option emission inventories are listed in Attachments D.8 and D.9 and are separate from the Alternative D emission inventory.

Table D.7-1. Organization of Emissions Calculation Spreadsheets Electronically Enclosed for Alternative D

Spreadsheet(s)	Description of Contents
AltD Emissions Summary_Project.xlsx	Overall summary of monthly emissions for the entire development project by pollutant.
Willow AltD EI-Construction-BT1.xlsx Willow AltD EI-Construction-BT2.xlsx Willow AltD EI-Construction-BT3.xlsx Willow AltD EI-Construction-BT4.xlsx Willow AltD EI-Construction-BT5.xlsx	Construction-related emissions calculations for each of the five Willow drillsites (BT1 through BT5).
Willow AltD EI-Construction-WPF+IP+Airstrip.xlsx	Construction-related emissions calculations for the WPF, WOC, and Willow Airstrip.
Willow AltD EI-General Activities_wT4.xlsx	Emissions calculations for a variety of activities occurring throughout the development, at multiple undefined locations, or outside the development. These types of activities include certain aspects of road, bridge, pipeline, and utility lines construction, vehicle traffic, drilling throughout the development, fugitive sources, and others.
Willow AltD EI-Non-Construction-BT1_wT4.xlsx Willow AltD EI-Non-Construction-BT2.xlsx Willow AltD EI-Non-Construction-BT3.xlsx Willow AltD EI-Non-Construction-BT4.xlsx Willow AltD EI-Non-Construction-BT5.xlsx	Routine operations and drilling-related emissions calculations for each of the five Willow drillsites (BT1 through BT5).
Willow AltD EI-Non-Construction-WPF+IP+Airstrip.xlsx	Routine operations-related emissions calculations for the WPF, WOC, and Willow Airstrip.

ENCLOSURE D.8 MODULE DELIVERY OPTION 1 PROJECT EMISSIONS INVENTORY

The emissions inventory for Module Delivery Option 1 is provided separately as a set of Microsoft Excel spreadsheets. These spreadsheets are organized as described in Table D.8-1 .

Table D.8-1. Organization of Emissions Calculation Spreadsheets Electronically Enclosed for Module Delivery Option 1

Spreadsheet(s)	Description of Contents
Willow_Option1_Emissions_Summary.xlsx	Overall summary of monthly emissions for the entire development project by pollutant.
Willow_EI-NSA+SeaLift_Option1.xlsx Willow_EI-NSA_General Activities_Option1.xlsx	Emissions calculations related to construction of a gravel island, sealift, and ground module transport to the Willow Development.

ENCLOSURE D.9 MODULE DELIVERY OPTION 2 PROJECT EMISSIONS INVENTORY

The emissions inventory for Module Delivery Option 2 is provided separately as a set of Microsoft Excel spreadsheets. These spreadsheets are organized as described in Table D.9-1.

Table D.9-1. Organization of Emissions Calculation Spreadsheets Electronically Enclosed for Module Delivery Option 2

Spreadsheet(s)	Description of Contents
Willow_Option2_Emissions_Summary.xlsx	Overall summary of monthly emissions for the entire development project by pollutant.
Willow_EI-NSA+SeaLift_Option2.xlsx Willow_EI-NSA_General Activities_Option2.xlsx	Emissions calculations related to construction of a gravel island, sealift, and ground module transport to the Willow Development.

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E.1 Alternative B

E.1.1 Construction

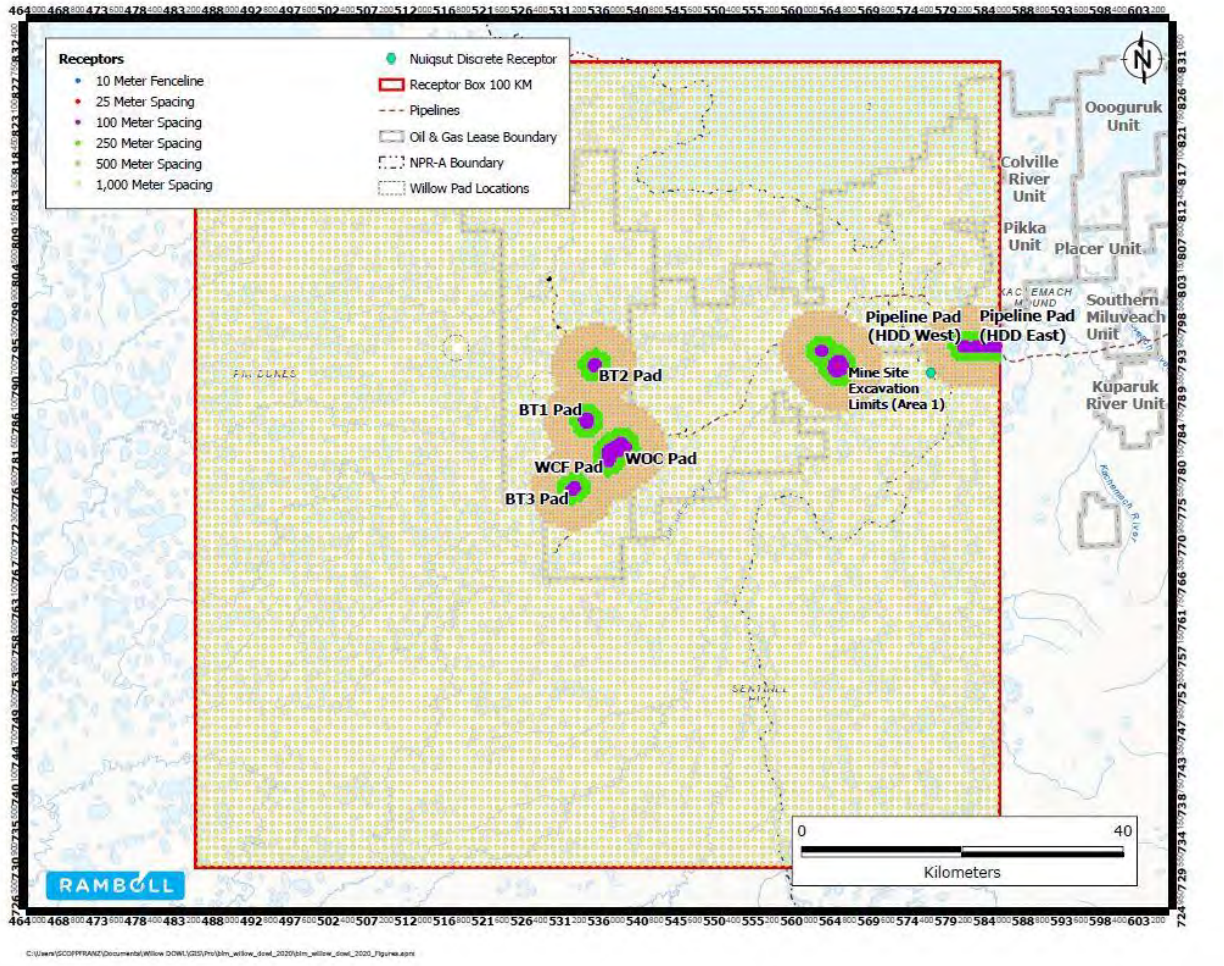


Figure E.1-1. Overview of Construction Receptor Locations – Alternative B (Proponent's Project)

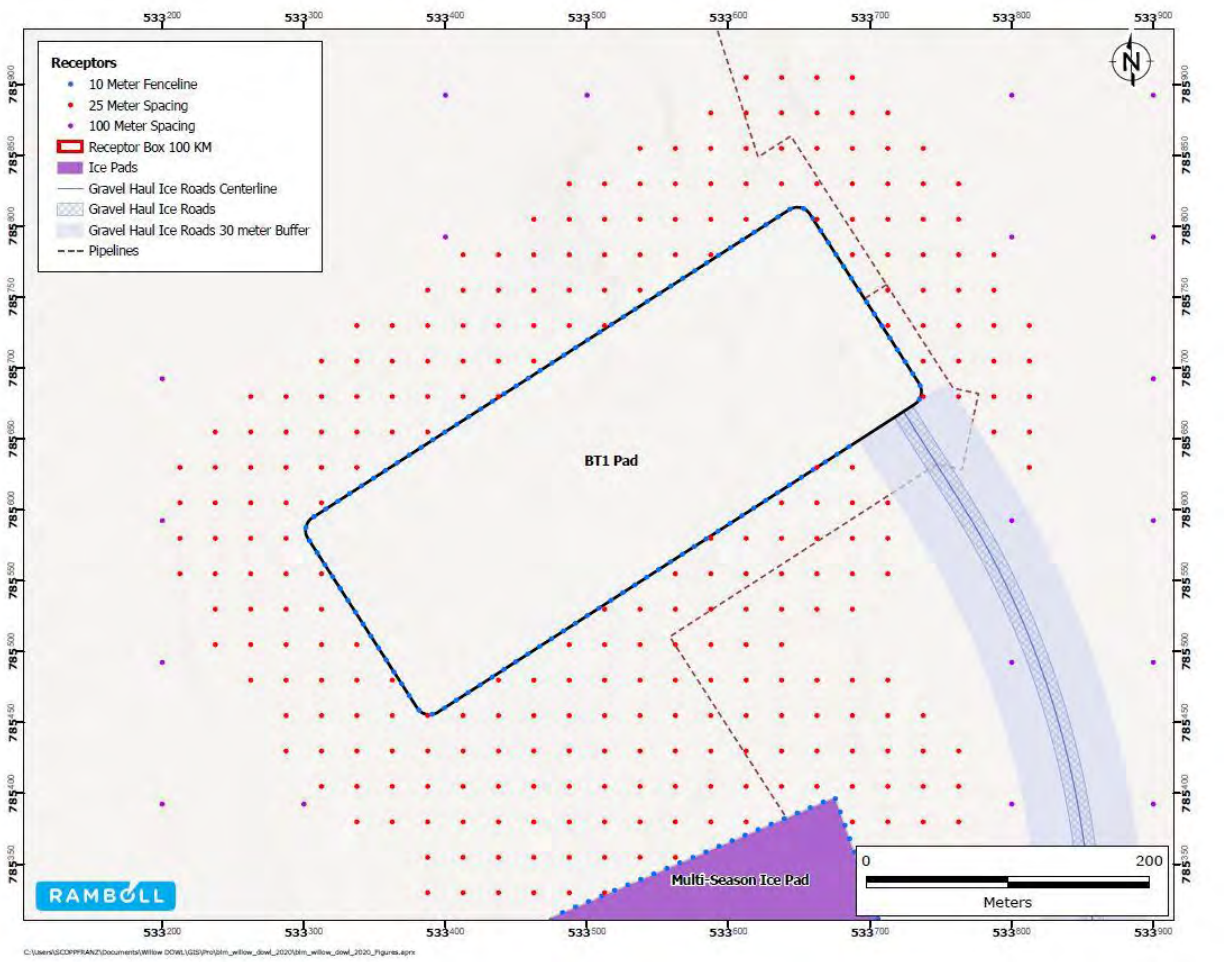


Figure E.1-2. BT1 Construction Receptor Locations – Alternative B (Proponent's Project)

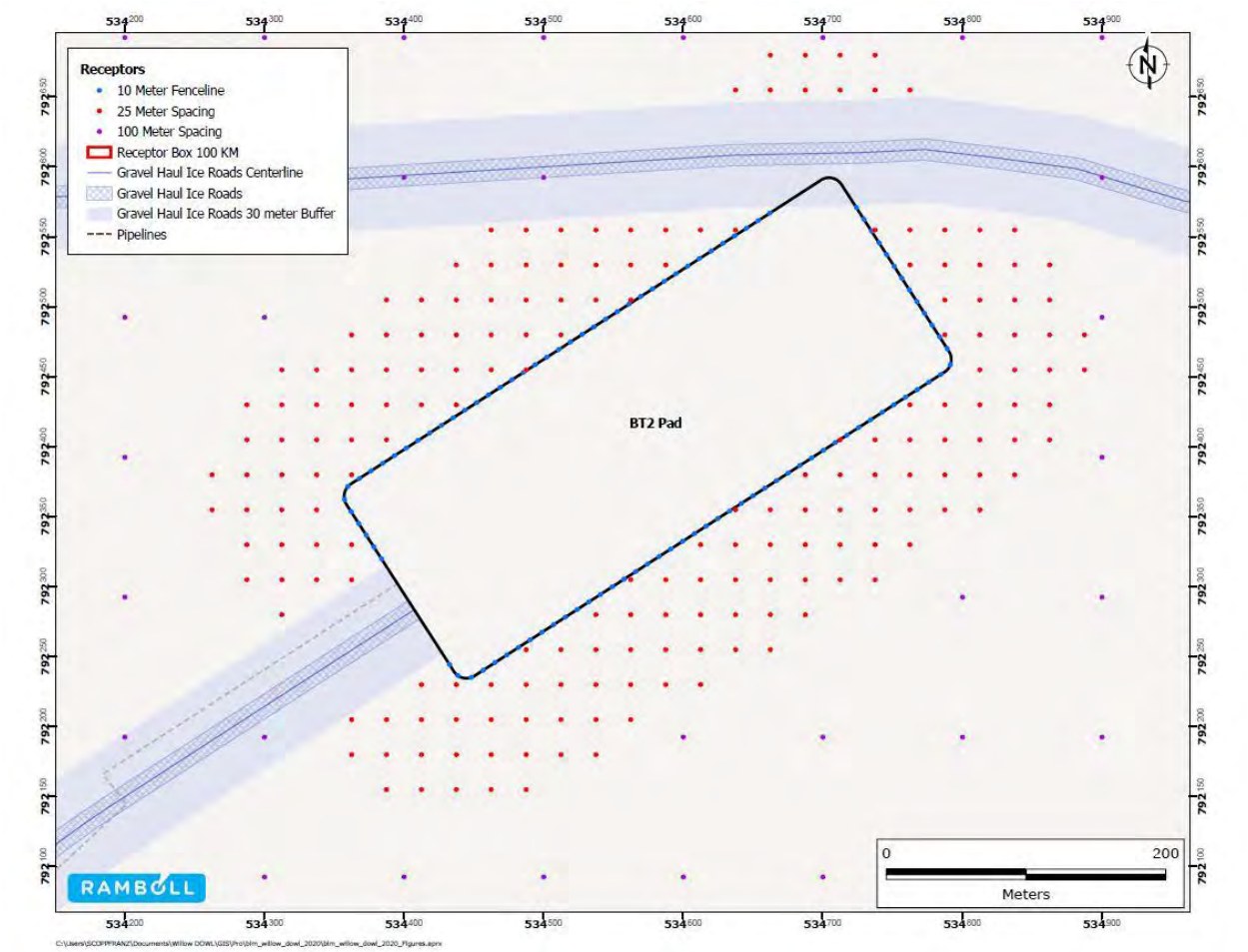


Figure E.1-3. BT2 Construction Receptor Locations – Alternative B (Proponent's Project)

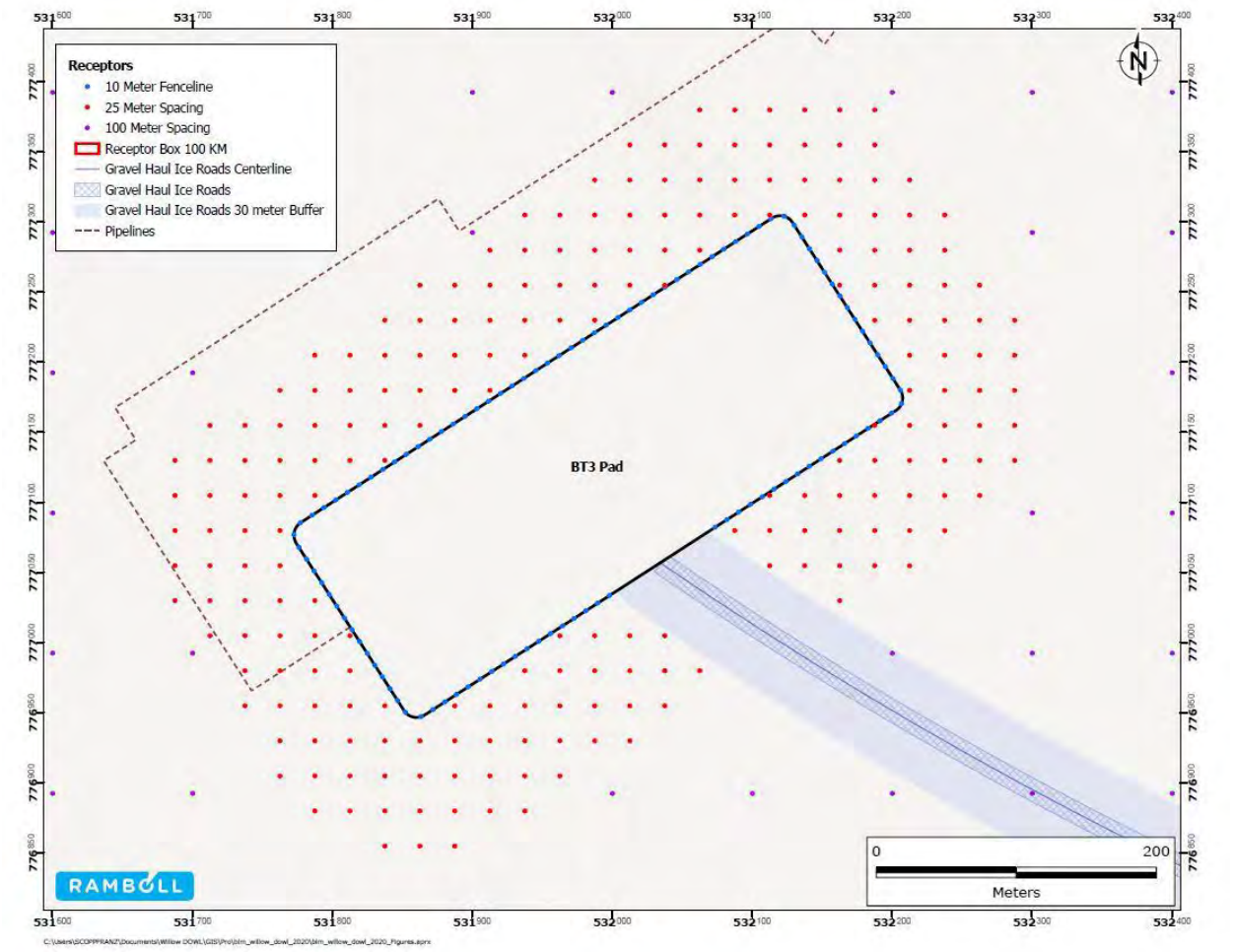


Figure E.1-4. BT3 Construction Receptor Locations – Alternative B (Proponent's Project)

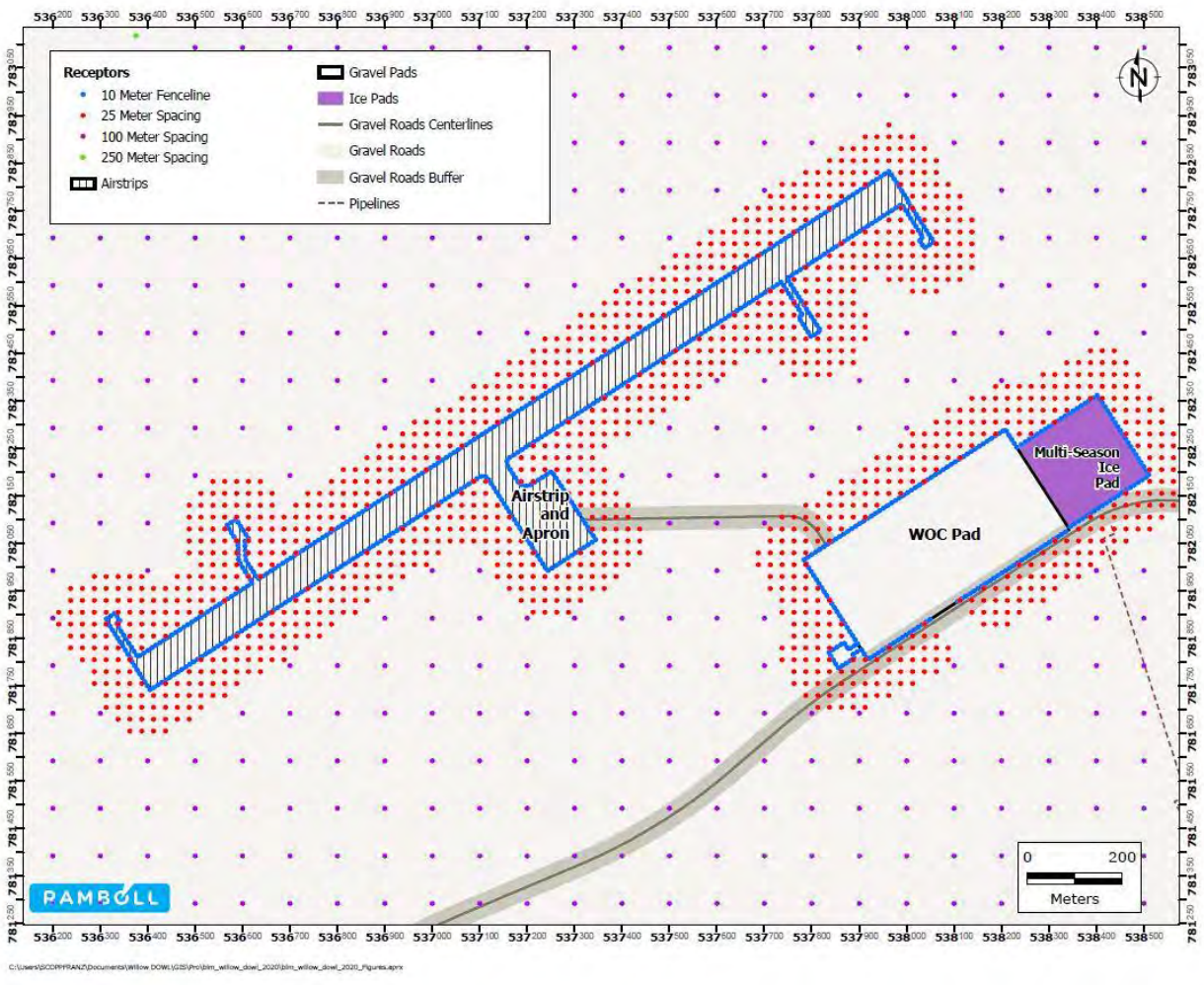


Figure E.1-5. Airstrip and WOC Pad Construction Receptor Locations – Alternative B (Proponent's Project)

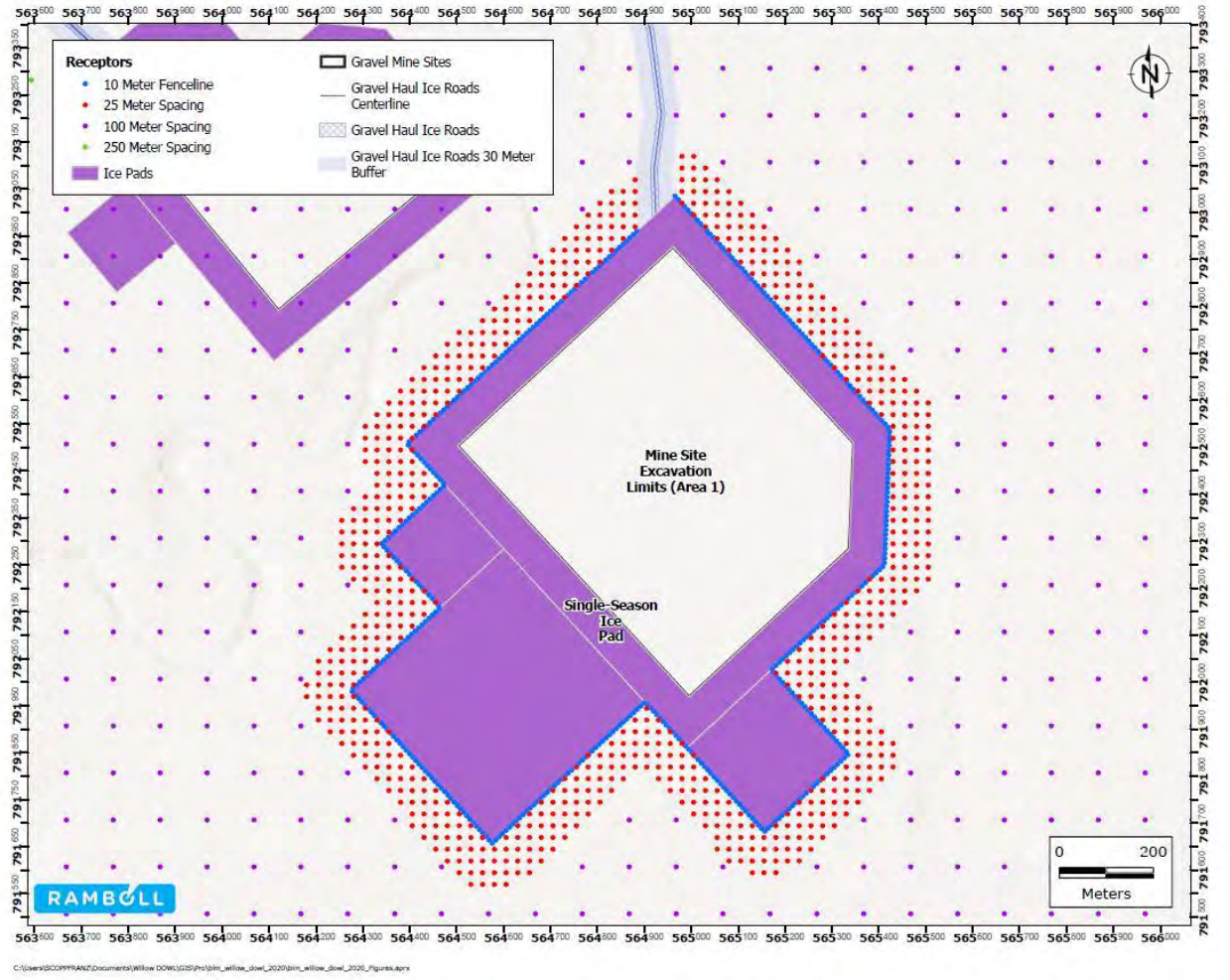


Figure E.1-6. Gravel Mine Site Construction Receptor Locations – Alternative B (Proponent's Project)

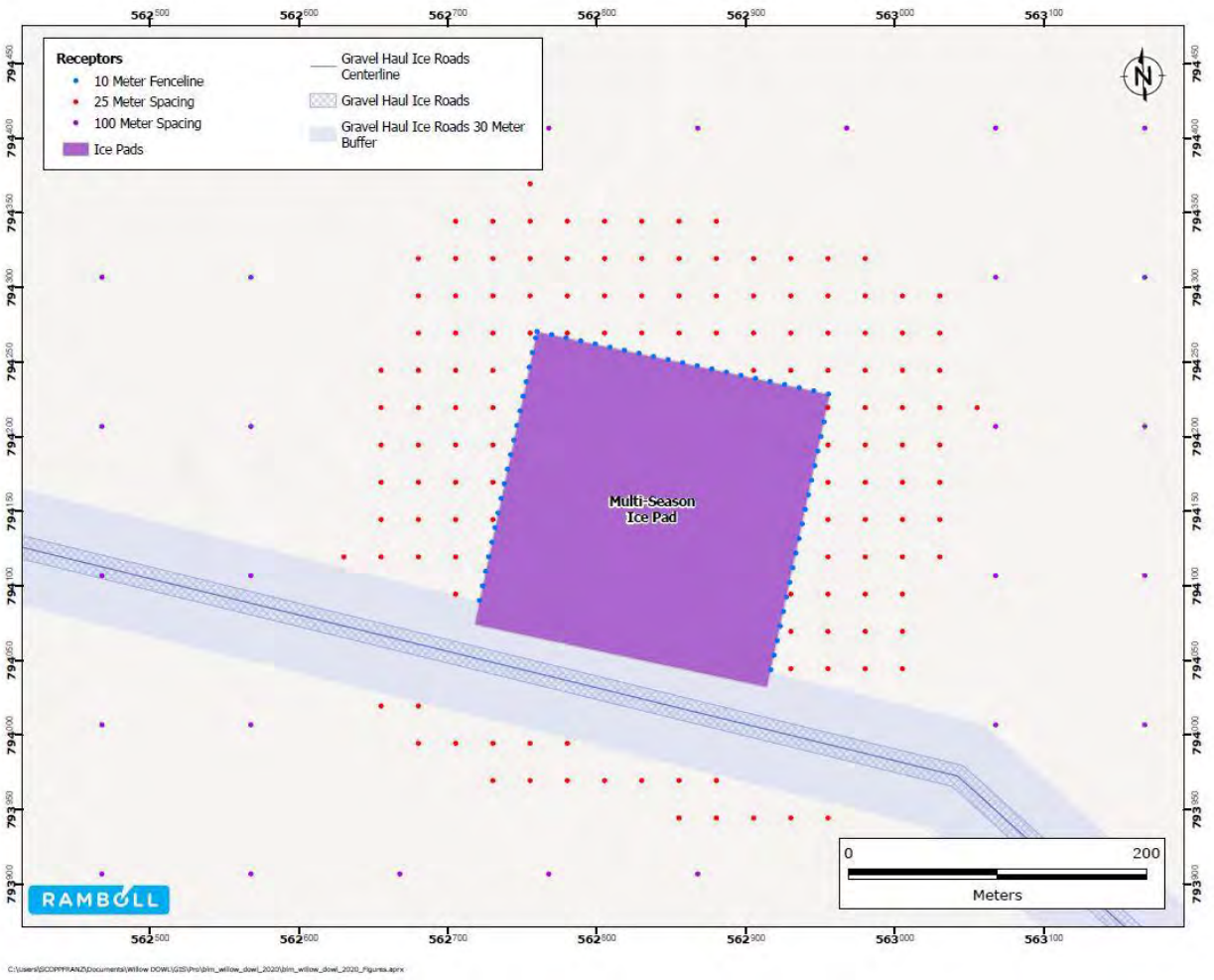


Figure E.1-7. Mine Camp Construction Receptor Locations – Alternative B (Proponent's Project)

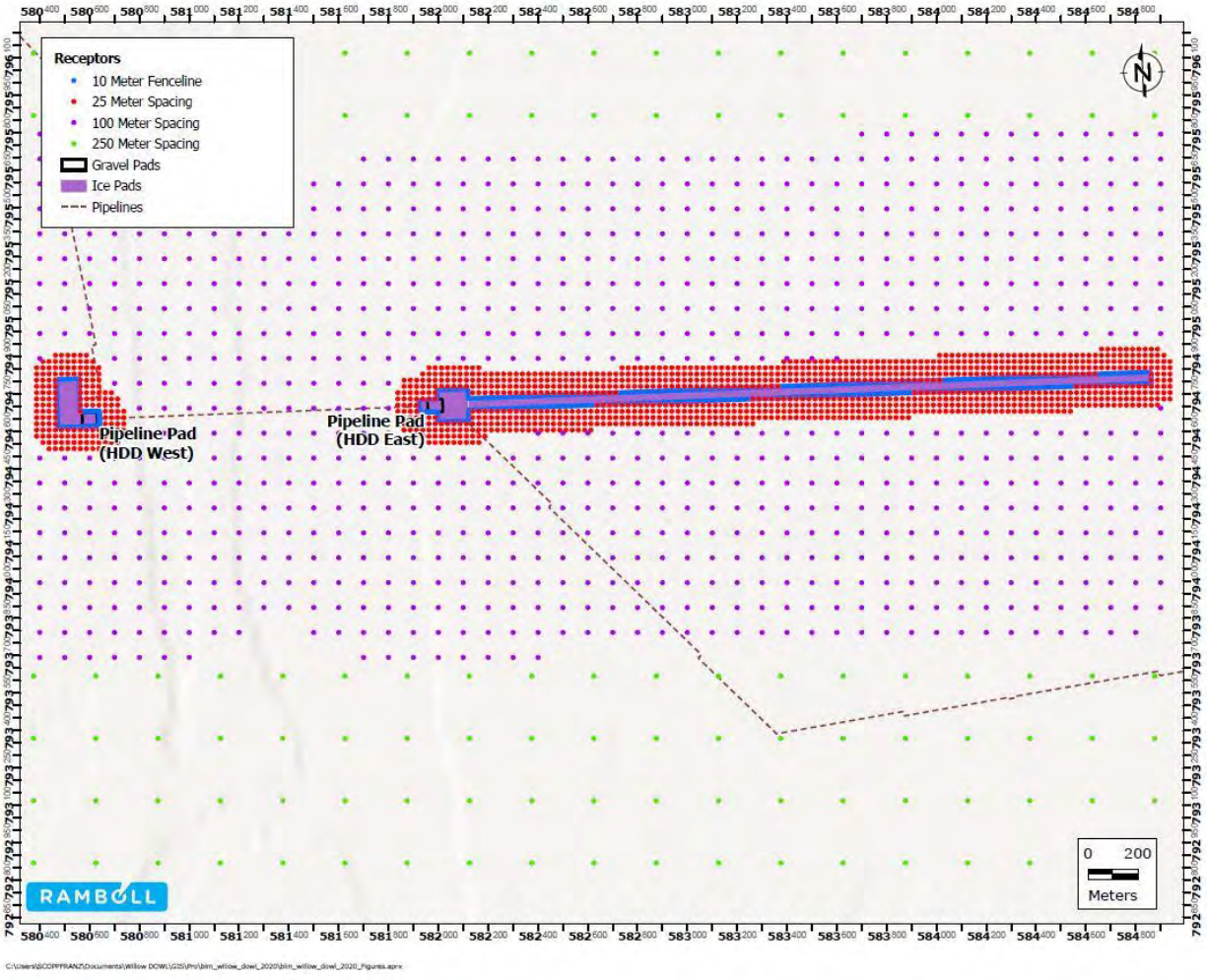


Figure E.1-8. HDD Construction Receptor Locations – Alternative B (Proponent's Project)

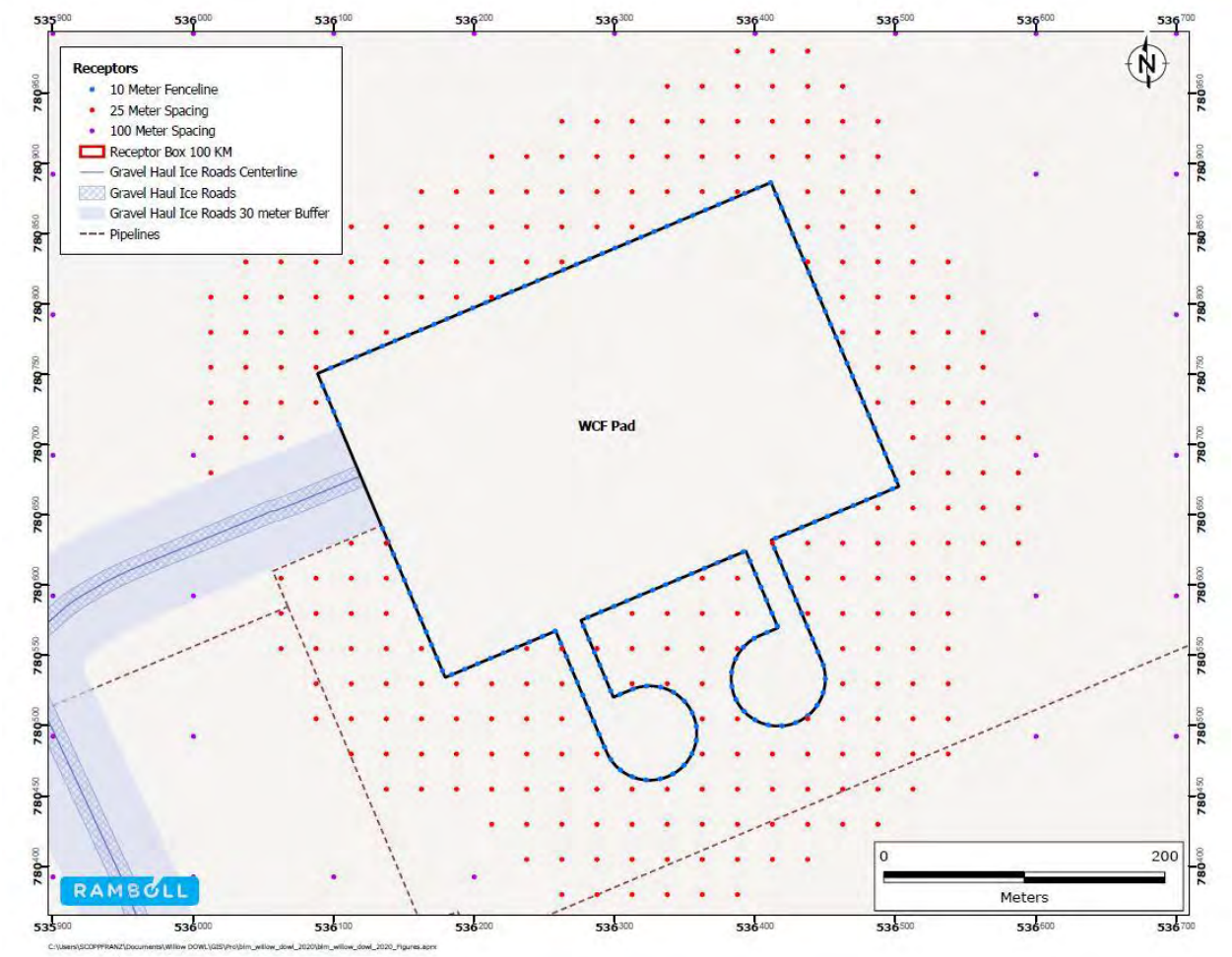


Figure E.1-9. WCF Construction Receptor Locations – Alternative B (Proponent's Project)

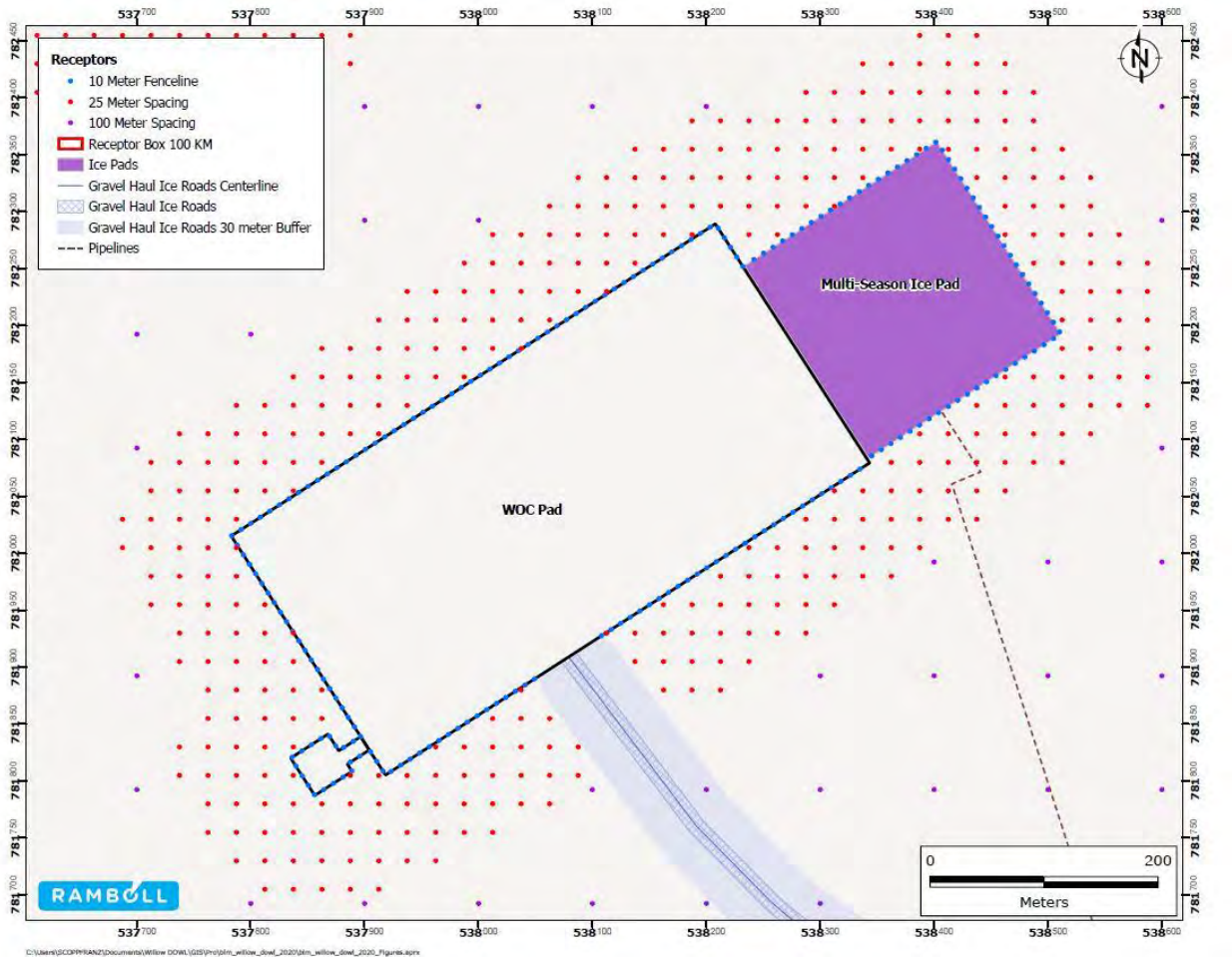


Figure E.1-10. WOC Construction Receptor Locations – Alternative B (Proponent's Project)

E.1.2 BT1 Pre-Drilling

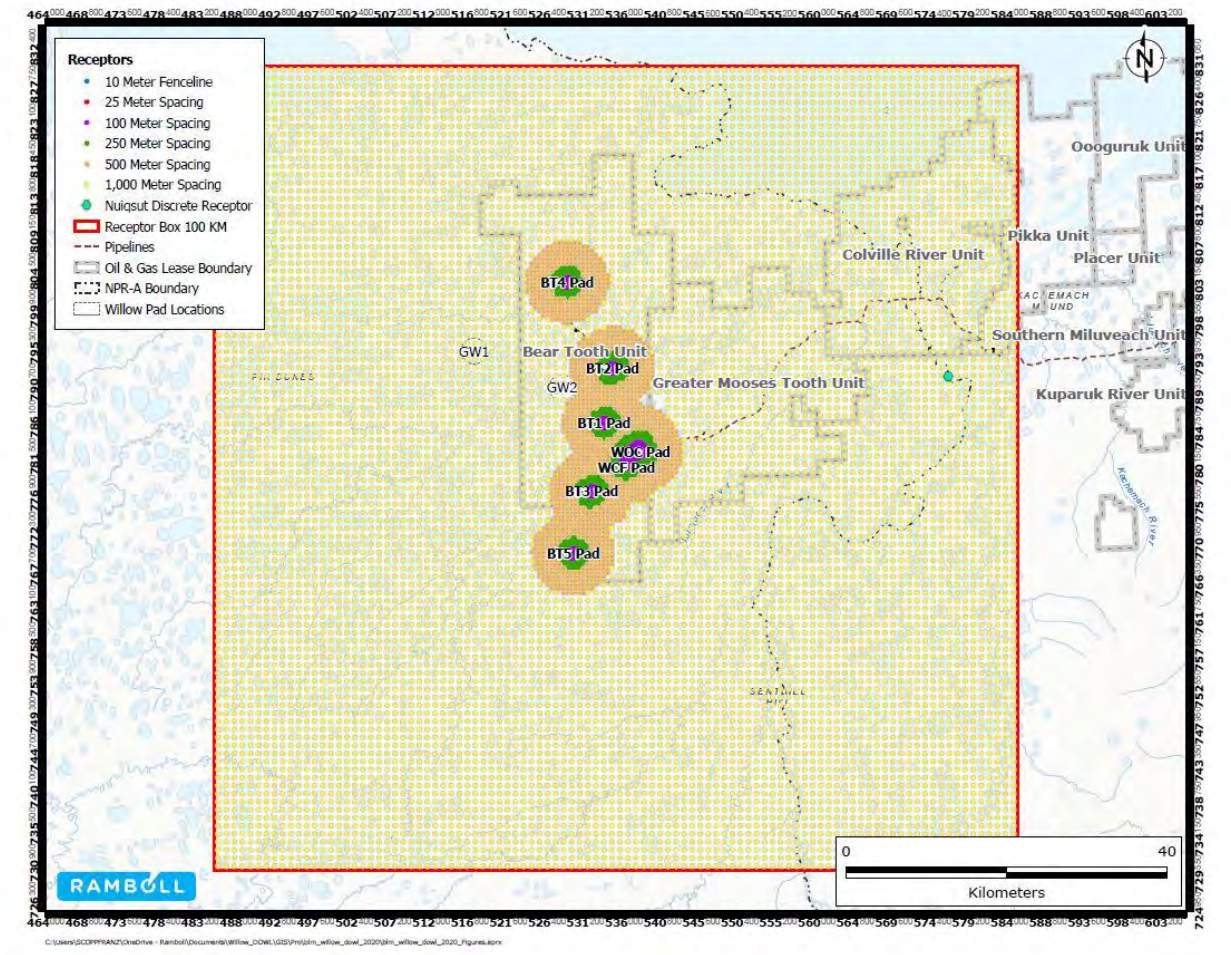


Figure E.1-11. Overview of Drilling Receptor Locations – Alternative B (Proponent's Project)

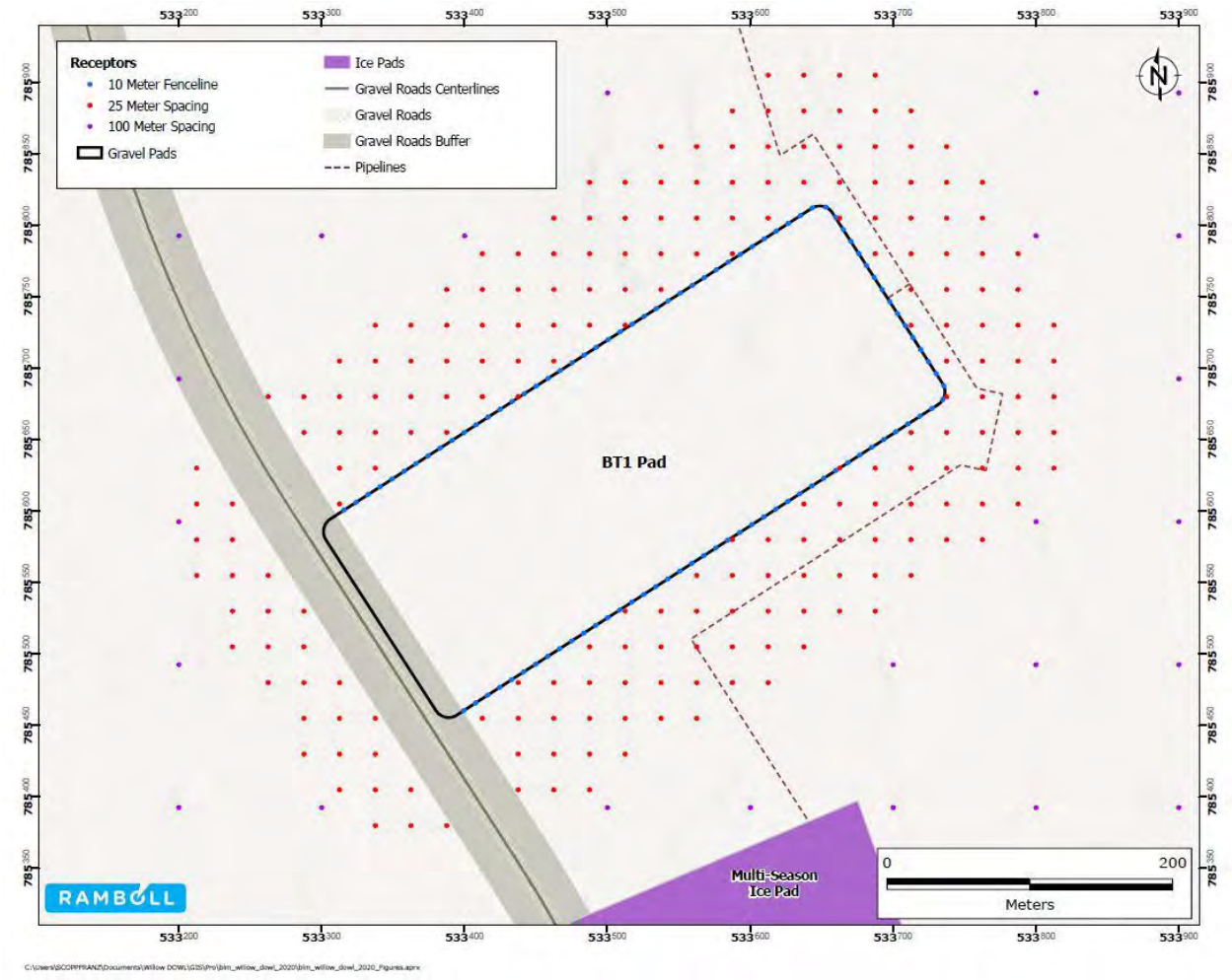


Figure E.1-12. BT1 Drilling Receptor Locations – Alternative B (Proponent's Project)

E.1.3 BT1 and BT2 Pre-Drill

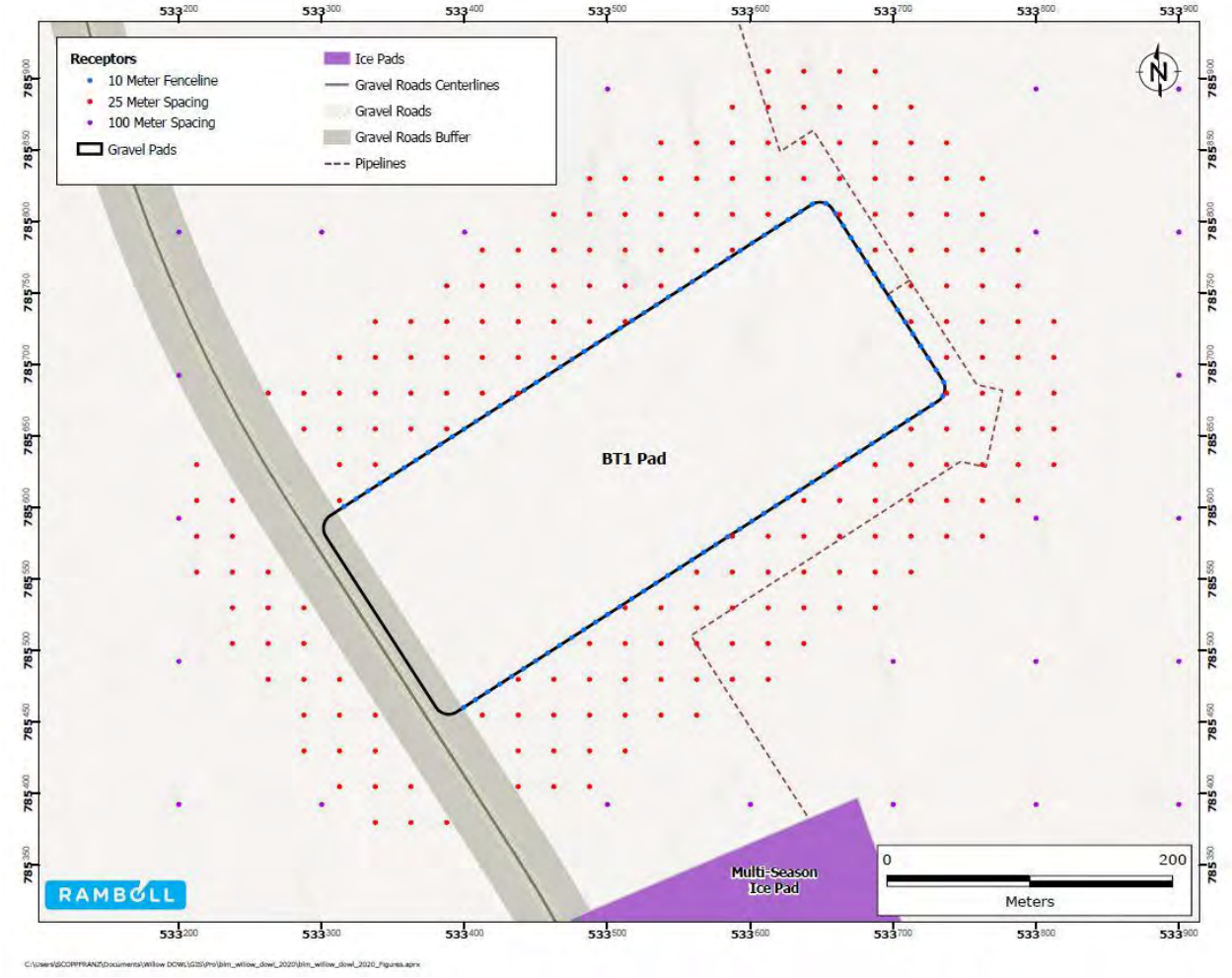


Figure E.1-13. BT1 Drilling Receptor Locations – Alternative B (Proponent's Project)

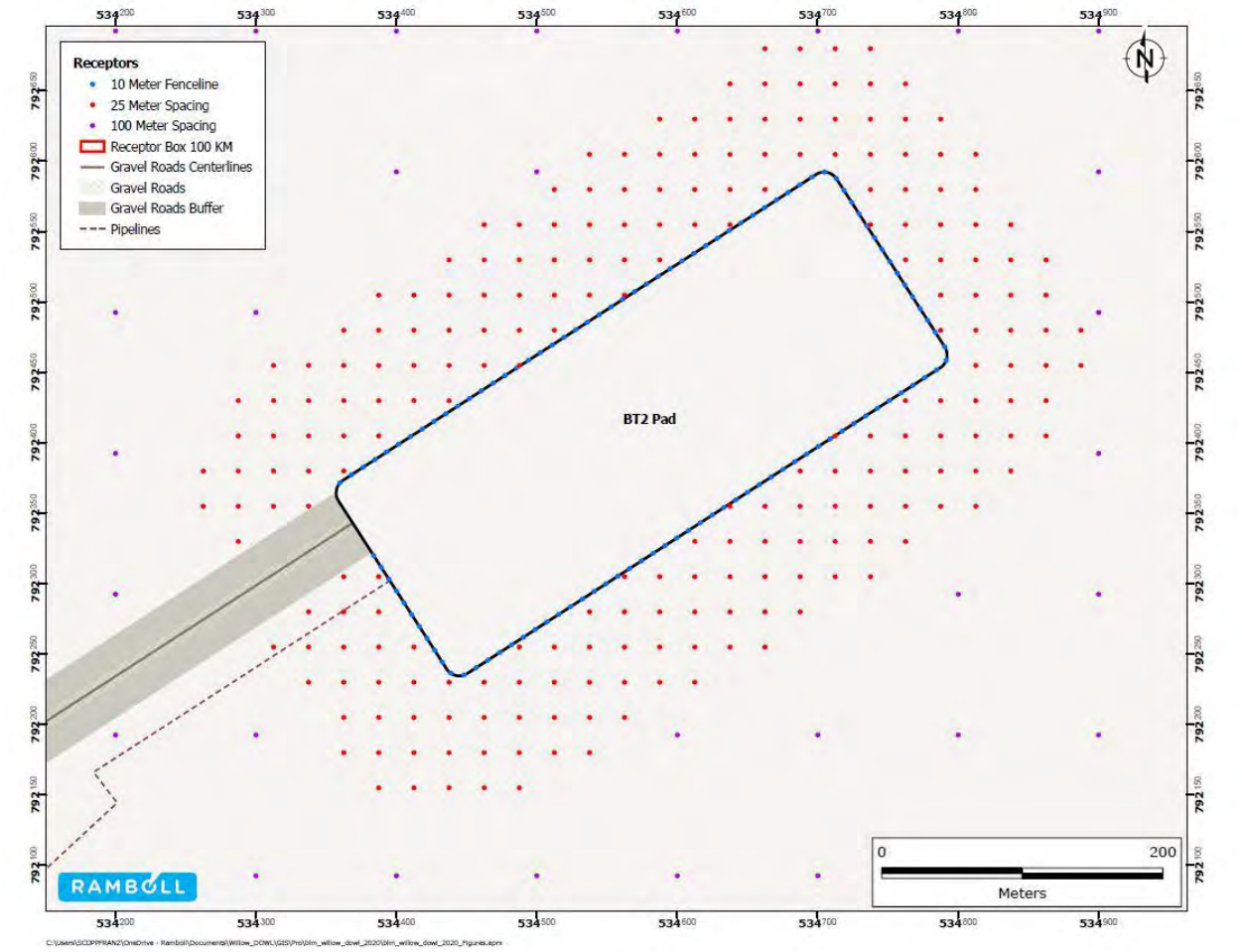


Figure E.1-14. BT2 Drilling Receptor Locations – Alternative B (Proponent's Project)

E.1.4 Development Drilling

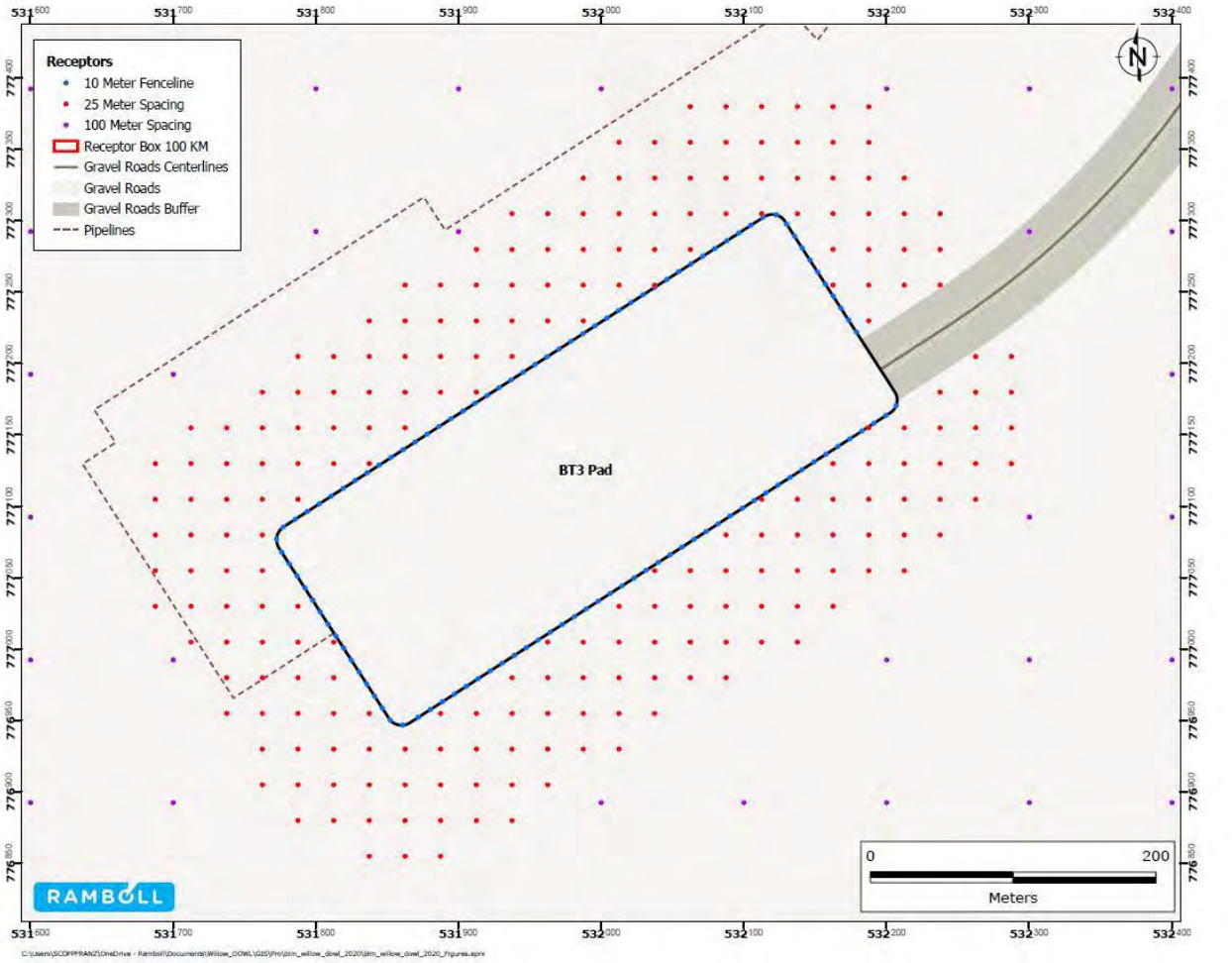


Figure E.1-15. BT3 Developmental Drilling Receptor Locations – Alternative B (Proponent's Project)

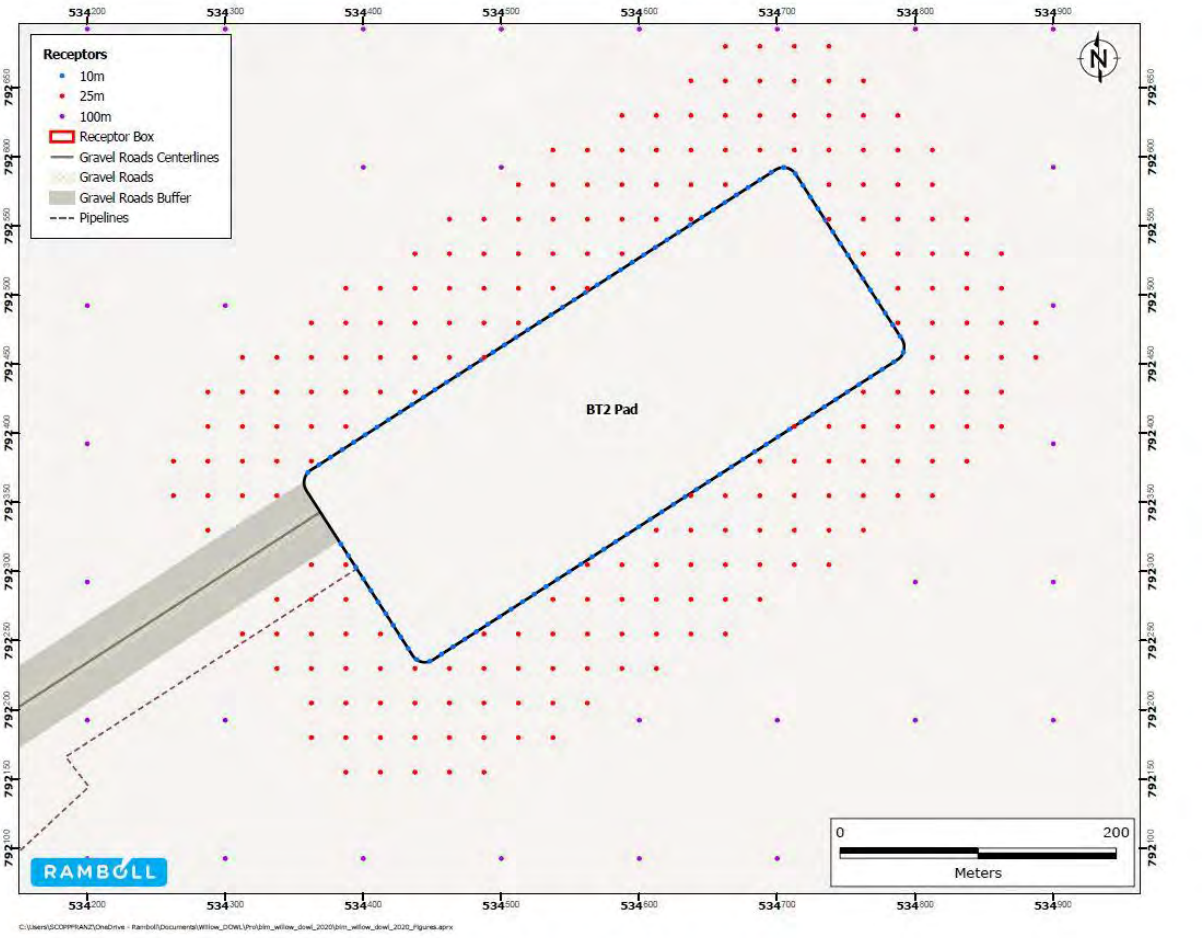


Figure E.1-16. BT2 Developmental Drilling Receptor Locations – Alternative B (Proponent's Project)

E.1.5 Routine Operations

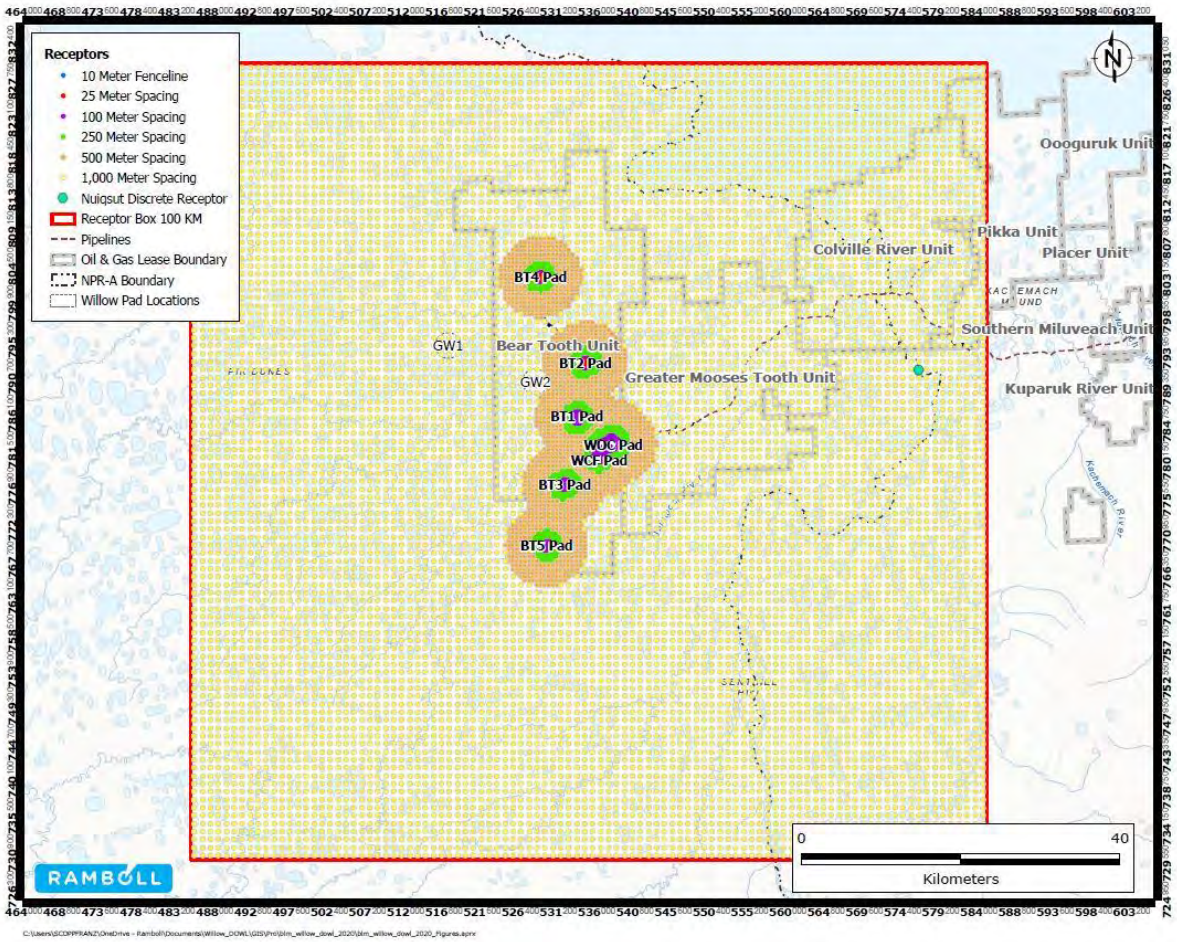


Figure E.1-17. Overview of Operations Receptor Locations – Alternative B (Proponent's Project)

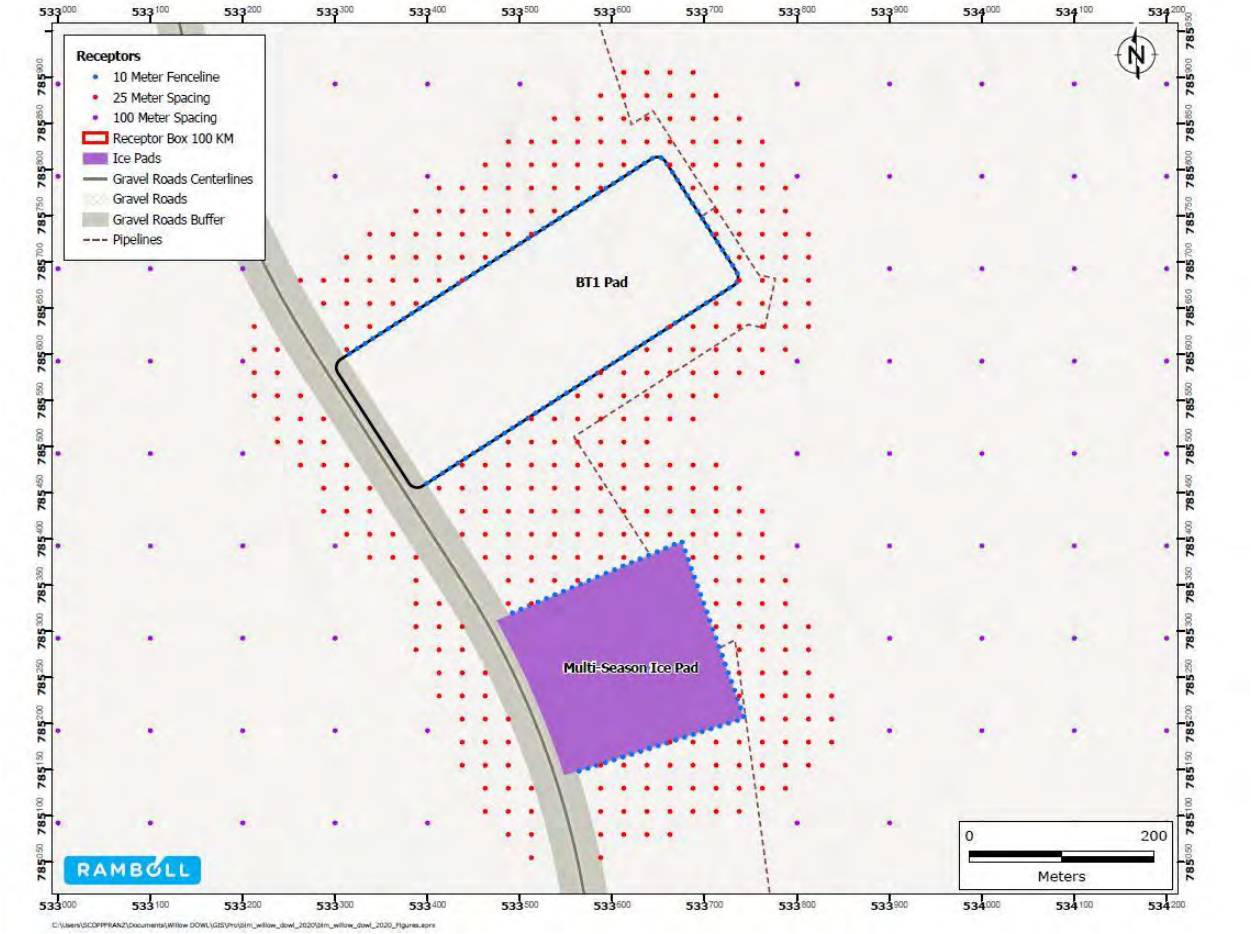


Figure E.1-18. BT1 Operations Receptor Locations – Alternative B (Proponent's Project)

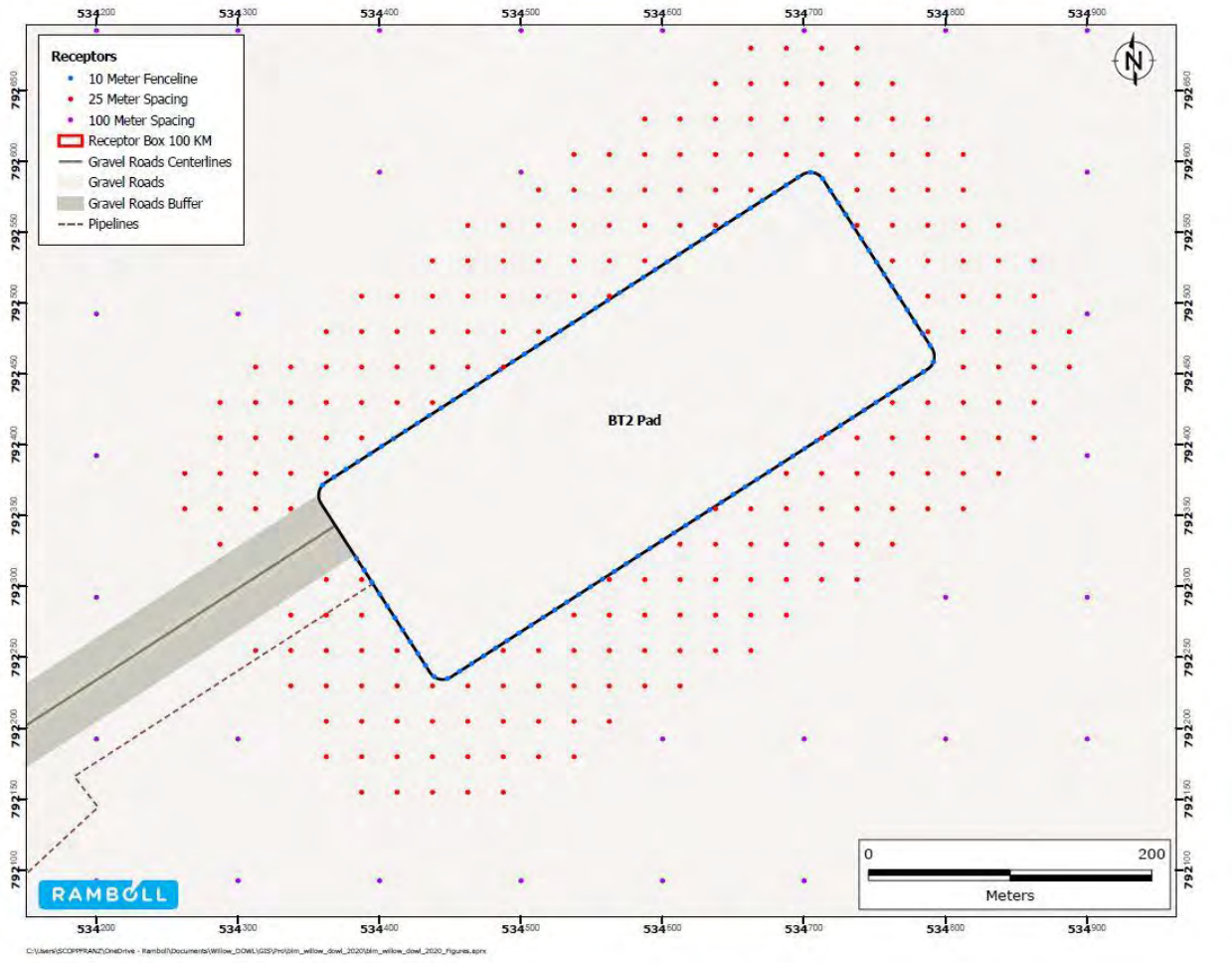


Figure E.1-19. BT2 Operations Receptor Locations – Alternative B (Proponent's Project)

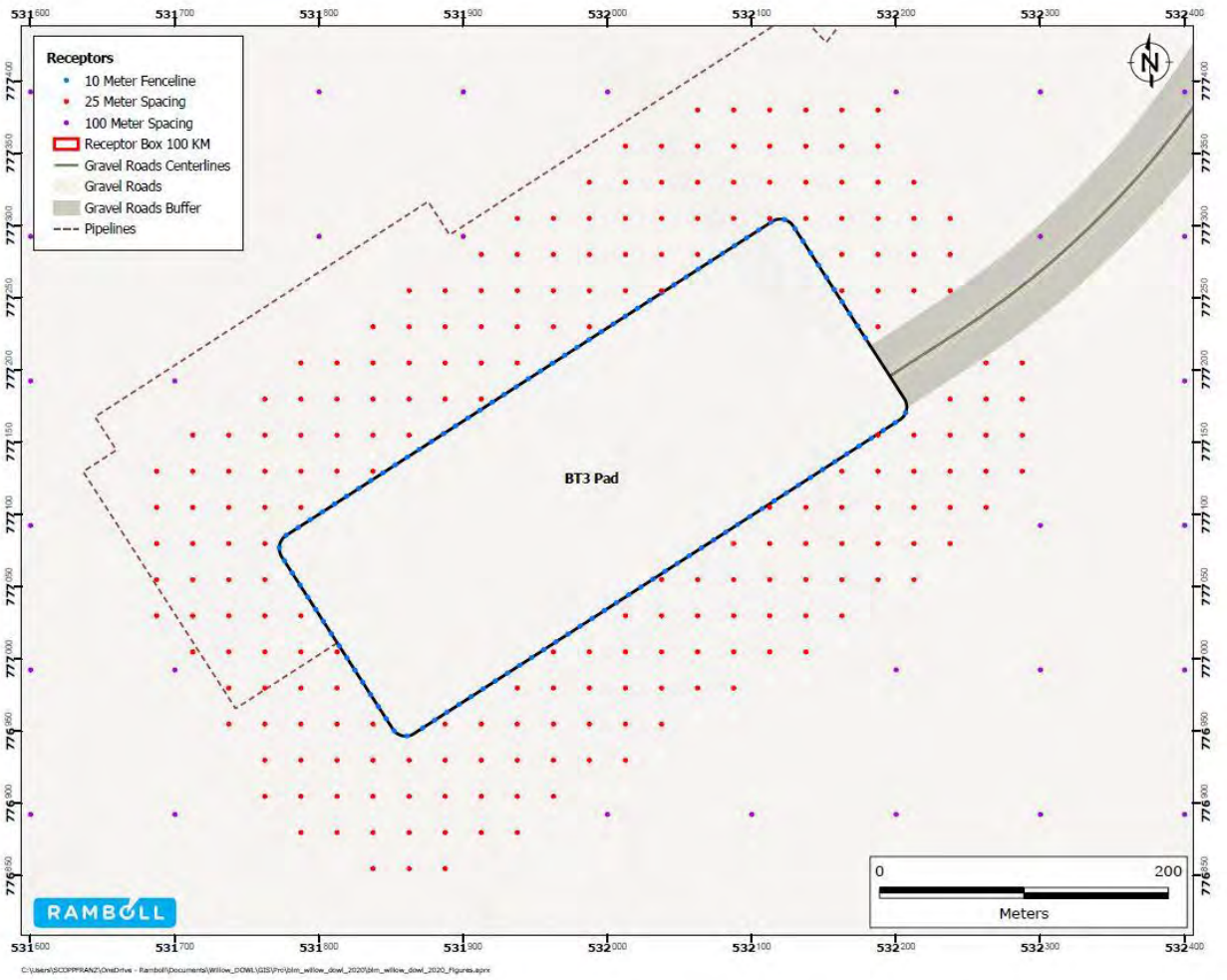


Figure E.1-20. BT3 Operations Receptor Locations – Alternative B (Proponent's Project)

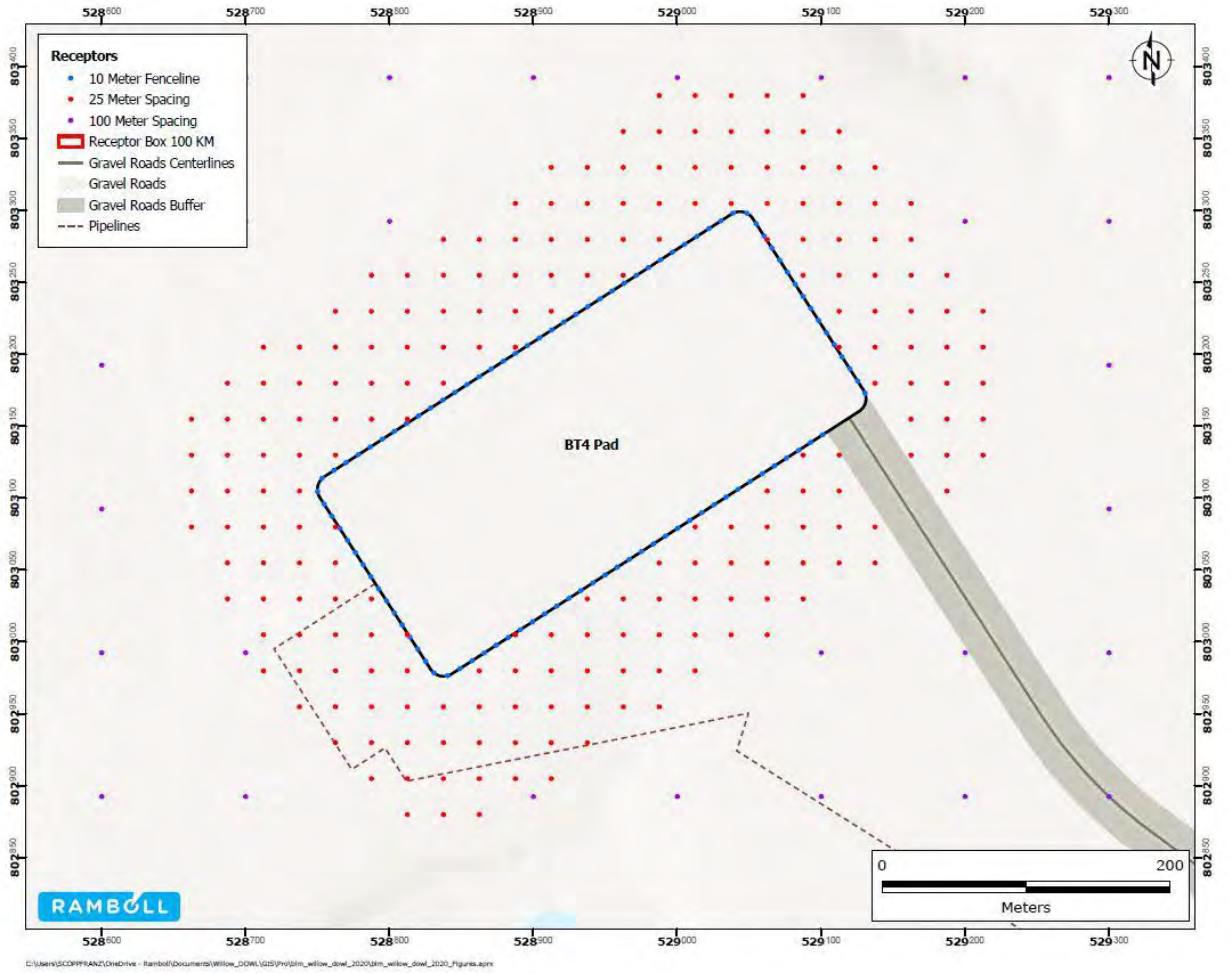


Figure E.1-21. BT4 Operations Receptor Locations – Alternative B (Proponent's Project)

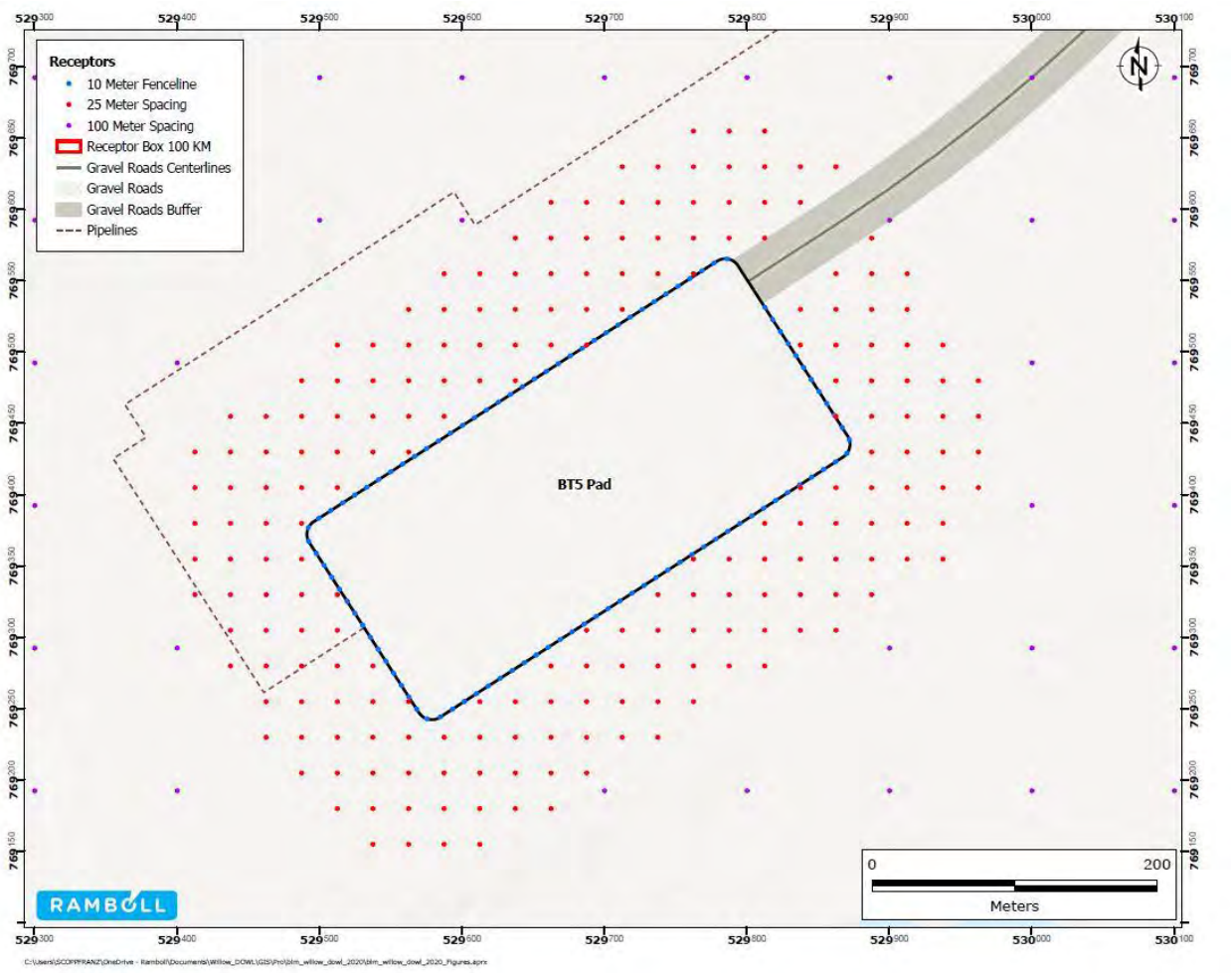


Figure E.1-22. BT5 Operations Receptor Locations – Alternative B (Proponent's Project)

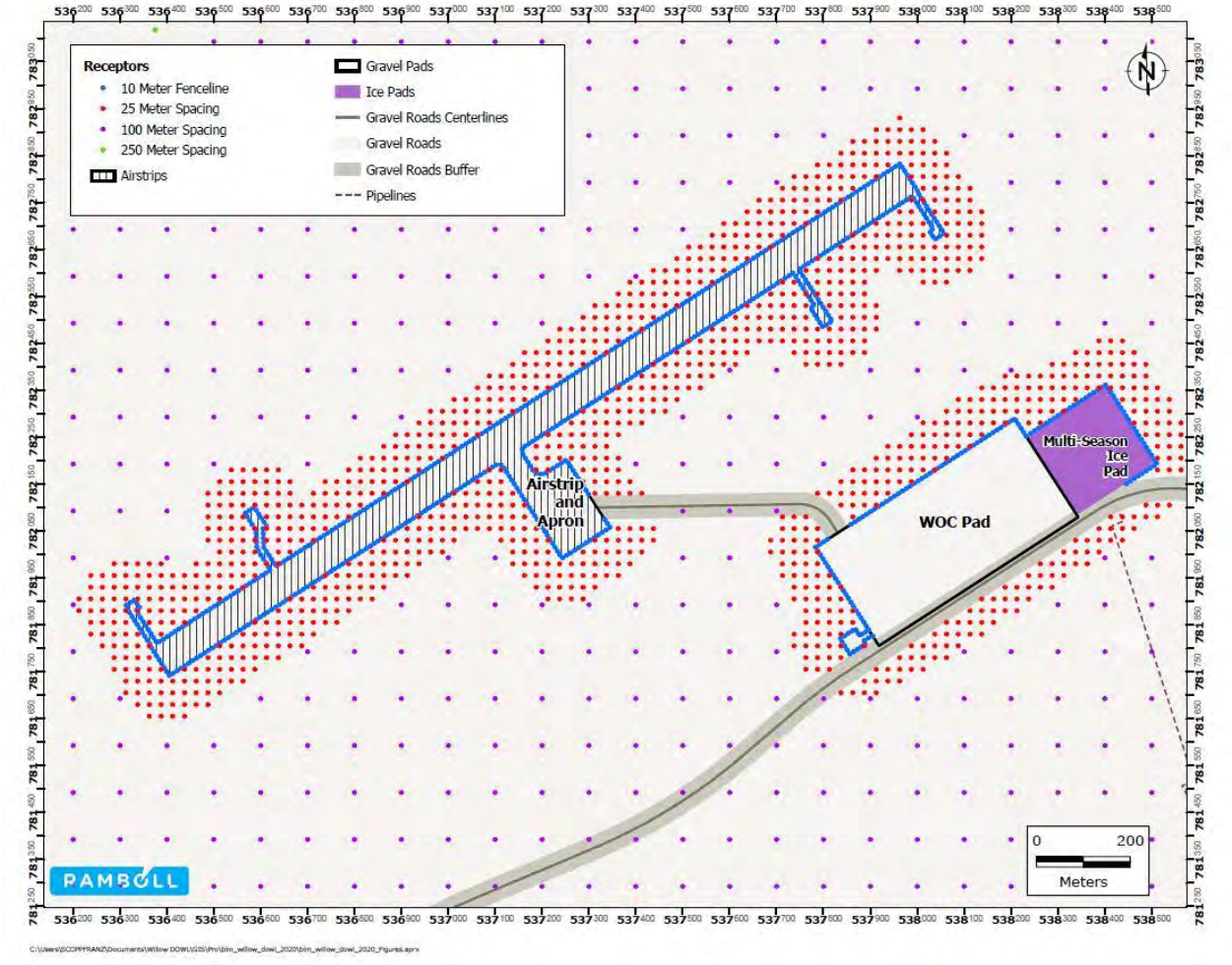


Figure E.1-23. Airstrip and WOC Pad Operations Receptor Locations – Alternative B (Proponent's Project)

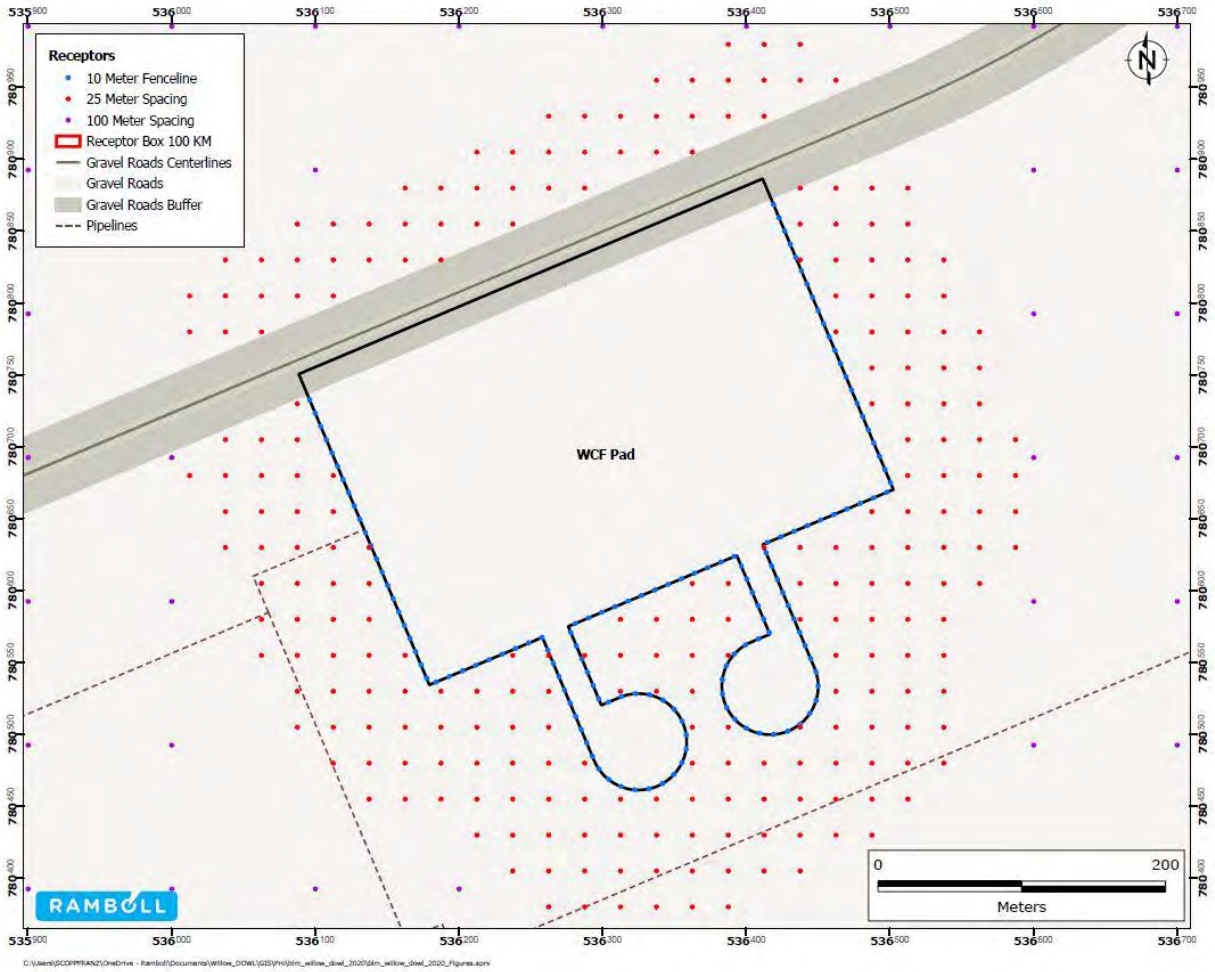


Figure E.1-24. WCF Operations Receptor Locations – Alternative B (Proponent's Project)

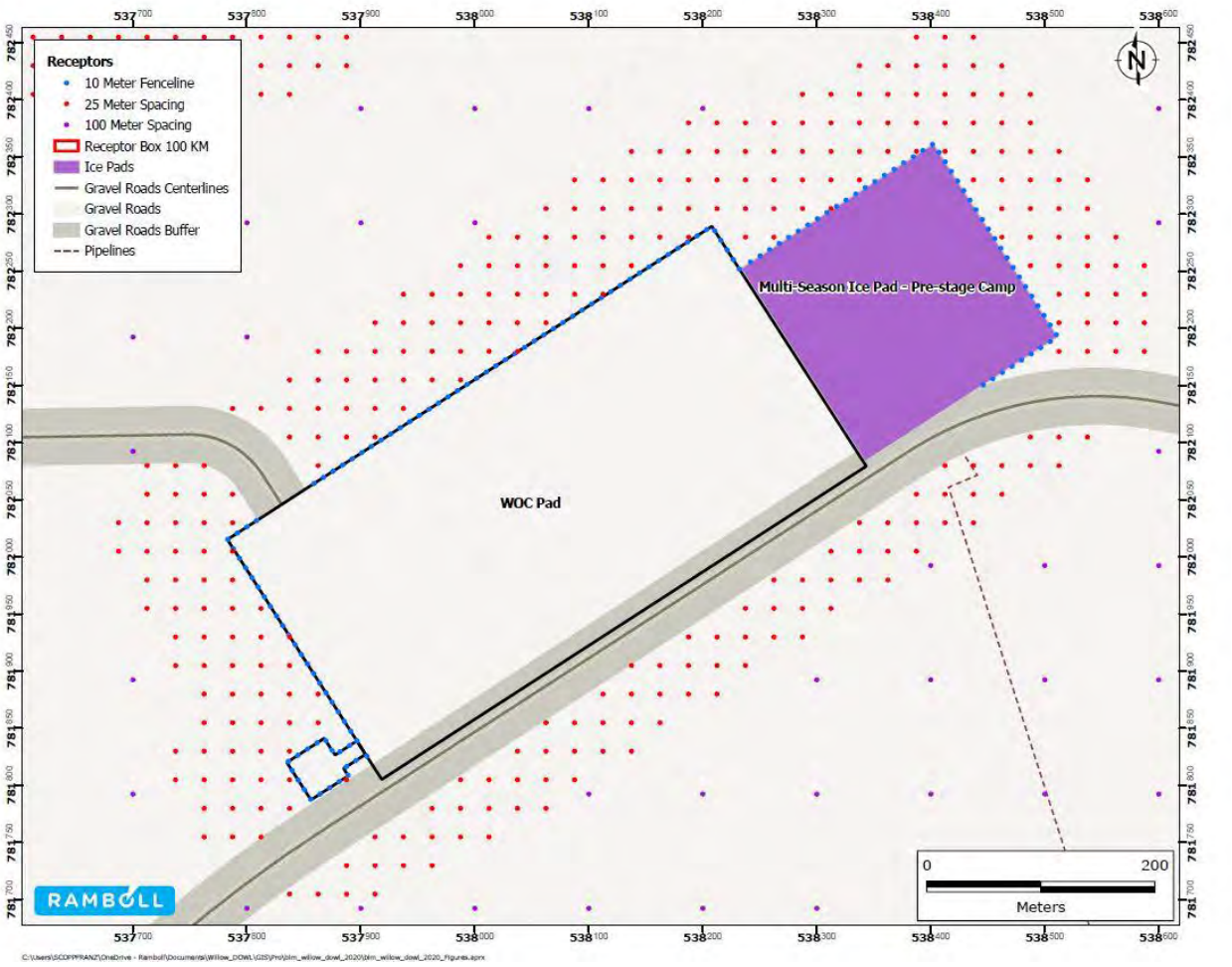


Figure E.1-25. WOC Operations Receptor Locations – Alternative B (Proponent's Project)

E.2 Alternative C

E.2.1 Construction

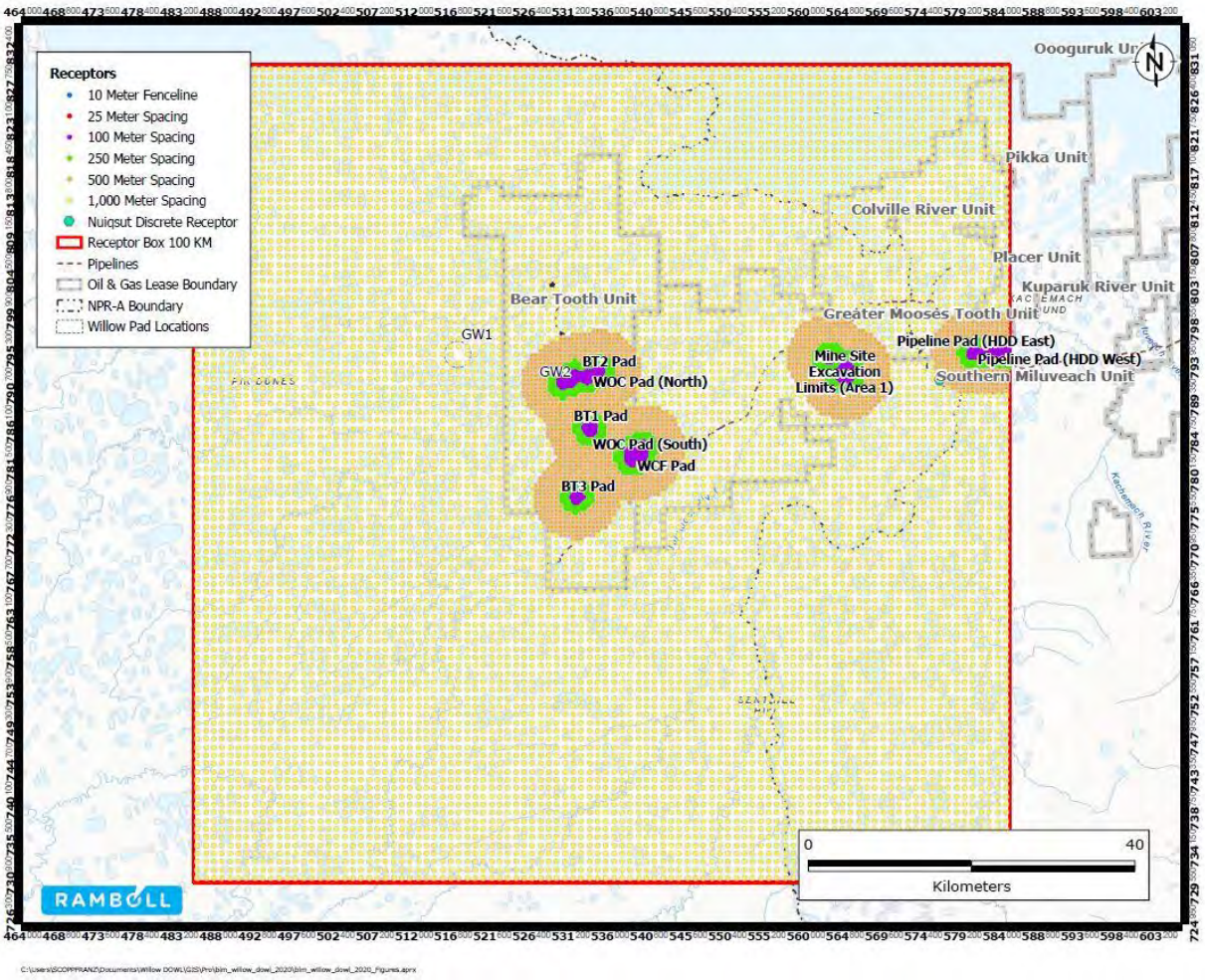


Figure E.2-1. Overview of Construction Receptor Locations – Alternative C (Disconnected Infield Roads)

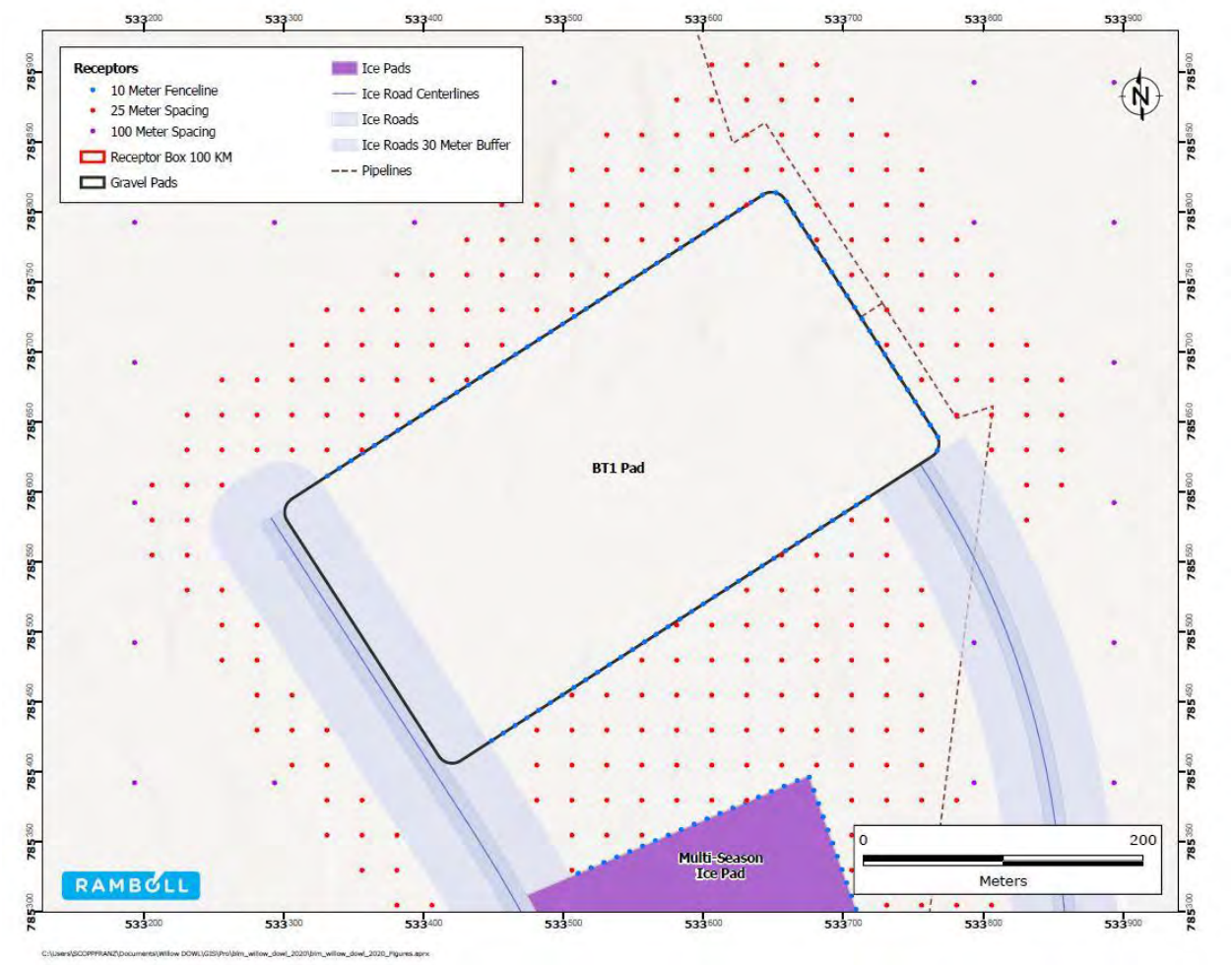


Figure E.2-2. BT1 Construction Receptor Locations – Alternative C (Disconnected Infield Roads)

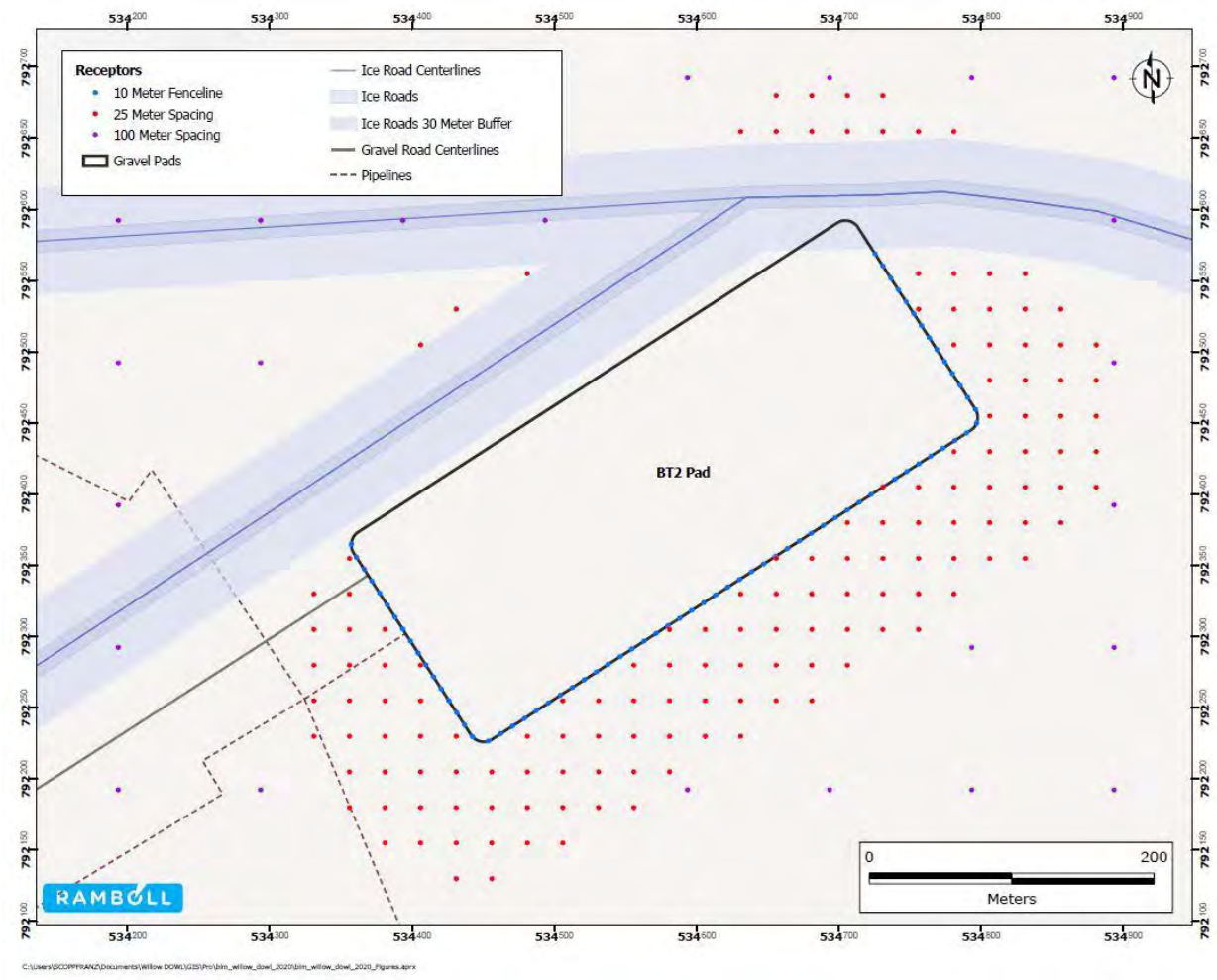


Figure E.2-3. BT2 Construction Receptor Locations – Alternative C (Disconnected Infield Roads)

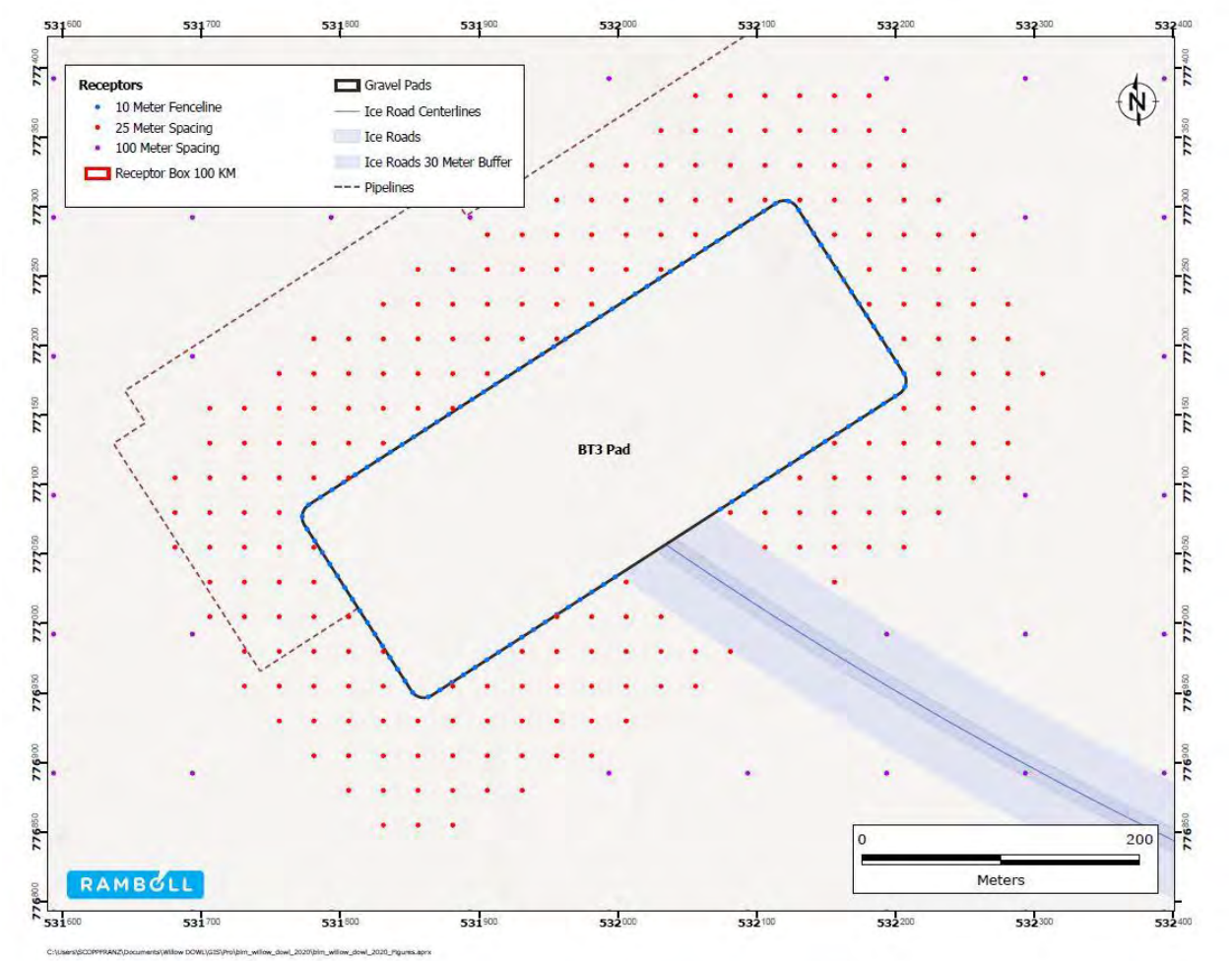


Figure E.2-4. BT3 Construction Receptor Locations – Alternative C (Disconnected Infield Roads)

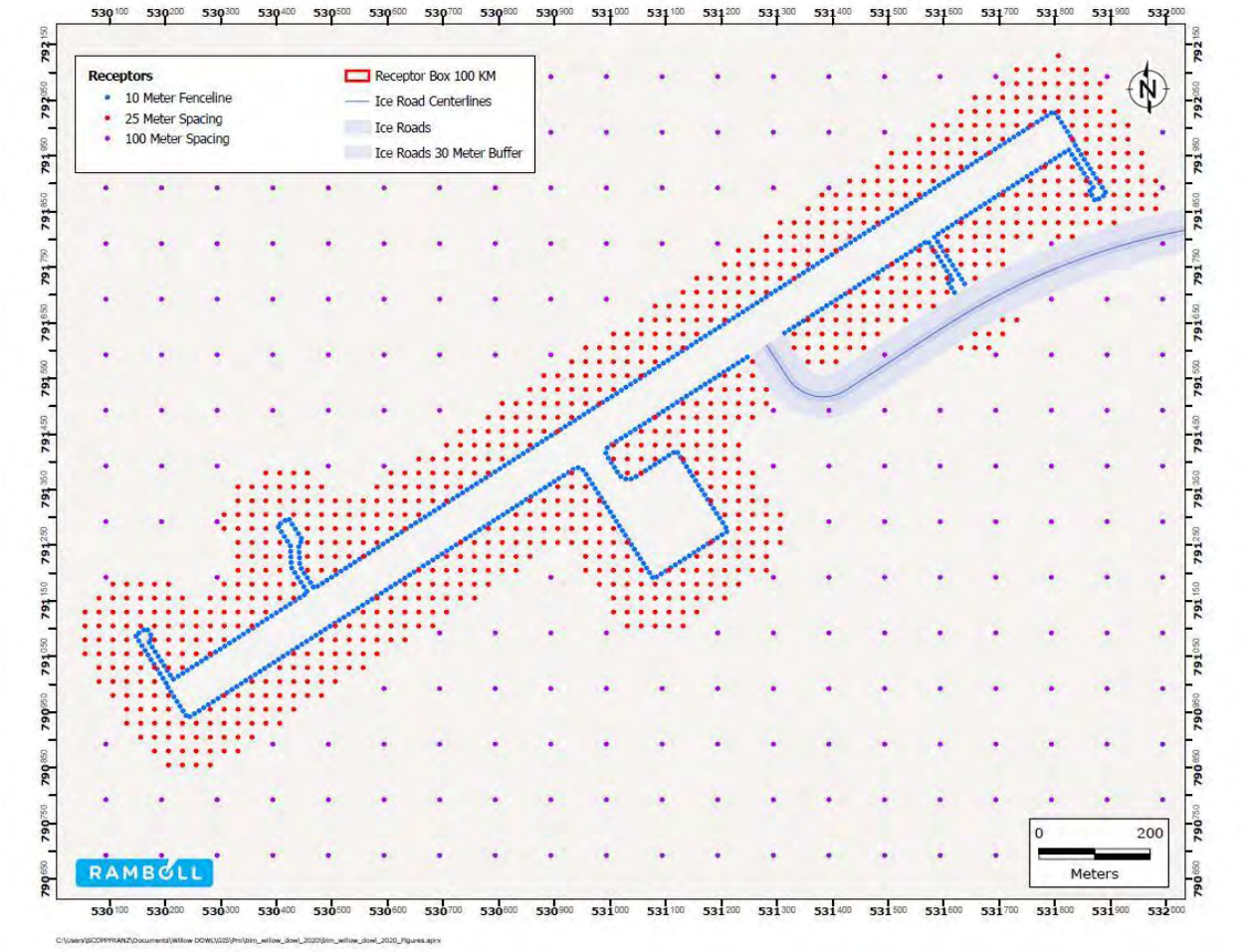


Figure E.2-5. North Airstrip and WOC Pad Construction Receptor Locations – Alternative C (Disconnected Infield Roads)

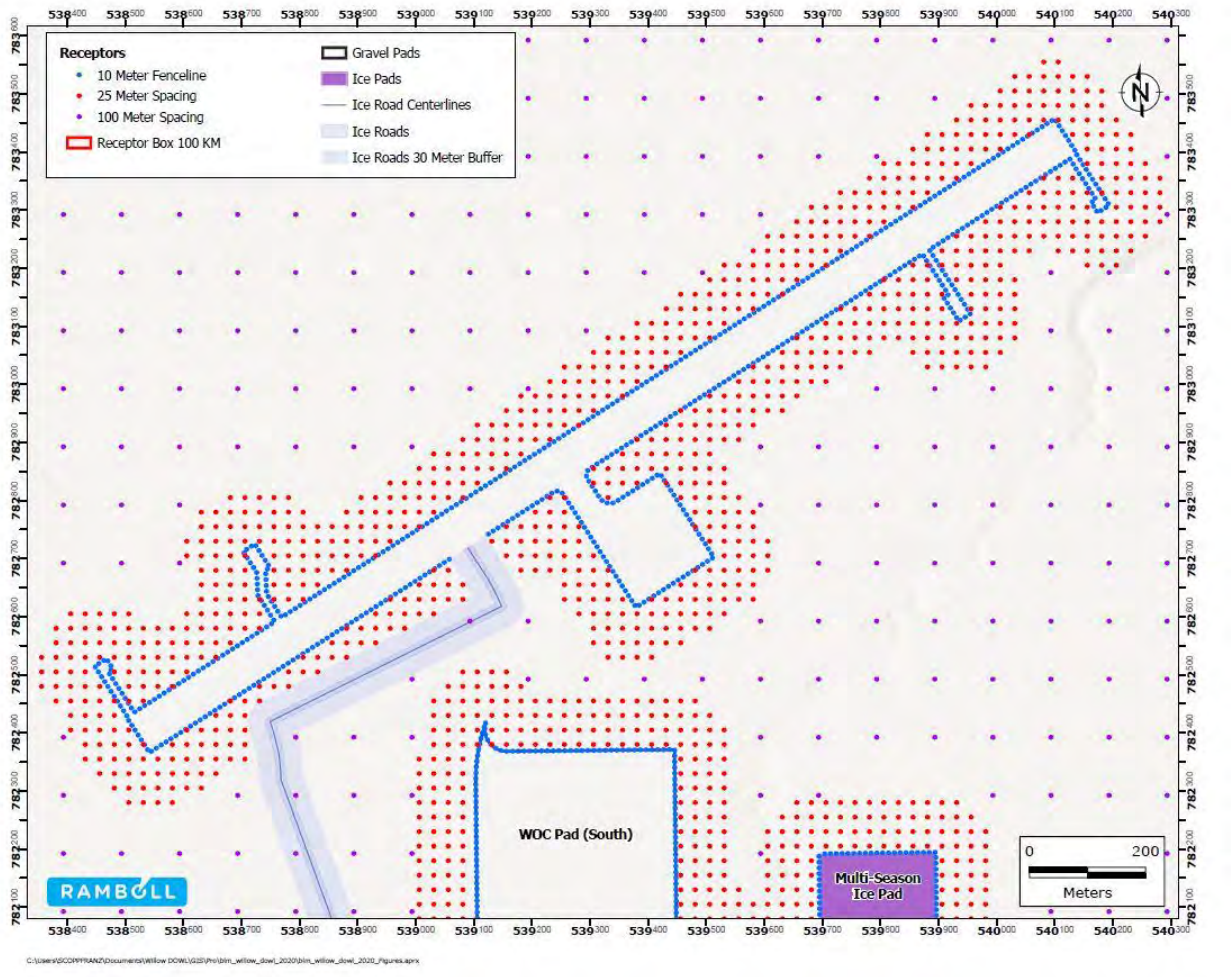


Figure E.2-6. South Airstrip and WOC Pad Construction Receptor Locations – Alternative C (Disconnected Infield Roads)

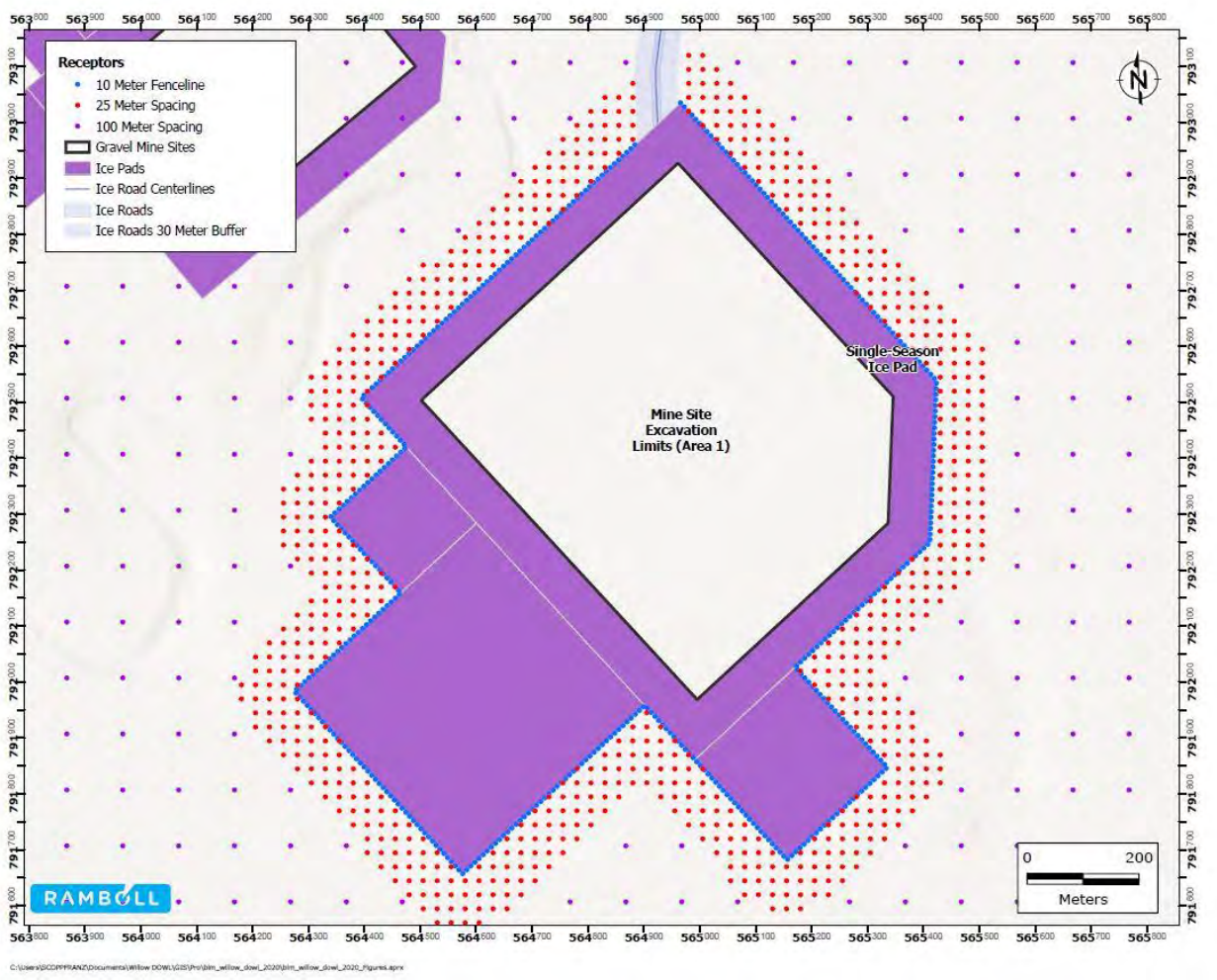


Figure E.2-7. Gravel Mine Site Construction Receptor Locations – Alternative C (Disconnected Infield Roads)

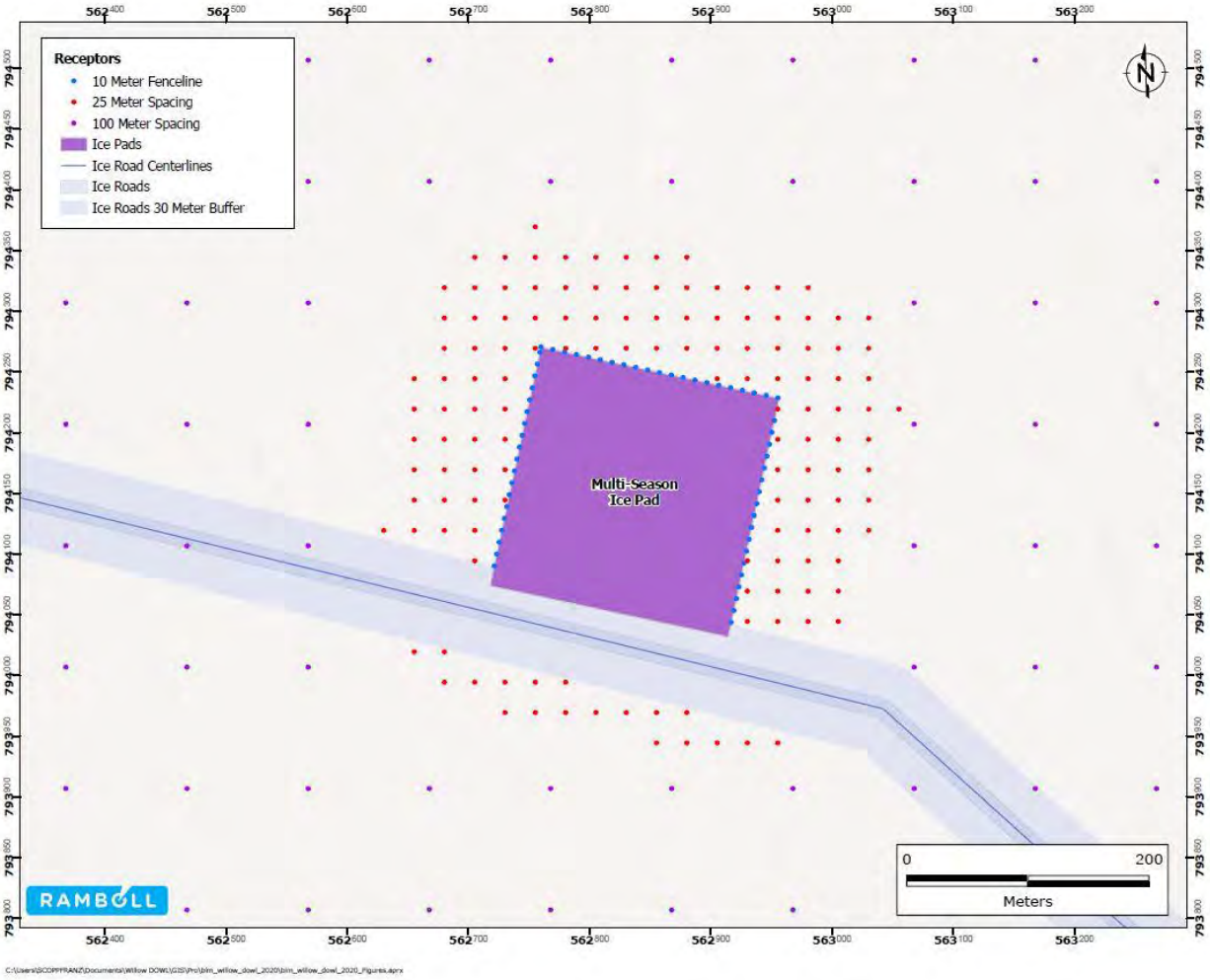


Figure E.2-8. Mine Camp Construction Receptor Locations – Alternative C (Disconnected Infield Roads)

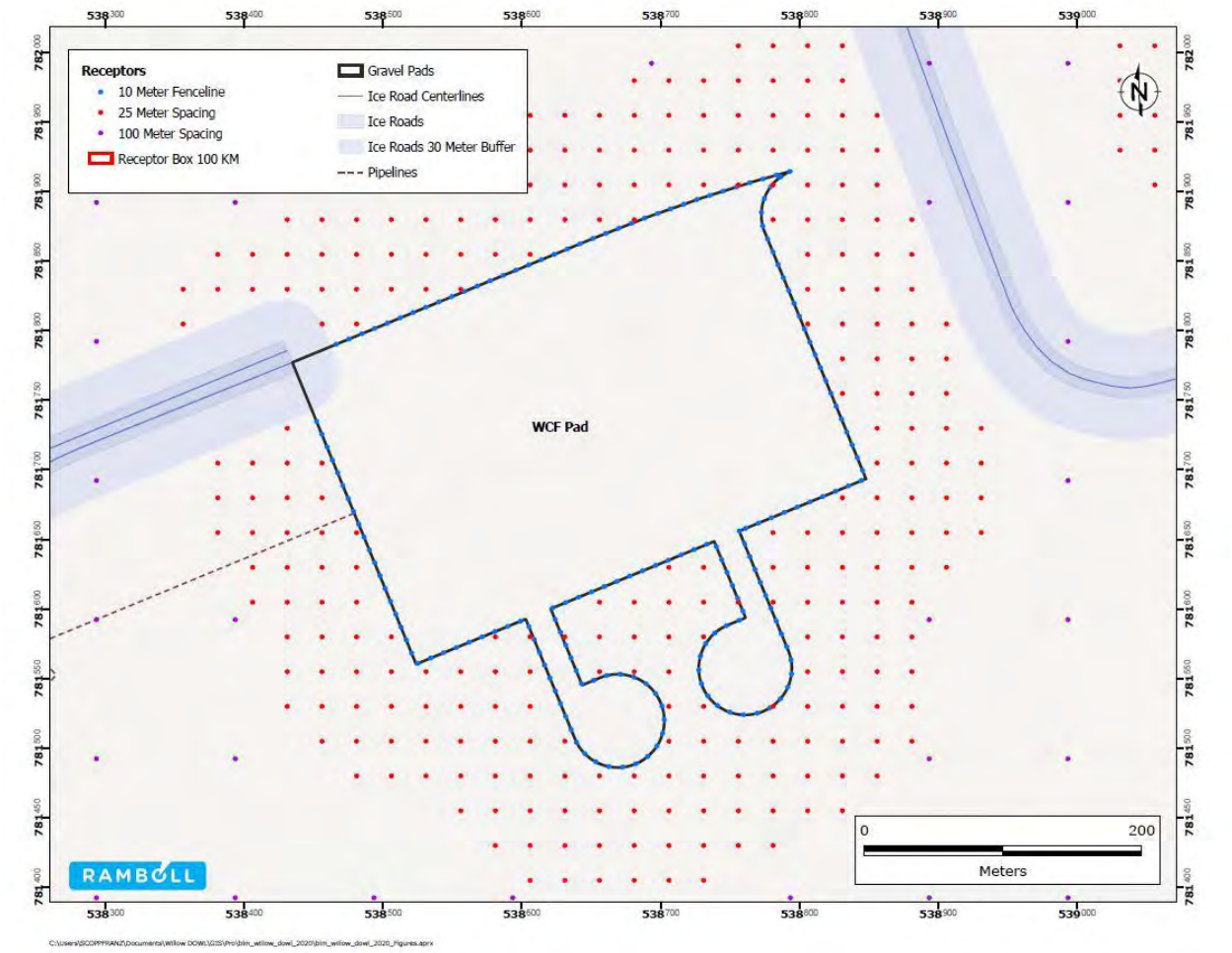


Figure E.2-9. WCF Construction Receptor Locations – Alternative C (Disconnected Infield Roads)

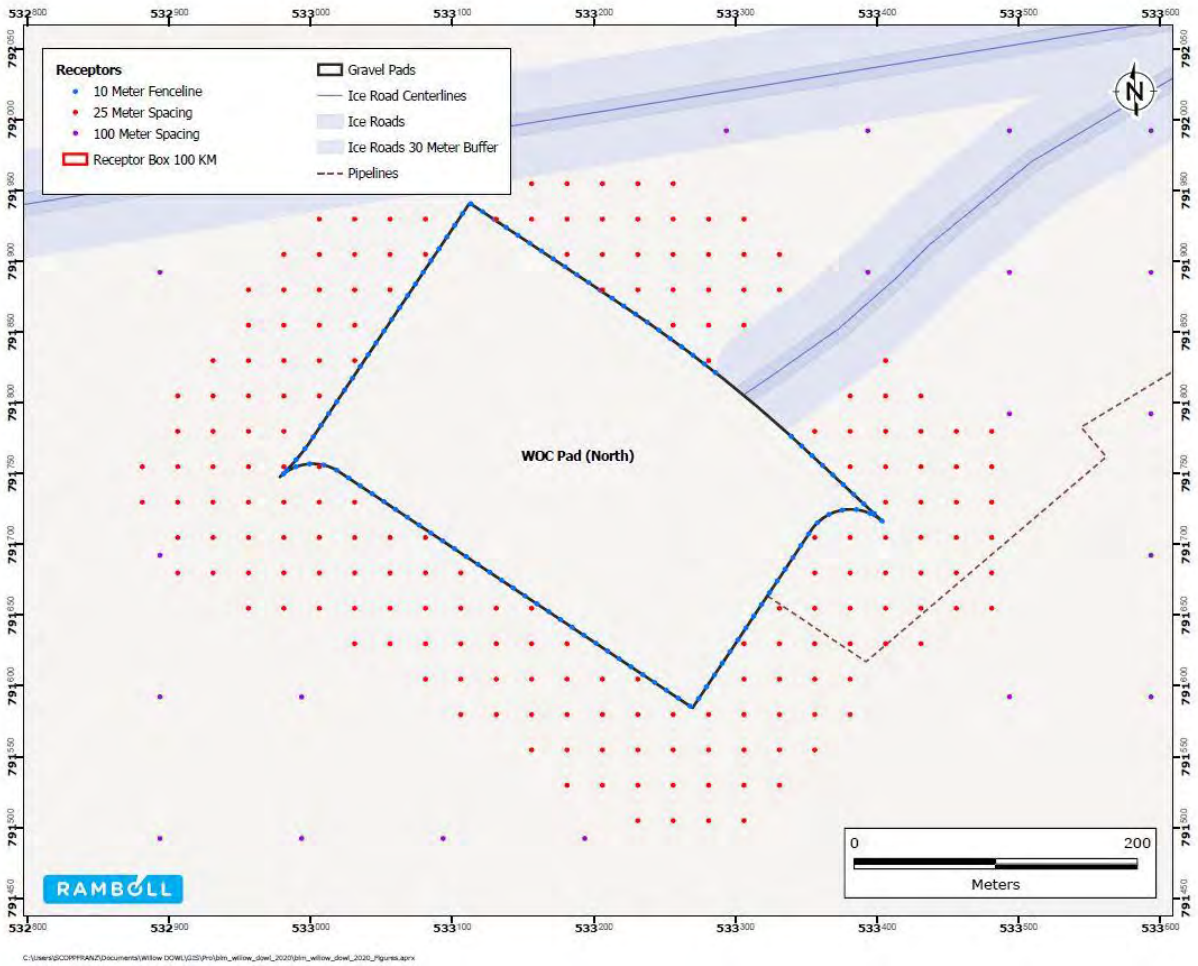


Figure E.2-10. WOC North Construction Receptor Locations – Alternative C (Disconnected Infield Roads)

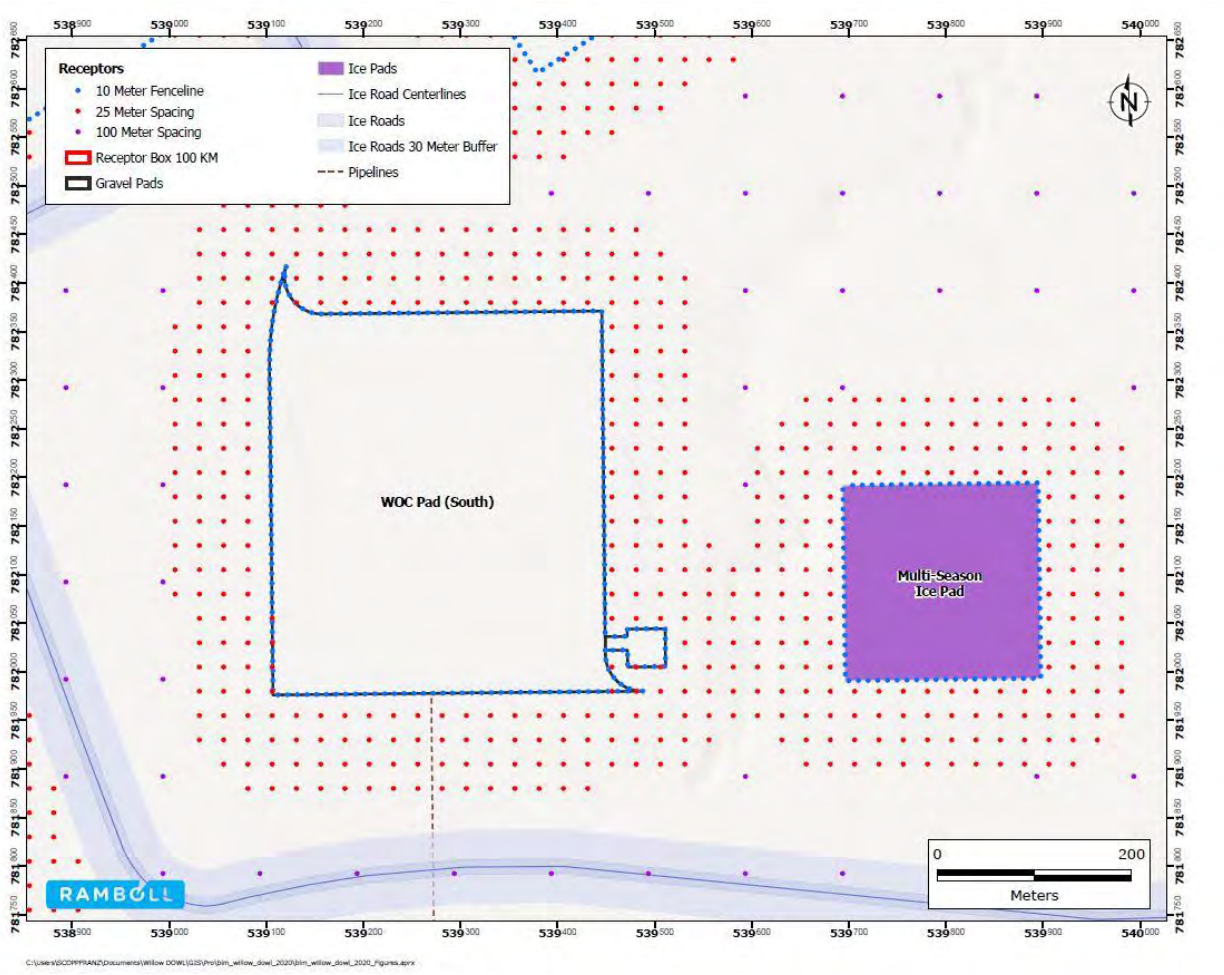


Figure E.2-11. WOC South Construction Receptor Locations – Alternative C (Disconnected Infield Roads)

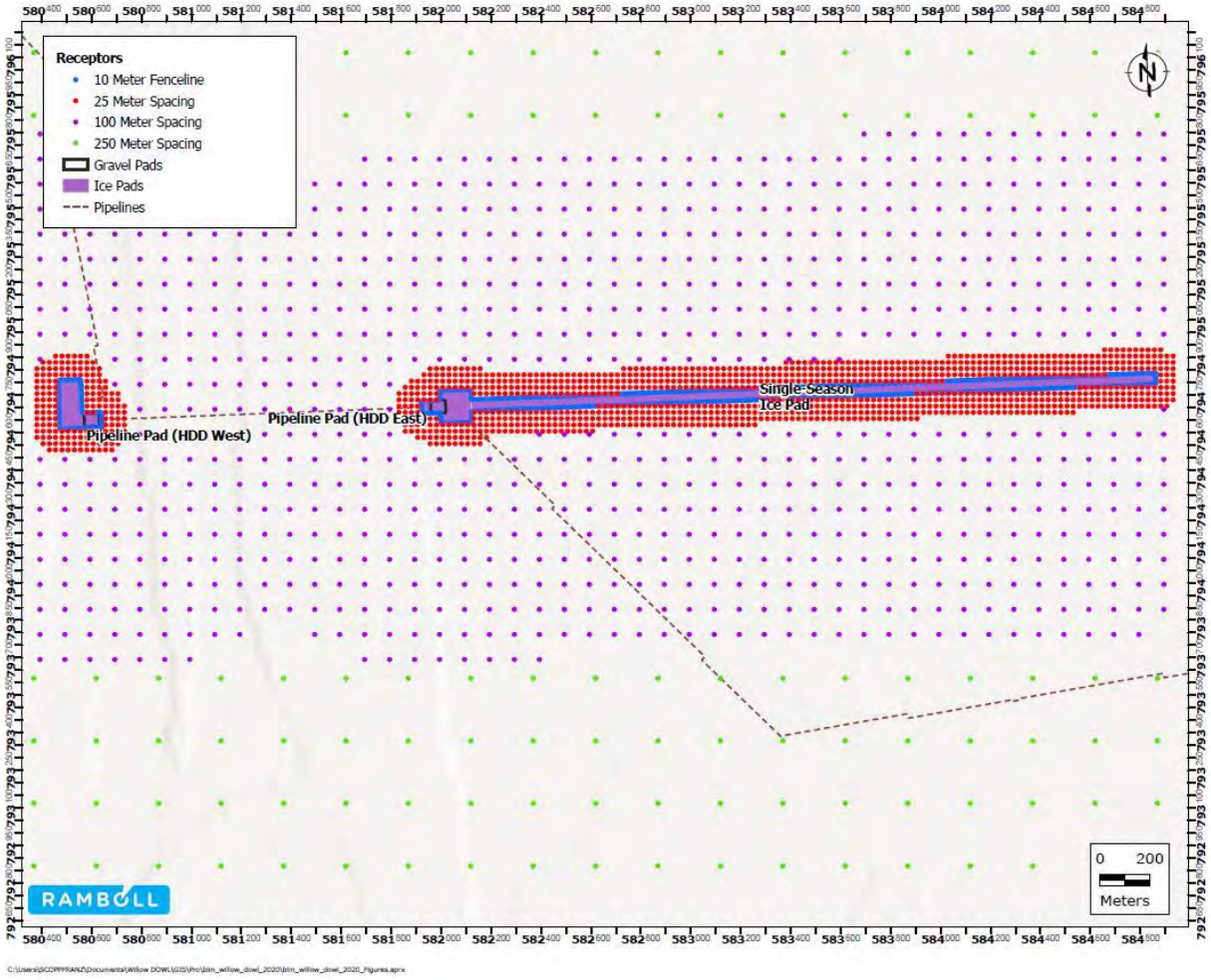


Figure E.2-12. HDD Construction Receptor Locations – Alternative C (Disconnected Infield Roads)

E.2.2 BT1 Pre-Drill

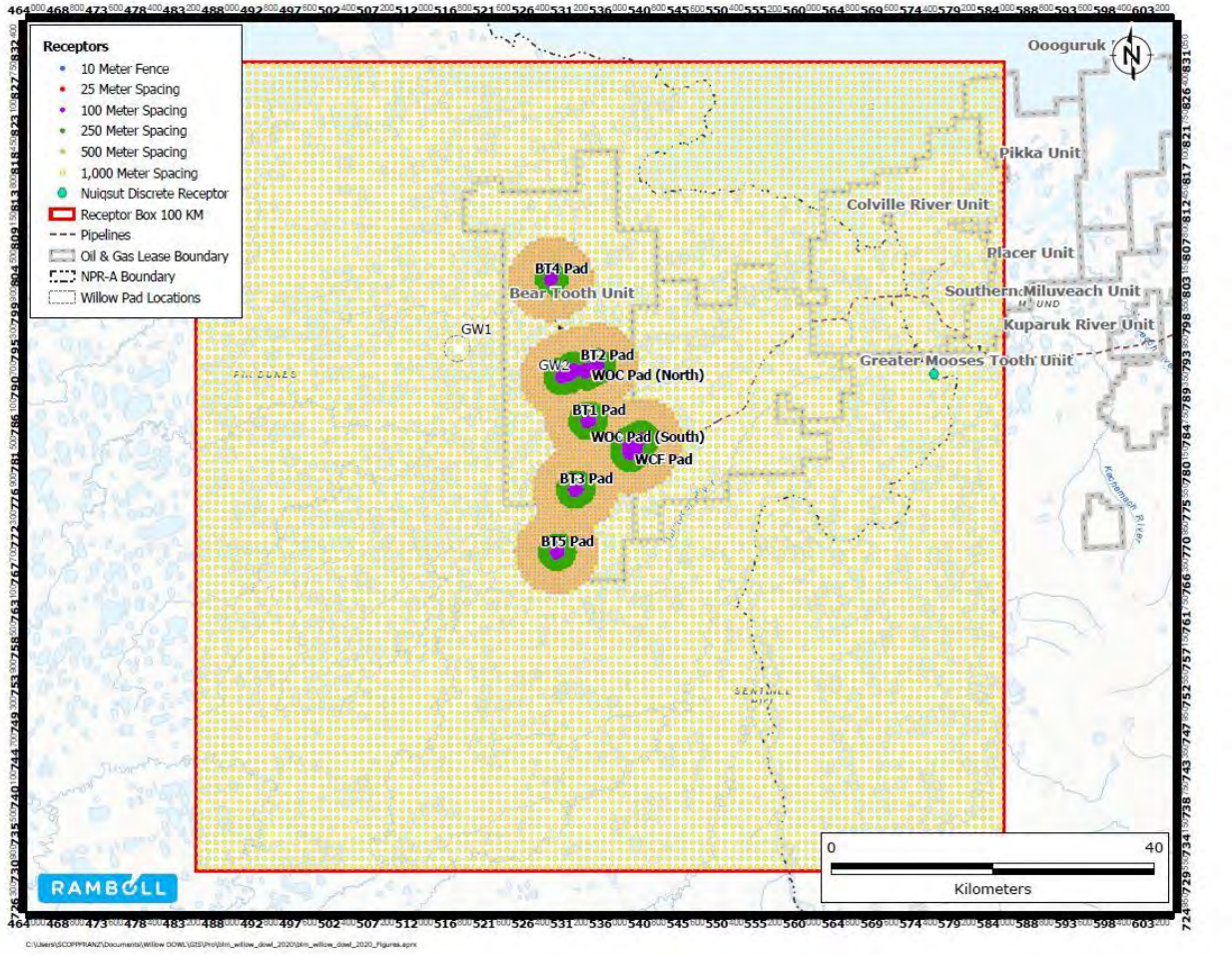


Figure E.2-13. Overview of Drilling Receptor Locations – Alternative C (Disconnected Infield Roads)

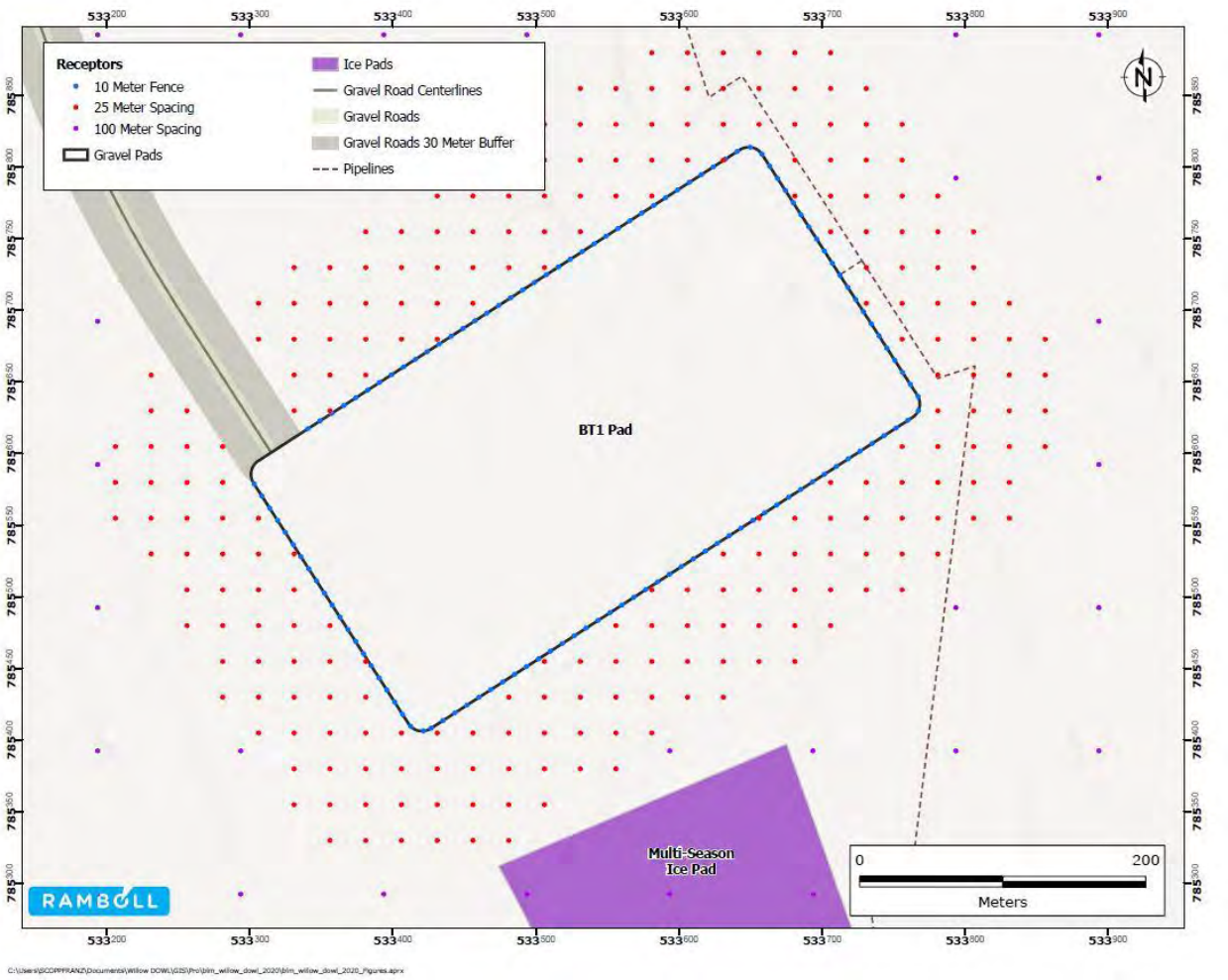


Figure E.2-14. BT1 Drilling Receptor Locations – Alternative C (Disconnected Infield Roads)

E.2.3 BT1 and BT2 Pre-Drill

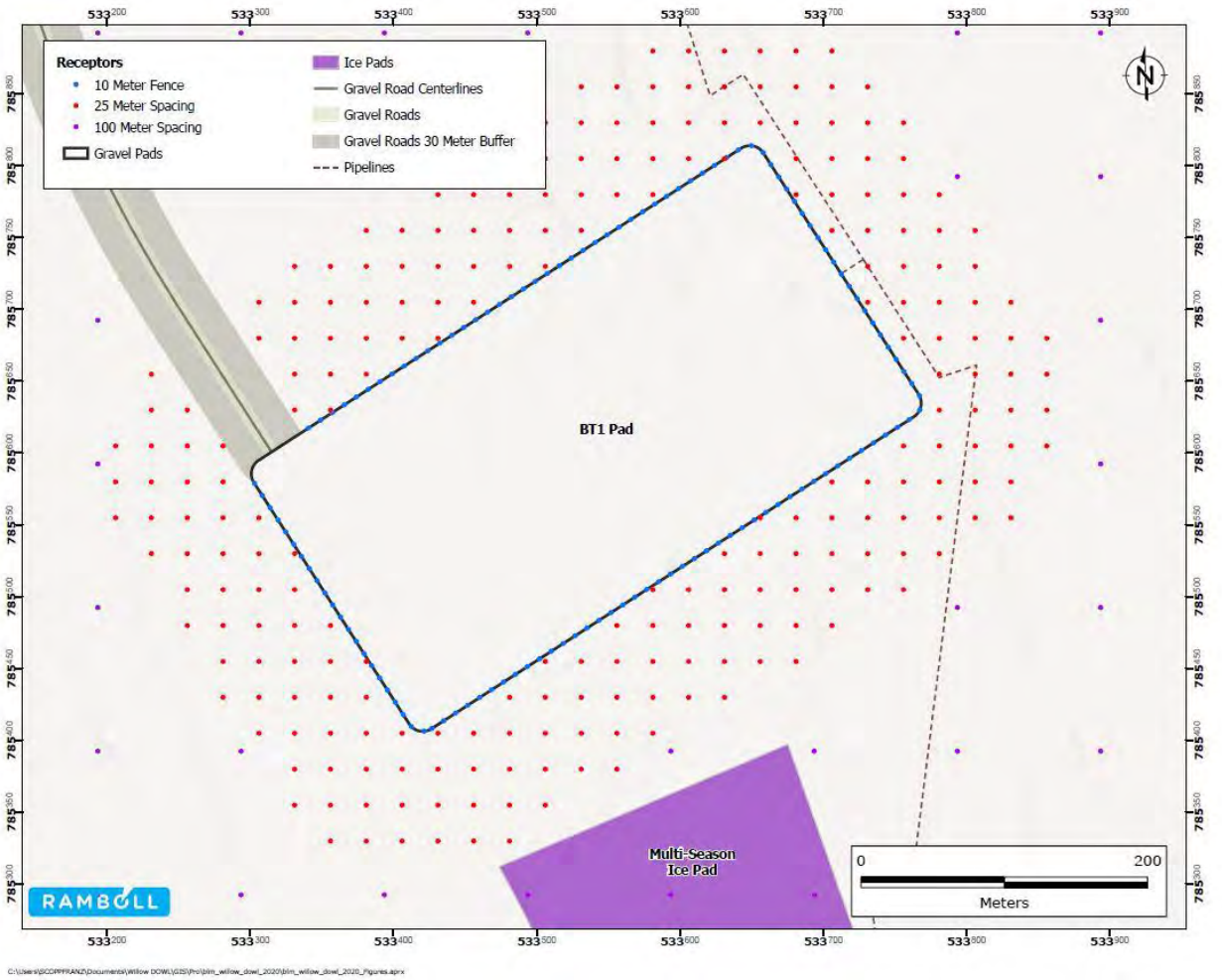


Figure E.2-15. BT1 Drilling Receptor Locations – Alternative C (Disconnected Infield Roads)

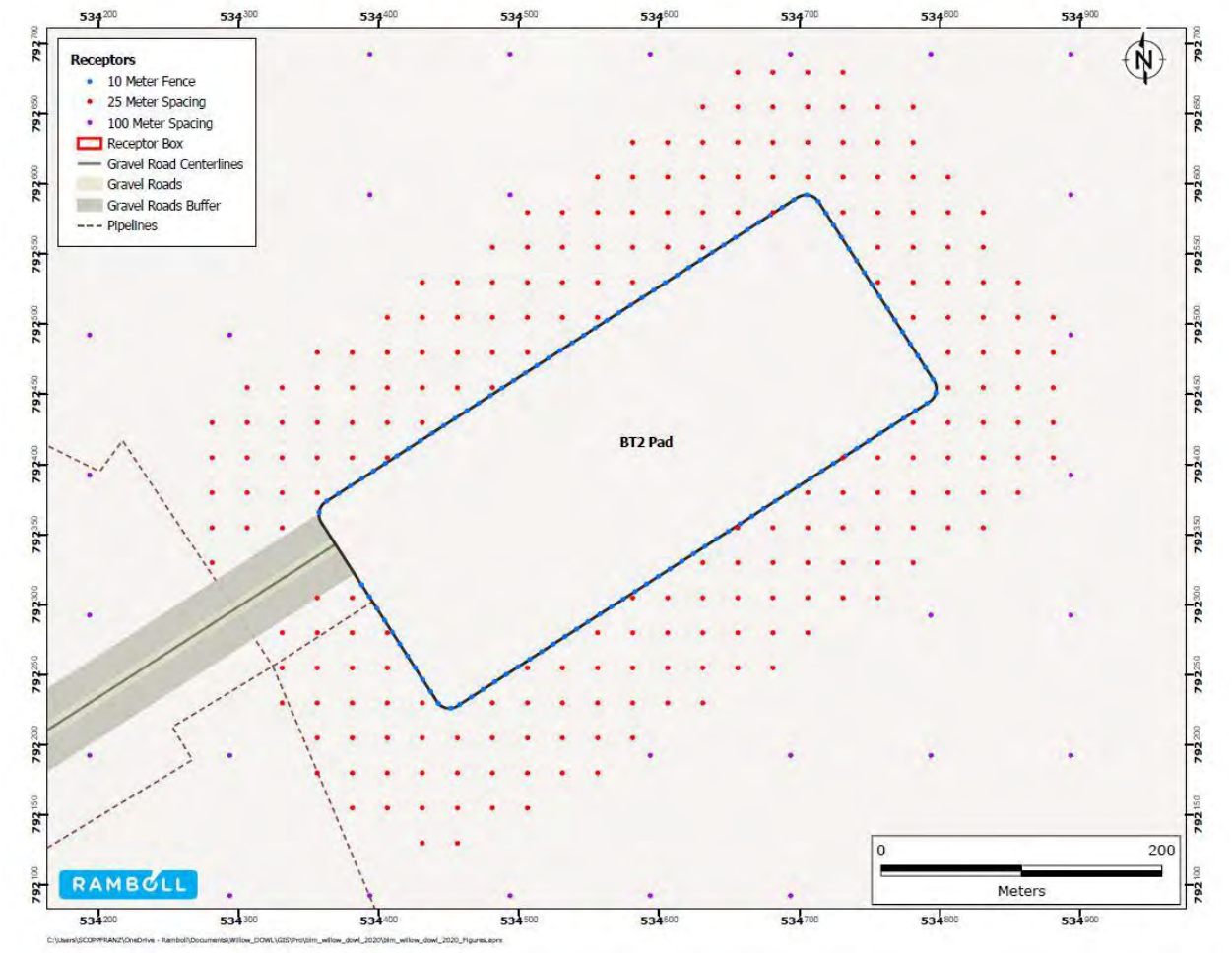


Figure E.2-16. BT2 Drilling Receptor Locations – Alternative C (Disconnected Infield Roads)

E.2.4 Development Drilling

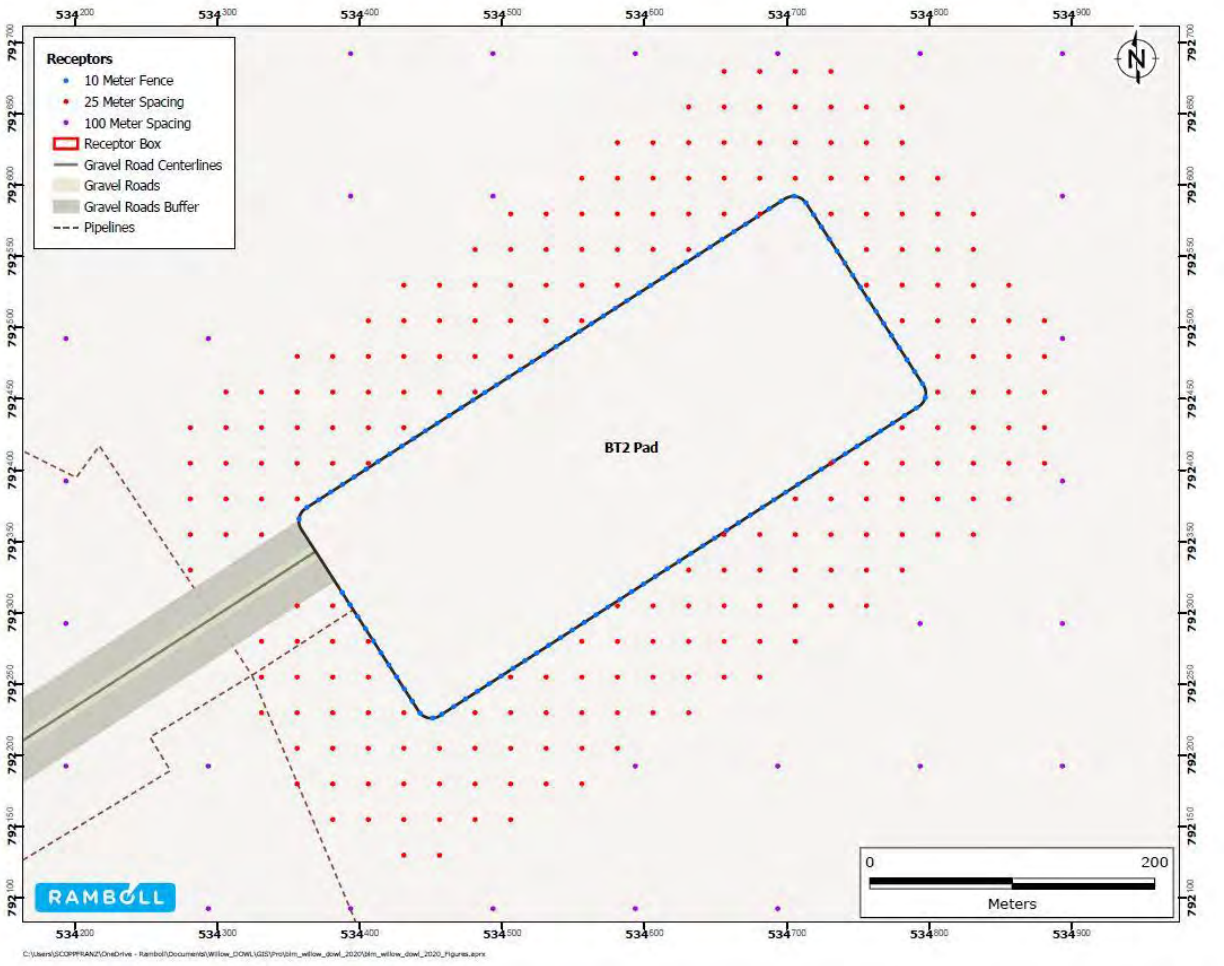


Figure E.2-17. BT2 Developmental Drilling Receptor Locations– Alternative C (Disconnected Infield Roads)

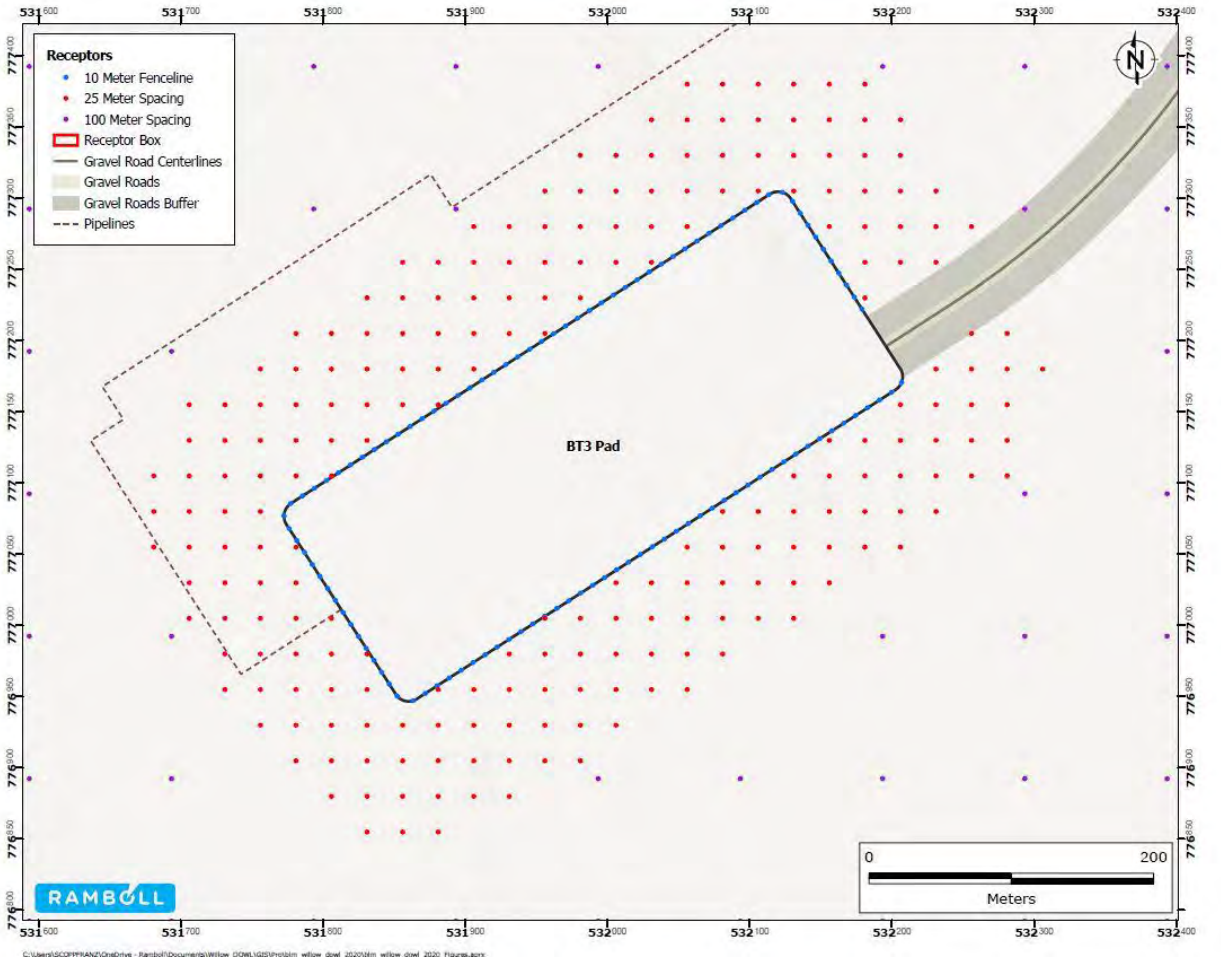


Figure E.2-18. BT3 Developmental Drilling Receptor Locations– Alternative C (Disconnected Infield Roads)

E.2.5 Routine Operations

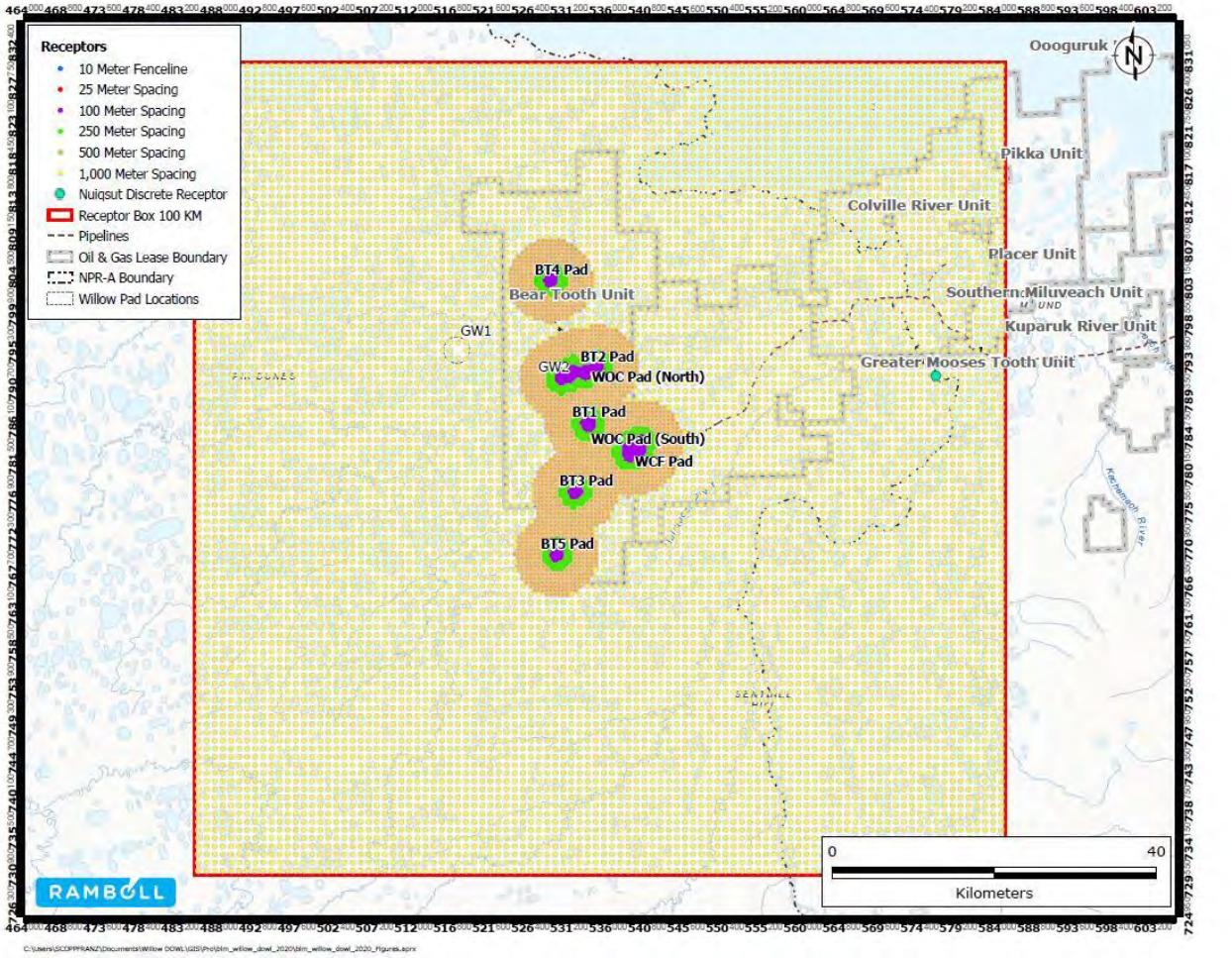


Figure E.2-19. Overview Operations Receptor Locations – Alternative C (Disconnected Infield Roads)

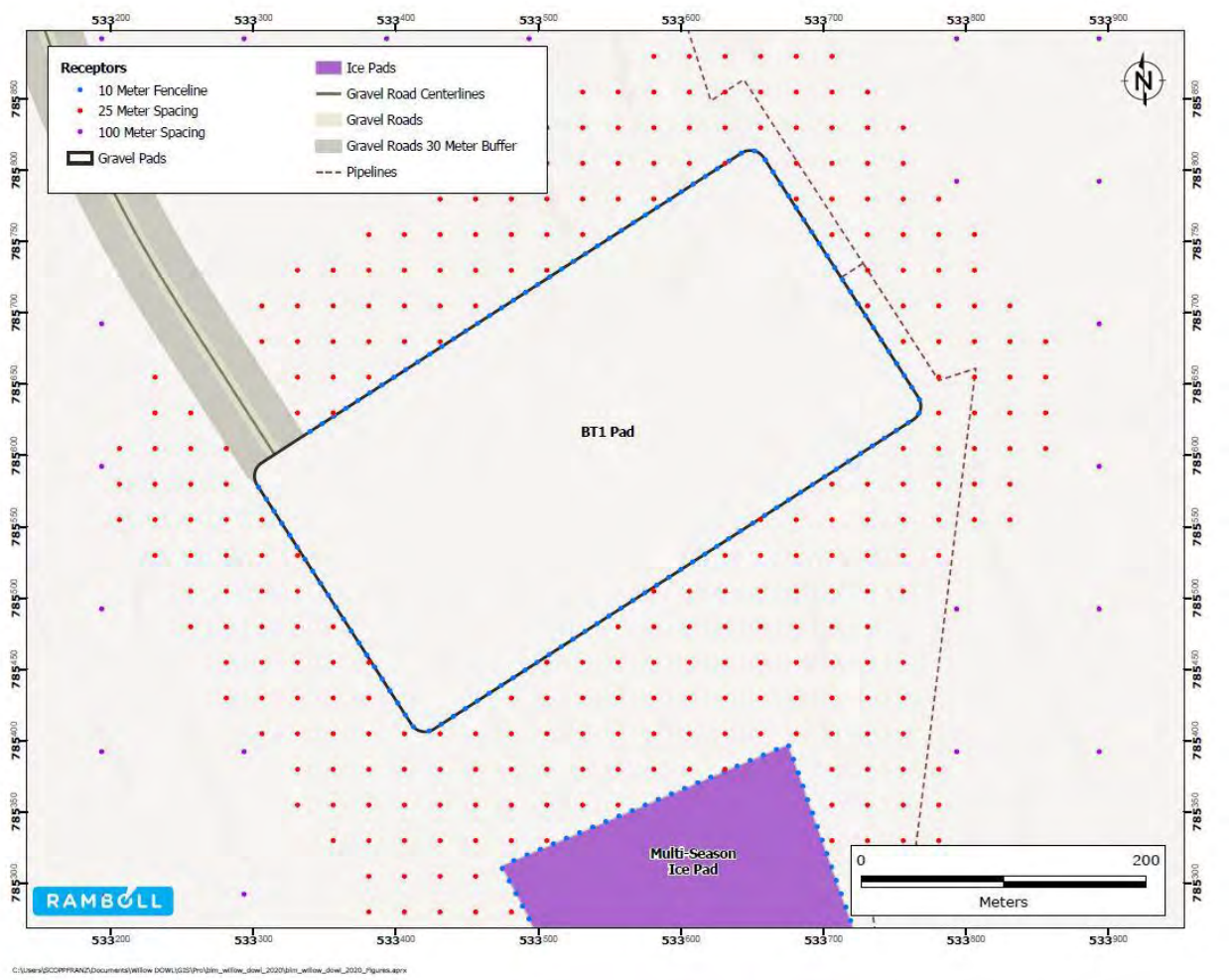


Figure E.2-20. BT1 Operations Receptor Locations – Alternative C (Disconnected Infield Roads)

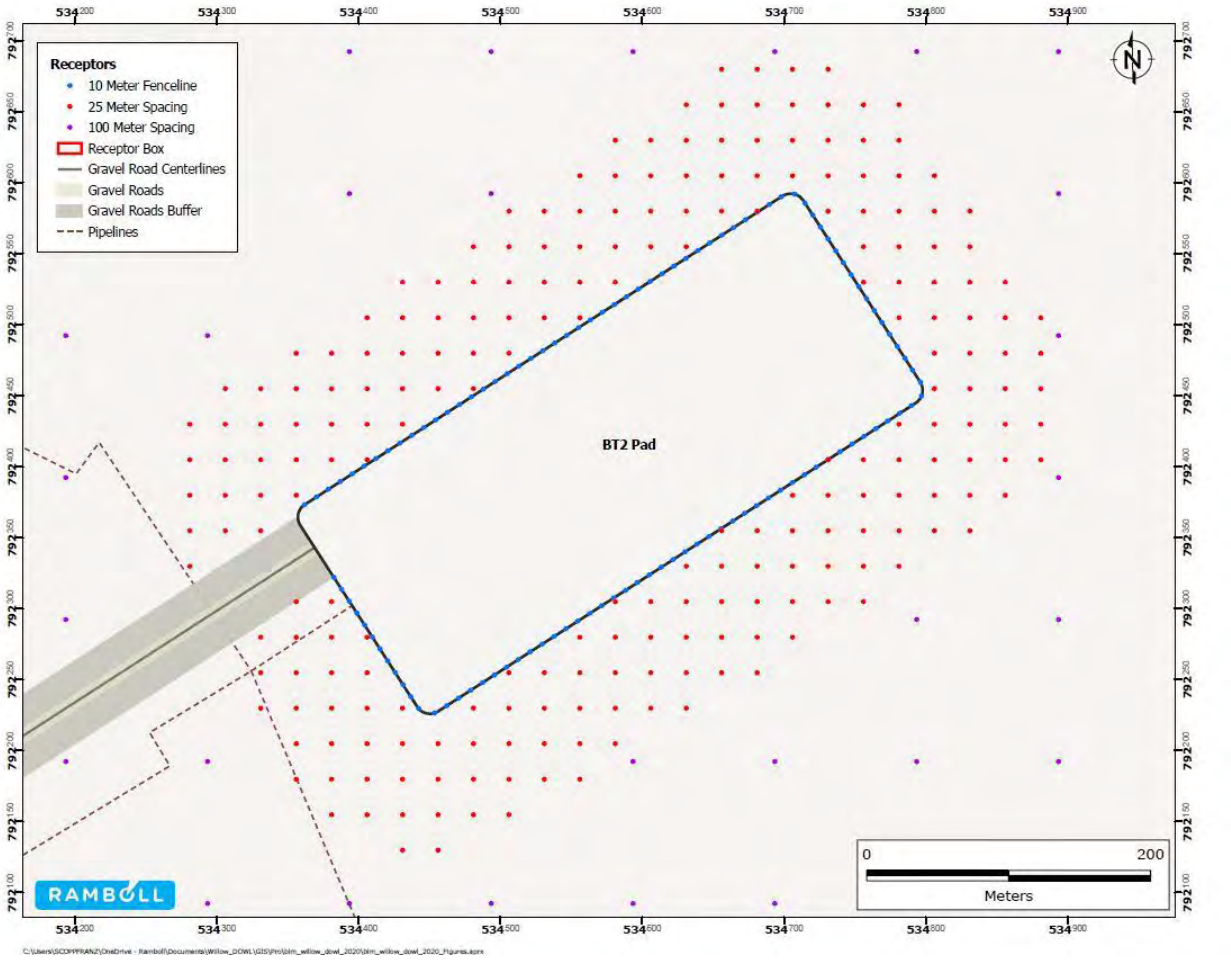


Figure E.2-21. BT2 Operations Receptor Locations – Alternative C (Disconnected Infield Roads)

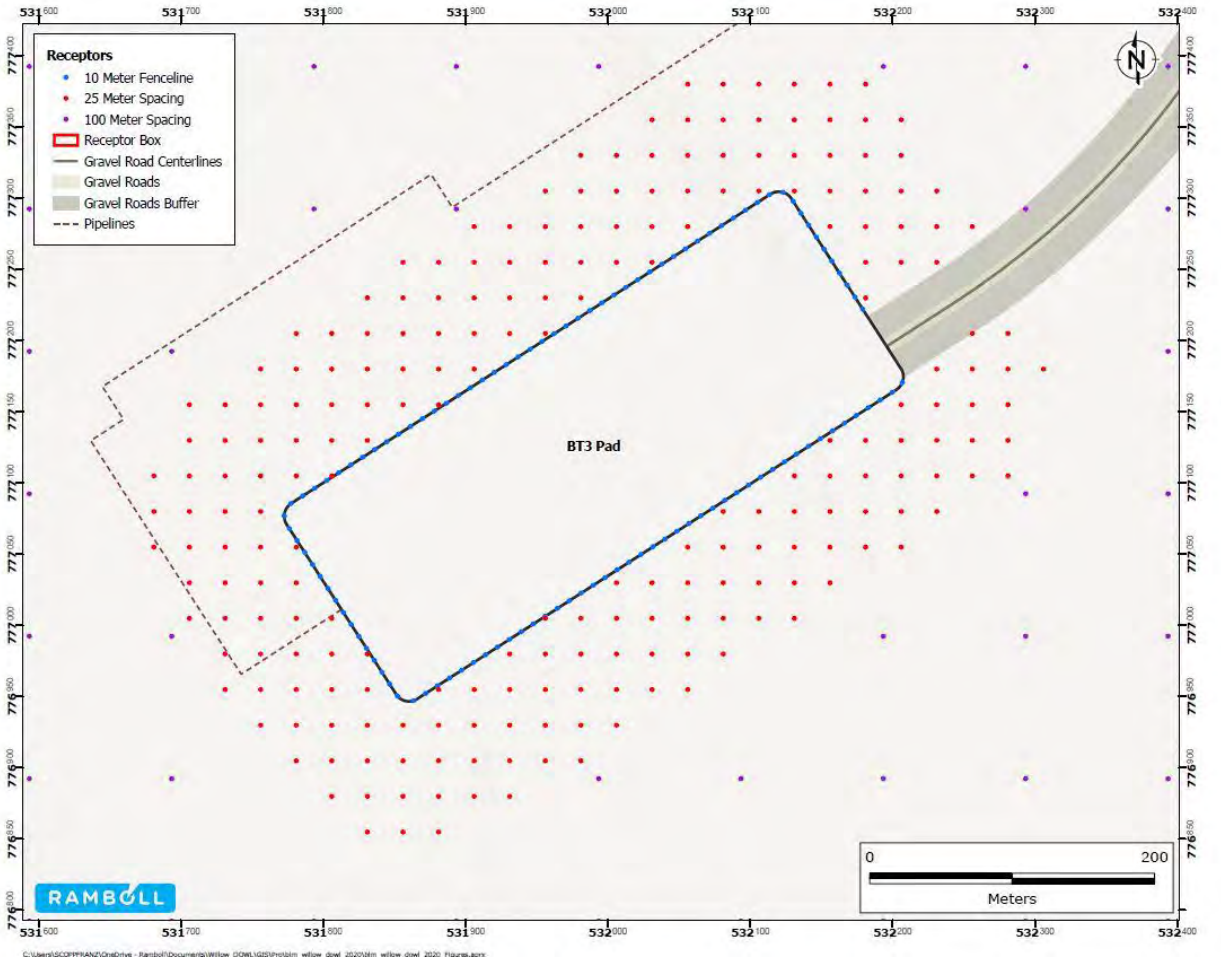


Figure E.2-22. BT3 Operations Receptor Locations – Alternative C (Disconnected Infield Roads)

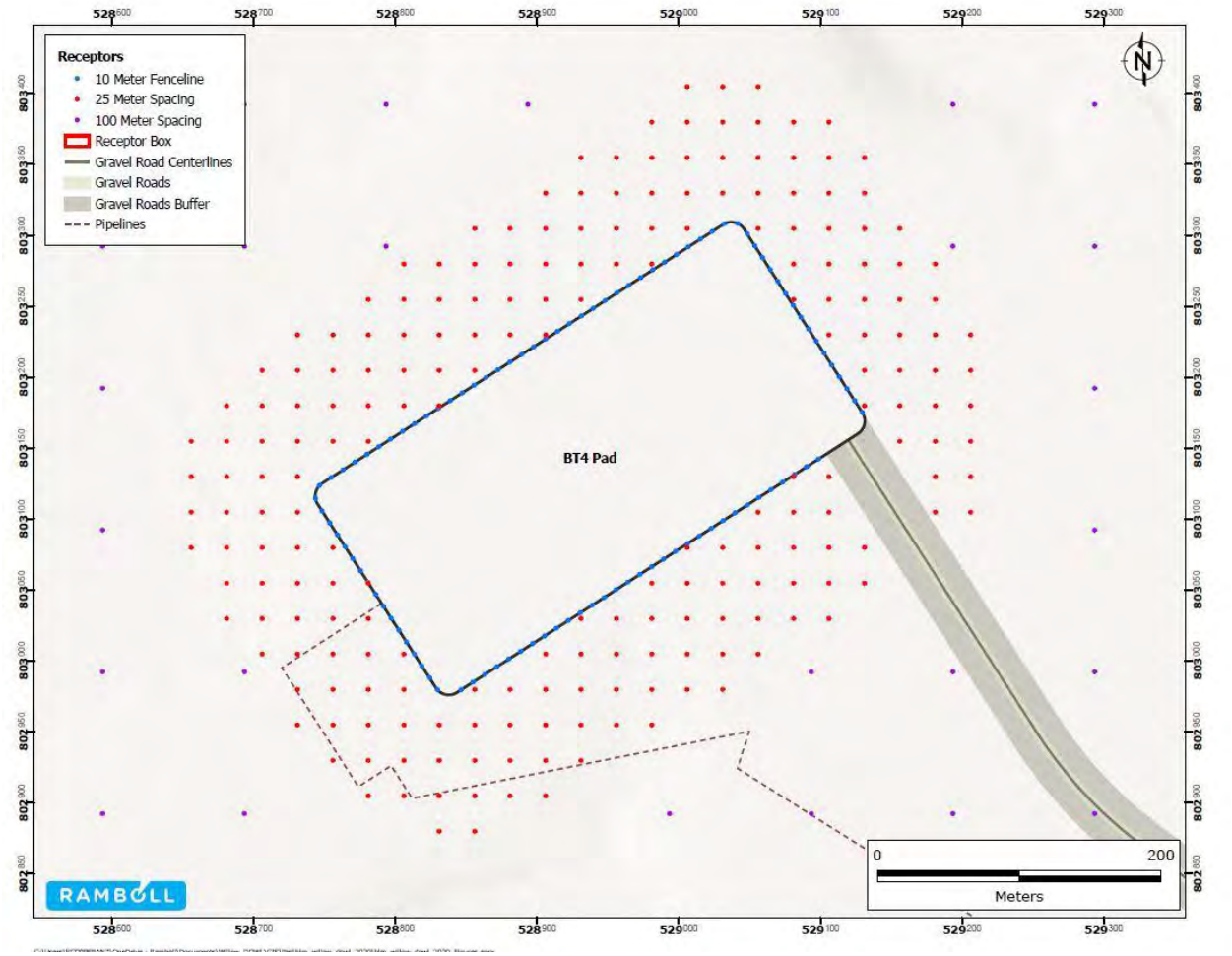


Figure E.2-23. BT4 Operations Receptor Locations – Alternative C (Disconnected Infield Roads)

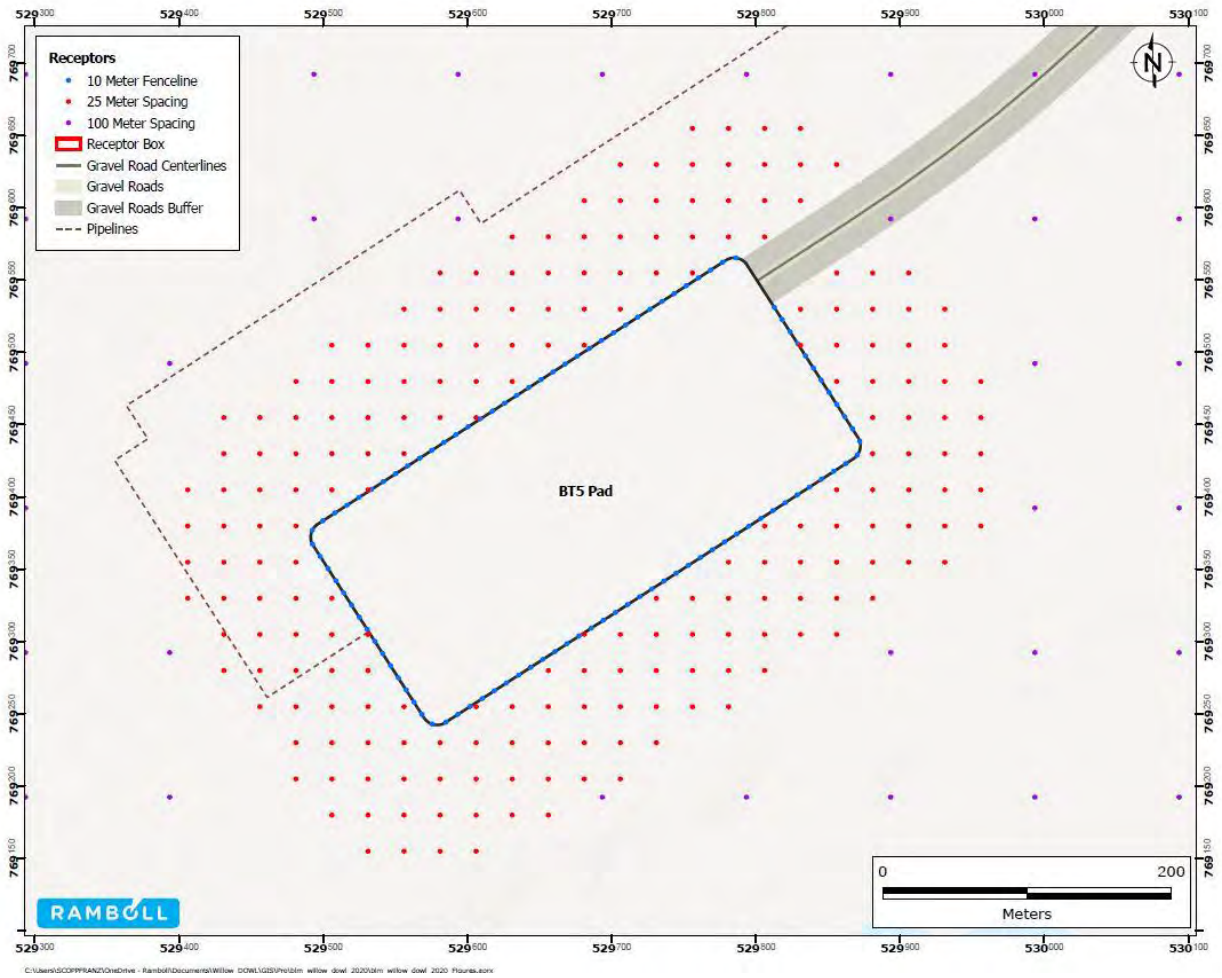


Figure E.2-24. BT5 Operations Receptor Locations – Alternative C (Disconnected Infield Roads)

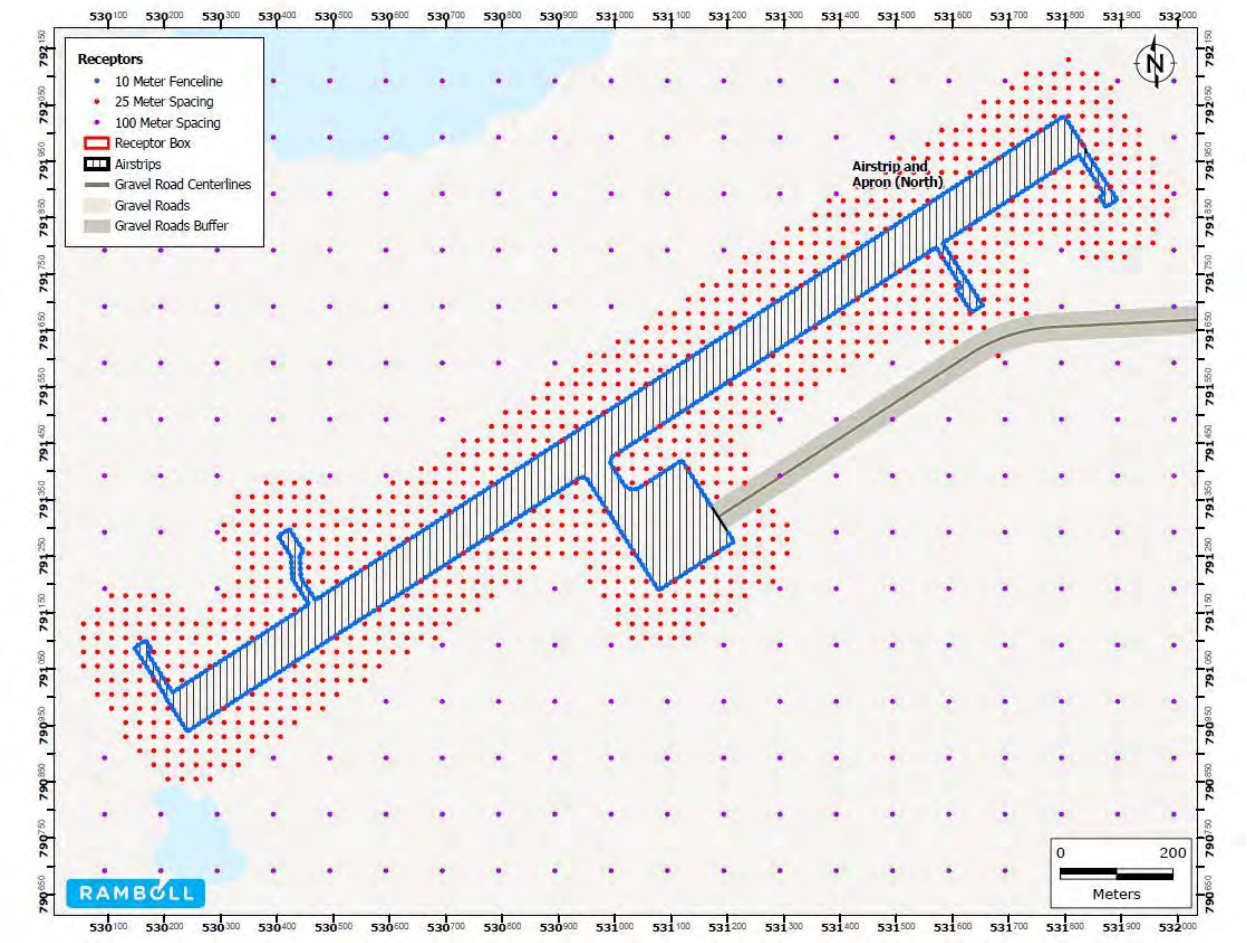


Figure E.2-25. North Airstrip Receptor Locations – Alternative C (Disconnected Infield Roads)

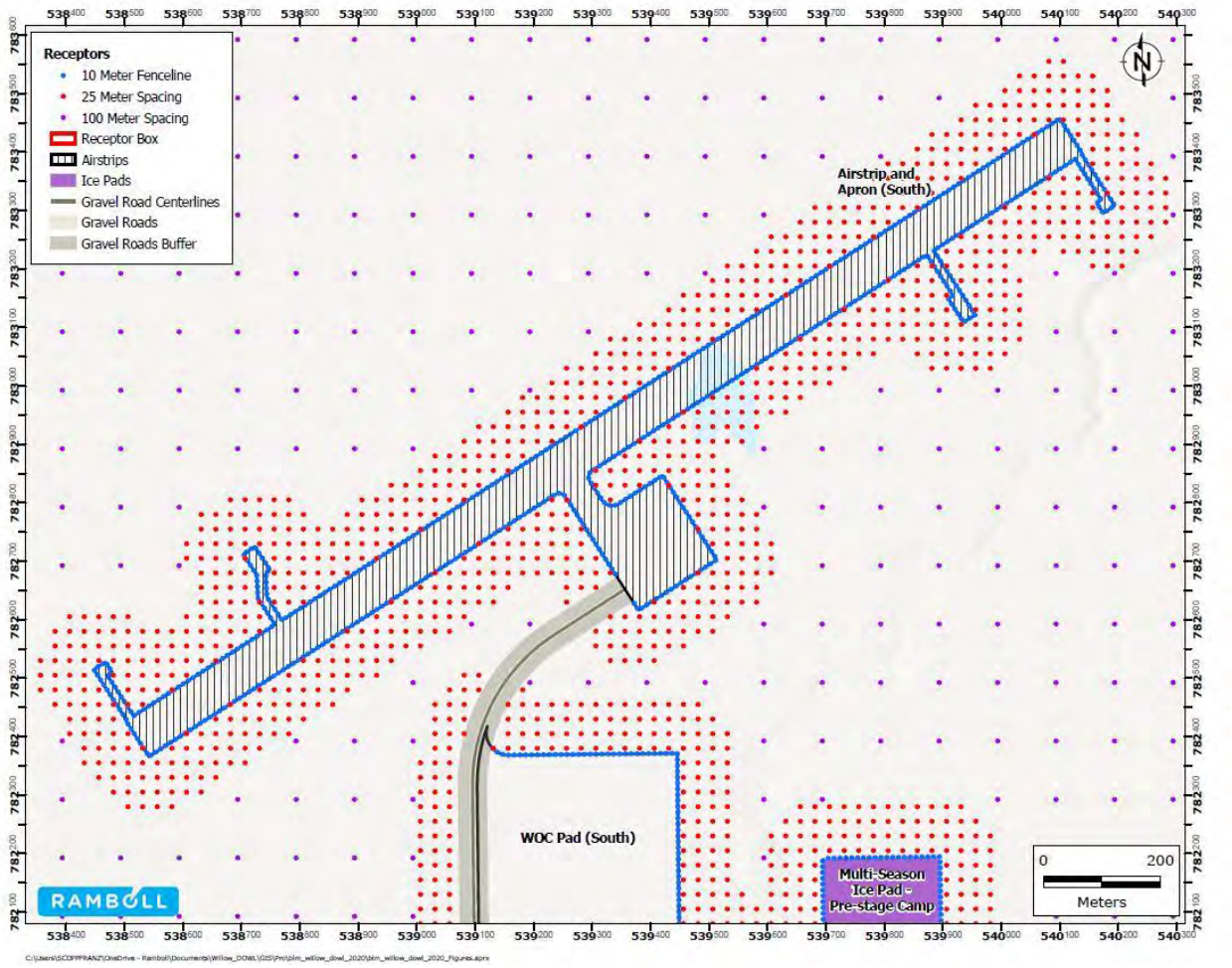


Figure E.2-26. South Airstrip Receptor Locations – Alternative C (Disconnected Infield Roads)

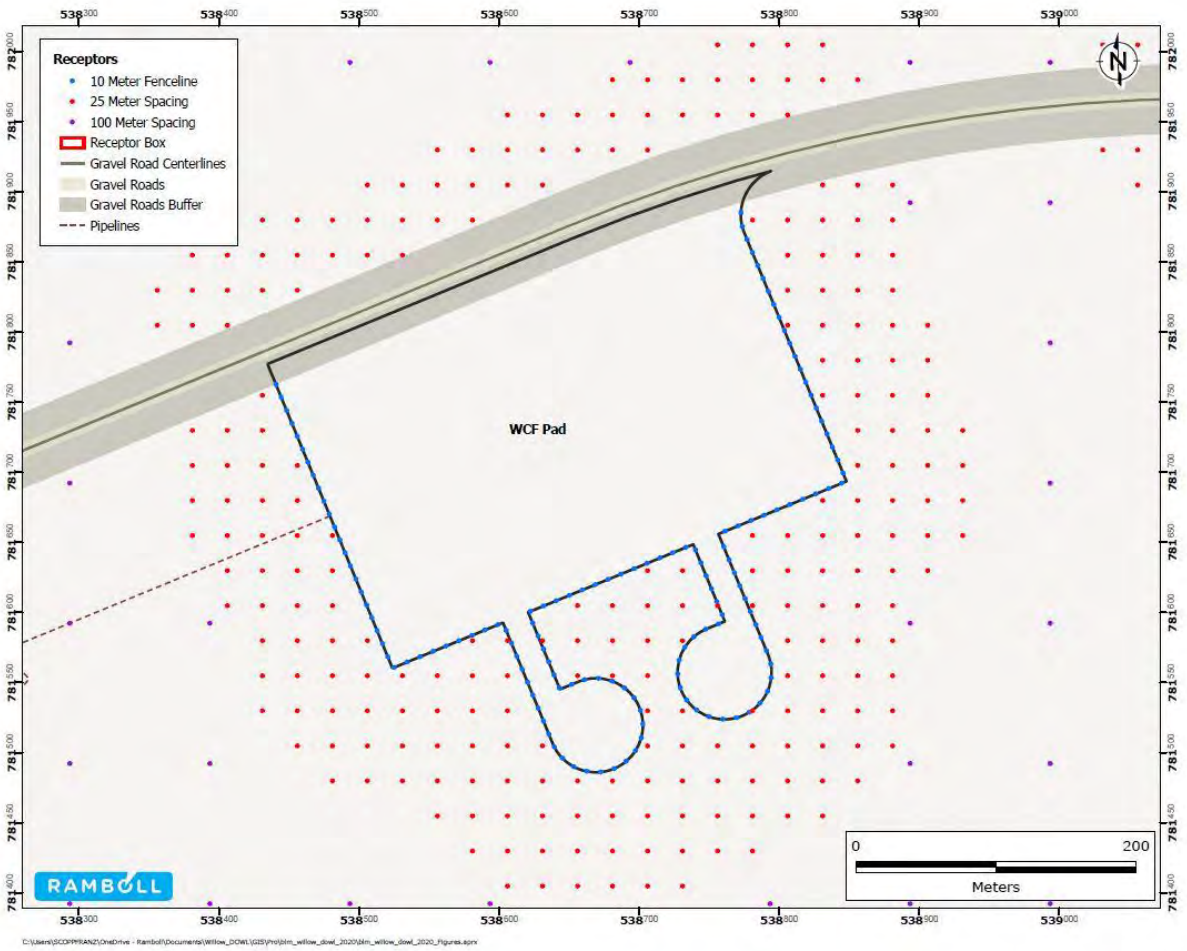


Figure E.2-27. WCF Operations Receptor Locations – Alternative C (Disconnected Infield Roads)

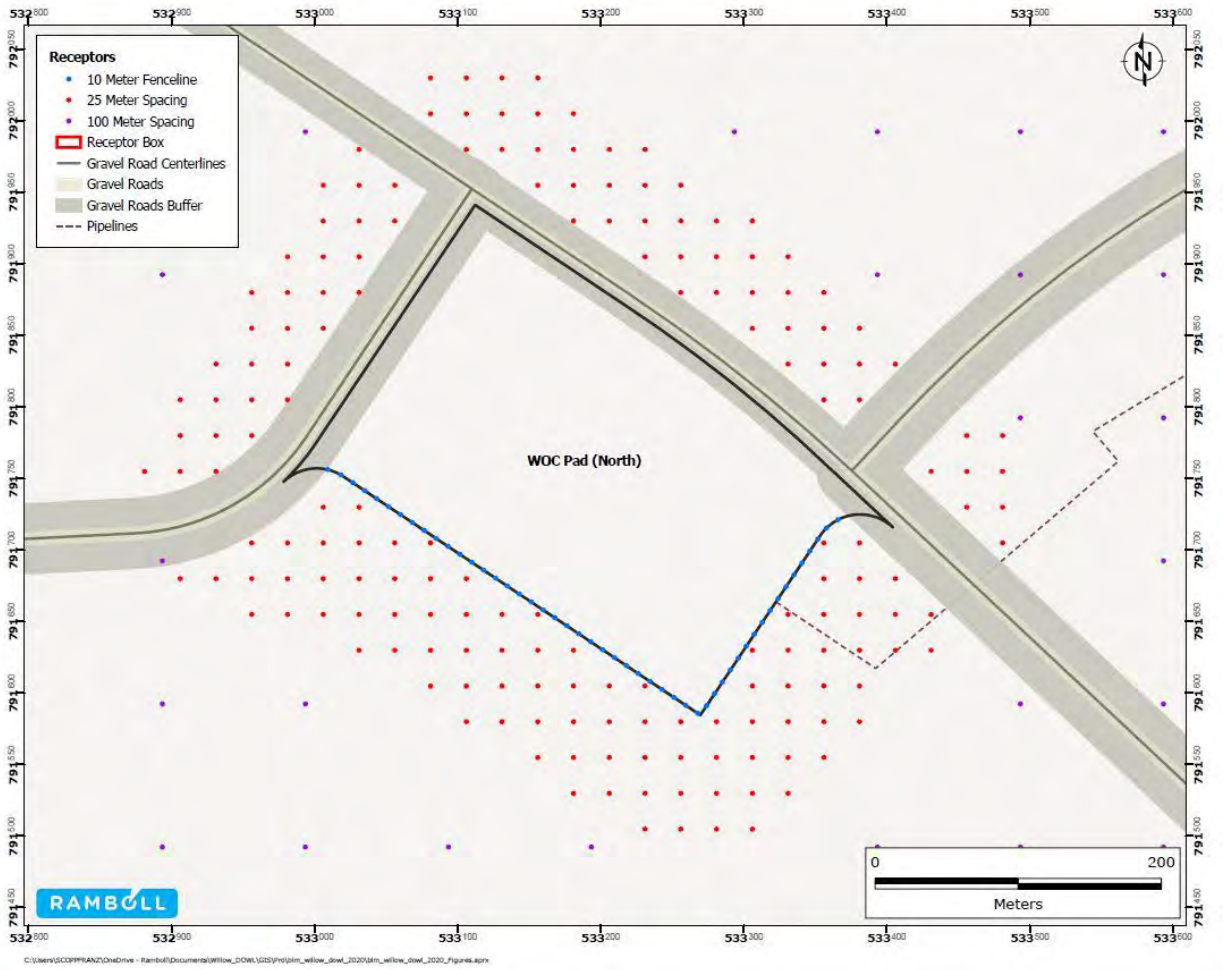


Figure E.2-28. WOC North Operations Receptor Locations – Alternative C (Disconnected Infield Roads)

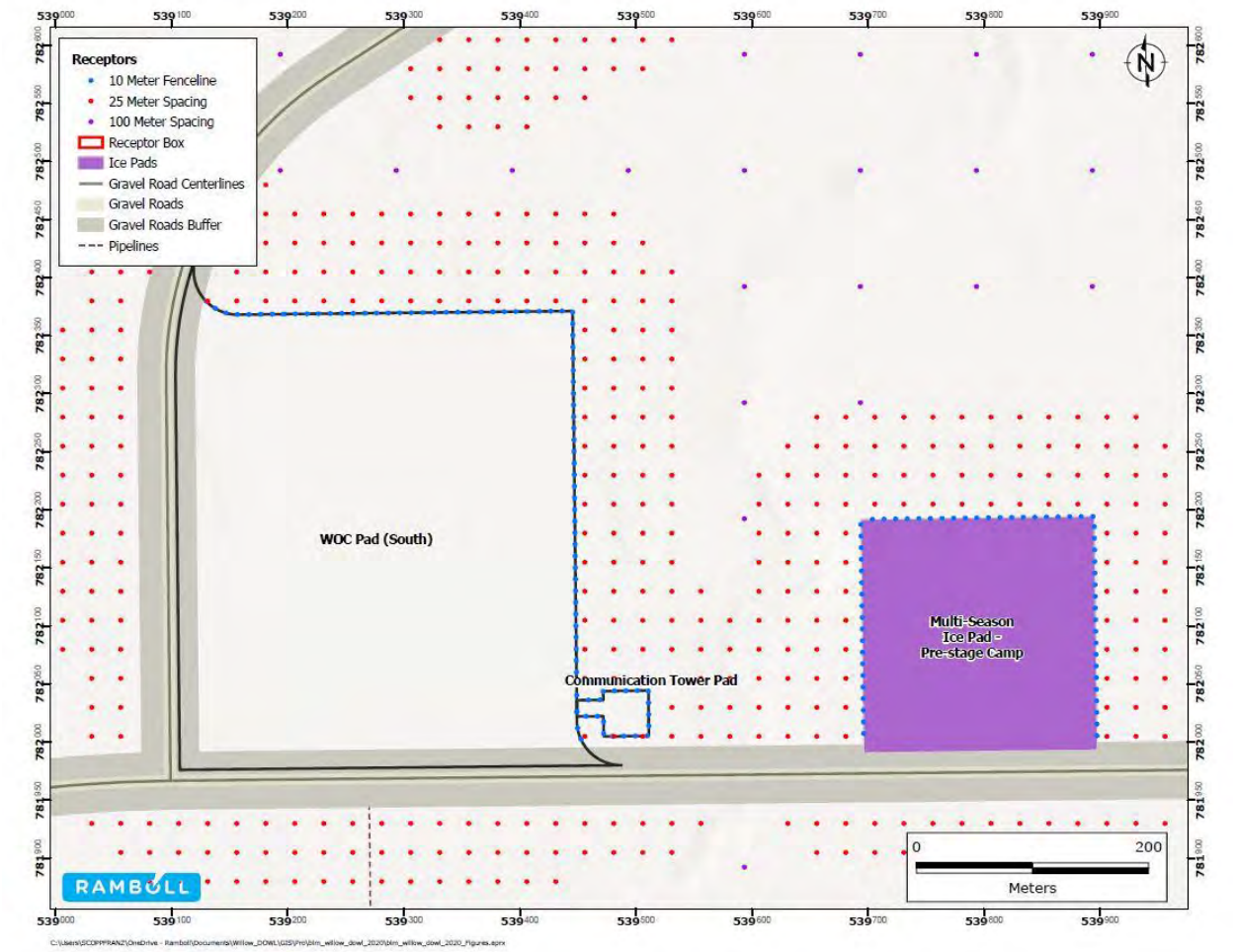


Figure E.2-29. WOC South Operations Receptor Locations – Alternative C (Disconnected Infield Roads)

E.3 Alternative D

E.3.1 Construction

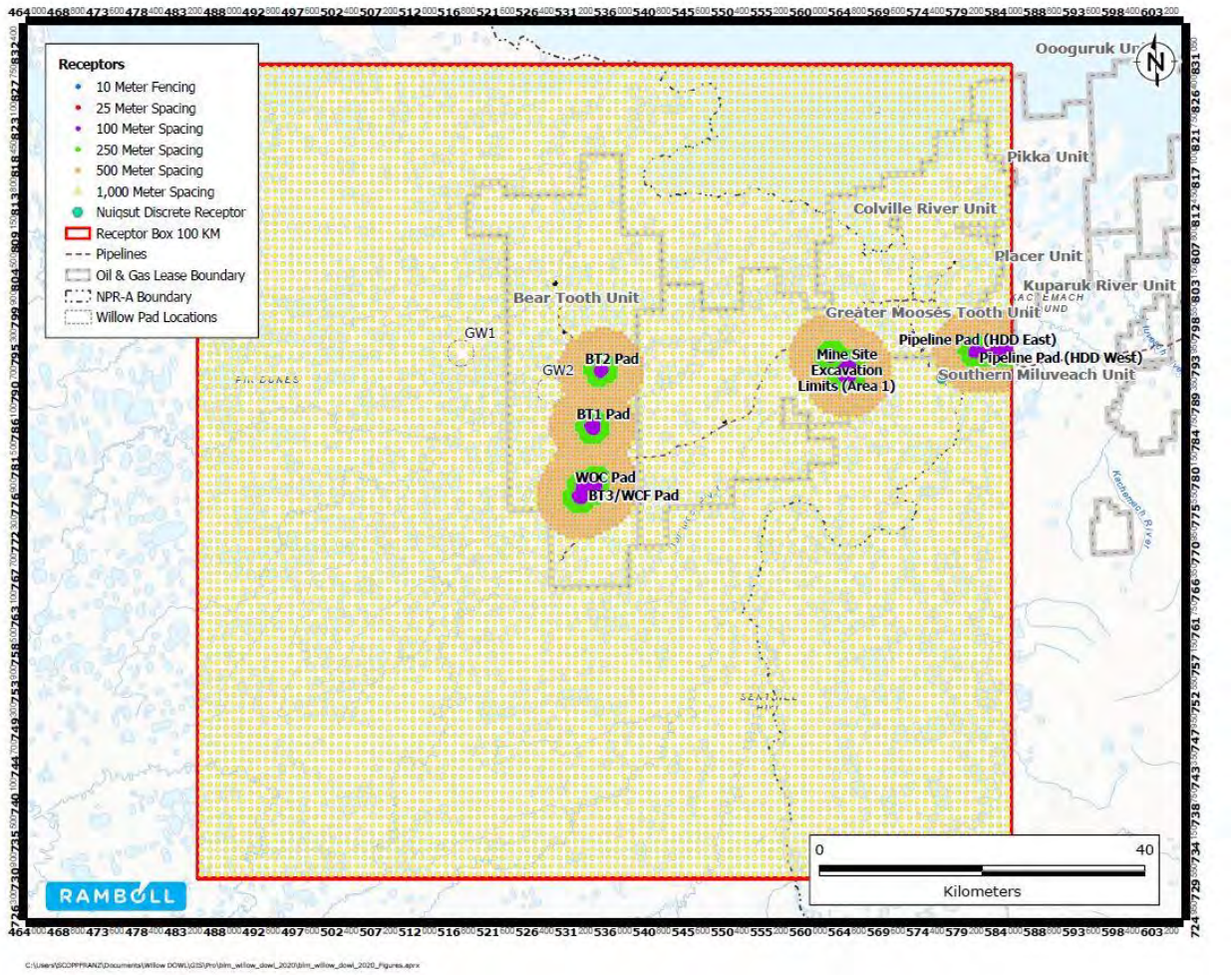


Figure E.3-1. Overview of Construction Receptor Locations – Alternative D (Disconnected Access)

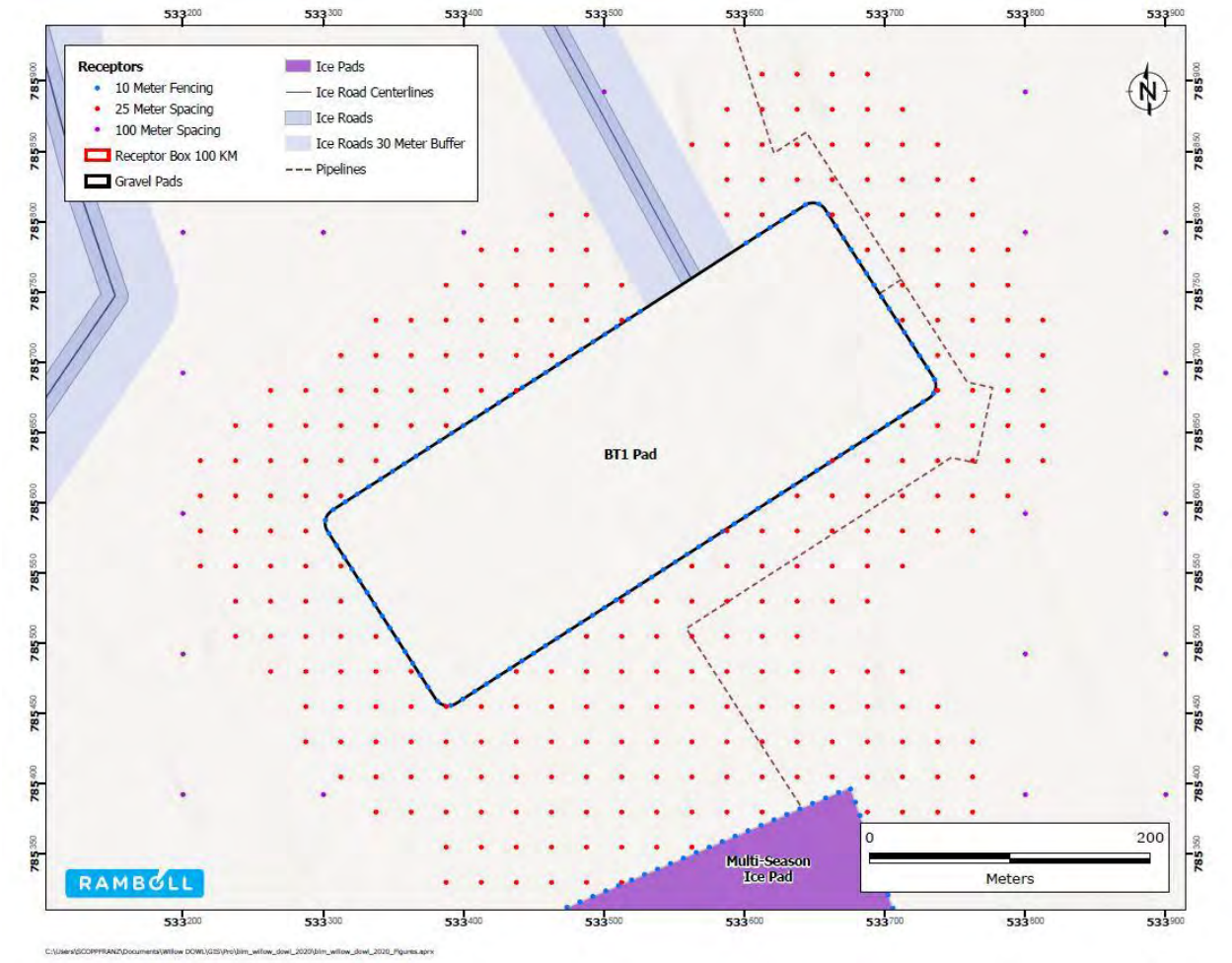


Figure E.3-2. BT1 Construction Receptor Locations – Alternative D (Disconnected Access)

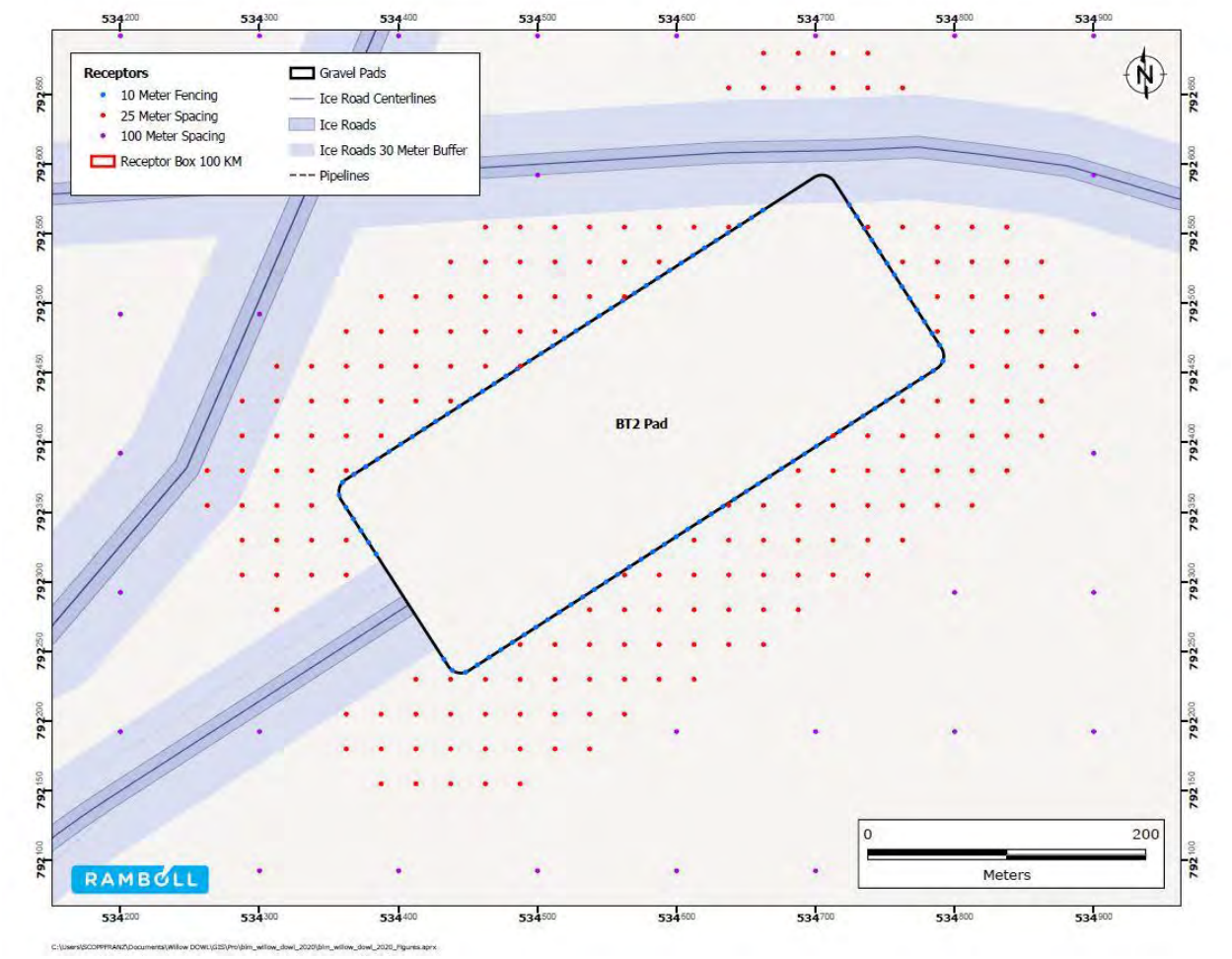


Figure E.3-3. BT2 Construction Receptor Locations – Alternative D (Disconnected Access)

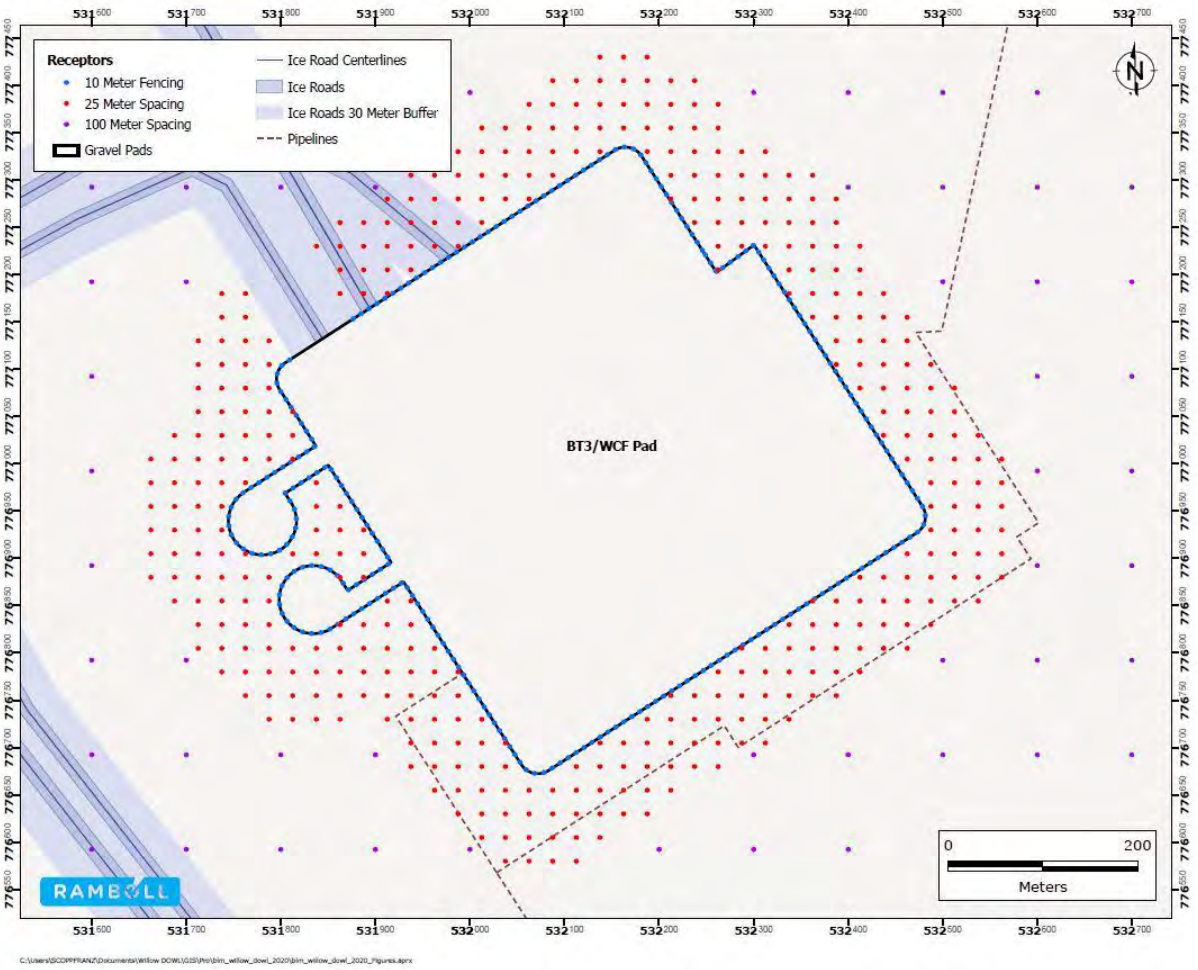


Figure E.3-4. BT3 Construction Receptor Locations – Alternative D (Disconnected Access)

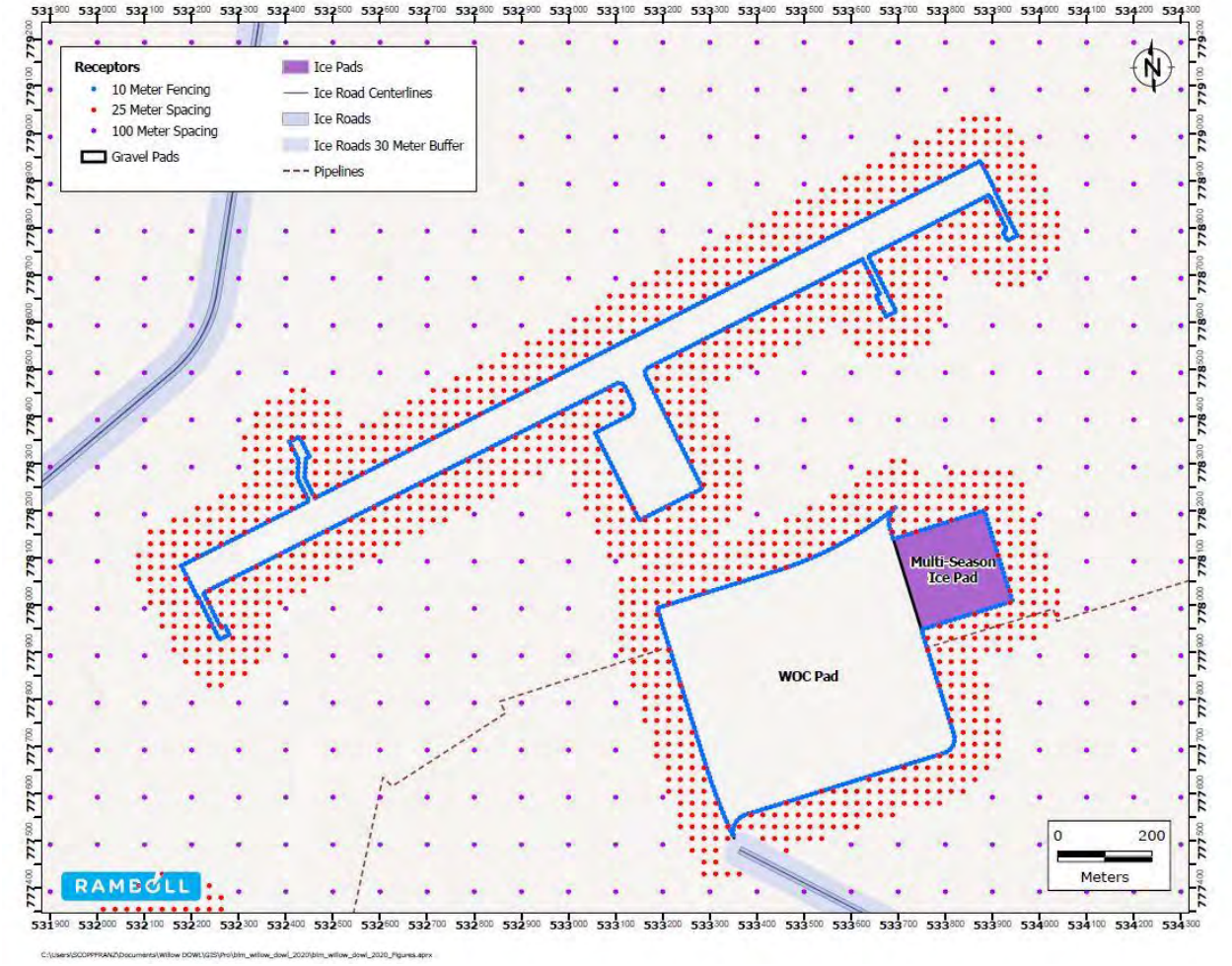


Figure E.3-5. Airstrip Construction Receptor Locations – Alternative D (Disconnected Access)

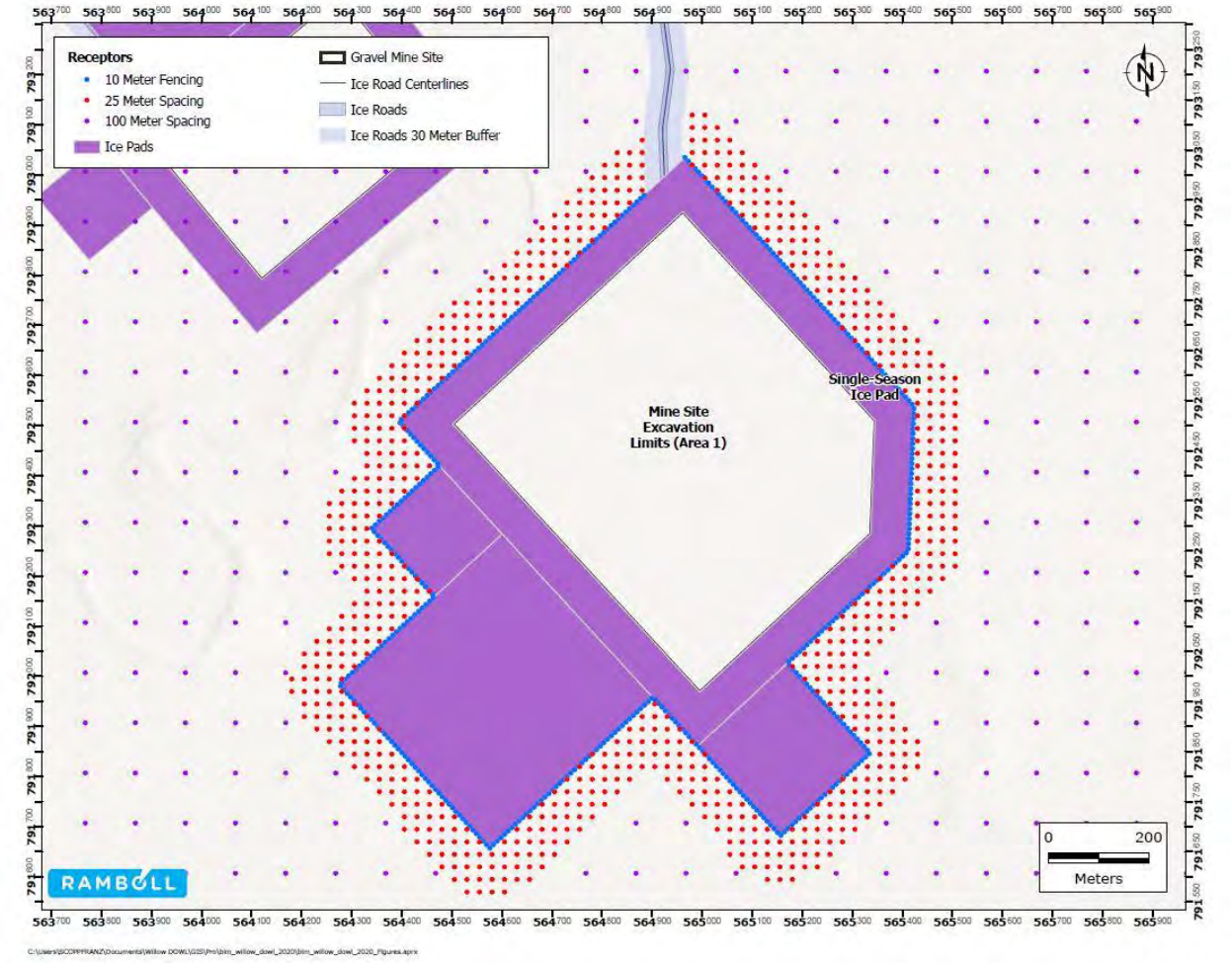


Figure E.3-6. Gravel Mine Site Construction Receptor Locations – Alternative D (Disconnected Access)

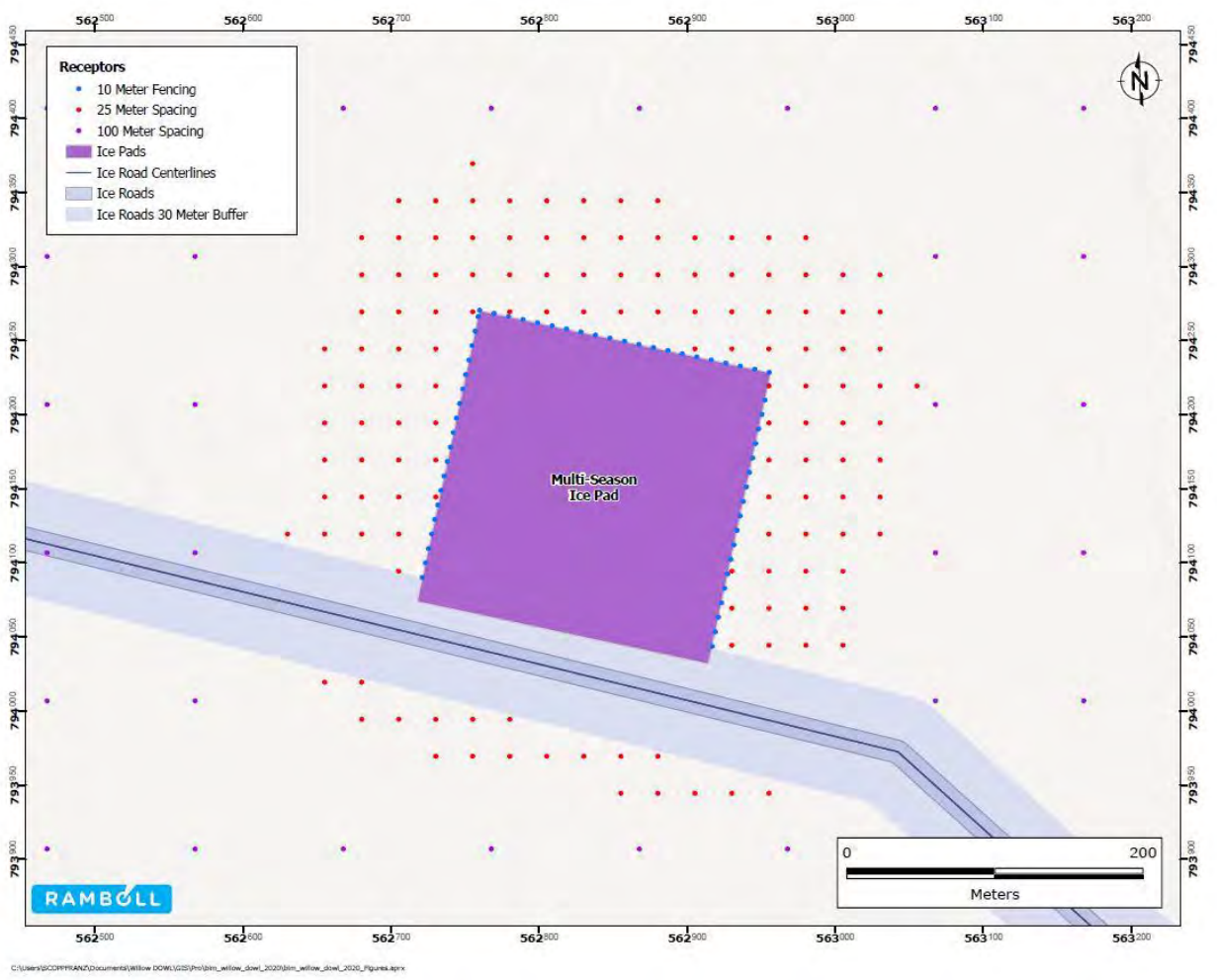


Figure E.3-7. Mine Camp Construction Receptor Locations – Alternative D (Disconnected Access)

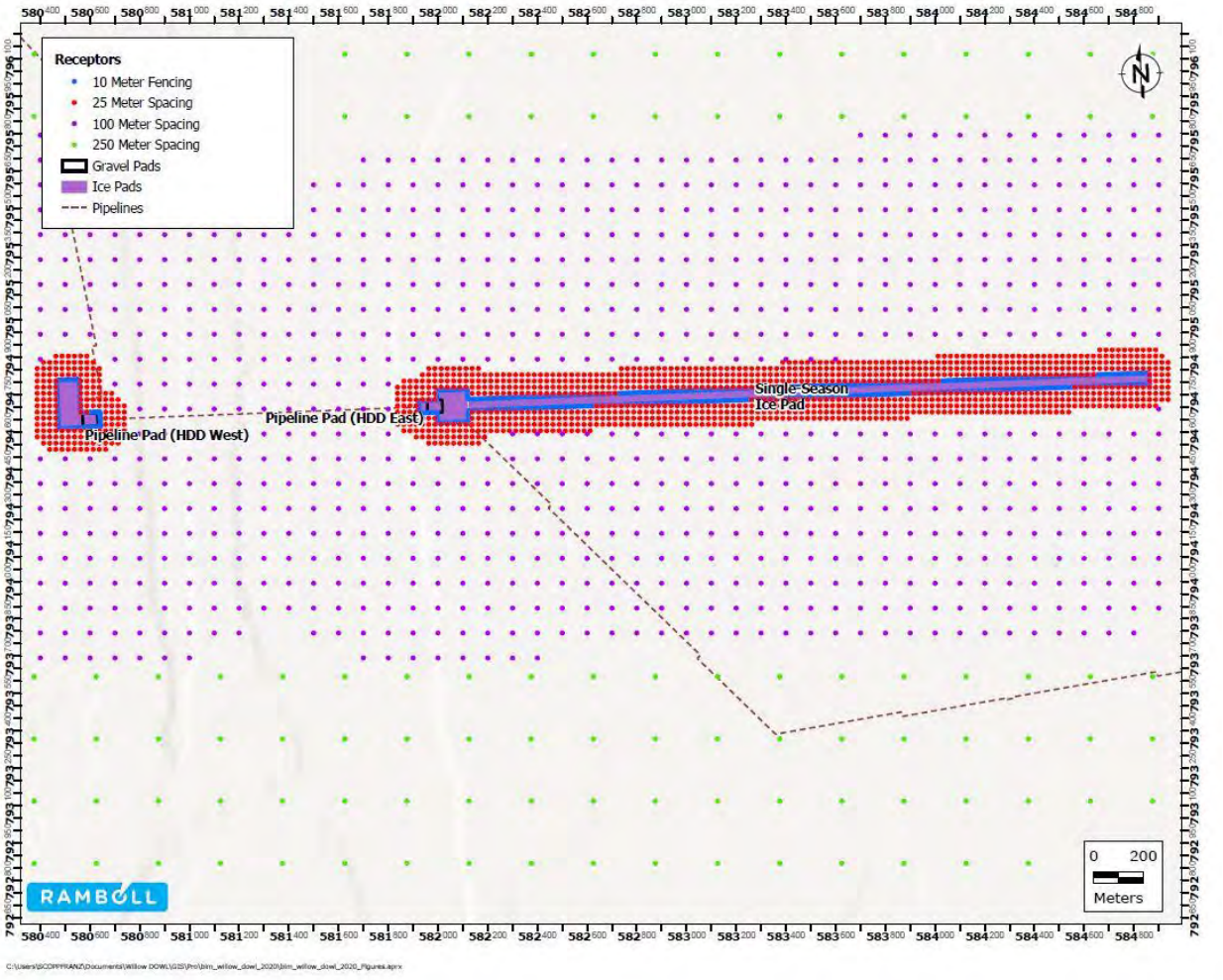


Figure E.3-8. HDD Construction Receptor Locations – Alternative D (Disconnected Access)

E.3.2 Development Drilling

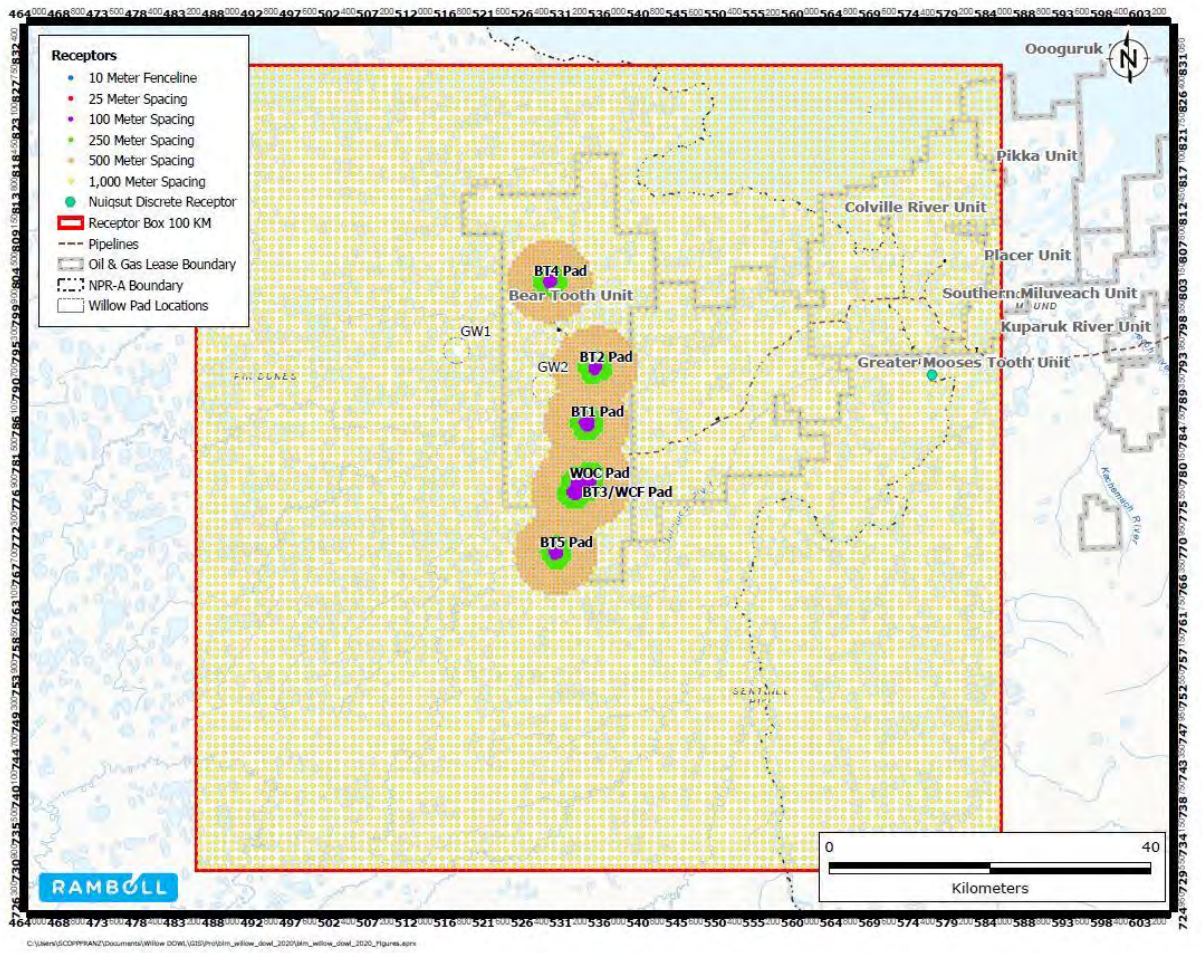


Figure E.3-9. Overview of Drilling Receptor Locations – Alternative D (Disconnected Access)

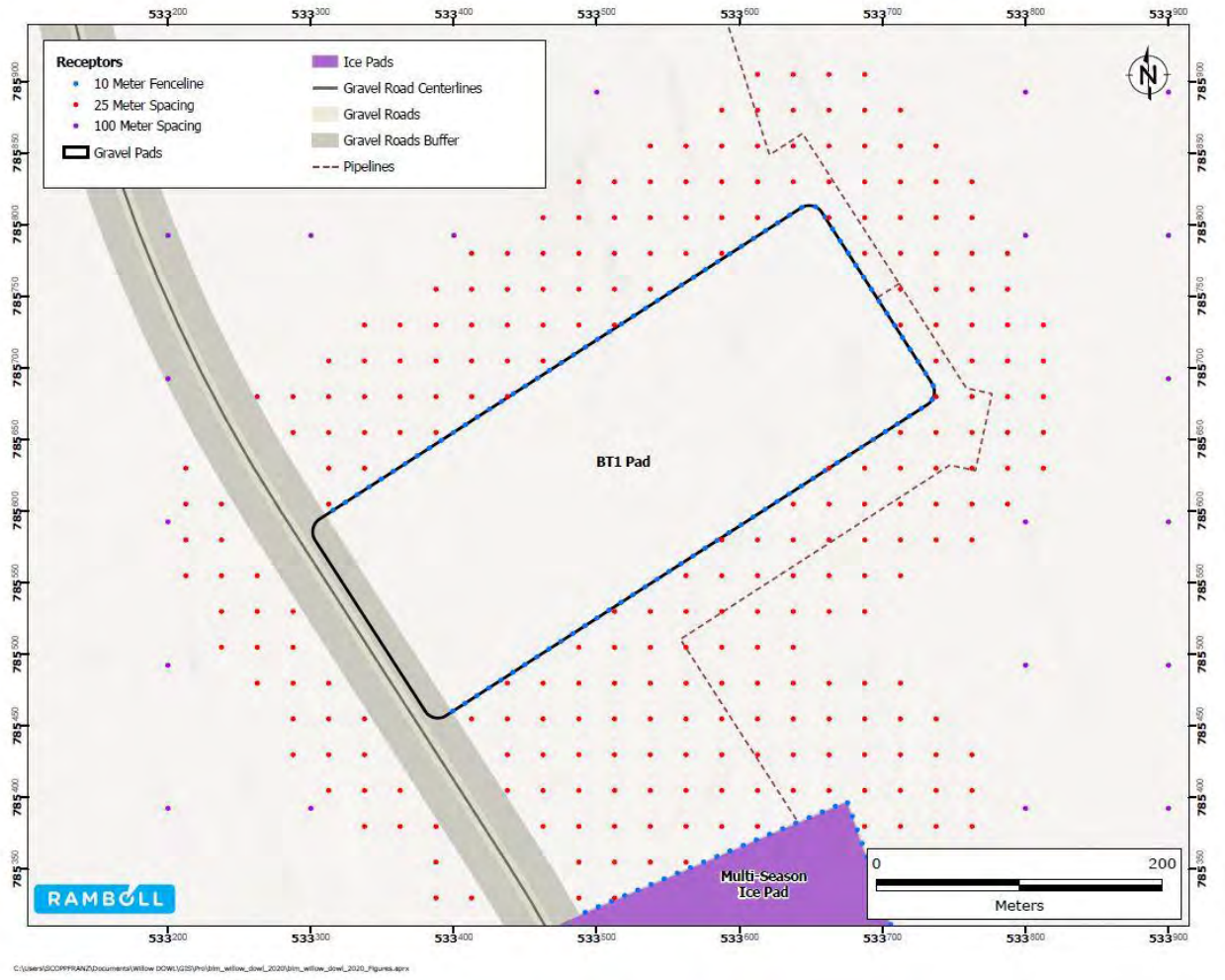


Figure E.3-10. BT1 Drilling Receptor Locations – Alternative D (Disconnected Access)

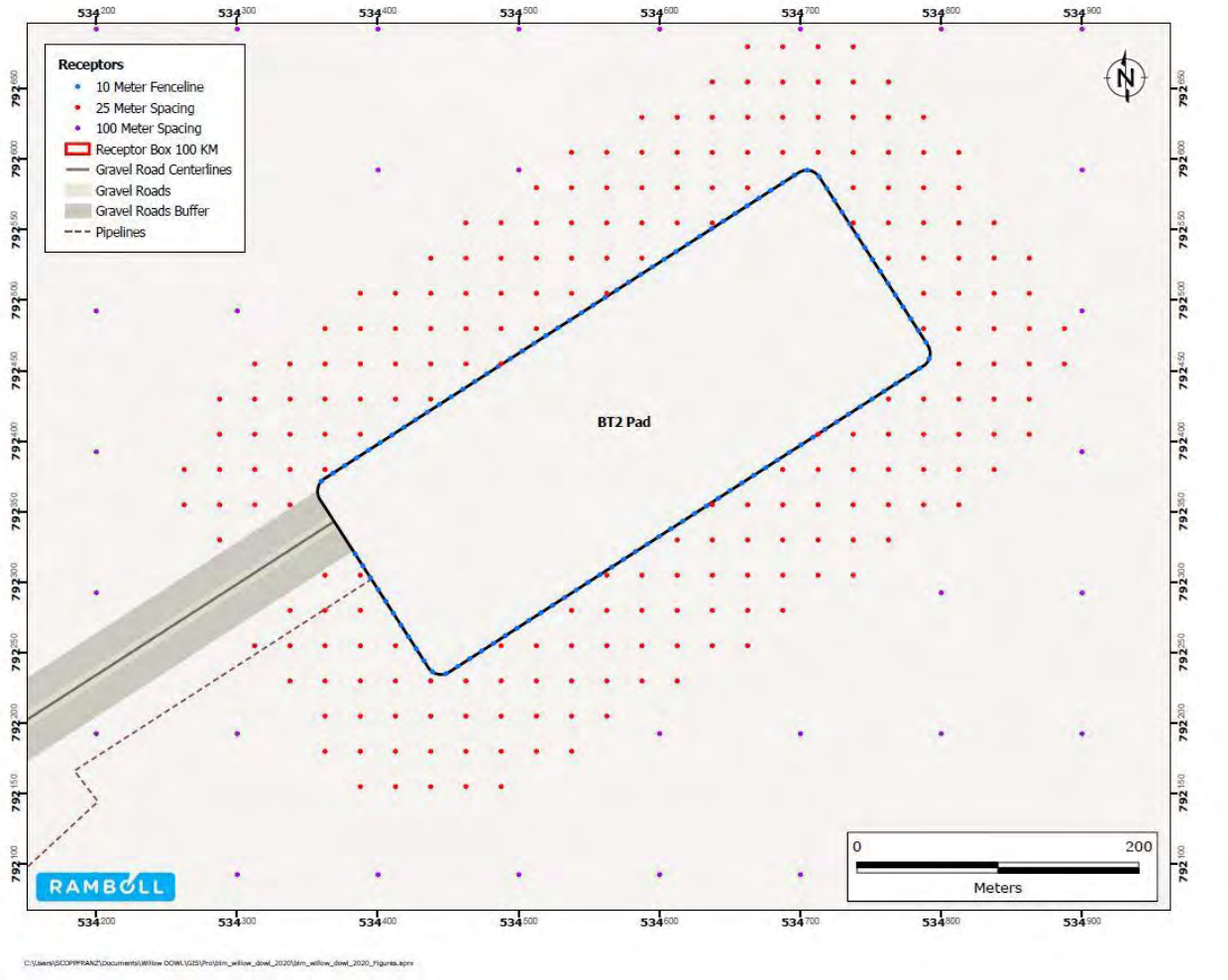


Figure E.3-11. BT2 Drilling Receptor Locations – Alternative D (Disconnected Access)

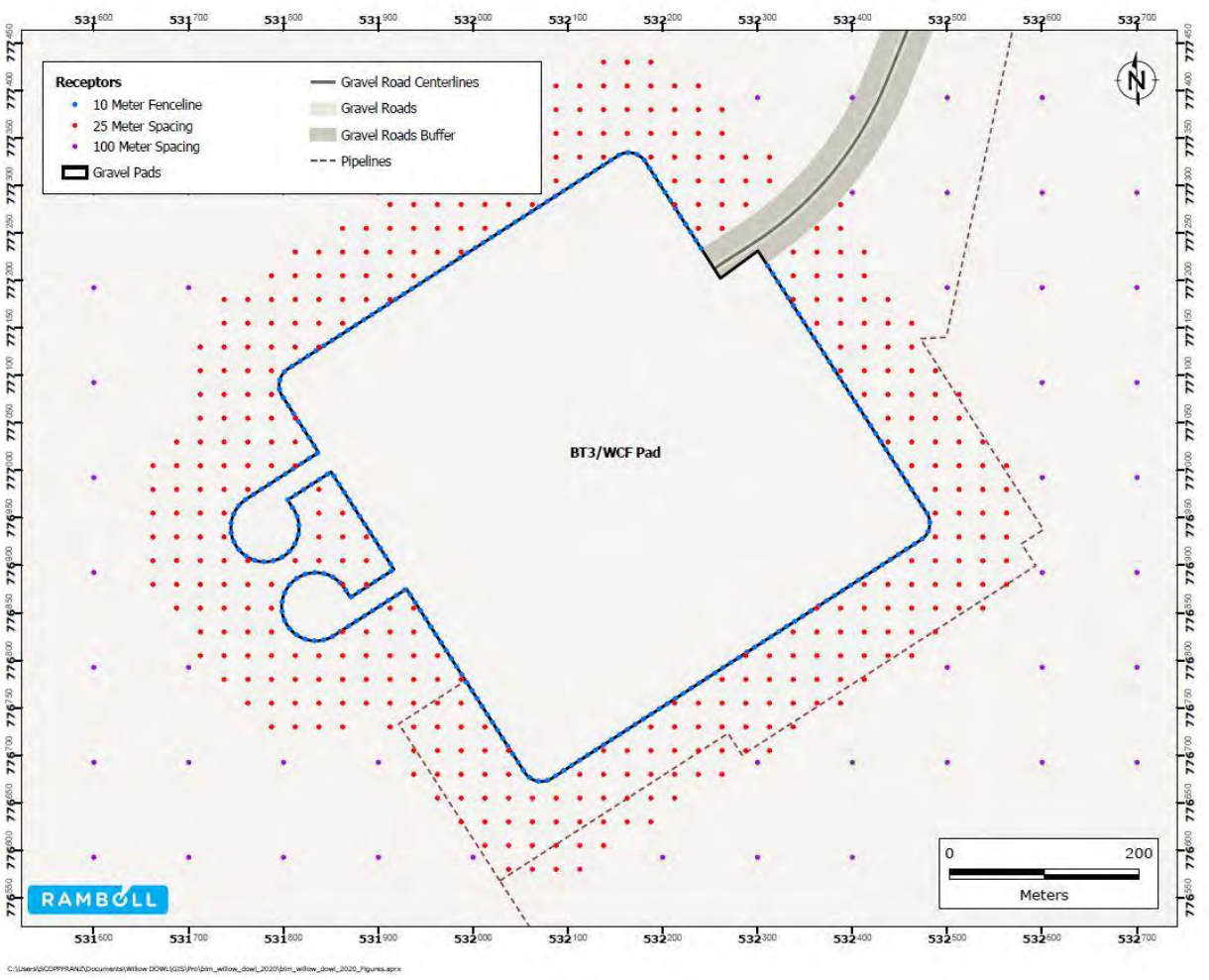


Figure E.3-12. BT3 Drilling Receptor Locations – Alternative D (Disconnected Access)

E.3.3 Routine Operations

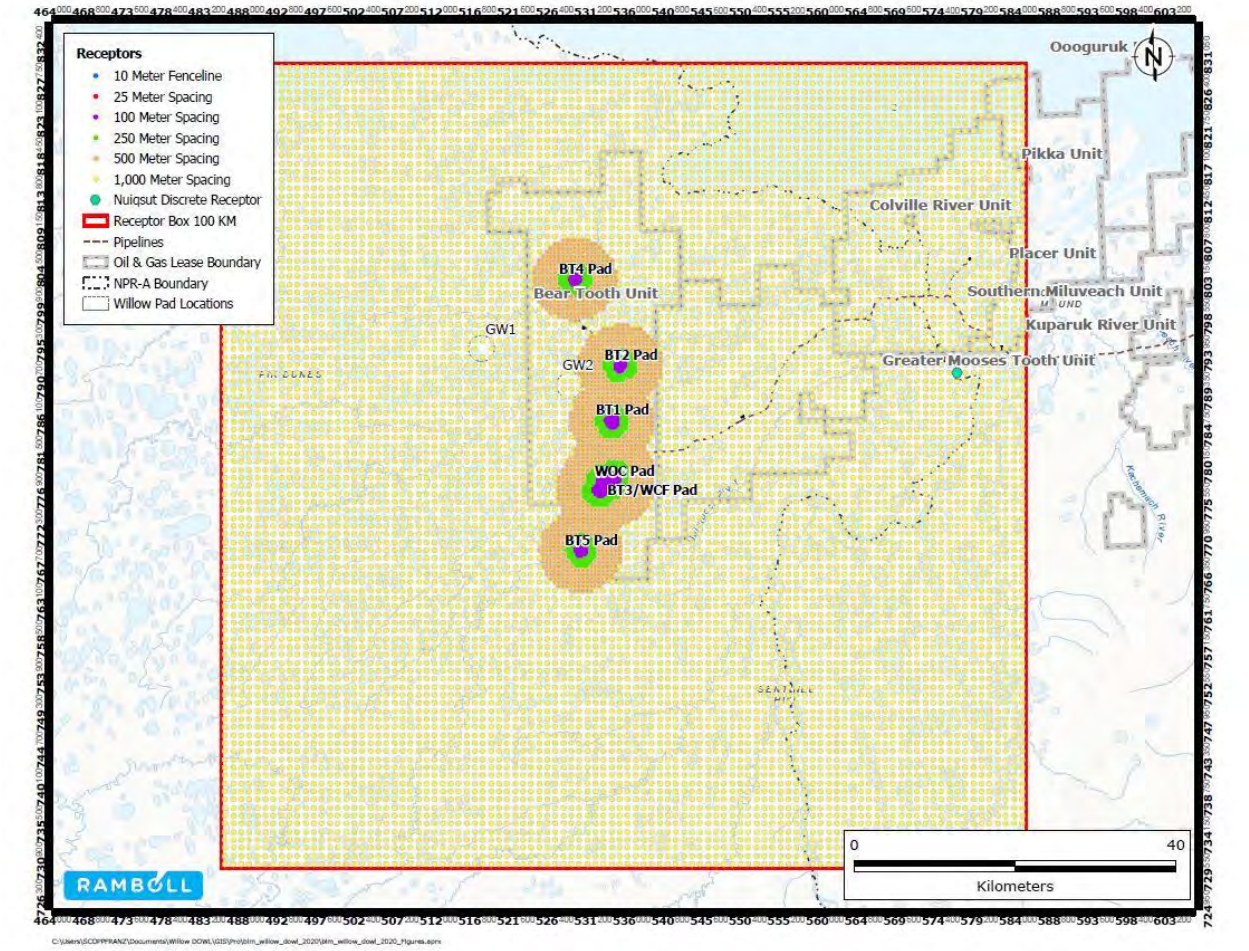


Figure E.3-13. Overview of Operations Receptor Locations – Alternative D (Disconnected Access)



Figure E.3-14. BT1 Operations Receptor Locations – Alternative D (Disconnected Access)

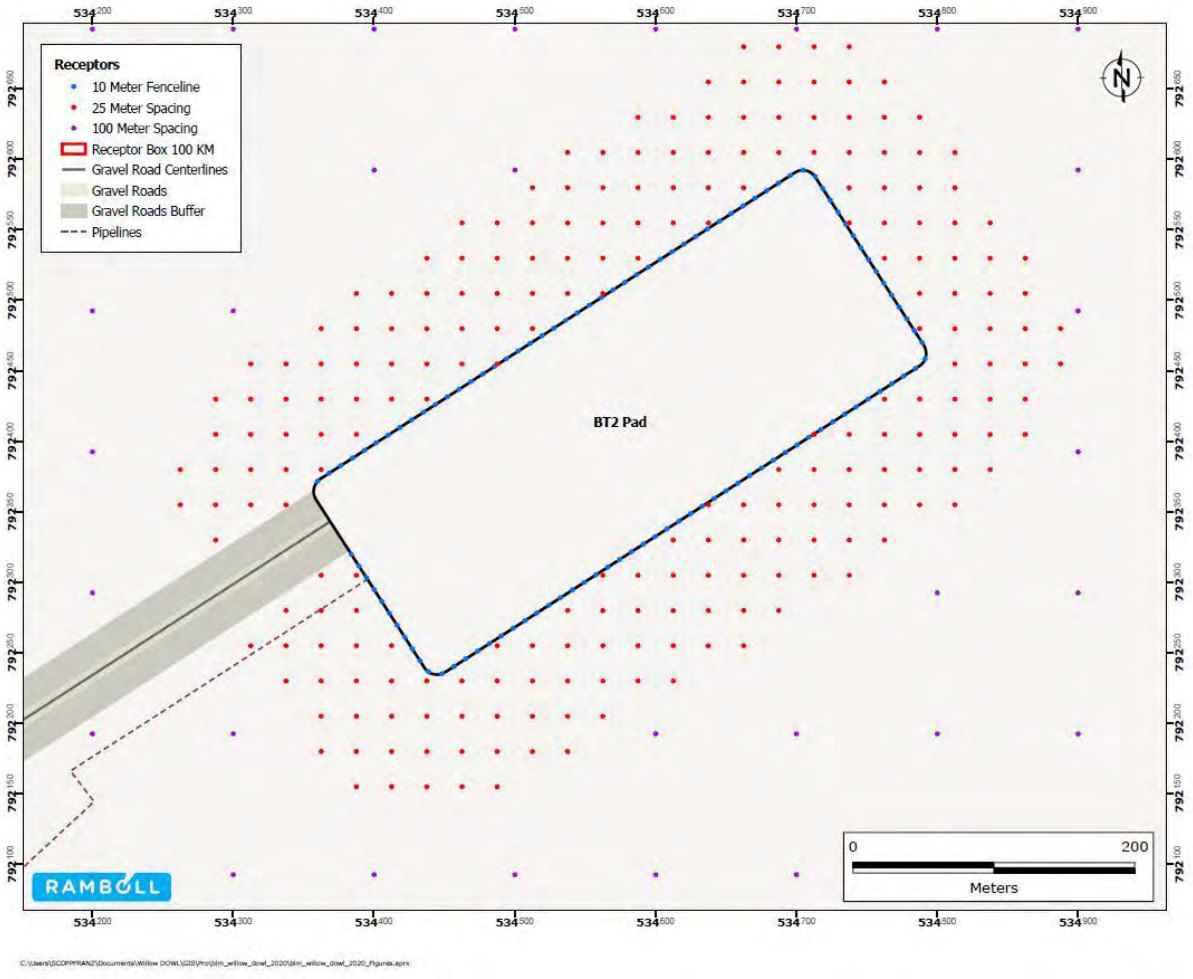


Figure E.3-15. BT2 Operations Receptor Locations – Alternative D (Disconnected Access)

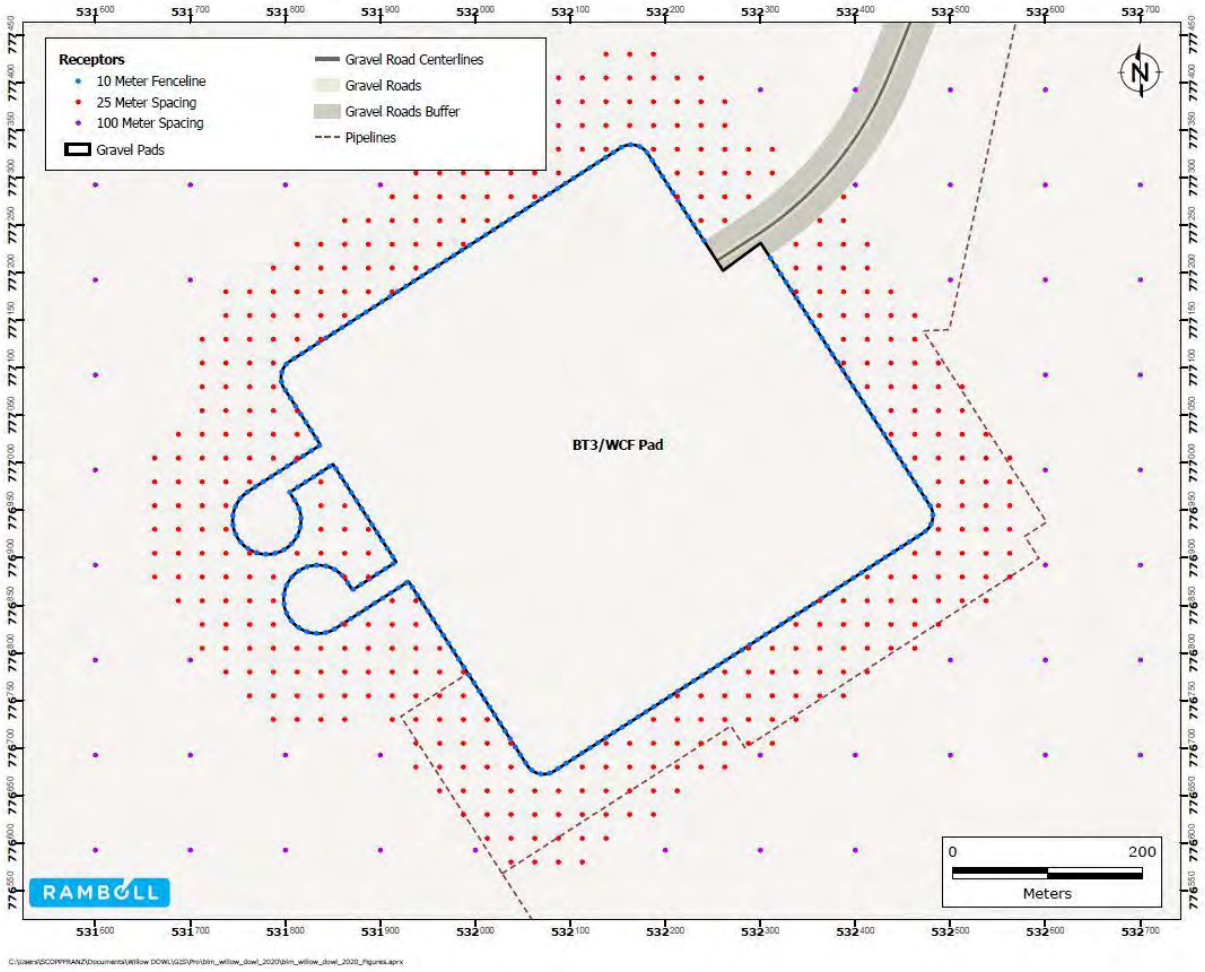


Figure E.3-16. BT3 Operations Receptor Locations – Alternative D (Disconnected Access)

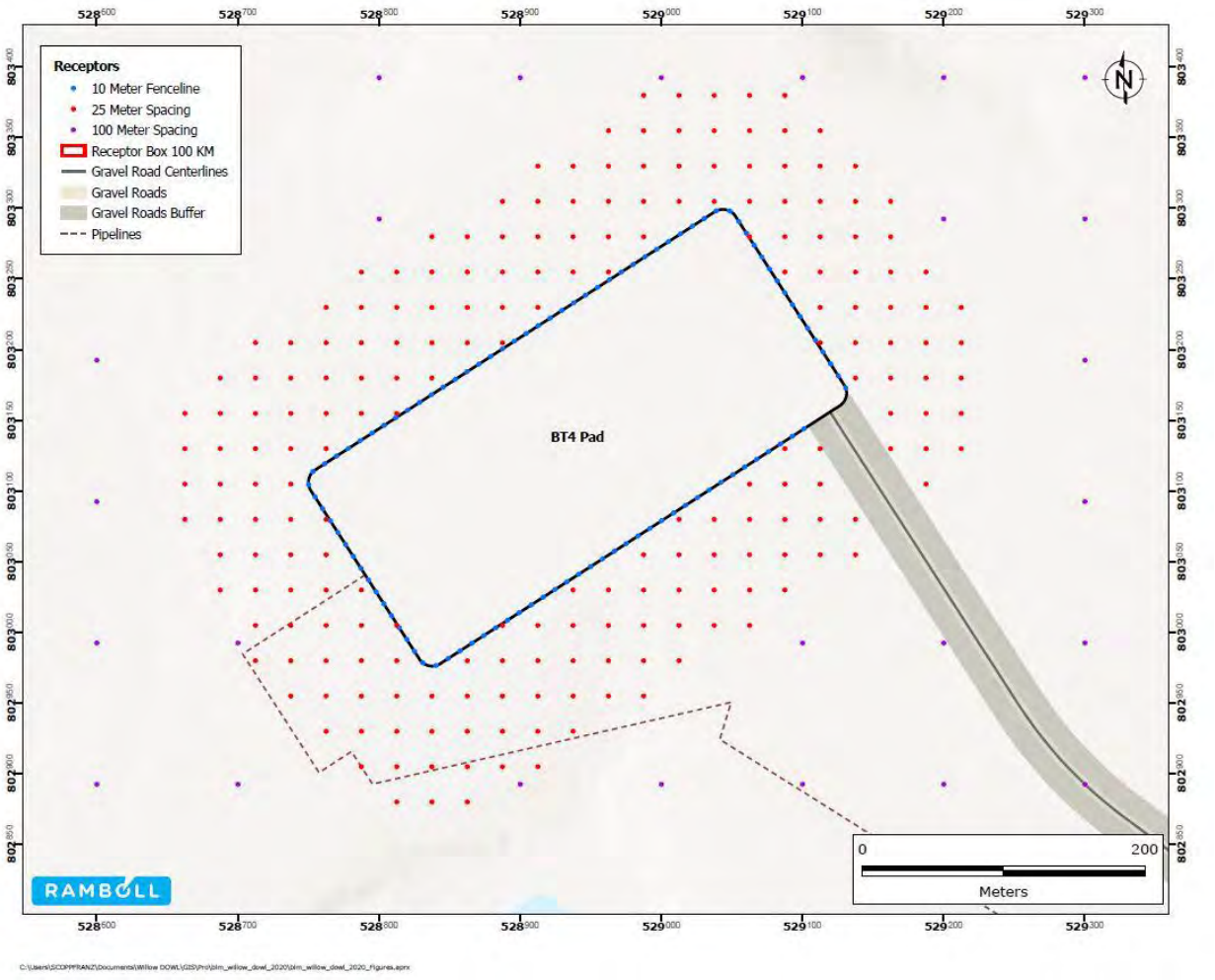


Figure E.3-17. BT4 Operations Receptor Locations – Alternative D (Disconnected Access)

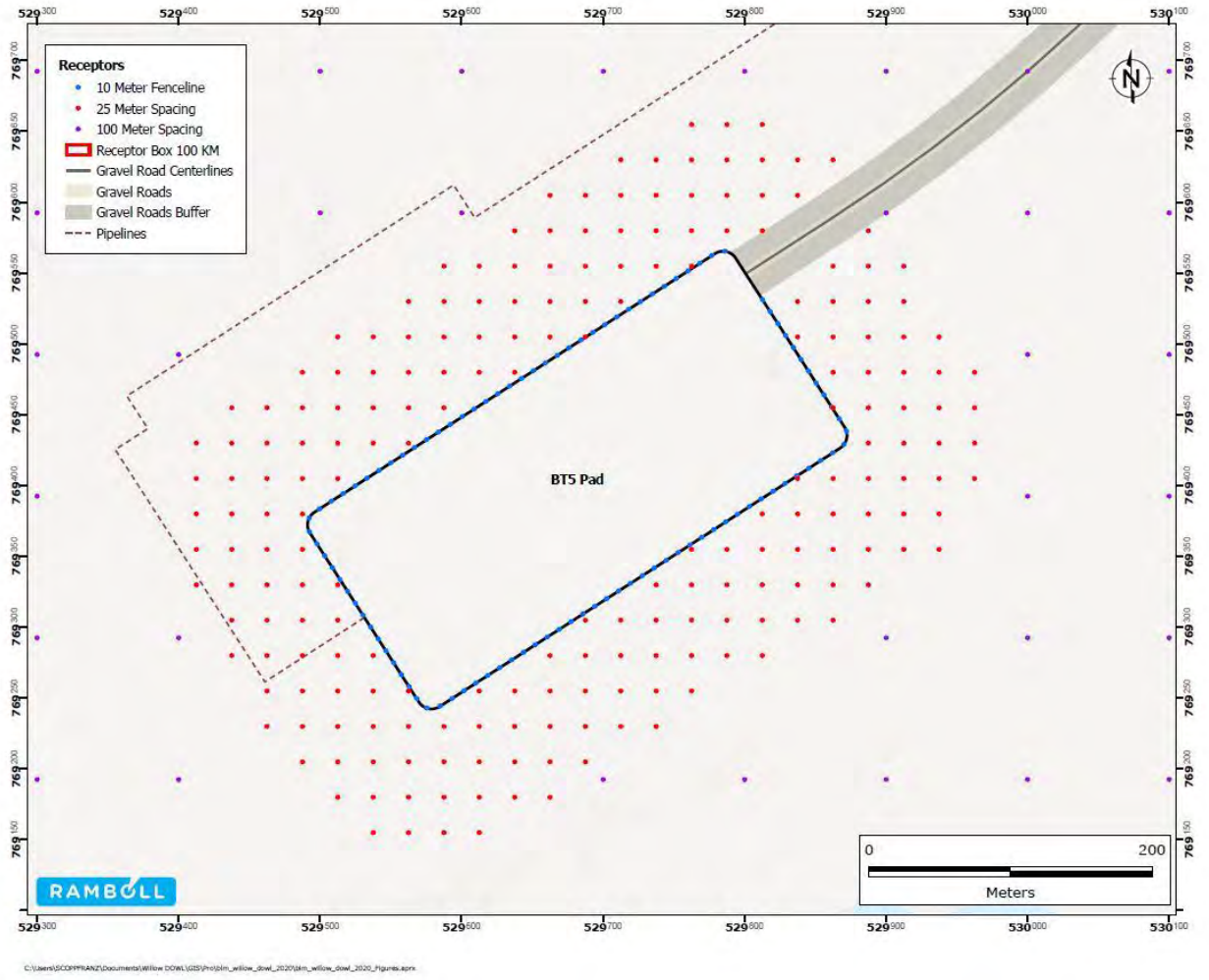


Figure E.3-18. BT5 Operations Receptor Locations – Alternative D (Disconnected Access)

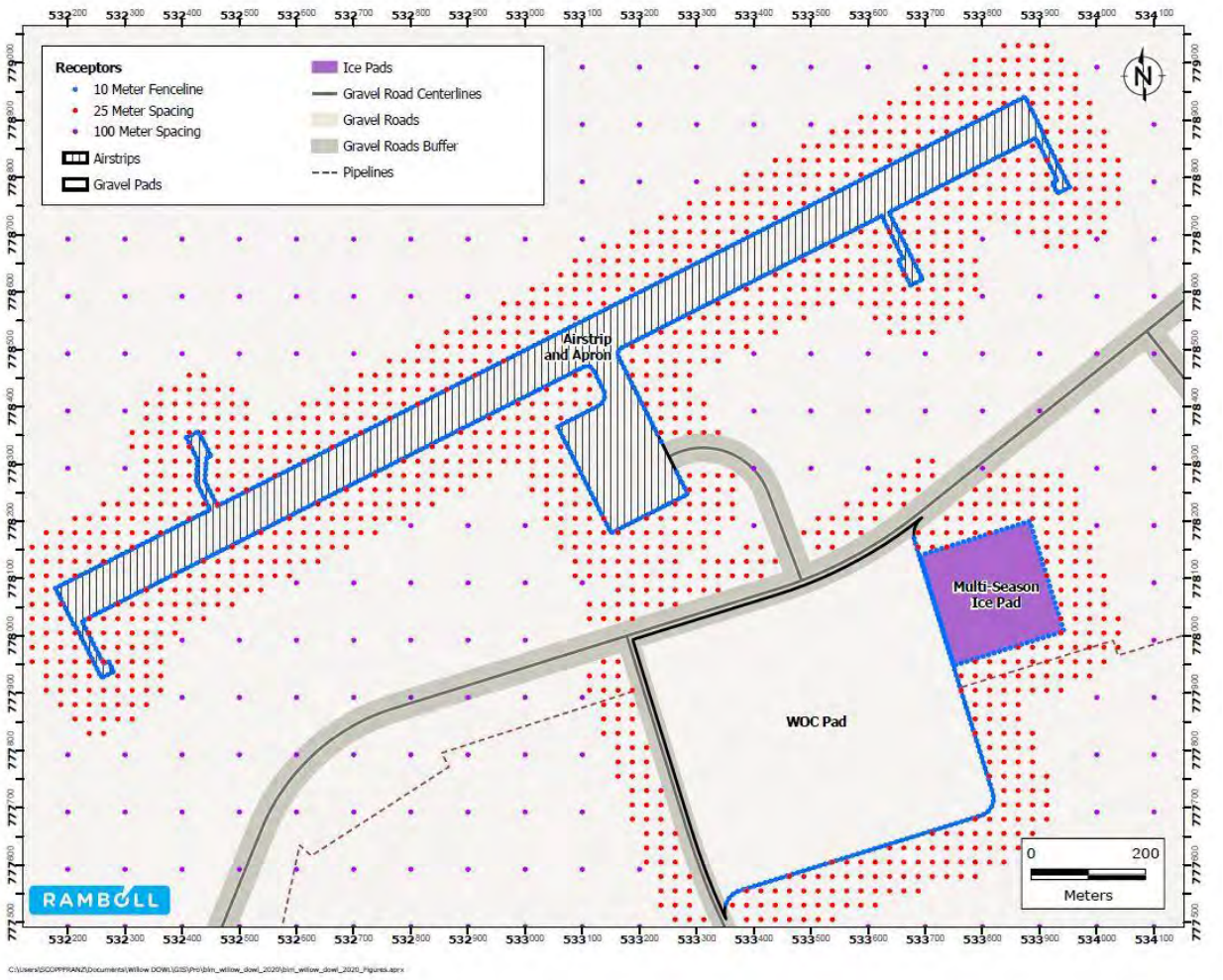


Figure E.3-19. Airstrip Operations Receptor Locations – Alternative D (Disconnected Access)

Attachment F

Module Delivery

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F.1 Module Delivery at Point Lonely

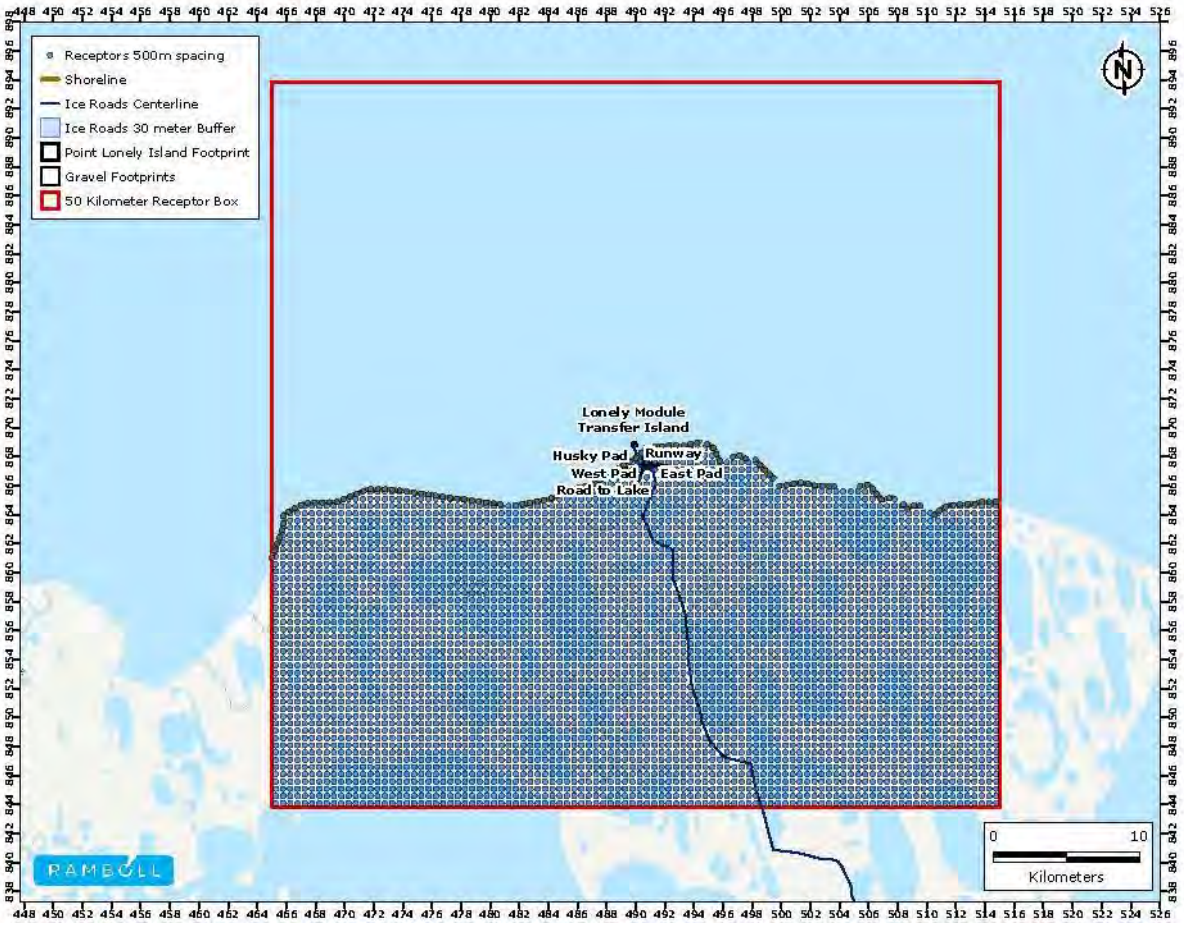


Figure F.1-1. Module Delivery Option 2 Receptor Locations

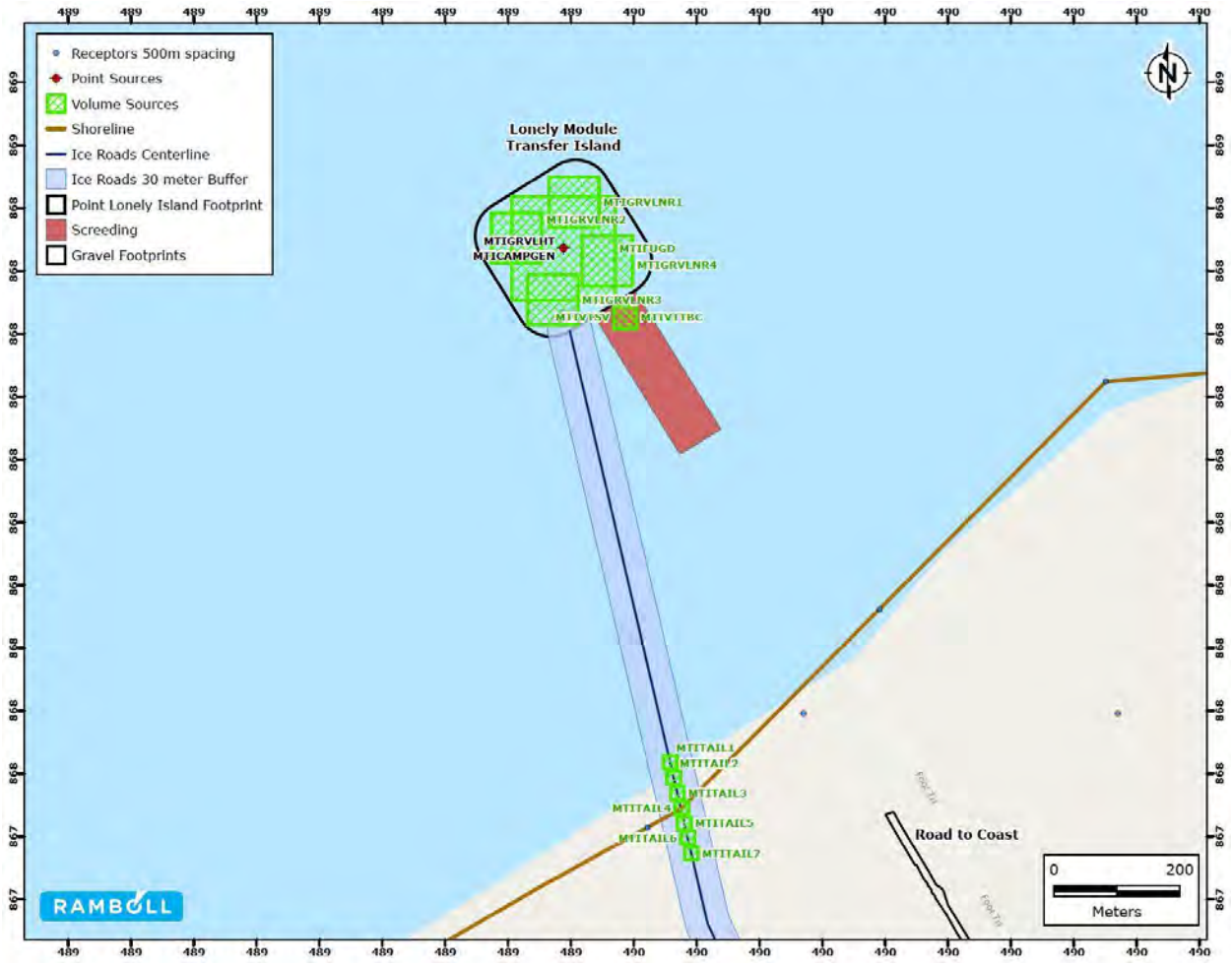


Figure F.1-2. Module Delivery Option 2 Source Locations

Table F.1-1. Module Delivery Option 2 Emissions Source Descriptions and In-Stack NO_2/NO_X Ratios

Source ID	Source Type	Source Description	NO_2/NO_X Ratio
MTICAMPGEN	POINT	Camp Generators - Construction Camp Generators	0.1
MTIGRVLHT	POINT	Gravel Island Construction - Gravel Island	0.05
MTIVTTBC	VOLUME	Vessel Traffic - Tugs & Barges	0.2
MTITAIL1	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15
MTITAIL2	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15
MTITAIL3	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15
MTITAIL4	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15
MTITAIL5	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15
MTITAIL6	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15
MTITAIL7	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15
MTIFUGD	VOLUME	Wind Erosion Fugitive Dust - Wind Erosion	-
MTIVTSV	VOLUME	Vessel Traffic - Support Vessels	0.2

Source ID	Source Type	Source Description	NO_2/NO_X Ratio
MTIGRVLNR1	VOLUME	Gravel Island Construction - Construction Mobile	0.2
MTIGRVLNR2	VOLUME	Gravel Island Construction - Construction Mobile	0.2
MTIGRVLNR3	VOLUME	Gravel Island Construction - Construction Mobile	0.2
MTIGRVLNR4	VOLUME	Gravel Island Construction - Construction Mobile	0.2

Table F.1-2. Module Delivery Option 2 Emissions Stack Parameters

Source ID	Source Type	Release Height (m)	Elevation (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
MTICAMPGEN	POINT	6.10	1.52	0.46	15.10	795.00	-	-
MTIGRVLHT	POINT	12.20	1.25	0.94	5.70	529.00	-	-
MTIVTTBC	VOLUME	3.66	1.52	-	-	-	8.51	10.00
MTITAIL1	VOLUME	3.66	1.52	-	-	-	12.72	3.38
MTITAIL2	VOLUME	3.66	1.52	-	-	-	12.72	3.38
MTITAIL3	VOLUME	3.66	1.52	-	-	-	12.72	3.38
MTITAIL4	VOLUME	3.66	1.52	-	-	-	12.72	3.38
MTITAIL5	VOLUME	3.66	1.52	-	-	-	12.72	3.38
MTITAIL6	VOLUME	3.66	1.52	-	-	-	12.72	3.38
MTITAIL7	VOLUME	3.66	1.52	-	-	-	12.72	3.38
MTIFUGD	VOLUME	3.66	1.52	-	-	-	41.86	3.38
MTIVTSV	VOLUME	3.66	1.52	-	-	-	8.51	10.00
MTIGRVLNR1	VOLUME	3.66	1.52	-	-	-	18.60	3.38
MTIGRVLNR2	VOLUME	3.66	1.52	-	-	-	18.60	3.38
MTIGRVLNR3	VOLUME	3.66	1.52	-	-	-	18.60	3.38
MTIGRVLNR4	VOLUME	3.66	1.52	-	-	-	18.60	3.38

Table F.1-3. Module Delivery Option 2 Emissions Rates (g/s)

Source ID	CO	NOx	NOx	PM_{10}	$PM_{2.5}$	$PM_{2.5}$	SO_2	SO_2	Annual Hours
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr, 3-hr, and 24-hr	Annual[1]	
MTICAMPGEN	4.09E-01	4.67E-01	5.34E-02	2.34E-02	2.34E-02	2.67E-03	7.79E-04	8.89E-05	500
MTIGRVLHT	1.64E-02	6.57E-02	2.16E-02	7.82E-03	7.00E-03	2.30E-03	7.00E-04	2.30E-04	1440
MTIVTTBC	3.89E-01	1.91E-01	7.63E-01	4.83E-02	4.68E-02	4.68E-02	5.06E-04	5.06E-04	8760
MTITAIL1	9.11E-04	7.67E-04	7.67E-04	1.03E-04	3.84E-05	3.84E-05	3.41E-06	3.41E-06	VARIES
MTITAIL2	9.11E-04	7.67E-04	7.67E-04	1.03E-04	3.84E-05	3.84E-05	3.41E-06	3.41E-06	VARIES
MTITAIL3	9.11E-04	7.67E-04	7.67E-04	1.03E-04	3.84E-05	3.84E-05	3.41E-06	3.41E-06	VARIES
MTITAIL4	9.11E-04	7.67E-04	7.67E-04	1.03E-04	3.84E-05	3.84E-05	3.41E-06	3.41E-06	VARIES
MTITAIL5	9.11E-04	7.67E-04	7.67E-04	1.03E-04	3.84E-05	3.84E-05	3.41E-06	3.41E-06	VARIES
MTITAIL6	9.11E-04	7.67E-04	7.67E-04	1.03E-04	3.84E-05	3.84E-05	3.41E-06	3.41E-06	VARIES
MTITAIL7	9.11E-04	7.67E-04	7.67E-04	1.03E-04	3.84E-05	3.84E-05	3.41E-06	3.41E-06	VARIES
MTIFUGD	0.00E+00	0.00E+00	0.00E+00	1.46E-02	2.19E-03	2.19E-03	0.00E+00	0.00E+00	4380

Source ID	CO	NOx	NOx	PM_{10}	$PM_{2.5}$	$PM_{2.5}$	SO_2	SO_2	Annual Hours
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr, 3-hr, and 24-hr	Annual[1]	
MTIVTSV	3.61E-02	7.07E-02	7.07E-02	4.47E-03	4.34E-03	4.34E-03	4.69E-05	4.69E-05	VARIES
MTIGRVLNR1	1.53E-01	3.54E-01	1.10E-01	2.06E-02	2.00E-02	6.21E-03	8.13E-04	2.53E-04	VARIES
MTIGRVLNR2	1.53E-01	3.54E-01	1.10E-01	2.06E-02	2.00E-02	6.21E-03	8.13E-04	2.53E-04	VARIES
MTIGRVLNR3	1.53E-01	3.54E-01	1.10E-01	2.06E-02	2.00E-02	6.21E-03	8.13E-04	2.53E-04	VARIES
MTIGRVLNR4	1.53E-01	3.54E-01	1.10E-01	2.06E-02	2.00E-02	6.21E-03	8.13E-04	2.53E-04	VARIES

[1] - Annual emission rate calculations are based on the daily operating hours specified in the emissions inventory. If actual daily operating hour timeframes were not specified, 8760 hours were assumed.

F.2 Module Delivery at Oliktok Dock (Ocean Point Crossing Option)

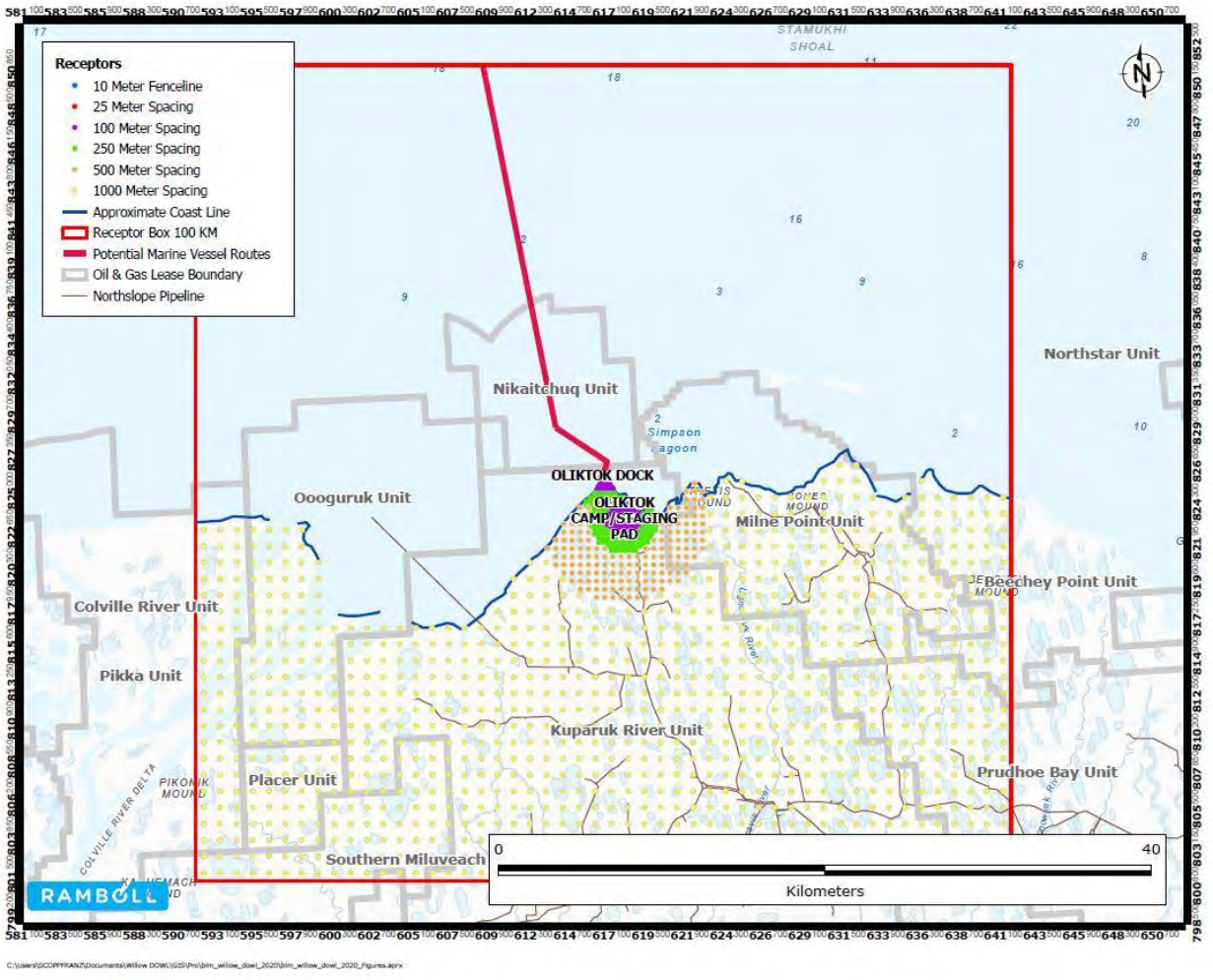


Figure F.2-1. Overview of Module Delivery at Oliktok Dock Receptor Locations

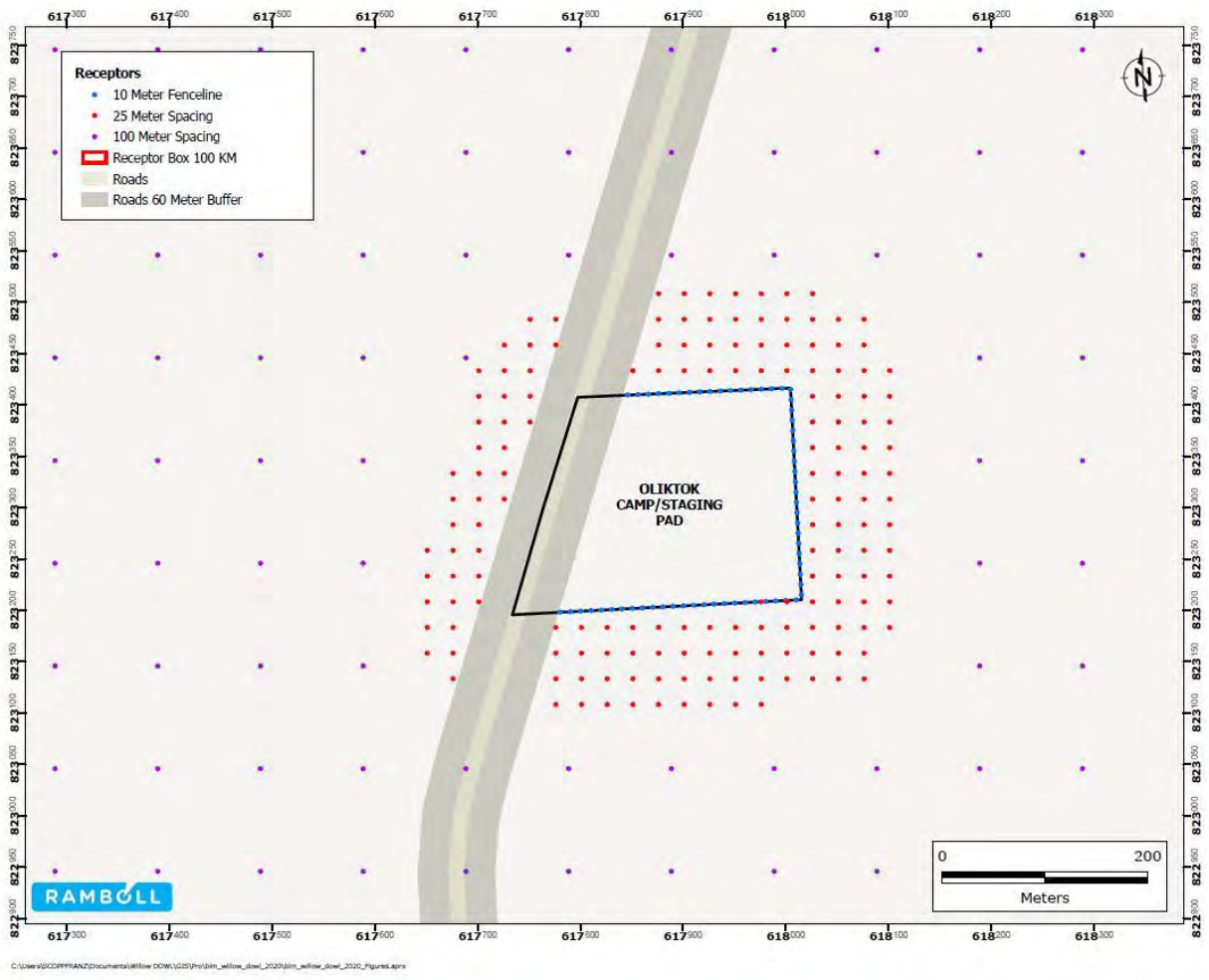


Figure F.2-2. Module Delivery at Oliktok Camp (gravel staging pad) Receptor Locations

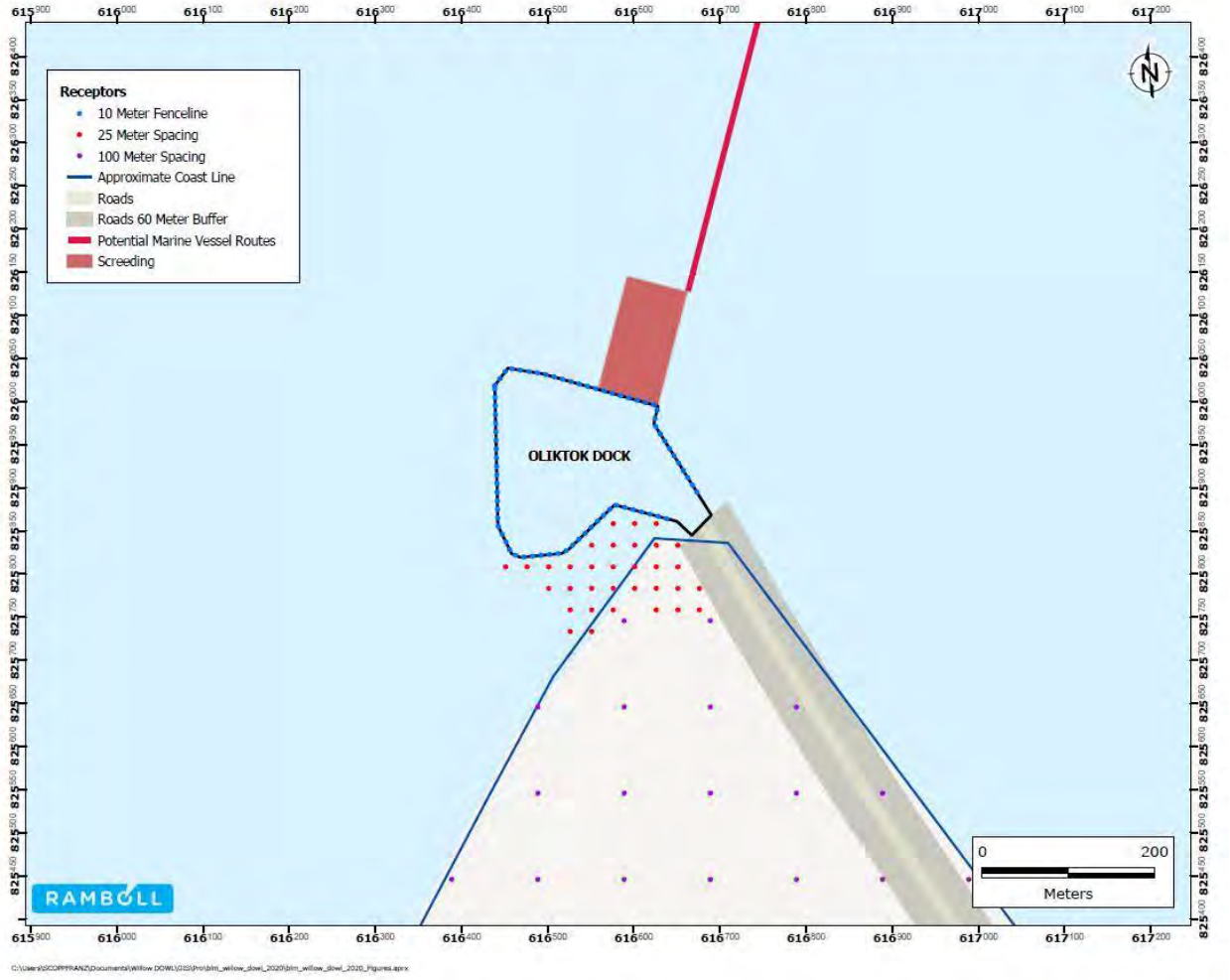


Figure F.2-3. Module Delivery at Oliktok Dock Receptor Locations

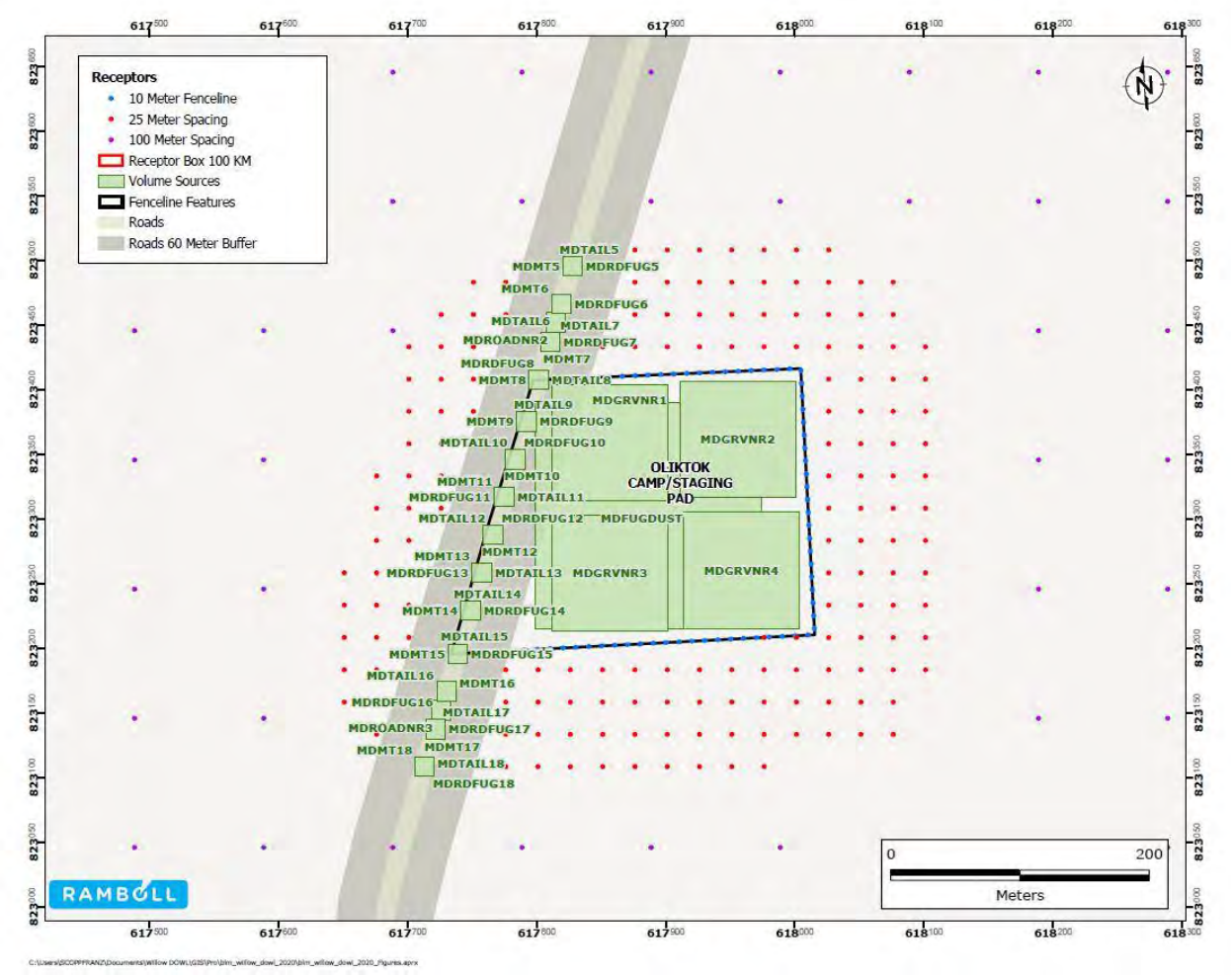


Figure F.2-4. Module Delivery at Oliktok Camp (gravel staging pad) Receptor and Source Locations

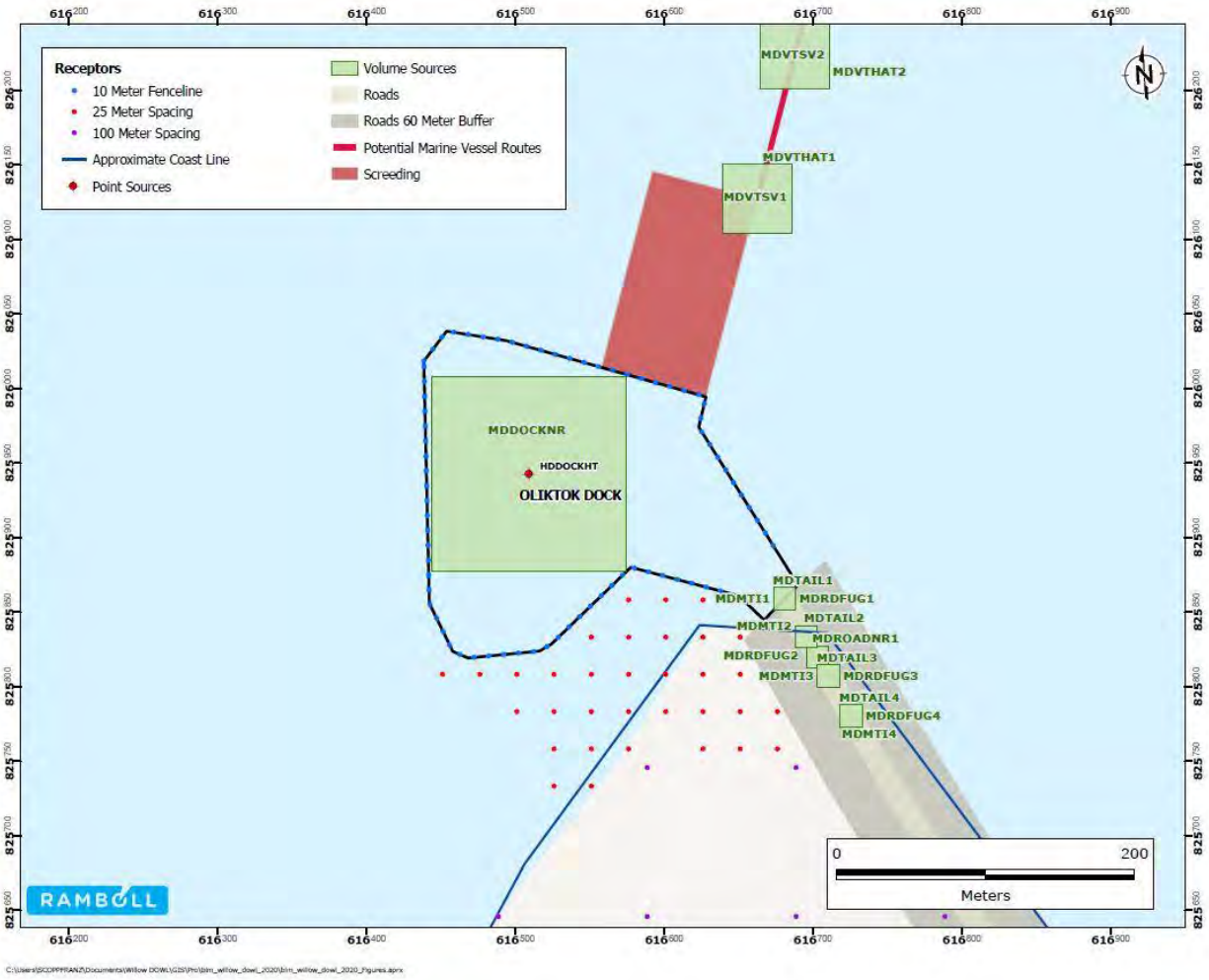


Figure F.2-5. Module Delivery at Oliktok Dock Receptor and Source Locations

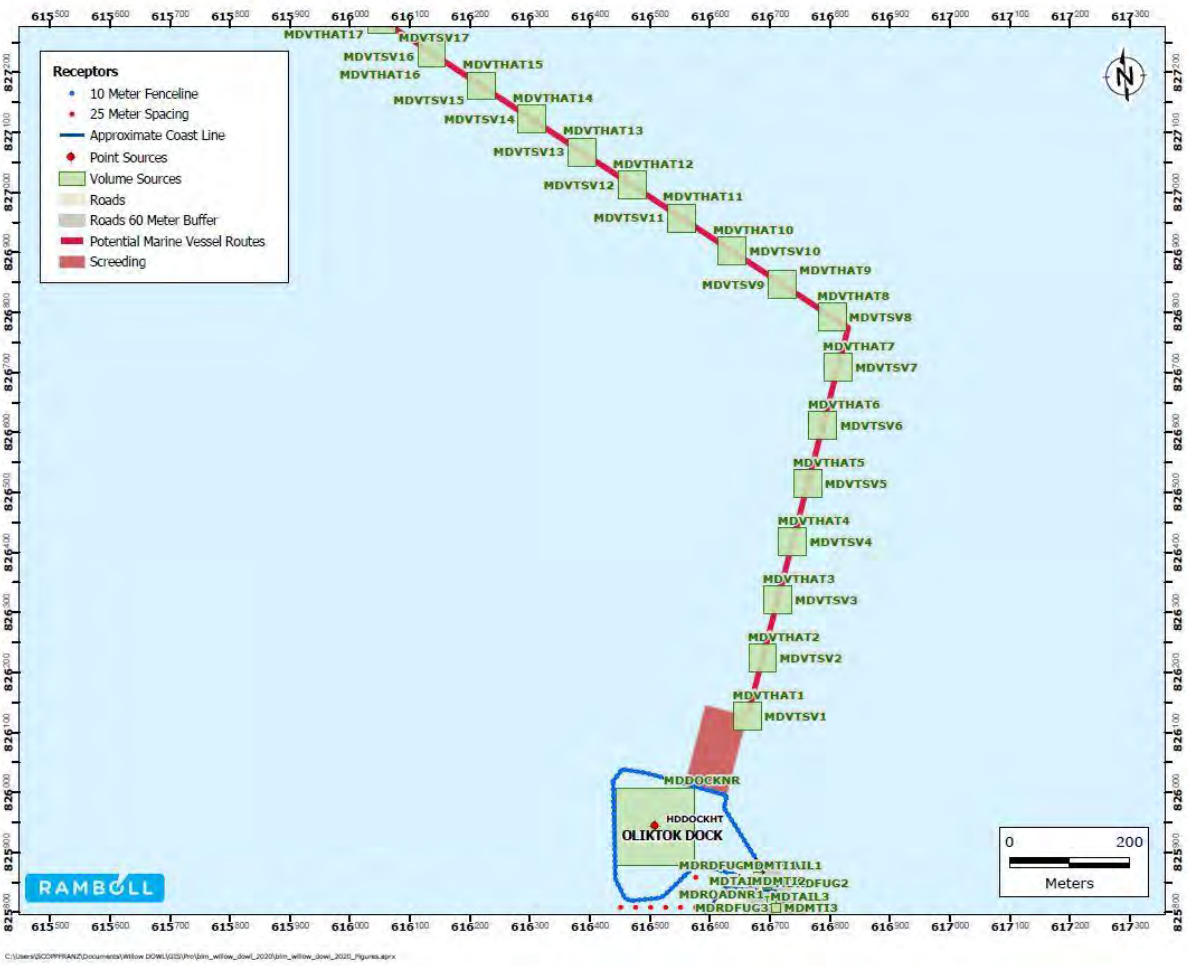


Figure F.2-6. Module Delivery of the Vessel Route Source Locations-1

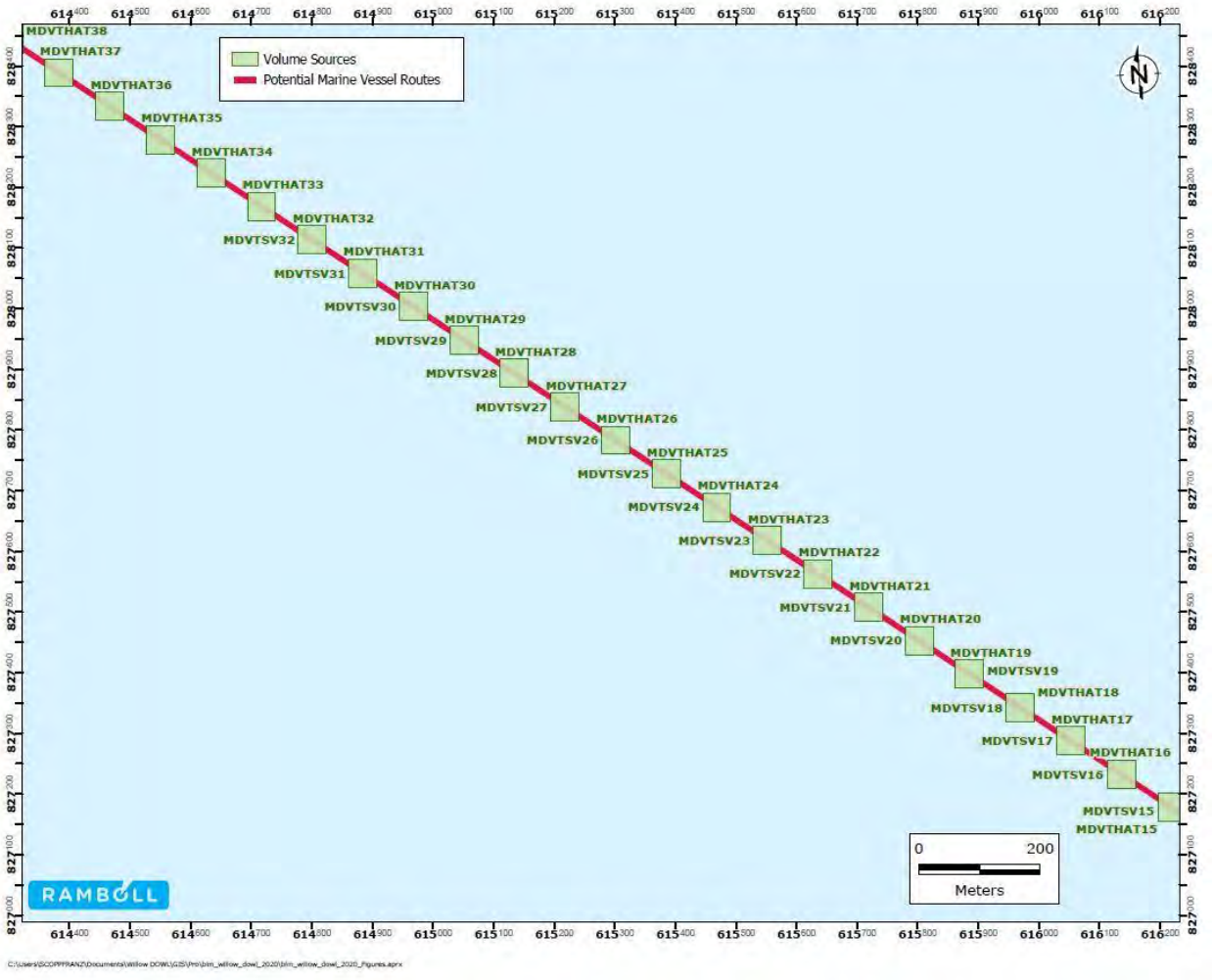


Figure F.2-7. Module Delivery of the Vessel Route Source Locations-2

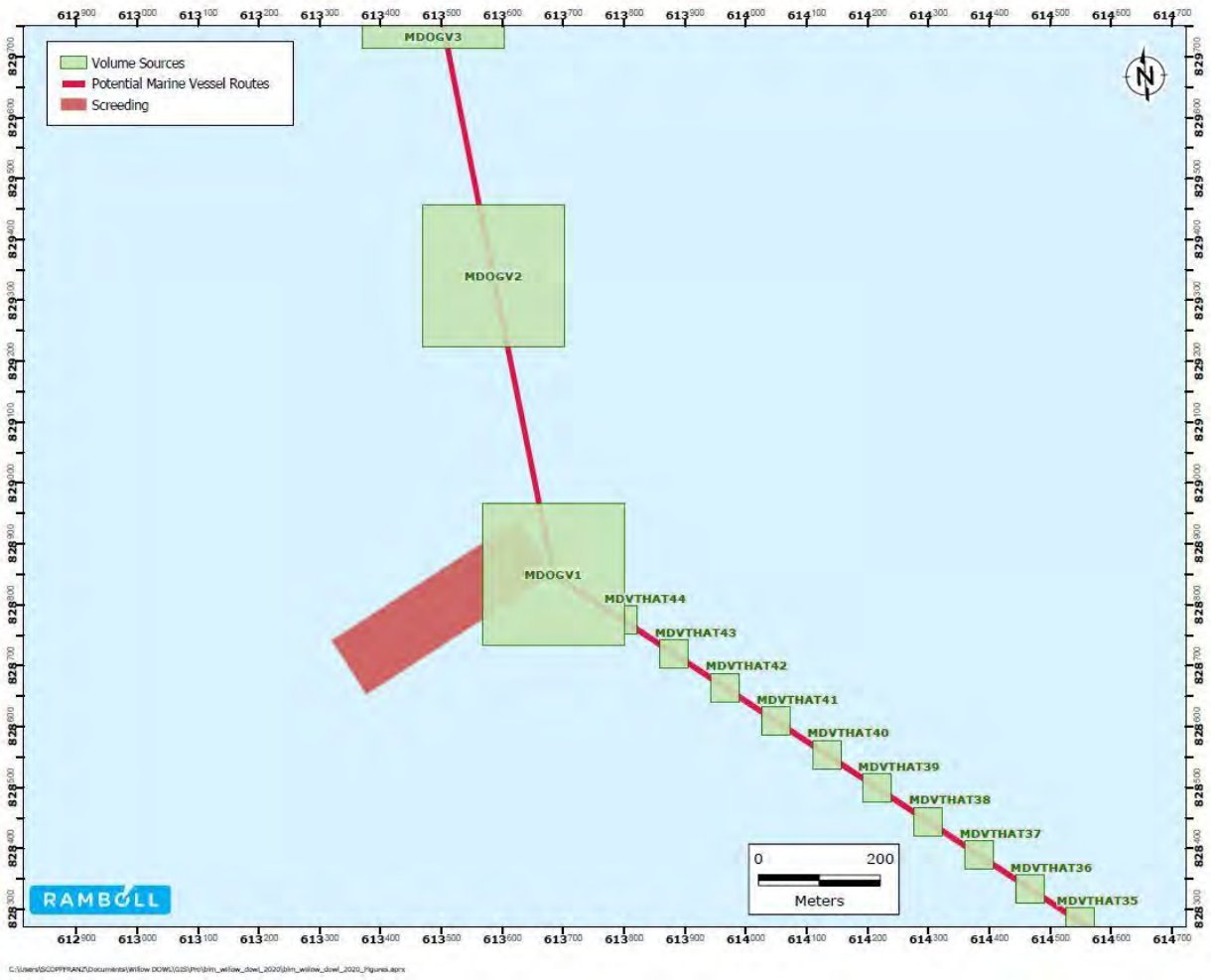


Figure F.2-8. Module Delivery of the Vessel Route Source Locations-3

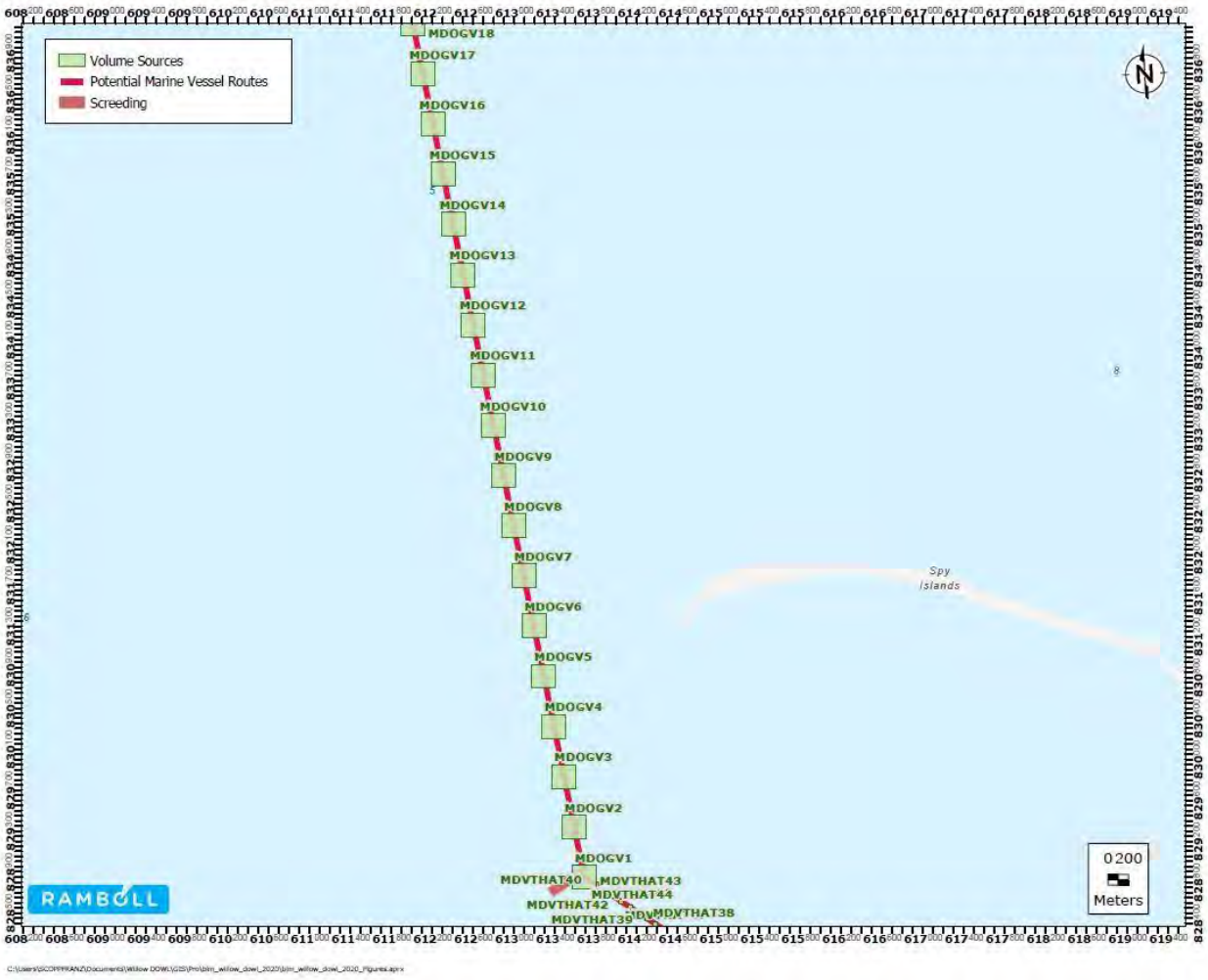


Figure F.2-9. Module Delivery of the Vessel Route Source Locations-4

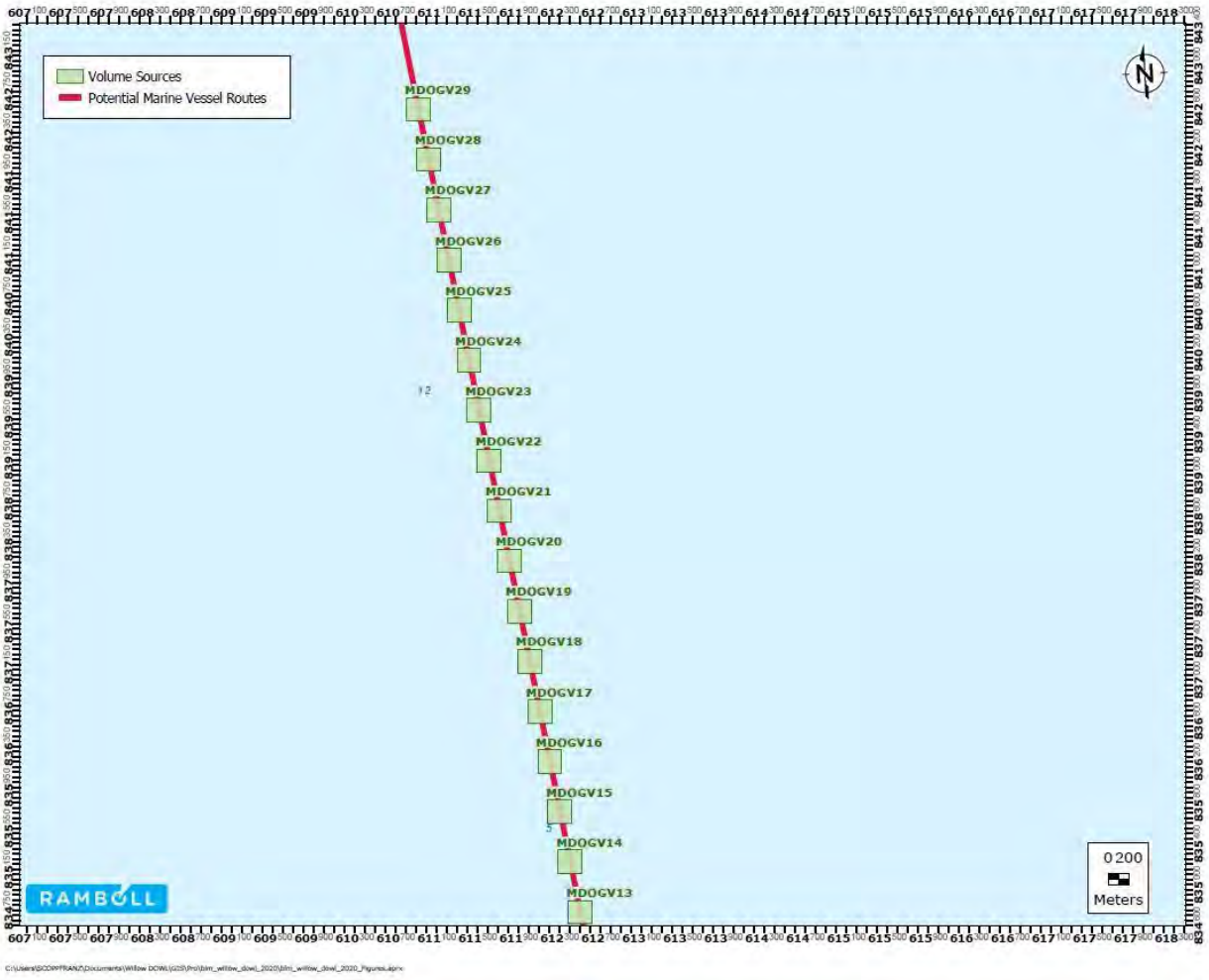


Figure F.2-10. Module Delivery of the Vessel Route Source Locations-5

Table F.2-1. Module Delivery Option 3 Emissions Source Descriptions and In-Stack NO_2/NO_X Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
MDDOCKHT	POINT	Dock Construction - Heater	0.05	Diesel fueled heaters and boiler
MDDOCKNR	VOLUME	Dock Construction Non-road Equipment	0.2	Diesel tailpipe from non-road equipment
MDTAIL1	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL2	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL3	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL4	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL5	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL6	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL7	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL8	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL9	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL10	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL11	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL12	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL13	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL14	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL15	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL16	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL17	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDTAIL18	VOLUME	Mobile Equipment Tailpipe - Operations Mobile	0.15	Diesel tailpipe from on-road vehicles
MDRDFUG1	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG2	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG3	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG4	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG5	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG6	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG7	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG8	VOLUME	Fugitive Road Dust - Construction and Operations	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
MDRDFUG9	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG10	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG11	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG12	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG13	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG14	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG15	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG16	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG17	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDRDFUG18	VOLUME	Fugitive Road Dust - Construction and Operations	-	-
MDMT1	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT2	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT3	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT4	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT5	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT6	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT7	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT8	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT9	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT10	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT11	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT12	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT13	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT14	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT15	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT16	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT17	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDMT18	VOLUME	Mobile Equipment Tailpipe - Module Transport	0.15	Diesel tailpipe from on-road vehicles
MDGRVNR1	VOLUME	Gravel Staging Pad Construction Non-road Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
MDGRVNR2	VOLUME	Gravel Staging Pad Construction Non-road Equipment	0.2	Diesel tailpipe from non-road equipment
MDGRVNR3	VOLUME	Gravel Staging Pad Construction Non-road Equipment	0.2	Diesel tailpipe from non-road equipment
MDGRVNR4	VOLUME	Gravel Staging Pad Construction Non-road Equipment	0.2	Diesel tailpipe from non-road equipment
MDROADNR1	VOLUME	Gravel Road Construction Non-road Equipment	0.2	Diesel tailpipe from non-road equipment
MDROADNR2	VOLUME	Gravel Road Construction Non-road Equipment	0.2	Diesel tailpipe from non-road equipment
MDROADNR3	VOLUME	Gravel Road Construction Non-road Equipment	0.2	Diesel tailpipe from non-road equipment
MDFUGDUST	VOLUME	Gravel Staging Pad Fugitive Dust - Wind Erosion	-	-
MDVTHAT1	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT2	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT3	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT4	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT5	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT6	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT7	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT8	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT9	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT10	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT11	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT12	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT13	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT14	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT15	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT16	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT17	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT18	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT19	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT20	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT21	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT22	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT23	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT24	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT25	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT26	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT27	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
MDVTHAT28	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT29	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT30	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT31	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT32	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT33	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT34	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT35	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT36	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT37	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT38	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT39	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT40	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT41	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT42	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT43	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT44	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTHAT45	VOLUME	Vessel Traffic - Harbor Assist Tugs	0.2	Diesel tailpipe from vessels
MDVTSV1	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV2	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV3	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV4	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV5	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV6	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV7	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV8	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV9	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV10	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV11	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV12	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV13	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV14	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV15	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV16	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV17	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
MDVTSV18	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV19	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV20	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV21	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV22	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV23	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV24	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV25	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV26	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV27	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV28	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV29	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV30	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV31	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDVTSV32	VOLUME	Vessel Traffic - Support Vessels	0.2	Diesel tailpipe from vessels
MDOGV1	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV2	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV3	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV4	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV5	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV6	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV7	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV8	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV9	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV10	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV11	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV12	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV13	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV14	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV15	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV16	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV17	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV18	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV19	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV20	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
MDOGV21	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV22	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV23	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV24	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV25	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV26	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV27	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV28	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels
MDOGV29	VOLUME	Vessel Traffic - Ocean-going Vessels	0.2	Diesel tailpipe from vessels

Table F.2-2. Module Delivery Option 3 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
MDDOCKHT	POINT	0	12.2	0.94	5.7	529	-	-	-	-	-
MDDOCKNR	VOLUME	0	3.66	-	-	-	30.23256	3.38	-	-	-
MDTAIL1	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL2	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL3	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL4	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL5	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL6	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL7	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL8	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL9	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL10	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL11	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL12	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL13	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL14	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL15	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL16	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL17	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDTAIL18	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
MDRDFUG1	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG2	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG3	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG4	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG5	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG6	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG7	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG8	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG9	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG10	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG11	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG12	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG13	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG14	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG15	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG16	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG17	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDRDFUG18	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT1	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT2	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT3	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT4	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT5	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT6	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT7	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT8	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT9	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT10	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT11	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT12	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT13	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT14	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT15	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT16	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDMT17	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
MDMT18	VOLUME	1.52	3.66	-	-	-	6.976744	3.38	-	-	-
MDGRVNR1	VOLUME	1.52	3.66	-	-	-	20.93023	3.38	-	-	-
MDGRVNR2	VOLUME	1.52	3.66	-	-	-	20.93023	3.38	-	-	-
MDGRVNR3	VOLUME	1.52	3.66	-	-	-	20.93023	3.38	-	-	-
MDGRVNR4	VOLUME	1.52	3.66	-	-	-	20.93023	3.38	-	-	-
MDROADNR1	VOLUME	1.52	3.66	-	-	-	3.488372	3.38	-	-	-
MDROADNR2	VOLUME	1.52	3.66	-	-	-	3.488372	3.38	-	-	-
MDROADNR3	VOLUME	1.52	3.66	-	-	-	3.488372	3.38	-	-	-
MDFUGDUST	VOLUME	1.52	3.66	-	-	-	40.69767	3.38	-	-	-
MDVTHAT1	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT2	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT3	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT4	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT5	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT6	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT7	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT8	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT9	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT10	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT11	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT12	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT13	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT14	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT15	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT16	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT17	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT18	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT19	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT20	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT21	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT22	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT23	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT24	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT25	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT26	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
MDVTHAT27	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT28	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT29	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT30	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT31	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT32	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT33	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT34	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT35	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT36	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT37	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT38	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT39	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT40	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT41	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT42	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT43	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT44	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTHAT45	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV1	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV2	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV3	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV4	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV5	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV6	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV7	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV8	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV9	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV10	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV11	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV12	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV13	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV14	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV15	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV16	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
MDVTSV17	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV18	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV19	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV20	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV21	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV22	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV23	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV24	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV25	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV26	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV27	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV28	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV29	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV30	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV31	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDVTSV32	VOLUME	0	15.2	-	-	-	46.51163	3.534884	-	-	-
MDOGV1	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV2	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV3	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV4	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV5	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV6	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV7	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV8	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV9	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV10	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV11	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV12	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV13	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV14	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV15	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV16	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV17	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV18	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV19	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)	Initial X (m)	Initial Y (m)	Initial Z (m)
MDOGV20	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV21	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV22	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV23	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV24	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV25	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV26	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV27	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV28	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-
MDOGV29	VOLUME	0	49.1	-	-	-	232.5581	11.4186	-	-	-

Table F.2-3. Module Delivery Option 3 Emissions Rates (g/s)

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MDDOCKHT	5.48E-03	2.19E-02	7.20E-03	2.61E-03	2.33E-03	7.67E-04	2.33E-04	2.33E-04	7.67E-05	720
MDDOCKNR	1.10E-01	2.89E-01	7.12E-02	1.58E-02	1.53E-02	3.78E-03	7.28E-04	7.28E-04	1.79E-04	540
MDTAIL1	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL2	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL3	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL4	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL5	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL6	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL7	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL8	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL9	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL10	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL11	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL12	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL13	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL14	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL15	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL16	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL17	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650
MDTAIL18	9.94E-04	1.44E-03	1.44E-03	1.17E-04	7.58E-05	7.58E-05	4.79E-06	4.79E-06	4.79E-06	3650

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MDRDFUG1	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG2	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG3	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG4	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG5	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG6	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG7	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG8	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG9	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG10	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG11	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG12	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG13	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG14	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG15	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG16	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG17	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDRDFUG18	0.00E+00	0.00E+00	0.00E+00	4.08E-03	3.83E-04	3.83E-04	0.00E+00	0.00E+00	0.00E+00	2190
MDMT1	1.82E-03	4.72E-03	4.63E-07	2.46E-04	2.39E-04	2.34E-08	1.42E-05	1.42E-05	1.39E-09	14.4
MDMT2	1.82E-03	4.72E-03	4.63E-07	2.46E-04	2.39E-04	2.34E-08	1.42E-05	1.42E-05	1.39E-09	14.4
MDMT3	1.82E-03	4.72E-03	4.63E-07	2.46E-04	2.39E-04	2.34E-08	1.42E-05	1.42E-05	1.39E-09	14.4
MDMT4	1.82E-03	4.72E-03	4.63E-07	2.46E-04	2.39E-04	2.34E-08	1.42E-05	1.42E-05	1.39E-09	14.4
MDMT5	1.82E-03	4.72E-03	4.63E-07	2.46E-04	2.39E-04	2.34E-08	1.42E-05	1.42E-05	1.39E-09	14.4
MDMT6	1.82E-03	4.72E-03	4.63E-07	2.46E-04	2.39E-04	2.34E-08	1.42E-05	1.42E-05	1.39E-09	14.4
MDMT7	1.82E-03	4.72E-03	4.63E-07	2.46E-04	2.39E-04	2.34E-08	1.42E-05	1.42E-05	1.39E-09	14.4
MDMT8	1.82E-03	4.72E-03	4.63E-07	2.46E-04	2.39E-04	2.34E-08	1.42E-05	1.42E-05	1.39E-09	14.4
MDMT9	1.82E-03	4.72E-03	4.63E-07	2.46E-04	2.39E-04	2.34E-08	1.42E-05	1.42E-05	1.39E-09	14.4
MDMT10	1.82E-03	4.72E-03	4.63E-07	2.46E-04	2.39E-04	2.34E-08	1.42E-05	1.42E-05	1.39E-09	14.4
MDMT11	1.82E-03	4.72E-03	4.63E-07	2.46E-04	2.39E-04	2.34E-08	1.42E-05	1.42E-05	1.39E-09	14.4
MDMT12	2.86E-03	7.41E-03	2.34E-05	3.87E-04	3.75E-04	1.18E-06	2.23E-05	2.23E-05	7.02E-08	677.52
MDMT13	2.86E-03	7.41E-03	2.34E-05	3.87E-04	3.75E-04	1.18E-06	2.23E-05	2.23E-05	7.02E-08	677.52
MDMT14	2.86E-03	7.41E-03	2.34E-05	3.87E-04	3.75E-04	1.18E-06	2.23E-05	2.23E-05	7.02E-08	677.52
MDMT15	2.86E-03	7.41E-03	2.34E-05	3.87E-04	3.75E-04	1.18E-06	2.23E-05	2.23E-05	7.02E-08	677.52
MDMT16	2.86E-03	7.41E-03	2.34E-05	3.87E-04	3.75E-04	1.18E-06	2.23E-05	2.23E-05	7.02E-08	677.52
MDMT17	2.86E-03	7.41E-03	2.34E-05	3.87E-04	3.75E-04	1.18E-06	2.23E-05	2.23E-05	7.02E-08	677.52
MDMT18	2.86E-03	7.41E-03	2.34E-05	3.87E-04	3.75E-04	1.18E-06	2.23E-05	2.23E-05	7.02E-08	677.52
MDGRVNR1	5.17E-02	1.17E-01	3.83E-02	6.94E-03	6.74E-03	2.21E-03	2.48E-04	2.48E-04	8.16E-05	720

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MDGRVNR2	5.17E-02	1.17E-01	3.83E-02	6.94E-03	6.74E-03	2.21E-03	2.48E-04	2.48E-04	8.16E-05	720
MDGRVNR3	5.17E-02	1.17E-01	3.83E-02	6.94E-03	6.74E-03	2.21E-03	2.48E-04	2.48E-04	8.16E-05	720
MDGRVNR4	5.17E-02	1.17E-01	3.83E-02	6.94E-03	6.74E-03	2.21E-03	2.48E-04	2.48E-04	8.16E-05	720
MDROADNR1	4.74E-04	1.07E-03	3.51E-04	6.37E-05	6.18E-05	2.03E-05	2.27E-06	2.27E-06	1.07E-03	720
MDROADNR2	4.74E-04	1.07E-03	3.51E-04	6.37E-05	6.18E-05	2.03E-05	2.03E-05	2.03E-05	1.07E-03	720
MDROADNR3	5.58E-04	1.26E-03	4.13E-04	7.49E-05	7.27E-05	2.39E-05	2.39E-05	2.39E-05	1.26E-03	720
MDFUGDUST	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	2920
MDVTHAT1	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT2	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT3	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT4	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT5	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT6	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT7	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT8	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT9	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT10	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT11	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT12	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT13	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT14	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT15	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT16	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT17	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT18	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT19	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT20	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT21	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT22	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT23	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT24	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT25	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT26	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT27	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT28	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT29	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT30	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MDVTHAT31	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT32	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT33	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT34	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT35	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT36	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT37	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT38	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT39	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT40	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT41	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT42	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT43	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT44	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTHAT45	1.24E-04	2.44E-04	2.44E-04	1.54E-05	1.50E-05	1.50E-05	1.62E-07	1.62E-07	1.62E-07	730
MDVTSV1	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV2	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV3	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV4	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV5	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV6	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV7	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV8	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV9	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV10	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV11	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV12	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV13	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV14	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV15	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV16	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV17	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV18	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV19	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV20	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV21	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV22	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MDVTSV23	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV24	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV25	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV26	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV27	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV28	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV29	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV30	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV31	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDVTSV32	1.75E-04	3.43E-04	3.43E-04	2.17E-05	2.10E-05	2.10E-05	2.27E-07	2.27E-07	2.27E-07	730
MDOGV1	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV2	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV3	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV4	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV5	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV6	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV7	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV8	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV9	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV10	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV11	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV12	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV13	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV14	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV15	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV16	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV17	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV18	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV19	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV20	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV21	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV22	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV23	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV24	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV25	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV26	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV27	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MDOGV28	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730
MDOGV29	2.02E-03	2.42E-02	2.42E-02	5.68E-04	5.31E-04	5.31E-04	3.63E-03	3.63E-03	3.63E-03	730

[1] Annual emission rate calculations are based on the number of actual daily operating hours provided in the EI. If actual daily operating hour timeframes were not known, 8760 hours were assumed.

Attachment G

Willow Development Emissions Inventory Report Alternative E

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WILLOW DEVELOPMENT

ALTERNATIVE E
EMISSIONS INVENTORY REPORT

Prepared for:

ConocoPhillips Alaska, Inc.

February 2022

global **environmental** and **advisory** solutions

SLR

ALTERNATIVE E
EMISSIONS INVENTORY REPORT

Prepared for:
ConocoPhillips Alaska, Inc.
700 G Street
Anchorage, AK 99510

This document has been prepared by SLR International Corporation (SLR). The material and data in this report were prepared under the supervision and direction of the undersigned.



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Associate Scientist

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1. INTRODUCTION AND PURPOSE

ConocoPhillips Alaska, Inc. (CPAI), as operator and working interest owner, proposes to develop hydrocarbon resources from federal oil and gas leases in the Northeast Planning Area of the National Petroleum Reserve-Alaska (NPR-A). The Willow Master Development Plan (MDP) addresses a series of infrastructure components that would be constructed over an approximately eight-year period for the purpose of oil and gas development in the NPR-A. The Willow MDP area (Plan Area) is located on the North Slope of Alaska, in the northeast section of the NPR-A. Most of the proposed facilities associated with the Willow MDP are on leased federal lands, and the proposed drillsites are in the Bear Tooth Unit (BTU). See CPAI's Willow MDP Environmental Evaluation Document (EED) (CPAI 2021) for additional information on the location of the proposed project.

Supporting infrastructure would be located in the Greater Mooses Tooth Unit (GMTU), on un-unitized lands within the NPR-A, on lands owned by the Kuukpik Corporation, the Alaska Native Claims Settlement Act (ANCSA) village corporation for Nuiqsut, and on lands owned and managed by the State of Alaska. A proposed road corridor providing access to the Plan Area would tie into the access road in the GMTU to the east. Proposed pipelines would tie into existing pipeline infrastructure at a tie-in pad near Colville Delta 4 North (CD4N), the Alpine Central Facility (ACF), and the Kuparuk River Unit Central Processing Facility 2 (CPF2). Proposed pipelines cross lands owned by Kuukpik Corporation and the State of Alaska. Large modules are proposed to be transported via sealift barge to Oliktok Dock (Option 3), via gravel road to Drill Site 2P (DS2P), and via heavy-haul ice road west across the Colville River to the Willow access road just west of the Greater Mooses Tooth 2 Drill Site (GMT2). A gravel site is proposed on federally managed lands within the GMTU and in un-unitized lands. None of the proposed Willow facilities would be located on Native allotments or private land, except that the pipelines would use existing pipeline corridors, some of which are on private land.

CPAI's purpose for the Willow Development is the economic production and transportation to market of oil and gas resources from the BTU, while protecting important surface resources and ensuring safe operations. The Willow Development would produce multiphase product (oil, gas, and water) that would be carried by pipeline to new processing facilities at the Willow Central Processing Facility (WCF). Sales quality crude oil produced at the WCF would be transported to a tie-in pad near CD4N at Alpine, where it would tie into the existing Alpine Sales Oil Pipeline. From the tie in point, it would be transported to the Kuparuk Pipeline and to the Trans-Alaska Pipeline System (TAPS) for shipment to market (see CPAI's Willow MDP EED for a depiction of the proposed pipeline system).

2. ALTERNATIVE DESCRIPTION

Alternative E includes four drillsite locations necessary to economically develop Plan Area oil resources, a WCF, a Willow Operations Center (WOC) containing project support facilities, and an airstrip with an apron. Access to the Plan Area from GMTU and to proposed drillsites from the WCF and the WOC would be via gravel roads and would include six bridge crossings. Access to the Plan Area would also be provided by air using fixed wing aircraft and helicopters and a Plan Area airstrip near the WOC, and, during construction, by ice road. The proposed project includes module delivery via sealift barge to the existing Oliktok Dock and staged mobilization of modules to the Plan Area by existing gravel roads and ice roads.

The proposed project includes infield pipelines to transport produced fluids from drillsites to the WCF and an oil export pipeline, the Willow Pipeline, to transport sales-quality crude oil from the WCF to a tie-in point with the Alpine Pipeline near CD4N. Other support pipelines include a seawater, and diesel pipeline. Gravel valve pads would be constructed at pipeline crossing locations over Judy Creek and Fish Creek. All pipelines would be parallel to proposed or existing gravel roads.

The proposed project also includes development of a new gravel mine in the Tiŋmiaqsiuġvik Area to support project construction. An overview and graphical depiction of the proposed project including road routing, pad locations, gravel mine site, and dock location is provided in the Willow MDP EED.

2.1 CONSTRUCTION

CPAI proposes to construct the Willow Development on an eight-year construction schedule. This eight-year period will include construction of four drillsites, the WCF, WOC, airstrip, gravel access roads, pipelines, communications facilities, living quarters, and other infrastructure to support long-term operations. CPAI will also construct and operate temporary facilities including a gravel mine, seasonal ice roads, single season and multi season ice pads, and temporary camp facilities for worker housing to support construction activities, as well as making infrastructure improvements at Oliktok Dock, staging areas, and roads for module delivery and transport under Option 3.

2.1.1 GRAVEL SOURCING

A total of approximately 4.7 million cubic yards of material will be required to fill approximately 429 surface acres within the Willow Development. This does not include upgrades within the Kuparuk River Unit that would be needed under Option 3. Those upgrades would add another 0.12 million cubic yards of gravel and fill approximately 5 surface acres. CPAI plans to source most of this gravel from two mine areas with a maximum final mine pit disturbance area of approximately 150 acres in the Tiŋmiaqsiuġvik Area over five winter construction seasons. Gravel for infrastructure improvements at Oliktok Dock, staging areas, and roads for module transport would be sourced from an existing gravel source in Kuparuk. Blasting is required to loosen material from the gravel source, and heavy equipment is required to remove the material. After blasting, these materials will be removed in multiple lifts. The mine site excavation would begin with removal overburden followed by removal of suitable gravel material in lifts. Initial lifts will be for the removal of overburden, which will be stockpiled adjacent to the pit on a

seasonal ice pad. Subsequent lifts will supply the gravel for the project. In addition to blasting, gravel sourcing would be conducted with a variety of diesel-fired nonroad equipment, such as crushers, dozers, drills, excavators, light plants, loaders, air compressors, trimmers, water pumps, and welders, as well as mobile support equipment. When gravel extraction is complete, the site will be rehabilitated, and stockpiled overburden will be backfilled to contour the mined pit into a natural habitat.

2.1.2 ICE ROAD AND ICE PAD CONSTRUCTION

Ice roads would be used primarily during construction to support gravel infrastructure and pipeline construction, for lake access, and to access the selected gravel source(s). Single-season and multi season ice pads would be used to house construction camps, stage construction equipment or materials, and support other construction activities. Ice road construction is dependent upon ground temperature and precipitation (i.e., sufficient snow for pre-packing of routes) and typically begins in November or December. The annual ice road season for the Willow Development is expected to be 90 days long from the end of January through the end of April each year.

Ice roads and pads are constructed by smoothing or compacting the snow surface and/or placing water or ice on the ground surface. Then, water trucks apply water over the route or location until the ice pad or road surface is built up to the desired thickness. Ice roads are marked with stakes to facilitate driving and assist with snow removal. Ice roads and pads are maintained throughout the ice road season by monitoring for litter, contamination, and degradation and cleaning or repairing, as necessary. All stakes and contamination are cleared when the ice road or pad is closed for the season. Multi-season ice pads are constructed similarly to single-season ice pads, with compacted snow over a base layer of ice, except they also include a vapor barrier and foam insulation to prevent melting. Ice road and ice pad construction is conducted with a variety of diesel-fired nonroad equipment, such as graders, loaders, pumpers, snowblowers, light plants, and trimmers, as well as on road mobile support equipment.

2.1.3 GRAVEL ROAD AND PAD CONSTRUCTION AND FACILITIES INSTALLATION

After gravel extraction, gravel is transported from the mine or storage location via off-road belly dump B70 haul trucks and placed during winter construction seasons. Other diesel-fired nonroad equipment, including graders and compactors, are used to place the gravel during the winter, but also to work the gravel to melt remaining frozen materials and compact the gravel and create road and pad surfaces during the summer season following gravel placement.

2.1.4 BRIDGE AND CULVERT CONSTRUCTION

CPAI proposes to construct multiple bridges to allow for road access throughout the Willow Development. Multi-span bridges are constructed on steel pile pier groups, made up of sets of four pilings positioned approximately 40 to 70 feet apart. Shorter crossings will be traversed by single-span bridges or culvert batteries. All span style bridges include sheet pile abutments for erosion protection at each end of the bridge. Estimated bridge crossings range from 40 to 420 feet in length. Bridges would be constructed during winter from ice roads and pads. Bridge construction is conducted with a variety of diesel-fired

nonroad equipment, including cranes, loaders, drills, small generators, hammers, compressors, light plants, manlifts, and small heaters, as well as mobile on-road support equipment.

2.1.5 PIPELINES AND SUPPORTING INFRASTRUCTURE CONSTRUCTION

CPAI plans to construct infield pipelines within the Willow Development and import/export pipelines connecting the Willow Development to the Colville River and Kuparuk River Units. Most of the pipeline would be constructed aboveground and supported on common horizontal support members (HSMs) that would be supported by vertical support members (VSMs) placed approximately 55 feet apart across open tundra to protect permafrost. VSMs are constructed by embedding a vertical steel pipe piling in holes drilled in the permafrost and adding a sand/water slurry surrounding the pipe pile to freeze it in place. VSMs would have a typical diameter of 12 to 24 inches and total disturbance footprint diameter of 18 to 32 inches for each pipe pile. Seasonal ice roads would be constructed to access right-of-ways for the construction of VSMs, pipelines, and other infrastructure suspended on VSMs, including fiber optic cables and power cables.

At Fish Creek and Judy Creek bridge crossings, pipelines would be constructed on structural steel supports attached to the bridge girders, below the bridge deck. Gravel valve pads would also be constructed on each side of the Fish Creek and Judy Creek bridge crossings to isolate produced fluids pipelines and minimize potential spill impacts. At smaller streams, pipelines would be installed approximately perpendicular to the channel, with VSMs on each side of the crossing to avoid VSM placement in streams to the extent practicable.

VSMs are constructed using primarily nonroad engines and equipment, including drills, trenchers, loaders, and cranes, as well as on-road mobile support equipment. Similarly, pipelines, powerlines, and fiber optic cables are suspended from VSMs using a variety of diesel-fired nonroad equipment, such as compressors, derrick and telescoping cranes, side boom cranes, small generators, light plants, loaders, manlifts, drills, and small heaters, as well as on-road mobile support equipment.

All pipelines crossing the Colville River would be installed by boring beneath the river using horizontal directional drilling (HDD). The HDD process would involve drilling a borehole under the river that is large enough to accommodate the pipeline casing. This operation is supported by diesel-fired nonroad equipment, including generators, air compressors, winches, cranes, and small heaters and boilers. Throughout the process of drilling and enlarging the hole, a slurry made of naturally occurring nontoxic materials (typically bentonite clay and water) would be circulated through the drilling tools to lubricate the drill bit, remove drill cuttings, and hold the hole open. Pipelines and casing sections would be staged and welded together to form segments long enough to span the entire crossing (the pull string) on the exit side of the HDD crossing. Once the borehole is ready, the completed casing and pipelines are pulled back through the drilled hole using nonroad equipment. The Willow HDD would be completed during the winter construction season using adjacent ice pads to stage equipment and materials. Two new gravel pads would be constructed adjacent to the existing Alpine Pipeline HDD where the pipelines transition from above ground to below ground on either side of the river.

2.1.6 INFRASTRUCTURE FOR MODULE TRANSPORT (MODULE DELIVERY OPTION 3: OCEAN POINT CROSSING) AND BULK MATERIALS TRANSPORT

The modules comprising the processing facilities at the WCF and drillsites would be delivered to the North Slope by sealift using low-draft barges towed by tugs during two open water seasons (ice-free periods) in in Year 4 and Year 6. Bulk materials and smaller modules that can be transported on the Alpine Resupply Ice Road would also be delivered by sealift barge. Sealift barges would make deliveries during four open-water seasons during the summers of Year 2, Year 3, Year 4, and Year 6.

Barge offloading is proposed at the existing Oliktok Dock. Sealift modules and bulk materials would be stored at an existing 12-acre pad located approximately two miles south of Oliktok Dock until winter and then transported to the Plan Area. Smaller modules and bulk materials would be transported to the Plan Area via existing gravel roads and the annual Alpine Resupply Ice Road. The larger WCF and drillsite modules would be transported to the Plan area via Self-Propelled Modular Transporters (SPMTs) along existing gravel roads to Kuparuk DS2P. The modules would then travel on a heavy-haul ice road to GMT2, crossing the Colville River via grounded ice near Ocean Point. From GMT2 to the WCF, the modules would be transported on the Willow access gravel road.

To facilitate module and bulk materials transport with sealift barges to Oliktok Dock, several infrastructure improvements must be made. CPAI would raise the existing dock surface approximately 6 feet by adding structural components and a gravel ramp to accommodate the 25-foot-high side-shell sealift barges expected to be used for the proposed project. These improvements are all within the existing footprint of the dock area.

To facilitate transport of the larger WCF and drillsite modules during the winters of Year 5 and Year 7, a camp would be staged on a 15-acre ice pad near the DS2P access road. For transport of the larger modules, improvements to the existing staging area gravel pad near Oliktok Dock and gravel roads would also be made. These construction activities would be completed with the same types of diesel-fired nonroad and on-road mobile equipment described supporting other gravel and facilities construction throughout the Willow Development. See the Willow MDP EED for additional detail on Option 3: Ocean Point Crossing.

2.1.7 CONSTRUCTION CAMP FACILITIES

CPAI would utilize various camps to house workers throughout the eight-year construction period. CPAI would utilize existing camps, including the Kuukpik Pad Camp, Alpine Operations Camp, Sharkstooth Camp and Kuukpik Hotel near Nuiqsut, as well as temporary camps near and on the WOC and the near Kuparuk DS2P, and a permanent Willow Camp to be constructed at the WOC. Temporary camps to support drilling would be located at each of the drillsites or the WOC. Temporary construction camps near the WOC in Year 2 would be powered by diesel-fired generators. The temporary construction camp on the WOC would be electrically powered by a multi-purpose power plant located at the WOC. That power plant would utilize liquid-fired turbines for power generation. The Willow Camp would be permanently switched over to electricity generated by the WCF once the facility comes online.

2.2 DRILLING

CPAI proposes to construct 219 wells throughout the Willow Development at four drillsites. Wells will be approximately evenly split between production and injection wells. Multiphase (oil, gas, and water) fluids will be gathered from production wells and sent for processing at the WCF. Injection wells will be used to inject gas, produced water, seawater, and miscible-injectant (MI) back into the producing formation to maintain formation pressure and as part of enhanced oil recovery. CPAI estimates that it will take approximately 15 to 30 days to drill each well and expects to begin pre-drilling during Year 4 at the BT1 Drillsite. Pre-drilling activities would allow the WCF to be commissioned immediately following WCF construction by timing completion of a sufficient number of wells to provide the minimum fluid rates to commission the pipelines and facility. Pre-drilling eliminates a 1- to 2-year delay between construction and production of first oil. Assuming the use of two drill rigs continuously operating throughout the development, drilling would be complete by Year 10.

Drilling is conducted with a drill rig containing electrically powered draw-works, top-drive, and pumps with heat supplied by diesel-fired air heaters and boilers. The drilling operation will be supported by small portable diesel-fired nonroad equipment, mobile equipment, and temporary storage tanks at the drillsites. The approximate 3.5-megawatt (MW) single drill rig electrical demand (approximately 7 MW for 2 drill rigs) can be satisfied by diesel-fired reciprocating engine-powered generators, certified USEPA Tier 4f, that travel with the drill rig or highline power generated at the WCF. CPAI plans to predominantly conduct their drilling operations on highline supplied electrical power throughout the life of project whenever possible. However, highline power may not be available for some of the construction period before permanent power infrastructure is commissioned. Therefore, CPAI expects there to be a short period of time when power for the drill rigs is supplied by diesel-fired reciprocating engines only until highline electrical power is available. After that, diesel fired engines that travel with the drill rig will be used as back-up if highline power is temporarily unavailable. All other portable support equipment will typically be powered by diesel fuel.

After a well is drilled, it is completed. To complete a production well, it sometimes is first hydraulically fractured, then it undergoes a well cleanout process known as a flowback. During the flowback, fluids and solids present in the well bore as part of the drilling and completion process are allowed to flow from the well until the fluids produced from the well are no longer contaminated with excessive solids or drilling fluids. Liquids and solids produced during the flowback are placed in portable tanks for disposal and gas is captured, flared, or vented depending on infrastructure availability. Immediately following the construction of each drillsite, CPAI anticipates that there will be a period of time before permanent infrastructure is in place to handle gas from flowbacks. If the infrastructure is not in place, CPAI will route any gas from flowbacks to a portable flare located at the drillsite. Once permanent facilities are available (pipelines and WCF), gas from flowbacks will be routed to the WCF and processed. CPAI conservatively assumes that all production and injection wells could be hydraulically fractured as part of the completion process.

Hydraulic fracturing in the Willow Development would be hydraulic fracturing of conventional resources which is intended to counter formation damage and stimulate and maximize recovery of resources. This is a very different purpose than hydraulic fracturing unconventional shale formations. Hydraulic fracturing of a well at Willow will be conducted in stages and to various depths by pumping proppant, made of water,

sand, and chemical additives, at high pressure into a well drilled to create small length fractures in the formation in the immediate vicinity of the wellbore.

Hydraulic fracturing is expected to be conducted using 5 to 10 pumps powered by electric motors or engines (nonroad engines), certified USEPA Tier 4f for generator sets. When powered by engines the engines will run at high loads for short periods of time and idling or operating at low loads the remainder of the process. Like drilling, CPAI plans to predominantly conduct their hydraulic fracturing operations on highline supplied electrical power throughout the life of project whenever possible; however, there may be a short period of time during construction when the hydraulic fracturing unit operates on diesel only until highline electrical power is available. A typical frac operation for the Willow Development is expected to take approximately 6 days per well. These operations may also be supported by small nonroad engines and/or portable heaters, as necessary.

2.3 OPERATIONS

2.3.1 WILLOW CENTRAL FACILITY

The WCF would primarily consist of facilities necessary to generate power for the Willow Development, dehydrate and compress gas for fuel and reinjection, pump and inject seawater and produced water to the subsurface as part of pressure maintenance/water flood for secondary recovery, and separate and process production fluids and deliver sales-quality crude oil. Fluid separation and processing occurs through pressure drops, gravity separation, and heating followed by distillation and includes the production of sales-quality crude, produced water, and MI for enhanced oil recovery. Produced natural gas would be (1) used to fuel plant and facility equipment, (2) reinjected into a producing formation to maintain reservoir pressure and increase recovery, and/or (3) used for gas lift. Under plant startups, shutdowns, and upset conditions, natural gas may be flared. A simplified process flow diagram for major systems is presented in **Appendix A**.

WCF power generation and processing equipment would include:

- Turbine-driven power generators with waste heat recovery;
- Turbine-driven compressors with waste heat recovery;
- Gas strippers;
- Gas treatment facilities;
- Heat exchangers;
- Separators;
- Stabilizer unit;
- A flare system;
- Heaters;
- Oil vessels;

- Pumps;
- Pigging facilities;
- Metering facilities;
- Diesel fuel supply storage tank(s) and an associated fueling station;
- A tank farm, which could include methanol, sales oil or off-spec crude, crude flowback fluids, scale inhibitor, emulsion breaker, corrosion inhibitor, and minor volumes of other chemicals as required for operations;
- Warm storage facilities for equipment; and
- Portable heaters, light plants, and boilers, including the potential for a snowmelter.

At various times throughout the Willow Development's producing lifetime, temporary modules, maintenance buildings, pipelines, and other structures may be used at the WCF to address short-term needs. See the Willow MDP EED for the proposed WCF layout.

Refer to the "INPUTS" tabs in the "Willow_AltBT2N_EI-Non-Construction-WCF+WOC+Airstrip.xlsx" spreadsheet referenced in **Appendix C** for sizing and major equipment assumptions for fuel burning equipment.

2.3.2 WILLOW DRILLSITES

Each drillsite has been sized and designed to accommodate all drilling and operations facilities, wellhead shelters, drill rig movement, drilling material storage, and well work equipment. Each drillsite could accommodate 40 to 80 wells at a 20-foot wellhead spacing. Additional typical drillsite facilities include:

- Fuel gas dehydration equipment, consisting of an electric heater and a knock-out pot;
- Pig launchers/receivers;
- Chemical injection facilities (including tanks within module, containment, and exterior tank fill connection);
- Production heater(s) and associated equipment;
- Production operations storage tanks containing methanol, scale inhibitor, emulsion breaker, and/or corrosion inhibitor;
- Temporary tanks to support drilling and well work operations;
- Transformer platforms (oil-insulated);
- Pipe racks and/or manifold piping/valves;
- Portable heaters, light plants, and boilers including the potential for a snowmelter; and
- Back-up power generation.

All equipment described above, except for production heaters and back-up power generation, is electrically powered, with power supplied from the WCF via cable run along the pipeline corridor.

Production heaters are powered by fuel gas, and their purpose is to heat the multiphase production fluids (oil, water, and gas) prior to shipment to the WCF for processing. Any back up power generation installed at the drillsites would be diesel-fired reciprocating engine-powered generators, expected to meet USEPA Tier 4i emissions standards for non-generator sets or better.

Wells would be grouped into two general categories: producers and injectors. The production wells would generate the field's multiphase production while the injection wells would be used to inject water (i.e., treated seawater and/or produced water that has been processed at the WCF) and/or gas into the producing formation(s) to maintain reservoir pressure. See the Willow MDP EED for a typical drillsite layout.

Refer to the "INPUTS" tabs in the "Willow_AltBT2N_EI-Construction-BT[X].xlsx" spreadsheet referenced in **Appendix C** for fuel burning equipment assumptions for the Willow drillsites.

2.3.3 WILLOW OPERATIONS CENTER

The base of operations for the Willow Development would be at the WOC. The WOC would be near to but separated from the WCF. The WOC location would minimize risk to personnel by placing permanently occupied buildings away from potential blast hazards associated with the WCF. The WOC would also be adjacent to the airstrip. See the Willow MDP EED for a typical layout of these facilities.

The WOC would contain accommodation and utility buildings and maintenance and storage facilities to support operations. These include:

- Permanent Willow Operations Camp facilities including living quarters, offices, meeting rooms, dining facilities, central control building, medical clinic, and wellness and camp maintenance facilities;
- Wastewater and water treatment plants, lab, and chemical storage;
- Water tanks;
- Class I underground injection control disposal well(s) (Class I disposal well[s]);
- Emergency Response Center, including spill response shop, fire department, and ambulance bay;
- Hazardous waste accumulation and storage;
- Fleet maintenance shop;
- Fabrication and weld shop;
- Warehouse;
- Storage tents;
- Drilling shop and mud plant;
- Small remote incinerator;
- Helipad, helicopter storage tent, and jet fuel tank and pump house;

- Staging areas;
- Craft maintenance shops and tool room to provide equipment repair, fabrication, and maintenance support;
- Tanks for diesel and drilling and cuttings storage;
- Portable heaters, light plants, and boilers including the potential for a snowmelter; and
- Turbine-driven and reciprocating engine-driven power generation.

Under normal operations, all equipment and facilities described above will be electrically powered, except for the power generation, portable equipment, and incinerator. Any back up power generation installed at the WOC would be diesel-fired reciprocating engine-powered generators, expected to meet USEPA Tier 4i standards for non-generator sets or better. In addition to permanent surface structures, temporary surface structures such as camps, offices, shops, envirovacs, connexes, fuel and chemical storage areas, and warehouses may be used at the WOC to support projects.

Information regarding fuel burning equipment associated with Willow infrastructure can be found in "INPUTS" tabs in the "Willow_AltBT2N_EI-Non-Construction-WCF+WOC+Airstrip.xlsx" spreadsheet referenced in **Appendix C**.

2.3.4 WILLOW PIPELINES

The Willow Development would include infield lines and import/export lines. Infield lines carry a variety of products, including produced fluids, produced water, seawater, MI, and gas, between the WCF and each drillsite (including GMT2).

Import/export pipelines include the Willow sales-oil pipeline, a seawater pipeline, and a diesel pipeline. The Willow sales-oil pipeline would carry sales-quality crude oil from the WCF to a tie-in with the Alpine Pipeline near CD4N. The seawater pipeline would import seawater from existing infrastructure in Kuparuk to the Plan Area. The diesel pipeline would transport Ultra Low Sulfur Diesel (ULSD) from the Kuparuk Central Processing Facility 2 (CPF2) to the ACF.

Infield lines would include the following pipelines connecting the WCF to each drillsite:

- Produced fluids pipeline – produced multiphase fluids from each drillsite to WCF for processing.
- Injection water pipeline – seawater or produced water transported from WCF for injection to support enhanced oil recovery.
- Gas pipeline – gas transported from WCF for artificial lift, pressure support, and fuel gas.
- MI pipeline – MI transported from WCF for injection to support enhanced oil recovery.

Pipeline length and service characteristics are presented in **Table 1**. All infield pipelines would be designed to allow pipeline inspection and maintenance (e.g., pigging) between each drillsite and the WCF.

Table 1 Pipeline Segments

Segment	Pipelines	Segment Length (miles)	Notes
BT2 to BT1	BT2 Infield Lines[1]	7.9	Pipeline on new set of VSMs.
BT1 to WCF	BT1 Infield Lines[1]	4.3	Pipelines on new set of VSMs; would also transport BT2 materials.
BT3 to WCF	BT3 Infield Lines[1]	4.1	Pipelines on new set of VSMs.
BT5 to WCF	BT5 Infield Lines[1]	7.5	Pipelines on new set of VSMs; shares VSMs with BT3 infield pipeline from BT5 Junction to WCF (2.8 miles).
GMT2 to WCF	GMT2 Infield Lines[1]	10.2	Shares new VSMs with Willow and seawater pipelines from GMT2 to WCF (10.2 miles).
Various	Freshwater Intake	0.9	Lakes L9911, M0235, M0112, M0015, and M1523A to pumphouses on their respective water source access pads.
WOC to WCF	Treated Water	2.8	Shares new VSMs with fuel gas pipeline from WCF to WOC (2.8 miles).
WCF to WOC	Fuel Gas	2.8	Shares new VSMs with treated water pipeline from WCF to WOC (2.8 miles).
WCF to CD4N tie-in	Willow Pipeline	33.3	Shares new VSMs with seawater from WCF to CD4N (33.0 miles).
CPF2 to WCF	Seawater	64.3	Shares new VSMs with Willow Pipeline from WCF to CD4N (33.0 miles) and diesel pipeline from CD4N to CPF2 (31.3 miles). Includes HDD crossing of Colville River.
Existing seawater pipeline to K-Pad	Seawater Spur	0.1	Pipeline on new set of VSMs.
CPF2 to CD1	Diesel	34.4	Shares new VSMs with seawater pipeline from CPF2 to CD4N (31.3 miles) and existing VSMs from CD4N to ACF at CD1 (3.1 miles). Includes HDD crossing of Colville River.

Table Notes:

[1] Infield lines include produced fluids, injection water gas, and miscible-injectant pipelines.

WCF: Willow Central Processing Facility; WOC: Willow Operations Center; BT: Bear Tooth; CD4N: Colville Delta 4 North; CD1: Colville Delta 1; CPF2: Kuparuk Central Processing Facility 2; VSMs: vertical support members; HDD: horizontal directional drilling.

Permanent pigging facilities would be installed for the produced fluid and injection water pipelines. To limit the venting of volatile organic compounds (VOC) in the enclosed pigging structure, the barrel of the pig launcher/receiver is flooded with inert gas to clear the barrel of accumulated liquids and flammable gases prior to venting to atmosphere and opening the launcher/receiver.

Pipeline valves that can be closed in the event of an emergency would be installed on pipelines in hydrocarbon service at each side of the Judy Creek and Fish Creek crossings, isolating the section of pipeline between the valves to minimize potential spill impacts in the event of a leak or break. Four gravel valve pads (1.3 acres total) would be constructed to support the valve infrastructure. Valve pads would be located adjacent to gravel roads approximately 400 to 2,000 feet from the bridge crossings.

Pipelines would be supported on common HSMs that would be supported by VSMs. All pipelines would parallel new and existing gravel roads, typically at a distance from the roadways of 500 to 1,000 feet. Fiber optic cable and power cables would be suspended from the same pipeline VSMs via messenger cable attached to the HSMs.

2.3.5 COMMUNICATIONS

Communications infrastructure throughout the field would be provided by fiber optic cables suspended from pipeline VSMs via messenger cable attached to the HSMs. Additionally, communication towers would be located at the WCF and at all drillsites. The communications tower associated with the WOC would be constructed on a separate, adjacent pad.

2.3.6 ACCESS/TRANSPORTATION

Access to the Plan Area from Alpine, Kuparuk, and/or Deadhorse would occur via ground transportation on ice roads, fixed-wing aircraft, and helicopter. Access from Alpine would also occur by gravel road. Anticipated ground, air, and marine traffic is detailed in the Willow MDP EED.

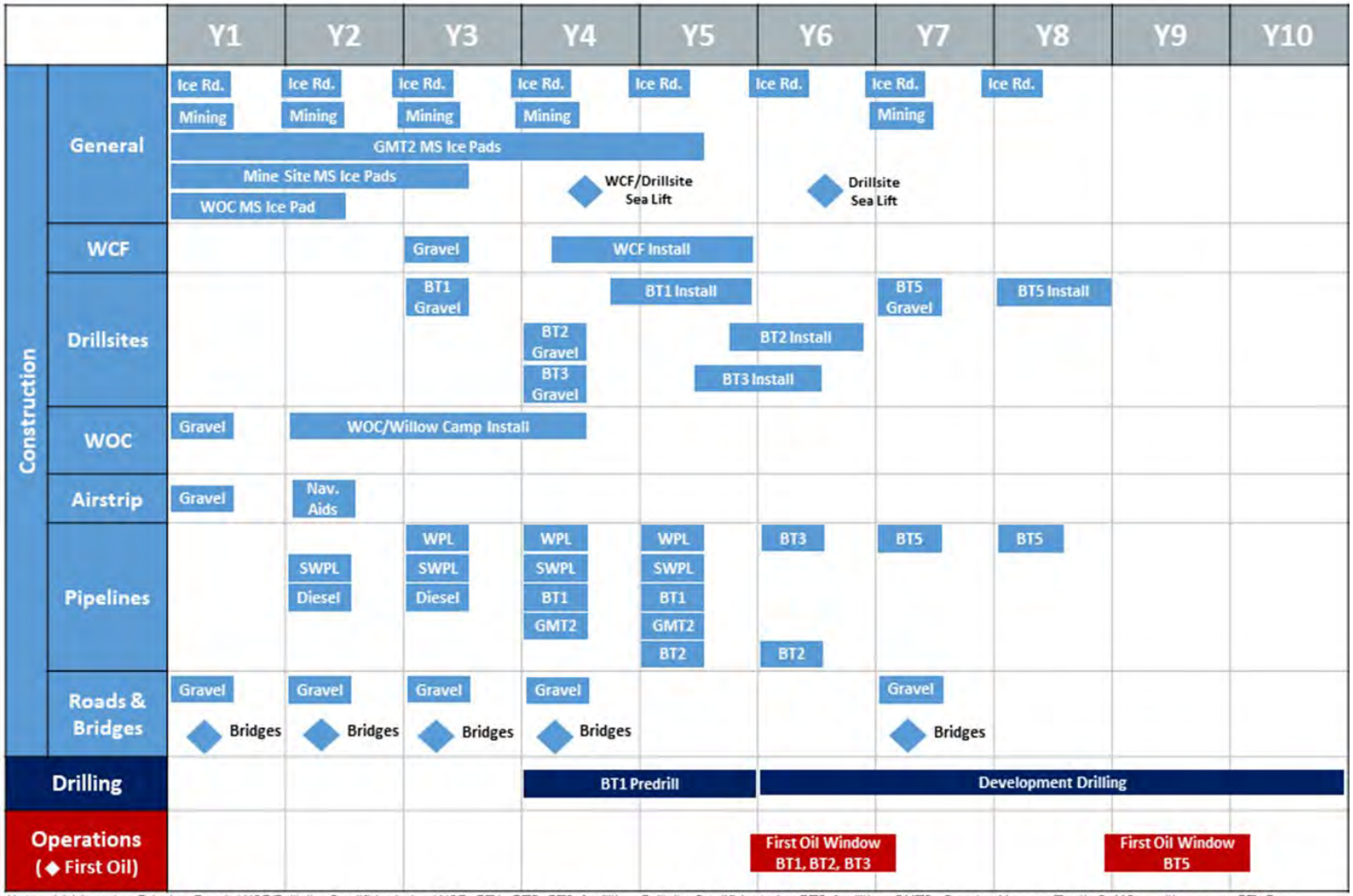
Ice roads would be used primarily during construction to support gravel infrastructure and pipeline construction, for lake access, and to access the selected gravel source(s). Due to heavy equipment size and frequency of construction traffic, safety considerations dictate use of separate ice roads for pipeline construction, gravel placement, and general traffic.

Year-round access to the Plan Area from Deadhorse, Alpine, Kuparuk, and/or other locations would be provided by aircraft. Air access would be supported by a 5,700-foot-long gravel airstrip with aprons located near the WOC. The airstrip would be capable of regular use by Hercules C-130, DC 6, Otter, CASA, Bombardier Q400, or similar aircraft. Helicopters would be used to support project construction, ongoing environmental studies, ice road permit compliance, and, to a lesser extent, drilling and operations. Helicopter support of future exploration, including exploration wellhead inspections and “stick picking” from winter exploration activities, is not part of the Willow MDP but is described within the context of cumulative effects within the Willow MDP EED.

Details on air, sea, and road-based traffic throughout the project lifecycle are summarized in the Willow MDP EED and on the “INPUTS-[Type]_Traffic” tabs in applicable spreadsheets referenced in **Appendix C**.

2.4 SCHEDULE

Construction of the Willow Development facilities is anticipated to occur over an eight-year period. Drilling activities are anticipated to begin in Year 4 with pre-drilling prior to facility start-up in order to provide enough production to commission the WCF. Drilling is anticipated to continue through Year 10. WCF operations are expected to commence in Year 6 with commissioning of the facility and first oil from the BT1 Drillsite. Production and operational activity will continue until the end of field life. **Figure 1** provides a general schedule for key construction, drilling, and operations milestones for the Willow MDP.



Notes: Y: Year; Ice Rd.: Ice Road; WCF/Drillsite Sealift includes WCF, BT1, BT2, BT3 facilities; Drillsite Sealift includes BT5 facilities; GMT2: Greater Mooses Tooth 2; MS: multi-season; BT: Bear Tooth; WCF: Willow Central Processing Facility; WOC: Willow Operations Center; CFWR: Constructed Freshwater Reservoir; Nav. Aids: Navigational Aids; WPL: Willow Pipeline; SWPL: Seawater Pipeline. SWPL and Diesel horizontal direction drilling occurs in Year 4; Operations continues to end of the life of the project in Year 30.

3. EMISSIONS INVENTORY DEVELOPMENT

An emissions inventory for the Willow Development was assembled based on the project description in CPAI's Willow MDP EED and highlighted in the previous sections. The emission inventory for Alternative E includes project-specific emissions from development activities related to the following categories:

- Construction;
- Drilling;
- Routine operations;
- Well workovers and interventions; and
- Module delivery and transport.

For each of these categories, project-related emissions may occur from the following types of sources:

- Non-mobile combustion sources (e.g. turbines, reciprocating engines, and heaters);
- Mobile, on-road tailpipe combustion sources (e.g. vehicle traffic);
- Mobile, nonroad tailpipe combustion sources (e.g. construction equipment);
- Fugitive sources (e.g., fugitive dust, venting, or equipment leaks);
- Aircraft sources (e.g., airplane traffic); and
- Marine vessel sources (e.g., ocean-going boats and barges).

For each of these types of sources, emissions were calculated for the following pollutants:

- Criteria pollutants, including nitrogen oxides (NO_x), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter less than 10 microns in diameter (PM_{10}), and particulate matter less than 2.5 microns in diameter ($PM_{2.5}$).
- Volatile organic compounds (VOC).
- Hazardous air pollutants (HAPs), including benzene, toluene, ethylbenzene, xylenes, n-hexane, and formaldehyde.
- Greenhouse gases (GHGs), including carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and carbon dioxide equivalents (CO_2e).

Calculations for each source of emissions and each pollutant were compiled into monthly summaries of emissions according to the proposed project schedule.

The emissions inventory for the WCF, WOC, four drillsites, and module delivery and transport activities was developed from the Alternative B emissions inventory build for the Willow MDP Final Environmental Impact Statement. This approach was used: (1) because of the similarity between alternatives, (2) to facilitate the ease of review for Federal Land Managers (FLMs) with a familiar emissions inventory format;

and (3) because those spreadsheets, calculations, and methodologies were reviewed and approved by FLMs through the National Environmental Policy Act (NEPA) process.

Using these resources, most emission calculations were performed using the following key references that are generally accepted for emission factors:

- AP-42, Chapter 1 (External Combustion Sources), Chapter 2 (Solid Waste Disposal), Chapter 3 (Stationary Internal Combustion Sources), Chapter 5 (Petroleum Industry), Chapter 7 (Liquid Storage Tanks), and Chapter 13 (Miscellaneous Sources).
- 40 Code of Federal Regulations (CFR) Part 98, Subpart A, Table A-1 (Global Warming Potentials) and Subpart C, Table C-1 (Default CO2 Emission Factors) and Table C-2 (Default CH_4 and N_2O Emission Factors) for general stationary fuel combustion sources.
- Applicable federal requirements in 40 CFR Part 89 and Part 1039 (Control of Emissions from New and In-Use Nonroad Compression-Ignition Engines), 40 CFR 60 (Standards of Performance for New Stationary Sources), and 40 CFR 63 (National Emission Standards for Hazardous Air Pollutants for Source Categories).
- Limited representative vendor data from similar projects, such as ACF, for certain combustion sources.
- U.S. Environmental Protection Agency (USEPA) Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017).
- USEPA Motor Vehicle Emission Simulator (MOVES) 2014a model for on-road and nonroad mobile equipment emissions.
- Federal Aviation Administration (FAA) Aviation Environmental Design Tool (AEDT) model for aircraft emissions.
- USEPA TANKS emissions estimation software, Version 4.09D.
- USEPA Current Methodologies in Preparing Mobile Source Port-Related Emission Inventories, Final Report, April 2009, prepared by ICF International.

Tabular and graphical representations of key aspects of the Willow Development emissions inventory are summarized in **Appendix B**. Detailed emissions calculations, assumptions, and methodologies are outlined in the emissions calculation spreadsheets included in **Appendix C** (electronically enclosed) to reduce duplication of material.

4. REFERENCES

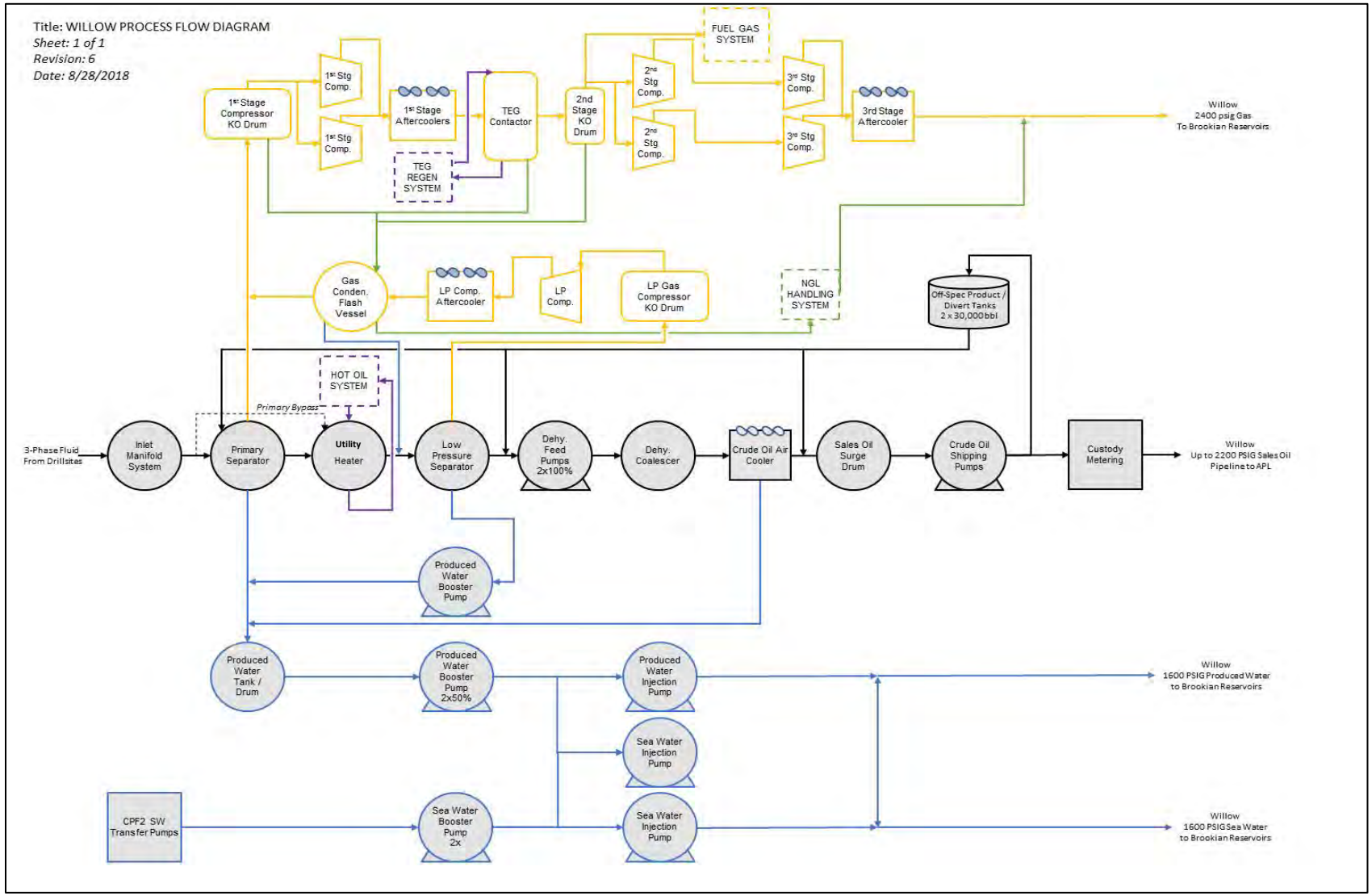
ConocoPhillips Alaska, Inc. 2021 Willow Master Development Plan, Environmental Evaluation Document, Chapter 2 Revision No. 4. December 14, 2021.

APPENDIX A
WILLOW CENTRAL PROCESSING FACILITY PROCESS FLOW DIAGRAM

ALTERNATIVE E
EMISSIONS INVENTORY REPORT

ConocoPhillips Alaska, Inc.
700 G Street
Anchorage, AK 99510

February 2022


Title: WILLOW PROCESS FLOW DIAGRAM
Sheet: 1 of 1
Revision: 6
Date: 8/28/2018
1st Stage Compressor KO Drum
1st Stg Comp.
1st Stg Comp.
1st Stage Aftercoolers
TEG Contactor
TEG REGEN SYSTEM
2nd Stage KO Drum
FUEL GAS SYSTEM
2nd Stg Comp.
2nd Stg Comp.
3rd Stg Comp.
3rd Stg Comp.
3rd Stage Aftercooler
Willow 2400 psig Gas To Brookian Reservoirs
Gas Conden. Flash Vessel
LP Comp. Aftercooler
LP Comp.
LP Gas Compressor KO Drum
NGL HANDLING SYSTEM
Off-Spec Product / Divert Tanks 2 x 30,000 bbl
HOT OIL SYSTEM
Primary Bypass
3-Phase Fluid From Drillsites
Inlet Manifold System
Primary Separator
Utility Heater
Low Pressure Separator
Dehy. Feed Pumps 2x100%
Dehy. Coalescer
Crude Oil Air Cooler
Sales Oil Surge Drum
Crude Oil Shipping Pumps
Custody Metering
Willow Up to 2200 PSIG Sales Oil Pipeline to APL
Produced Water Booster Pump
Produced Water Tank / Drum
Produced Water Booster Pump 2x50%
Produced Water Injection Pump
Willow 1600 PSIG Produced Water to Brookian Reservoirs
Sea Water Injection Pump
CPF2 SW Transfer Pumps
Sea Water Booster Pump 2x
Sea Water Injection Pump
Willow 1600 PSIG Sea Water to Brookian Reservoirs

APPENDIX B
SUMMARY EMISSIONS TABLES

ALTERNATIVE E
EMISSIONS INVENTORY REPORT

ConocoPhillips Alaska, Inc.
700 G Street
Anchorage, AK 99510

February 2022

Table B-1 List of Assumptions for Summary Tables

Table/Figure	Assumption/Note
Various	50% of all Project wells are producing wells, 50% are injection wells. Emissions related to both types of wells are summarized.
Table B-6	This table represents the total annual emissions for the Project Area divided by the planned 219 wells. We assume no difference in emissions between injection and producing wells. Emissions from new wells include all emissions related to construction and drilling, divided by the total number of wells and number of years considered to get an average annual emission rate for constructing and drilling each well. Emissions from wells >1 year represent emissions unrelated to construction and drilling and are representative of annual emissions from annual production/operations on a per well basis.
Figure B-1	Drilling will occur until Year 10.

Table B-2 Project Alternative Emissions Summary (tpy) for a Typical Production Year

Pollutant	Existing Wells Emissions	Future Wells Emissions	No Action	Proposed Action	Total Emissions for Project Area (Existing + Future Wells)	Existing to Future Difference in Total Project Area Emissions (including Proposed Action)
NO_x	0	662	0	662	662	662
CO	0	627	0	627	627	627
SO_2	0	52.7	0	52.7	52.7	52.7
PM_{10}	0	171	0	171	171	171
$PM_{2.5}$	0	80.2	0	80.2	80.2	80.2
VOC	0	611	0	611	611	611

Table B-3a Annual Criteria Pollutant Emissions (tons) for Construction Only

Project Year	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	17.1	25.0	0.662	1.01	0.473	1.12
1	431	354	3.15	80.3	20.3	26.1
2	452	362	4.10	101	22.9	26.1
3	531	397	3.74	211	37.5	36.1
4	592	419	3.12	217	41.6	45.1
5	131	60.2	0.393	209	29.0	14.9
6	86.2	57.0	0.986	84.7	13.4	8.88
7	69.1	66.4	1.44	51.7	7.72	7.10
8	19.2	10.5	0.0607	39.4	5.07	2.34
9	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0
16-30	0.0	0.0	0.0	0.0	0.0	0.0

Table B-3b Annual Criteria Pollutant Emissions (tons) For Drilling and Completion Only

Project Year	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	0.0	0.0	0.0	0.0	0.0	0.0
1	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0
4	142	372	0.972	117	19.5	60.4
5	144	373	0.978	152	23.2	60.6
6	103	146	0.594	191	25.4	58.5
7	109	149	0.617	325	39.0	59.3
8	54.2	74.5	0.308	153	18.6	29.7
9	54.2	74.4	0.309	162	19.4	29.6
10	54.2	74.4	0.309	162	19.4	29.6
11	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0
16-30	0.0	0.0	0.0	0.0	0.0	0.0

Table B-3c Annual Criteria Pollutant Emissions (tons) For Production and Operations Only

Project Year	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	0.0	0.0	0.0	0.0	0.0	0.0
1	0.452	0.247	0.0	0.0	0.0	0.0
2	0.533	1.50	0.0	0.0	0.0	0.0
3	1.72	3.13	0.169	0.0613	0.0613	0.686
4	15.0	15.8	0.640	2.59	0.950	2.5
5	262	247	16.9	51.9	31.1	93.8
6	650	619	52.7	165	79.3	432
7	657	625	52.9	169	80.1	533
8	657	624	52.8	171	80.3	532
9	657	624	52.7	177	80.9	532
10	663	628	52.8	177	81.2	612
11	662	627	52.7	177	81.2	612
12	662	627	52.7	171	80.2	611
13	662	627	52.7	171	80.2	611
14	662	627	52.7	171	80.2	611
15	662	627	52.7	171	80.2	611
16-30	662	627	52.7	171	80.2	611

Table B-4 Well and Pads by Formation and Drilling Technology

Classification	New Wells	New Well Pads	Modification of Existing Well Pads	Single Well Pads	Multi-Well Pads	Expansion of Existing Well Pads	Total Pads
Directional Oil Wells	110	4	0	0	4	0	4
Directional Injection Wells	109		0	0		0	
Total	219	4	0	0	4	0	4

Table B-5a Emissions for Construction of All Drillsite Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/year-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	9.9E-02	4.3E-01	6.8E+00	3.0E+01
CO	4.6E-02	2.0E-01	3.1E+00	1.4E+01
SO_2	3.8E-04	1.7E-03	2.6E-02	1.1E-01
PM_{10}	1.1E-02	5.0E-02	7.7E-01	3.4E+00
$PM_{2.5}$	8.5E-03	3.7E-02	5.8E-01	2.5E+00
VOC	1.2E-02	5.5E-02	8.5E-01	3.7E+00
Benzene	3.3E-04	1.4E-03	2.2E-02	9.7E-02
Toluene	3.5E-04	1.5E-03	2.4E-02	1.1E-01
Ethylbenzene	7.0E-05	3.1E-04	4.8E-03	2.1E-02
Xylene	3.1E-04	1.3E-03	2.1E-02	9.1E-02
Formaldehyde	2.9E-03	1.3E-02	2.0E-01	8.7E-01
n-Hexane	3.7E-05	1.6E-04	2.5E-03	1.1E-02
CO_2e	5.2E+01	2.3E+02	3.6E+03	1.6E+04

[1] Emission factors are the emission rates divided by total acres of all drillsite pads.

Table B-5b Emissions for Construction of All Bridges

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-mile)	Annual (ton/year-mile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	2.4E+00	1.0E+01	5.1E-01	2.2E+00
CO	8.2E-01	3.6E+00	1.7E-01	7.6E-01
SO_2	9.4E-03	4.1E-02	2.0E-03	8.8E-03
PM_{10}	1.7E-01	7.7E-01	3.7E-02	1.6E-01
$PM_{2.5}$	1.6E-01	7.2E-01	3.5E-02	1.5E-01
VOC	2.1E-01	9.4E-01	4.6E-02	2.0E-01
Benzene	6.3E-03	2.7E-02	1.3E-03	5.8E-03
Toluene	6.3E-03	2.8E-02	1.3E-03	5.9E-03
Ethylbenzene	1.1E-03	5.0E-03	2.4E-04	1.1E-03
Xylene	4.8E-03	2.1E-02	1.0E-03	4.5E-03
Formaldehyde	5.1E-02	2.2E-01	1.1E-02	4.8E-02
n-Hexane	5.4E-04	2.4E-03	1.2E-04	5.0E-04
CO_2e	1.2E+03	5.3E+03	2.6E+02	1.1E+03

[1] Emission factors are the emission rates divided by total length in miles of bridges constructed.

Table B-5c Emissions for Construction of Gravel Roads and Support Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/year-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	4.8E-03	2.1E-02	1.1E+00	4.7E+00
CO	1.8E-03	7.9E-03	4.1E-01	1.8E+00
SO_2	1.9E-05	8.2E-05	4.2E-03	1.8E-02
PM_{10}	8.8E-03	3.9E-02	2.0E+00	8.7E+00
$PM_{2.5}$	1.6E-03	6.9E-03	3.5E-01	1.5E+00
VOC	7.6E-04	3.3E-03	1.7E-01	7.5E-01
Benzene	1.6E-05	7.0E-05	3.6E-03	1.6E-02
Toluene	2.4E-05	1.0E-04	5.3E-03	2.3E-02
Ethylbenzene	4.4E-06	1.9E-05	9.9E-04	4.3E-03
Xylene	2.4E-05	1.1E-04	5.4E-03	2.4E-02
Formaldehyde	1.8E-04	7.7E-04	3.9E-02	1.7E-01
n-Hexane	3.2E-06	1.4E-05	7.2E-04	3.1E-03
CO_2e	3.1E+00	1.3E+01	6.9E+02	3.0E+03

[1] Emission factors are the emission rates divided by total acres of all gravel roads and support pads (valve, pipeline, and water access/reservoir pads).

Table B-5d Emissions for Construction of Ice Roads and Ice Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/year-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	4.7E-03	2.1E-02	1.7E+01	7.5E+01
CO	1.3E-03	5.5E-03	4.6E+00	2.0E+01
SO_2	5.6E-06	2.4E-05	2.0E-02	8.9E-02
PM_{10}	1.7E-04	7.3E-04	6.1E-01	2.7E+00
$PM_{2.5}$	1.6E-04	7.1E-04	5.9E-01	2.6E+00
VOC	4.2E-04	1.8E-03	1.5E+00	6.7E+00
Benzene	8.9E-06	3.9E-05	3.3E-02	1.4E-01
Toluene	1.2E-05	5.4E-05	4.5E-02	2.0E-01
Ethylbenzene	2.5E-06	1.1E-05	9.1E-03	4.0E-02
Xylene	1.3E-05	5.6E-05	4.7E-02	2.0E-01
Formaldehyde	9.6E-05	4.2E-04	3.5E-01	1.5E+00
n-Hexane	1.7E-06	7.4E-06	6.1E-03	2.7E-02
CO_2e	1.1E+00	4.6E+00	3.9E+03	1.7E+04

[1] Emission factors are the emission rates divided by total acres of all ice roads and ice pads constructed through the life of the project.

Table B-5e Emissions for Construction of Powerlines and Fiber Optics

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-mile)	Annual (ton/year-mile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	7.5E-03	3.3E-02	2.5E-01	1.1E+00
CO	3.0E-03	1.3E-02	1.0E-01	4.5E-01
SO_2	3.3E-05	1.5E-04	1.1E-03	5.0E-03
PM_{10}	6.3E-04	2.8E-03	2.1E-02	9.4E-02
$PM_{2.5}$	5.9E-04	2.6E-03	2.0E-02	8.8E-02
VOC	7.8E-04	3.4E-03	2.7E-02	1.2E-01
Benzene	2.2E-05	9.6E-05	7.5E-04	3.3E-03
Toluene	2.2E-05	9.6E-05	7.4E-04	3.3E-03
Ethylbenzene	4.3E-06	1.9E-05	1.5E-04	6.4E-04
Xylene	1.7E-05	7.5E-05	5.8E-04	2.6E-03
Formaldehyde	1.8E-04	8.0E-04	6.2E-03	2.7E-02
n-Hexane	2.0E-06	8.6E-06	6.7E-05	2.9E-04
CO_2e	4.2E+00	1.8E+01	1.4E+02	6.2E+02

[1] Emission factors are the emission rates divided by total length in miles of fiber optics line constructed. Miles of powerline are assumed equal to the miles of fiber optic line constructed.

Table B-5f Emissions for Construction of Pipelines

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-mile)	Annual (ton/year-mile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	8.0E-02	3.5E-01	1.4E+01	6.3E+01
CO	5.1E-02	2.2E-01	9.2E+00	4.0E+01
SO_2	1.8E-04	8.0E-04	3.3E-02	1.4E-01
PM_{10}	4.0E-03	1.7E-02	7.2E-01	3.1E+00
$PM_{2.5}$	3.9E-03	1.7E-02	7.0E-01	3.1E+00
VOC	1.1E-02	4.9E-02	2.0E+00	8.9E+00
Benzene	9.3E-05	4.1E-04	1.7E-02	7.3E-02
Toluene	7.6E-05	3.3E-04	1.4E-02	6.0E-02
Ethylbenzene	1.1E-05	4.9E-05	2.0E-03	8.8E-03
Xylene	6.6E-05	2.9E-04	1.2E-02	5.2E-02
Formaldehyde	4.8E-04	2.1E-03	8.7E-02	3.8E-01
n-Hexane	6.7E-06	2.9E-05	1.2E-03	5.3E-03
CO_2e	2.1E+01	9.1E+01	3.7E+03	1.6E+04

[1] Emission factors are the emission rates divided by total length in miles of pipeline constructed.

Table B-5g Emissions for Construction of WCF

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/year-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	4.4E-01	1.9E+00	1.0E+01	4.4E+01
CO	1.8E-01	8.0E-01	4.2E+00	1.8E+01
SO_2	1.5E-03	6.4E-03	3.3E-02	1.4E-01
PM_{10}	4.0E-02	1.8E-01	9.1E-01	4.0E+00
$PM_{2.5}$	3.3E-02	1.5E-01	7.6E-01	3.3E+00
VOC	5.3E-02	2.3E-01	1.2E+00	5.3E+00
Benzene	1.4E-03	6.1E-03	3.2E-02	1.4E-01
Toluene	1.5E-03	6.7E-03	3.5E-02	1.5E-01
Ethylbenzene	3.0E-04	1.3E-03	6.9E-03	3.0E-02
Xylene	1.3E-03	5.9E-03	3.0E-02	1.3E-01
Formaldehyde	1.3E-02	5.5E-02	2.9E-01	1.2E+00
n-Hexane	1.6E-04	7.1E-04	3.7E-03	1.6E-02
CO_2e	2.1E+02	9.0E+02	4.7E+03	2.1E+04

[1] Emission factors are the emission rates divided by total acres of the WCF pad.

Table B-5h Emissions for Construction of WOC and Airstrip

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-acre)	Annual (ton/year-acre)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.6E-01	6.9E-01	1.2E+01	5.1E+01
CO	7.7E-02	3.4E-01	5.6E+00	2.5E+01
SO_2	5.3E-04	2.3E-03	3.9E-02	1.7E-01
PM_{10}	1.6E-02	7.2E-02	1.2E+00	5.3E+00
$PM_{2.5}$	1.1E-02	4.8E-02	8.0E-01	3.5E+00
VOC	2.3E-02	1.0E-01	1.7E+00	7.5E+00
Benzene	5.1E-04	2.2E-03	3.7E-02	1.6E-01
Toluene	6.8E-04	3.0E-03	5.0E-02	2.2E-01
Ethylbenzene	1.3E-04	5.5E-04	9.2E-03	4.0E-02
Xylene	6.6E-04	2.9E-03	4.9E-02	2.1E-01
Formaldehyde	5.1E-03	2.2E-02	3.8E-01	1.6E+00
n-Hexane	8.5E-05	3.7E-04	6.3E-03	2.7E-02
CO_2e	8.6E+01	3.8E+02	6.3E+03	2.8E+04

[1] Emission factors are the emission rates divided by total acres of the WOC and Airstrip.

Table B-5i Emissions for Bulk Materials Transport and Sealift Module Delivery Option 3 (Ocean Point Crossing)

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kton)	Annual (ton/year-kton)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.5E-01	6.6E-01	6.4E+00	2.8E+01
CO	3.9E-02	1.7E-01	1.6E+00	7.1E+00
SO_2	1.4E-02	6.0E-02	5.7E-01	2.5E+00
PM_{10}	6.0E-03	2.6E-02	2.5E-01	1.1E+00
$PM_{2.5}$	5.7E-03	2.5E-02	2.4E-01	1.1E+00
VOC	6.5E-03	2.9E-02	2.8E-01	1.2E+00
Benzene	2.0E-04	8.6E-04	8.2E-03	3.6E-02
Toluene	1.4E-05	6.3E-05	6.0E-04	2.6E-03
Ethylbenzene	9.0E-06	3.9E-05	3.8E-04	1.6E-03
Xylene	2.2E-05	9.4E-05	9.0E-04	4.0E-03
Formaldehyde	6.7E-04	2.9E-03	2.8E-02	1.2E-01
n-Hexane	2.5E-05	1.1E-04	1.0E-03	4.5E-03
CO_2e	8.0E+00	3.5E+01	3.4E+02	1.5E+03

[1] Emission factors are the emission rates divided by the total weight of modules (WCF and drillsite modules) transferred via Oliktok Dock in thousands of tons (kton).

Table B-5j Emissions for Gravel Mining

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-MCY)	Annual (ton/year-MCY)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.4E+00	6.1E+00	6.1E+00	2.7E+01
CO	3.4E+00	1.5E+01	1.5E+01	6.5E+01
SO_2	9.5E-02	4.2E-01	4.2E-01	1.8E+00
PM_{10}	1.1E-01	4.9E-01	4.9E-01	2.2E+00
$PM_{2.5}$	3.5E-02	1.5E-01	1.5E-01	6.8E-01
VOC	7.6E-02	3.3E-01	3.3E-01	1.5E+00
Benzene	1.9E-03	8.3E-03	8.4E-03	3.7E-02
Toluene	2.3E-03	1.0E-02	1.0E-02	4.4E-02
Ethylbenzene	4.4E-04	1.9E-03	2.0E-03	8.6E-03
Xylene	2.2E-03	9.5E-03	9.5E-03	4.2E-02
Formaldehyde	1.8E-02	7.9E-02	7.9E-02	3.5E-01
n-Hexane	2.7E-04	1.2E-03	1.2E-03	5.2E-03
CO_2e	2.4E+02	1.0E+03	1.0E+03	4.6E+03

[1] Emission factors are the emission rates divided by total gravel volume in million cubic yards (MCY).

Table B-5k Emissions for Construction Traffic

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kmile)	Annual (ton/year-kmile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.2E-04	5.3E-04	3.1E+00	1.4E+01
CO	1.0E-04	4.5E-04	2.7E+00	1.2E+01
SO_2	4.4E-07	1.9E-06	1.1E-02	5.0E-02
PM_{10}	9.5E-04	4.2E-03	2.4E+01	1.1E+02
$PM_{2.5}$	1.0E-04	4.4E-04	2.6E+00	1.1E+01
VOC	1.9E-05	8.5E-05	5.0E-01	2.2E+00
Benzene	1.5E-07	6.4E-07	3.8E-03	1.7E-02
Toluene	1.3E-07	5.9E-07	3.5E-03	1.5E-02
Ethylbenzene	5.4E-08	2.4E-07	1.4E-03	6.1E-03
Xylene	1.4E-07	6.2E-07	3.7E-03	1.6E-02
Formaldehyde	1.6E-06	7.1E-06	4.2E-02	1.8E-01
n-Hexane	4.5E-08	2.0E-07	1.2E-03	5.1E-03
CO_2e	5.3E-02	2.3E-01	1.4E+03	6.0E+03

[1] Emission factors are the emission rates divided by total number of construction traffic miles in thousands of miles (kmile).

Table B-5l Emissions for Early Operations Power Generation at the WOC

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kWe)	Annual (ton/year-kWe)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	4.8E-03	2.1E-02	7.1E+01	3.1E+02
CO	3.9E-03	1.7E-02	5.7E+01	2.5E+02
SO_2	1.5E-05	6.5E-05	2.2E-01	9.5E-01
PM_{10}	1.3E-04	5.7E-04	1.9E+00	8.3E+00
$PM_{2.5}$	1.3E-04	5.7E-04	1.9E+00	8.3E+00
VOC	2.0E-04	8.9E-04	3.0E+00	1.3E+01
Benzene	1.5E-06	6.4E-06	2.1E-02	9.3E-02
Toluene	3.6E-07	1.6E-06	5.3E-03	2.3E-02
Ethylbenzene	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Xylene	2.5E-07	1.1E-06	3.6E-03	1.6E-02
Formaldehyde	2.4E-06	1.1E-05	3.5E-02	1.6E-01
n-Hexane	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CO_2e	1.5E+00	6.8E+00	2.3E+04	9.9E+04

[1] Emission factors are the emission rates divided by total power at the WOC in kilowatts electric (kWe).

Table B-5m Emissions for Drilling of All Wells at Drillsite Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-well)	Annual (ton/year-well)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	2.1E-01	9.0E-01	4.5E+01	2.0E+02
CO	5.5E-01	2.4E+00	1.2E+02	5.3E+02
SO_2	1.6E-03	6.8E-03	3.4E-01	1.5E+00
PM_{10}	1.3E-02	5.7E-02	2.9E+00	1.3E+01
$PM_{2.5}$	1.3E-02	5.5E-02	2.8E+00	1.2E+01
VOC	1.3E-01	5.9E-01	2.9E+01	1.3E+02
Benzene	4.5E-04	2.0E-03	9.8E-02	4.3E-01
Toluene	2.3E-04	9.9E-04	5.0E-02	2.2E-01
Ethylbenzene	1.7E-05	7.6E-05	3.8E-03	1.7E-02
Xylene	1.4E-04	5.9E-04	3.0E-02	1.3E-01
Formaldehyde	3.5E-04	1.5E-03	7.7E-02	3.4E-01
n-Hexane	3.4E-03	1.5E-02	7.4E-01	3.2E+00
CO_2e	1.3E+02	5.8E+02	2.9E+04	1.3E+05

[1] Emission factors are the emission rates divided by total number of wells drilled at all drillsite pads.

Table B-5n Emissions for Drilling Traffic

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kmile)	Annual (ton/year-kmile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	4.8E-04	2.1E-03	2.6E+00	1.1E+01
CO	2.0E-04	8.8E-04	1.1E+00	4.7E+00
SO_2	1.8E-06	8.1E-06	9.7E-03	4.3E-02
PM_{10}	1.1E-02	4.7E-02	5.6E+01	2.5E+02
$PM_{2.5}$	1.1E-03	4.8E-03	5.8E+00	2.5E+01
VOC	6.3E-05	2.8E-04	3.3E-01	1.5E+00
Benzene	5.6E-07	2.4E-06	3.0E-03	1.3E-02
Toluene	6.7E-07	2.9E-06	3.5E-03	1.5E-02
Ethylbenzene	2.2E-07	9.7E-07	1.2E-03	5.1E-03
Xylene	7.5E-07	3.3E-06	4.0E-03	1.7E-02
Formaldehyde	6.8E-06	3.0E-05	3.6E-02	1.6E-01
n-Hexane	2.0E-07	8.5E-07	1.0E-03	4.5E-03
CO_2e	2.2E-01	9.8E-01	1.2E+03	5.2E+03

[1] Emission factors are the emission rates divided by total number of drilling traffic miles in thousands of miles (kmile).

Table B-5o Emissions for Operations of All Drillsite Pads

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-pad)	Annual (ton/year-pad)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.8E+00	7.8E+00	7.1E+00	3.1E+01
CO	1.5E+00	6.5E+00	6.0E+00	2.6E+01
SO_2	5.2E-02	2.3E-01	2.1E-01	9.1E-01
PM_{10}	2.1E-01	9.0E-01	8.2E-01	3.6E+00
$PM_{2.5}$	1.2E-01	5.2E-01	4.7E-01	2.1E+00
VOC	2.3E+01	1.0E+02	9.3E+01	4.1E+02
Benzene	2.4E-02	1.0E-01	9.4E-02	4.1E-01
Toluene	6.6E-02	2.9E-01	2.7E-01	1.2E+00
Ethylbenzene	5.9E-01	2.6E+00	2.4E+00	1.0E+01
Xylene	1.2E+00	5.1E+00	4.6E+00	2.0E+01
Formaldehyde	8.4E-04	3.7E-03	3.3E-03	1.5E-02
n-Hexane	1.4E+00	6.3E+00	5.8E+00	2.5E+01
CO_2e	1.3E+03	5.9E+03	5.4E+03	2.4E+04

[1] Emission factors are the emission rates divided by number of drillsite pads.

Table B-5p Emissions for Operations of WCF

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kbbl/day)	Annual (ton/year-kbbl/day)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	5.7E-01	2.5E+00	1.1E+02	5.0E+02
CO	5.5E-01	2.4E+00	1.1E+02	4.8E+02
SO_2	5.4E-02	2.4E-01	1.1E+01	4.8E+01
PM_{10}	6.2E-02	2.7E-01	1.2E+01	5.4E+01
$PM_{2.5}$	6.1E-02	2.7E-01	1.2E+01	5.3E+01
VOC	2.1E-01	9.2E-01	4.2E+01	1.8E+02
Benzene	2.7E-04	1.2E-03	5.3E-02	2.3E-01
Toluene	1.2E-03	5.3E-03	2.4E-01	1.1E+00
Ethylbenzene	3.3E-04	1.5E-03	6.7E-02	2.9E-01
Xylene	6.6E-04	2.9E-03	1.3E-01	5.8E-01
Formaldehyde	2.0E-03	8.5E-03	3.9E-01	1.7E+00
n-Hexane	8.8E-03	3.9E-02	1.8E+00	7.7E+00
CO_2e	9.8E+02	4.3E+03	2.0E+05	8.5E+05

[1] Emission factors are the emission rates divided by WCF operating capacity in thousands of barrels per day (kbbl/day).

Table B-5q Emissions for Operations of WOC and Airstrip

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-person)	Annual (ton/year-person)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.3E-01	5.7E-01	2.6E+01	1.1E+02
CO	1.2E-01	5.1E-01	2.3E+01	1.0E+02
SO_2	4.4E-03	1.9E-02	8.9E-01	3.9E+00
PM_{10}	1.8E-02	8.0E-02	3.7E+00	1.6E+01
$PM_{2.5}$	1.6E-02	7.2E-02	3.3E+00	1.4E+01
VOC	1.8E-02	7.7E-02	3.5E+00	1.5E+01
Benzene	8.6E-05	3.7E-04	1.7E-02	7.5E-02
Toluene	1.1E-04	4.7E-04	2.2E-02	9.5E-02
Ethylbenzene	2.0E-05	8.6E-05	3.9E-03	1.7E-02
Xylene	5.8E-05	2.6E-04	1.2E-02	5.1E-02
Formaldehyde	1.5E-04	6.5E-04	3.0E-02	1.3E-01
n-Hexane	4.3E-06	1.9E-05	8.7E-04	3.8E-03
CO_2e	9.4E+01	4.1E+02	1.9E+04	8.2E+04

[1] Emission factors are the emission rates divided by number of personnel housed at the WOC.

Table B-5r Emissions for Aircraft Flights

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-flight/yr)	Annual (ton/year-flight/yr)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.5E-03	6.7E-03	8.0E-01	3.5E+00
CO	2.5E-03	1.1E-02	1.3E+00	5.7E+00
SO_2	2.0E-04	8.8E-04	1.1E-01	4.6E-01
PM_{10}	5.1E-05	2.3E-04	2.7E-02	1.2E-01
$PM_{2.5}$	5.1E-05	2.3E-04	2.7E-02	1.2E-01
VOC	4.7E-04	2.0E-03	2.4E-01	1.1E+00
Benzene	7.7E-06	3.4E-05	4.1E-03	1.8E-02
Toluene	3.0E-06	1.3E-05	1.6E-03	6.9E-03
Ethylbenzene	8.1E-07	3.5E-06	4.2E-04	1.9E-03
Xylene	2.1E-06	9.0E-06	1.1E-03	4.7E-03
Formaldehyde	5.7E-05	2.5E-04	3.0E-02	1.3E-01
n-Hexane	8.9E-09	3.9E-08	4.7E-06	2.1E-05
CO_2e	5.4E-01	2.3E+00	2.8E+02	1.2E+03

[1] Emission factors are the emission rates divided by the average number of flights per year.

Table B-5s Emissions for Operations Traffic

Pollutant	Emission Factor[1]		Emission Rates	
	Short-Term (lb/hr-kmile)	Annual (ton/year-kmile)	Short-Term (lb/hr)	Annual (ton/yr)
NO_x	1.3E-04	5.6E-04	6.9E-01	3.0E+00
CO	8.0E-05	3.5E-04	4.3E-01	1.9E+00
SO_2	5.1E-07	2.2E-06	2.8E-03	1.2E-02
PM_{10}	4.1E-03	1.8E-02	2.2E+01	9.6E+01
$PM_{2.5}$	4.1E-04	1.8E-03	2.2E+00	9.8E+00
VOC	1.8E-05	7.8E-05	9.6E-02	4.2E-01
Benzene	1.6E-07	6.8E-07	8.4E-04	3.7E-03
Toluene	1.8E-07	7.8E-07	9.7E-04	4.2E-03
Ethylbenzene	6.1E-08	2.7E-07	3.3E-04	1.4E-03
Xylene	2.0E-07	8.7E-07	1.1E-03	4.7E-03
Formaldehyde	1.8E-06	8.1E-06	1.0E-02	4.4E-02
n-Hexane	5.4E-08	2.4E-07	2.9E-04	1.3E-03
CO_2e	6.2E-02	2.7E-01	3.3E+02	1.5E+03

[1] Emission factors are the emission rates divided by total number of operation traffic miles in thousands of miles (kmile).

Table B-6 Average Annual Emissions per Well

Pollutant	Emissions (ton/year/well)			
	Directional Oil Wells		Directional Injection Wells	
	New Well (Construction and Drilling)	Well > 1 Year (Production and Operations)	New Well (Construction and Drilling)	Well > 1 Year (Production and Operations)
NO_x	1.4	3.0	1.4	3.0
CO	1.4	2.9	1.4	2.9
SO_2	0.010	0.24	0.010	0.24
PM_{10}	1.03	0.78	1.03	0.78
$PM_{2.5}$	0.16	0.37	0.16	0.37
VOC	0.23	2.8	0.23	2.8
Benzene	1.7E-03	3.4E-03	1.7E-03	3.4E-03
Toluene	1.6E-03	1.1E-02	1.6E-03	1.1E-02
Ethylbenzene	2.9E-04	4.8E-02	2.9E-04	4.8E-02
Xylene	1.4E-03	9.6E-02	1.4E-03	9.6E-02
Formaldehyde	1.1E-02	9.0E-03	1.1E-02	9.0E-03
n-Hexane	3.9E-03	1.5E-01	3.9E-03	1.5E-01
CO_2e	512	4400	512	4400

Table B-7 Estimated Rate of Development

Project Year	Number of Drill Rigs Operating in the Willow Field	Number of Active Producing Wells Represented in the EI	Number of Active Injection Wells Represented in the EI
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	2	20	20
5	2	40	40
6	2	60	60
7	2	79	79
8	1	90	90
9	1	101	100
10	1	110	109
11	0	110	109
12	0	110	109
13	0	110	109
14	0	110	109
15	0	110	109
16	0	110	109
17	0	110	109
18	0	110	109
19	0	110	109
20	0	110	109
21	0	110	109
22	0	110	109
23	0	110	109
24	0	110	109
25	0	110	109
26	0	110	109
27	0	110	109
28	0	110	109
29	0	110	109
30	0	110	109

Table B-8 Annual Emissions from Construction, Drilling, and Completion Activities

Project Year	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC
0	17.1	25.0	0.662	1.01	0.473	1.12
1	431	354	3.2	80.3	20.3	26.1
2	452	362	4.1	101	22.9	26.1
3	531	397	3.7	211	37.5	36.1
4	735	791	4.1	333	61.1	105.5
5	275	433	1.4	362	52.2	75.6
6	189	203	1.6	276	38.8	67.4
7	178	215	2.1	376	46.7	66.4
8	73.4	85.0	0.368	193	23.7	32.0
9	54.2	74.4	0.309	162	19.4	29.6
10	54.2	74.4	0.309	162	19.4	29.6
11	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0
16-30	0.0	0.0	0.0	0.0	0.0	0.0

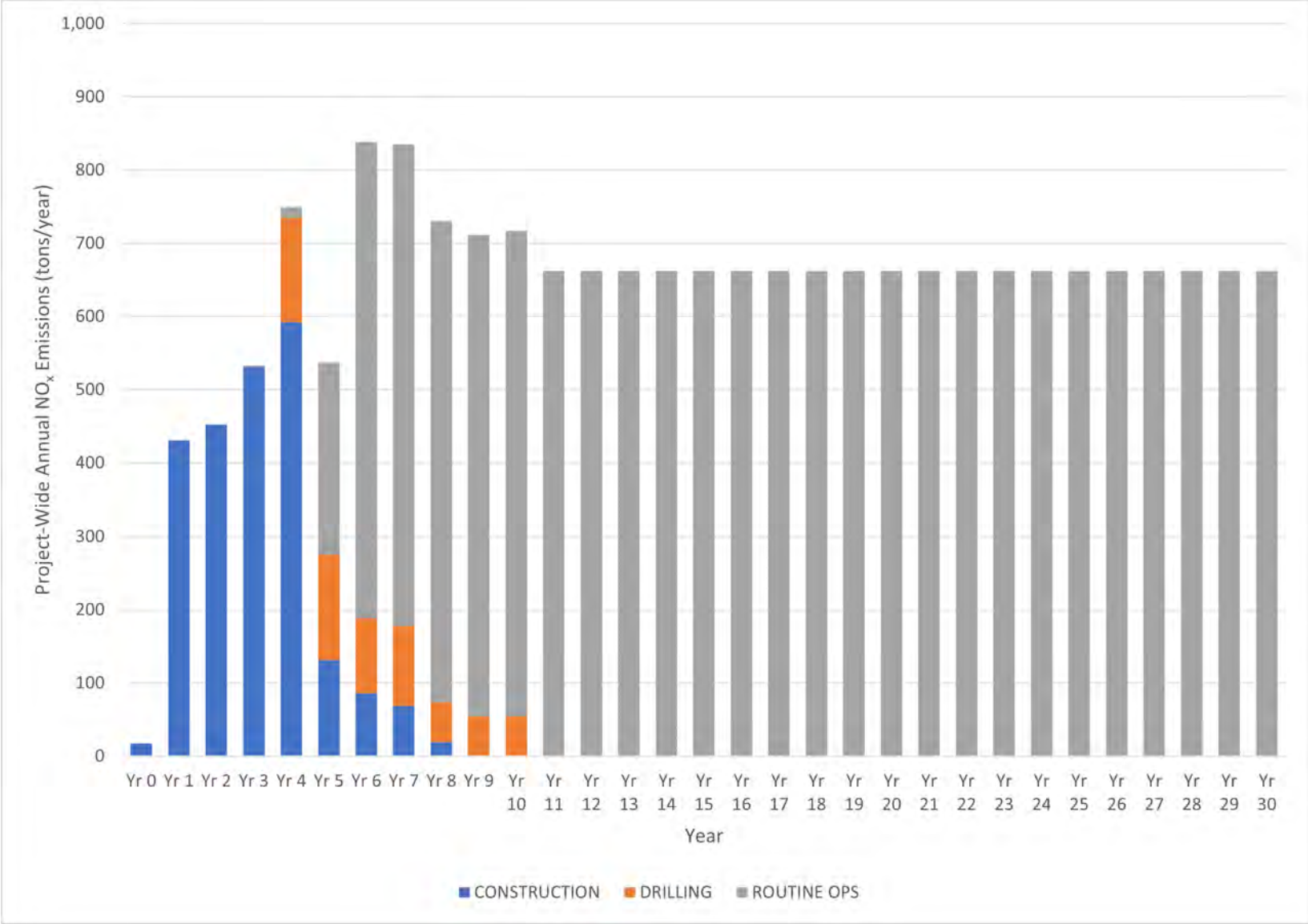


Figure B-1a Bar Chart of Annual Emissions for Each Phase of Development for NO_x

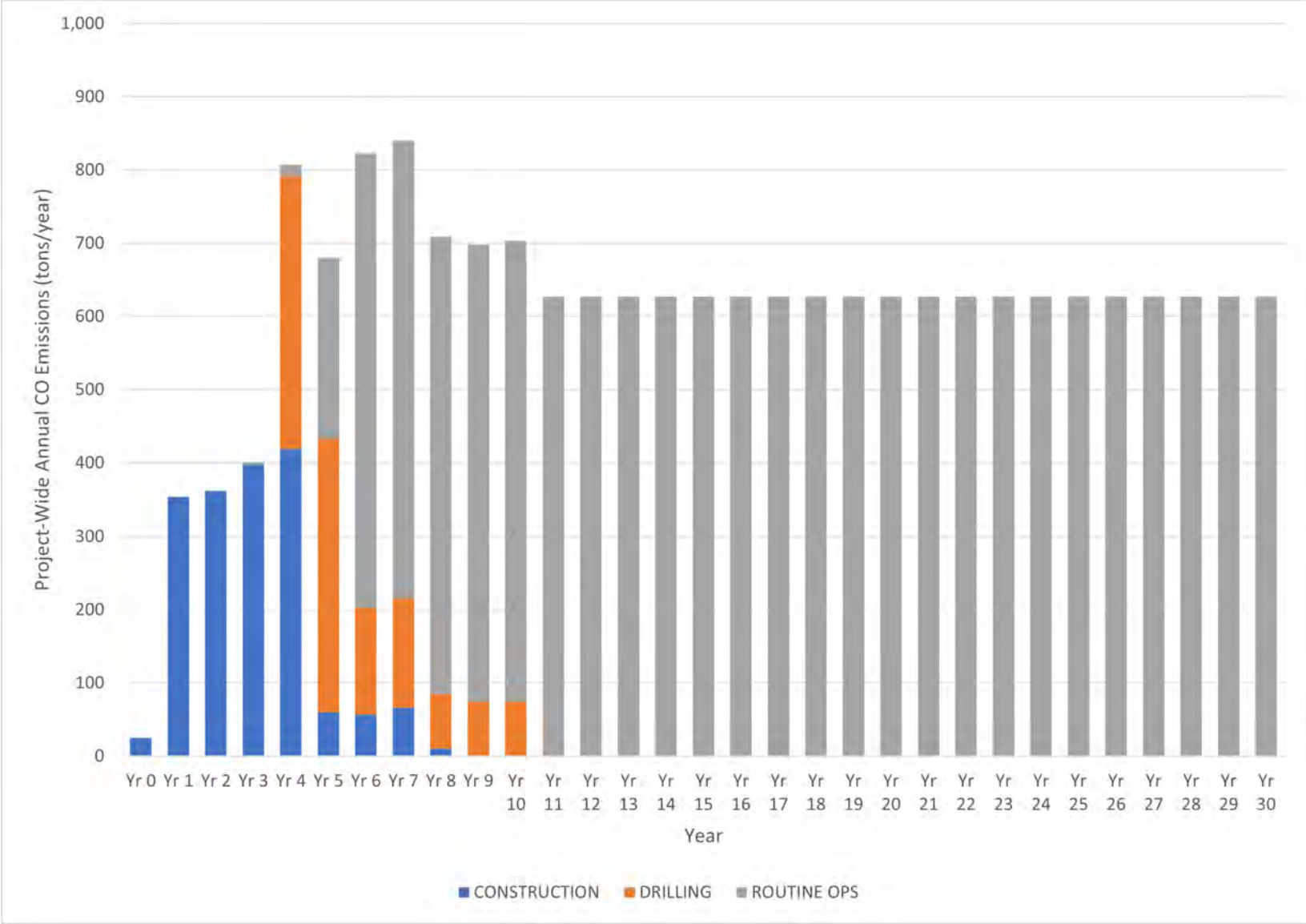


Figure B-1b Bar Chart of Annual Emissions for Each Phase of Development for CO

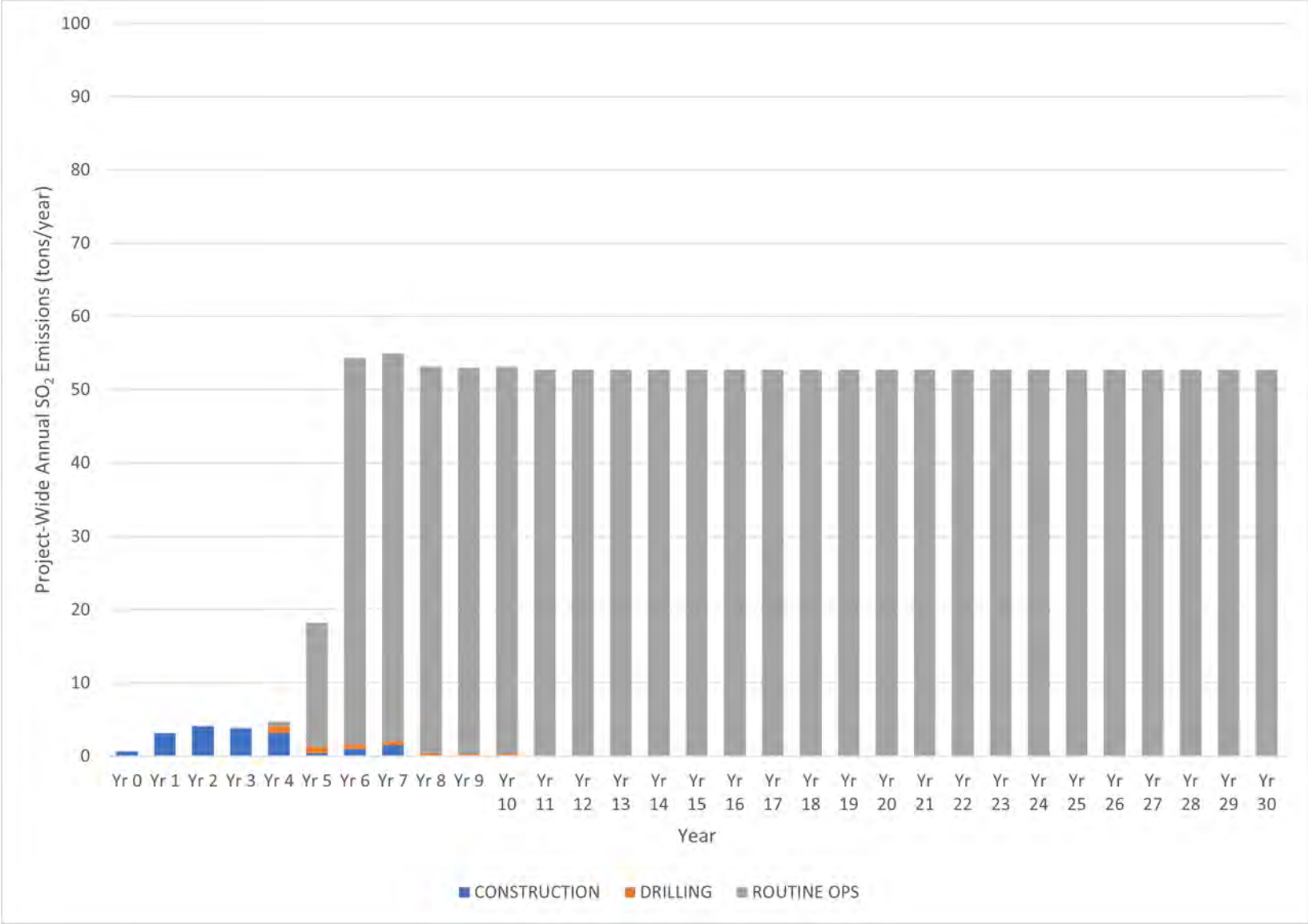


Figure B-1c Bar Chart of Annual Emissions for Each Phase of Development for SO_2

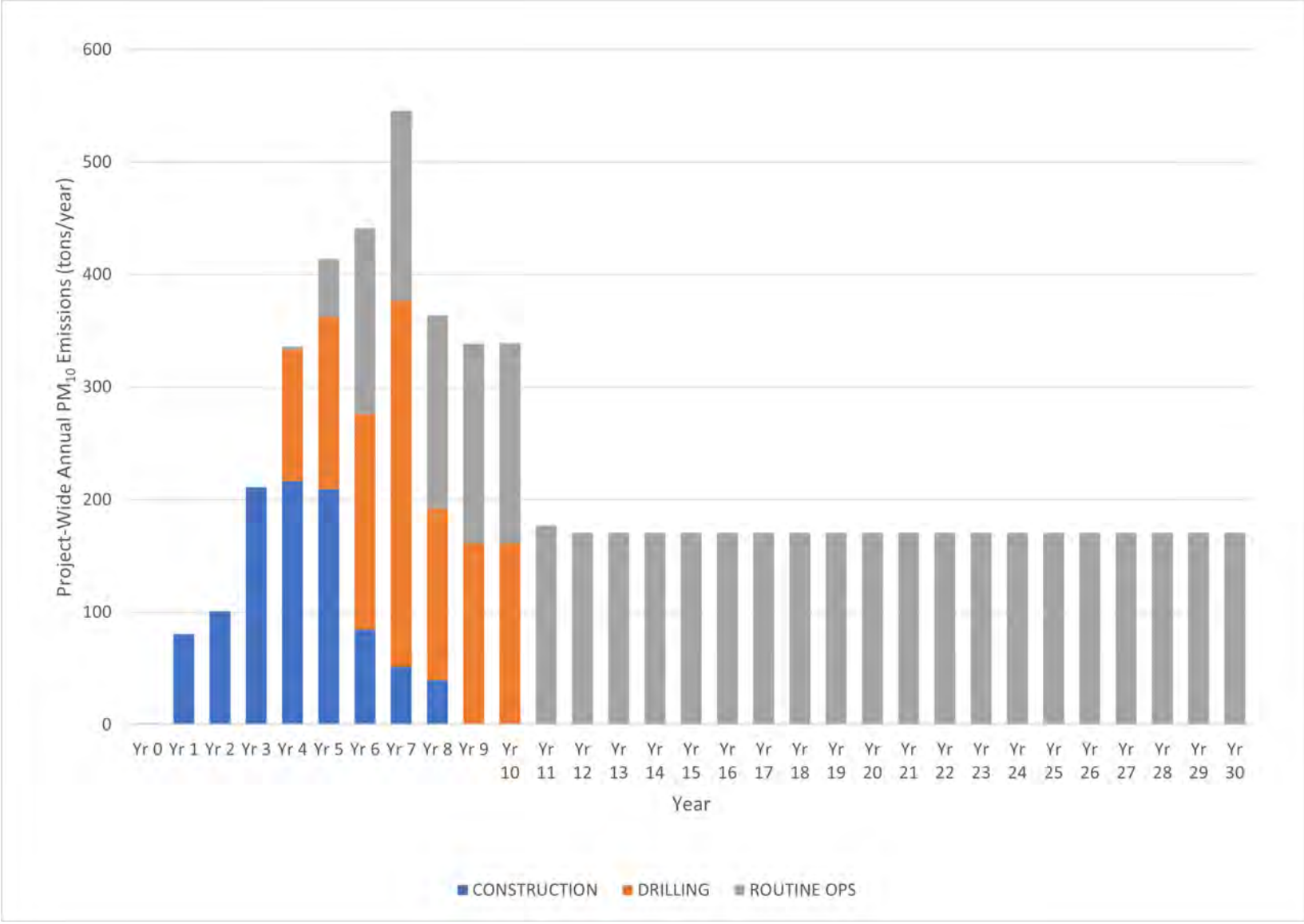


Figure B-1d Bar Chart of Annual Emissions for Each Phase of Development for PM_{10}

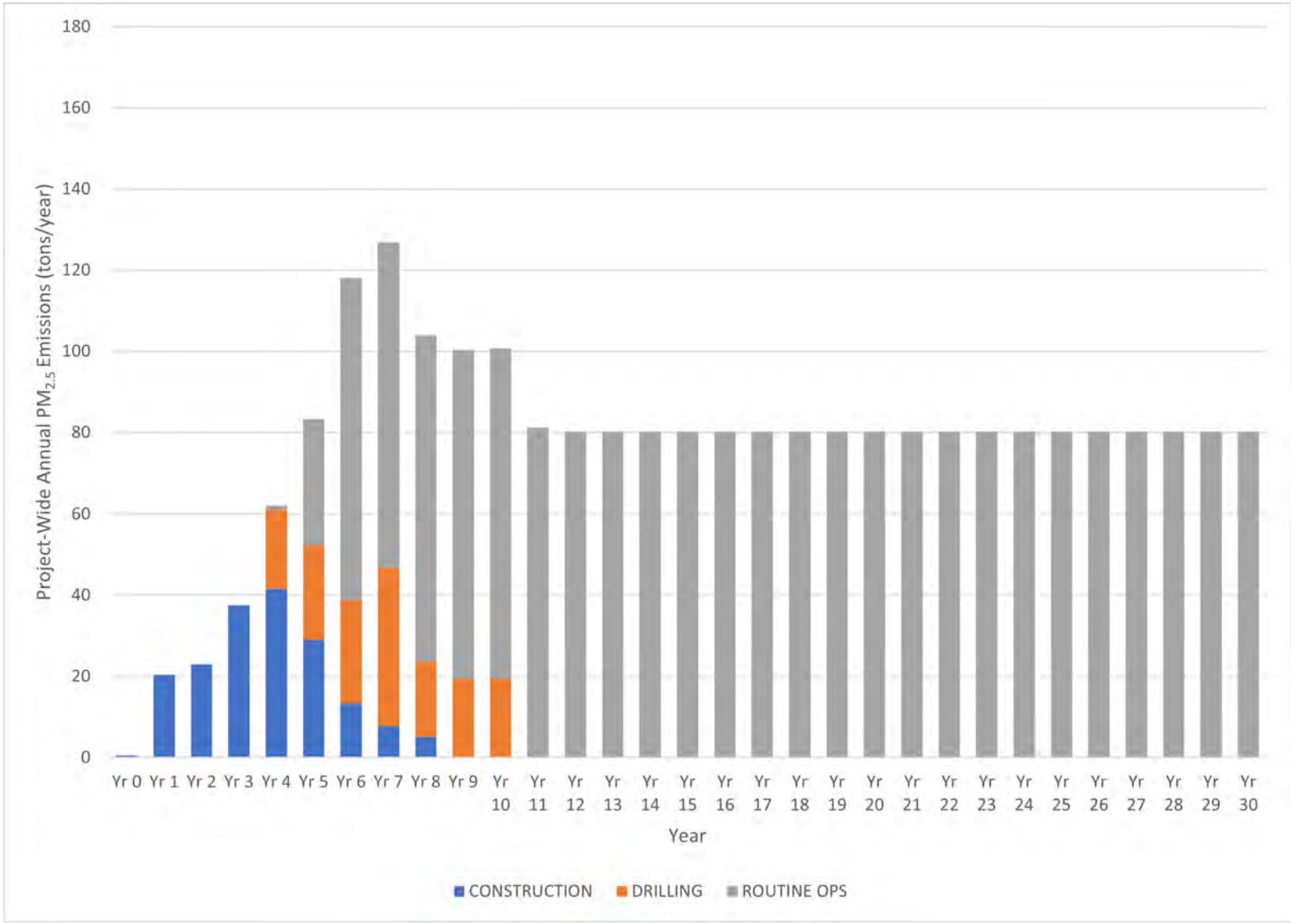


Figure B-1e Bar Chart of Annual Emissions for Each Phase of Development for $PM_{2.5}$

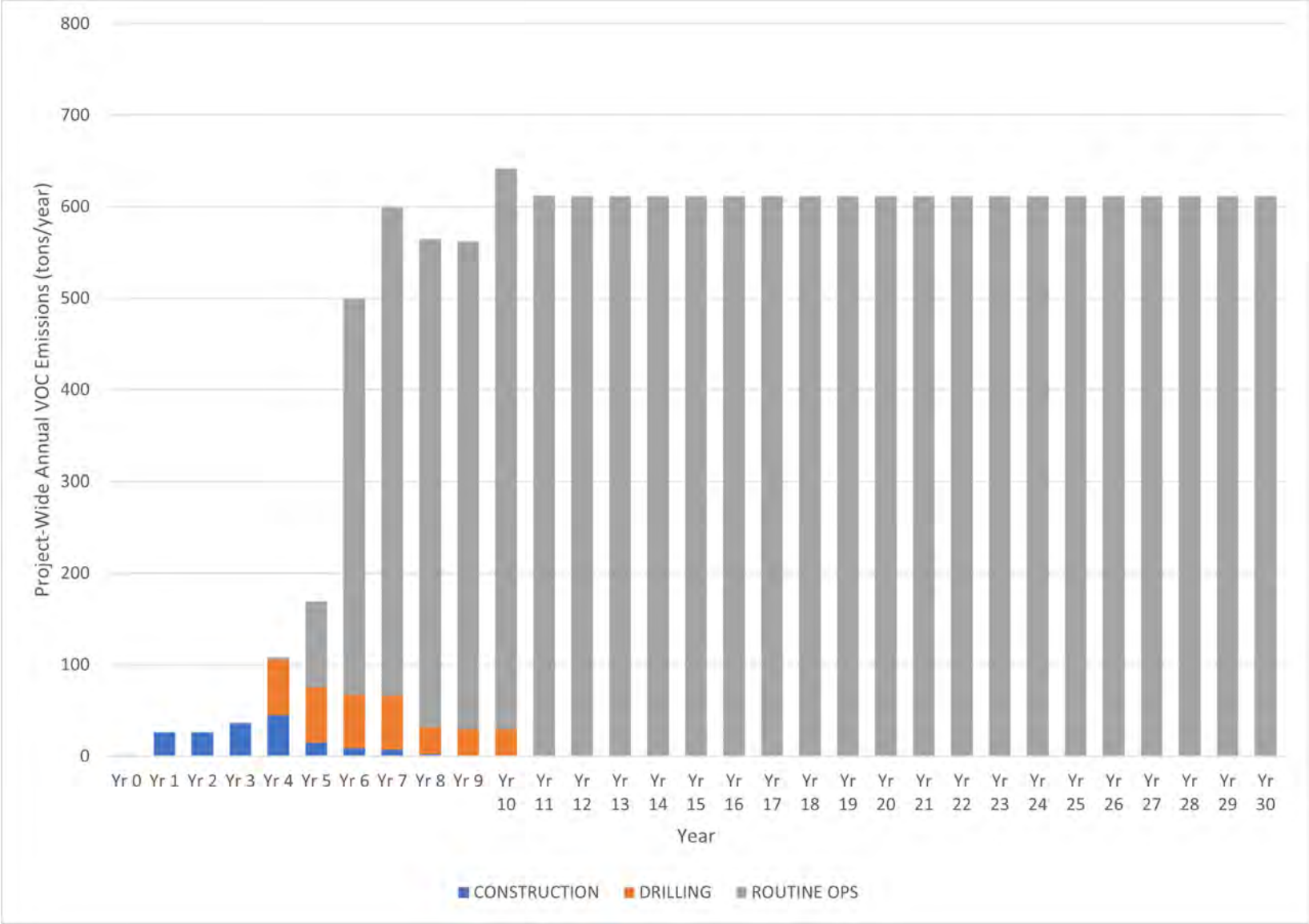


Figure B-1f Bar Chart of Annual Emissions for Each Phase of Development for VOC

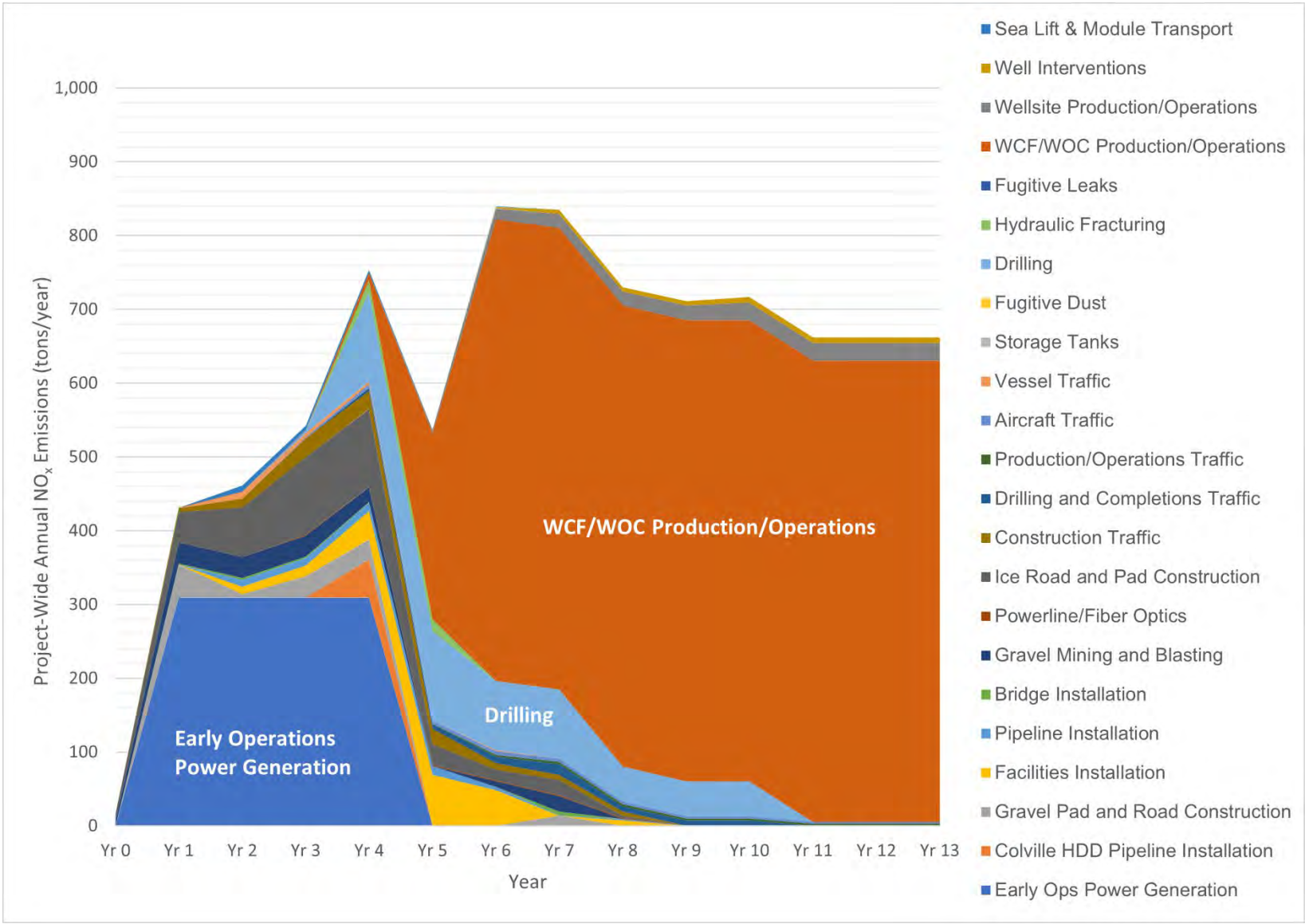


Figure B-2a Emissions by Source Type and Year for NO_x

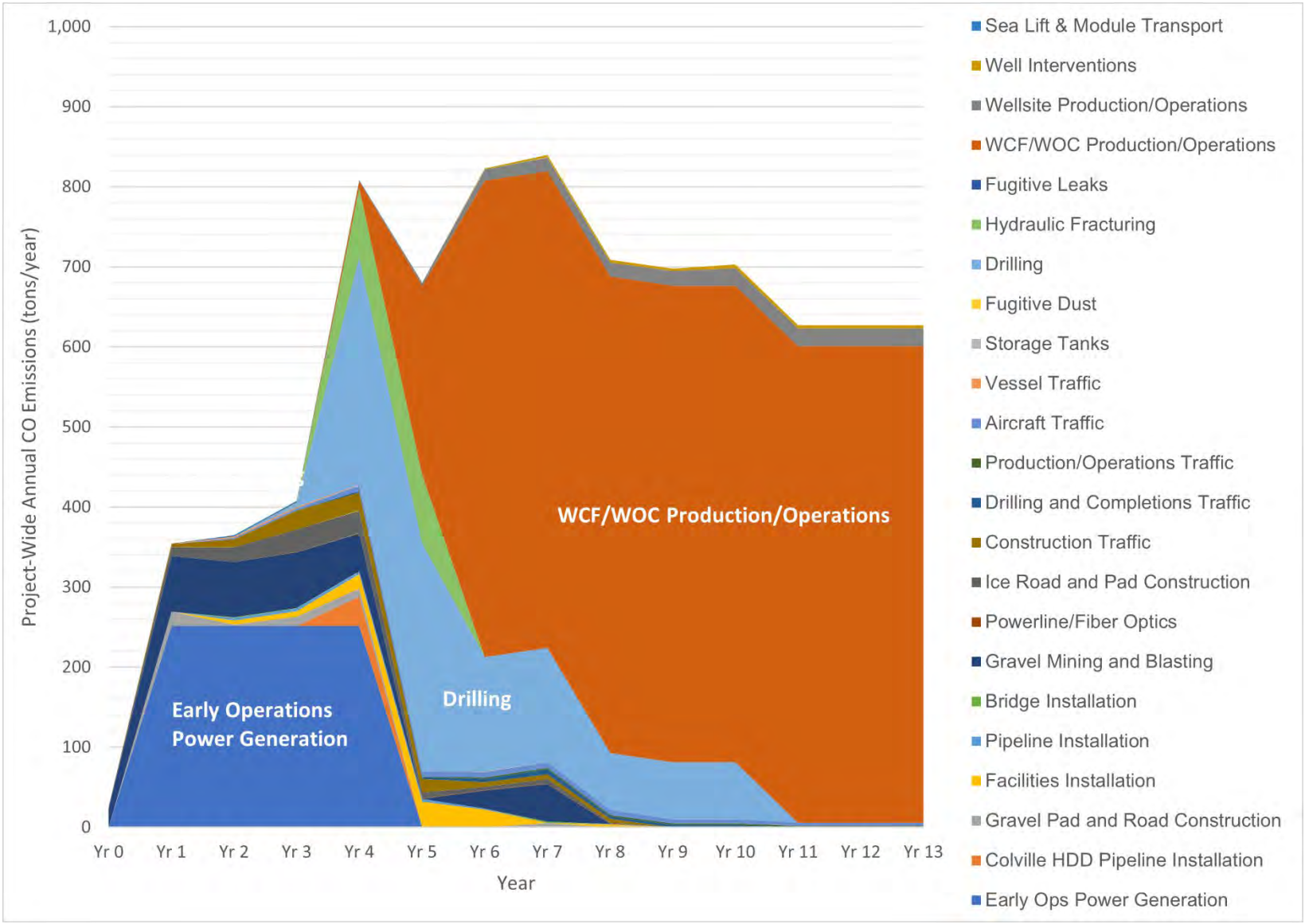


Figure B-2b Emissions by Source Type and Year for CO

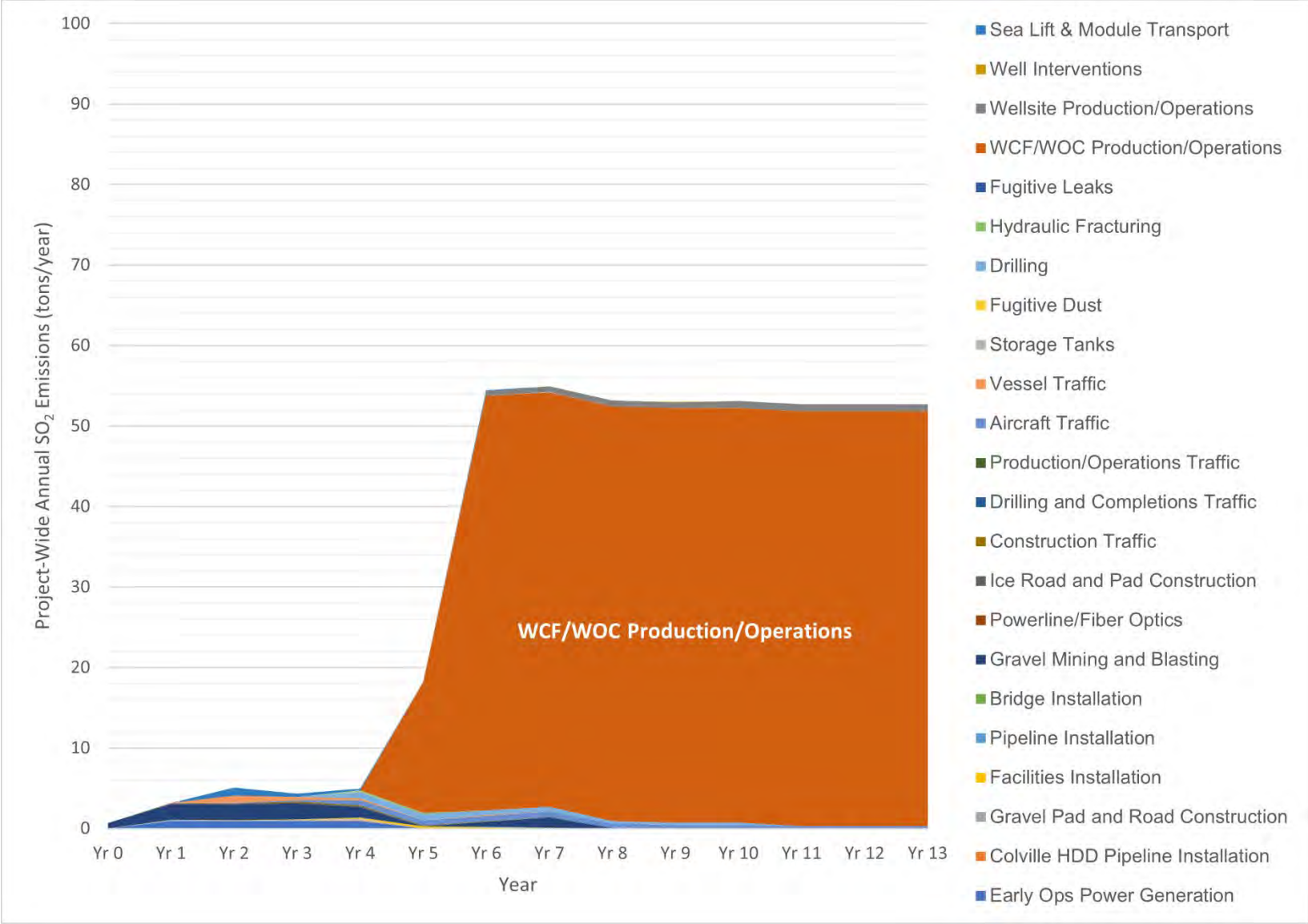


Figure B-2c Emissions by Source Type and Year for SO_2

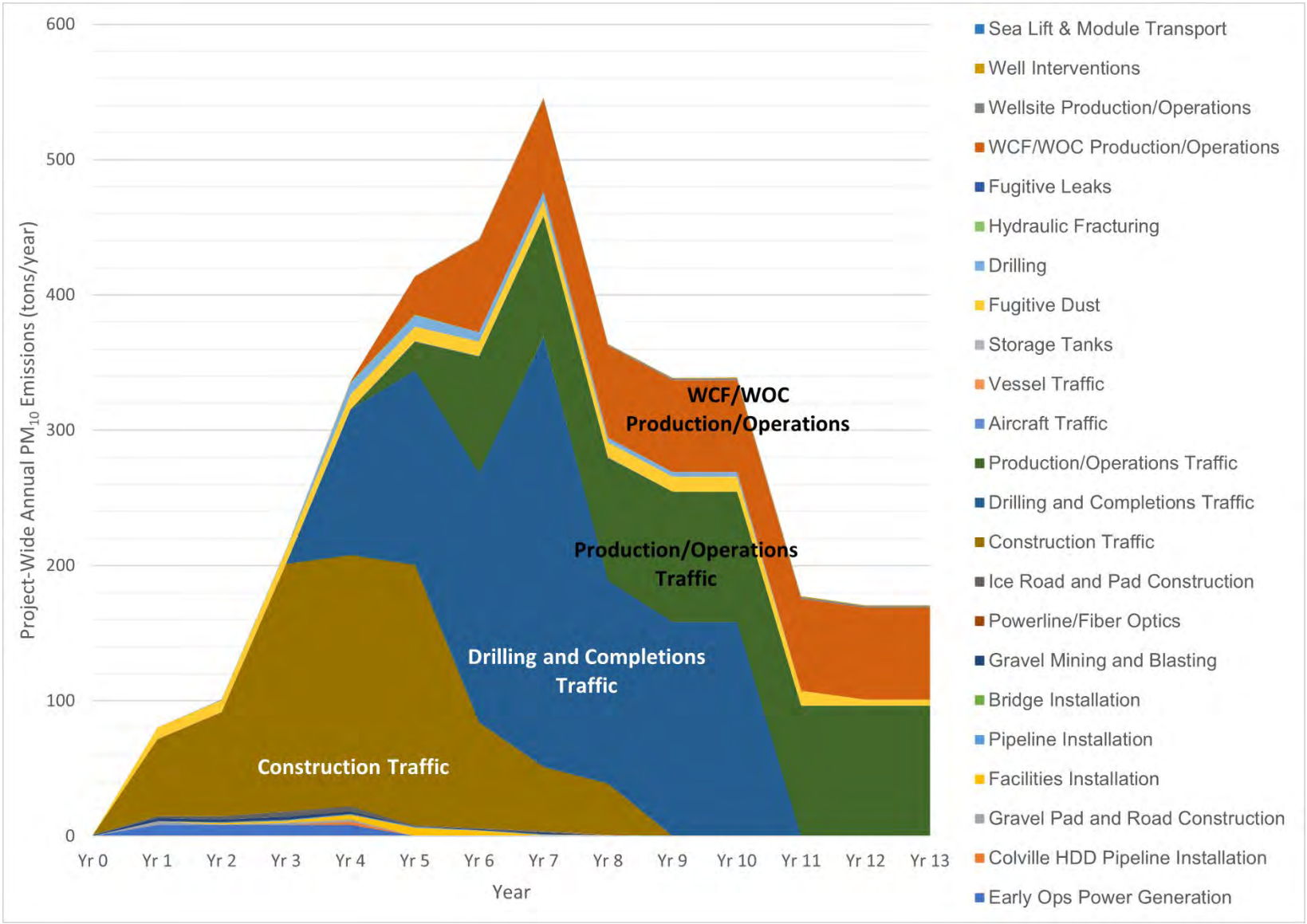


Figure B-2d Emissions by Source Type and Year for PM_{10}

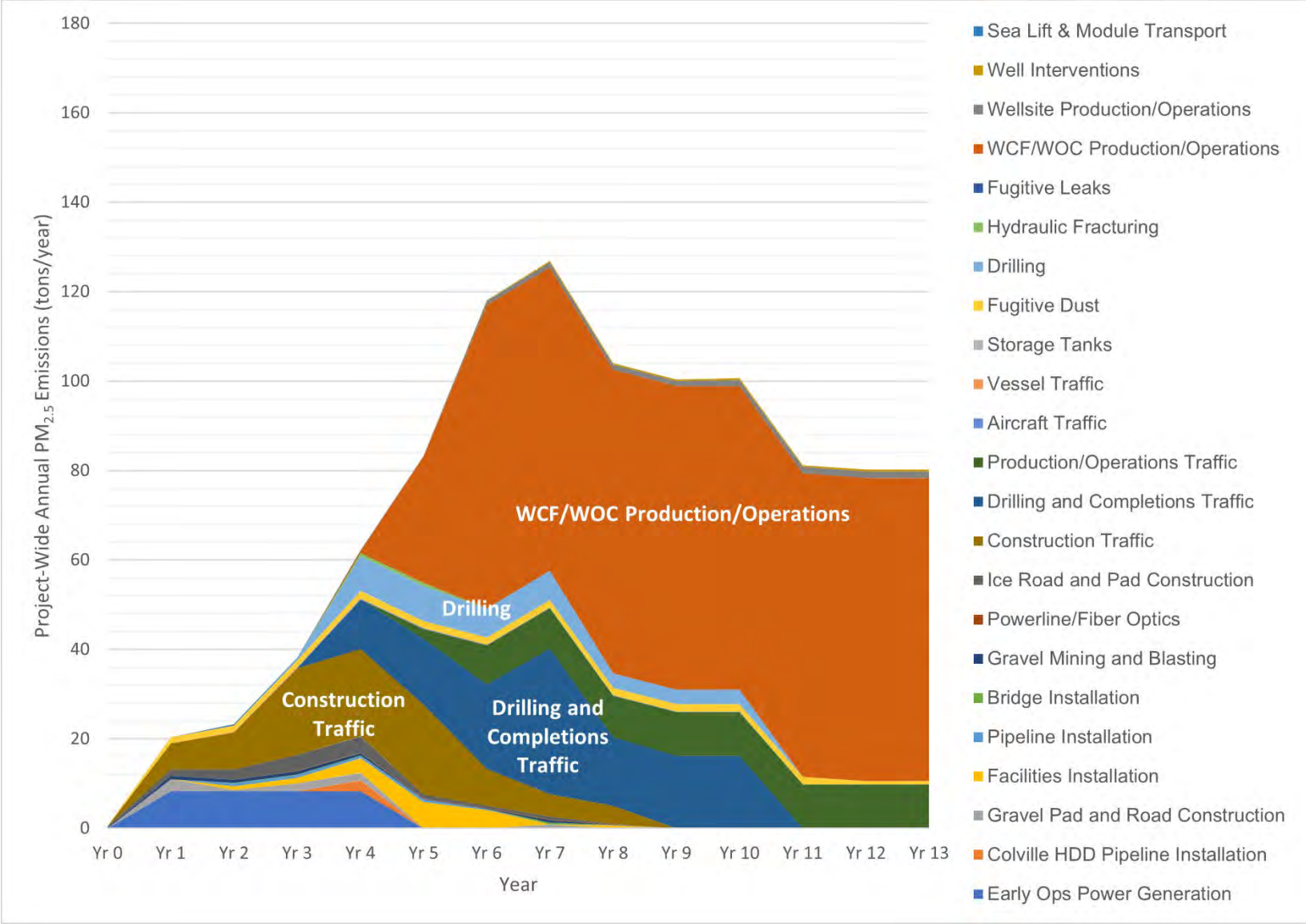


Figure B-2e Emissions by Source Type and Year for $PM_{2.5}$

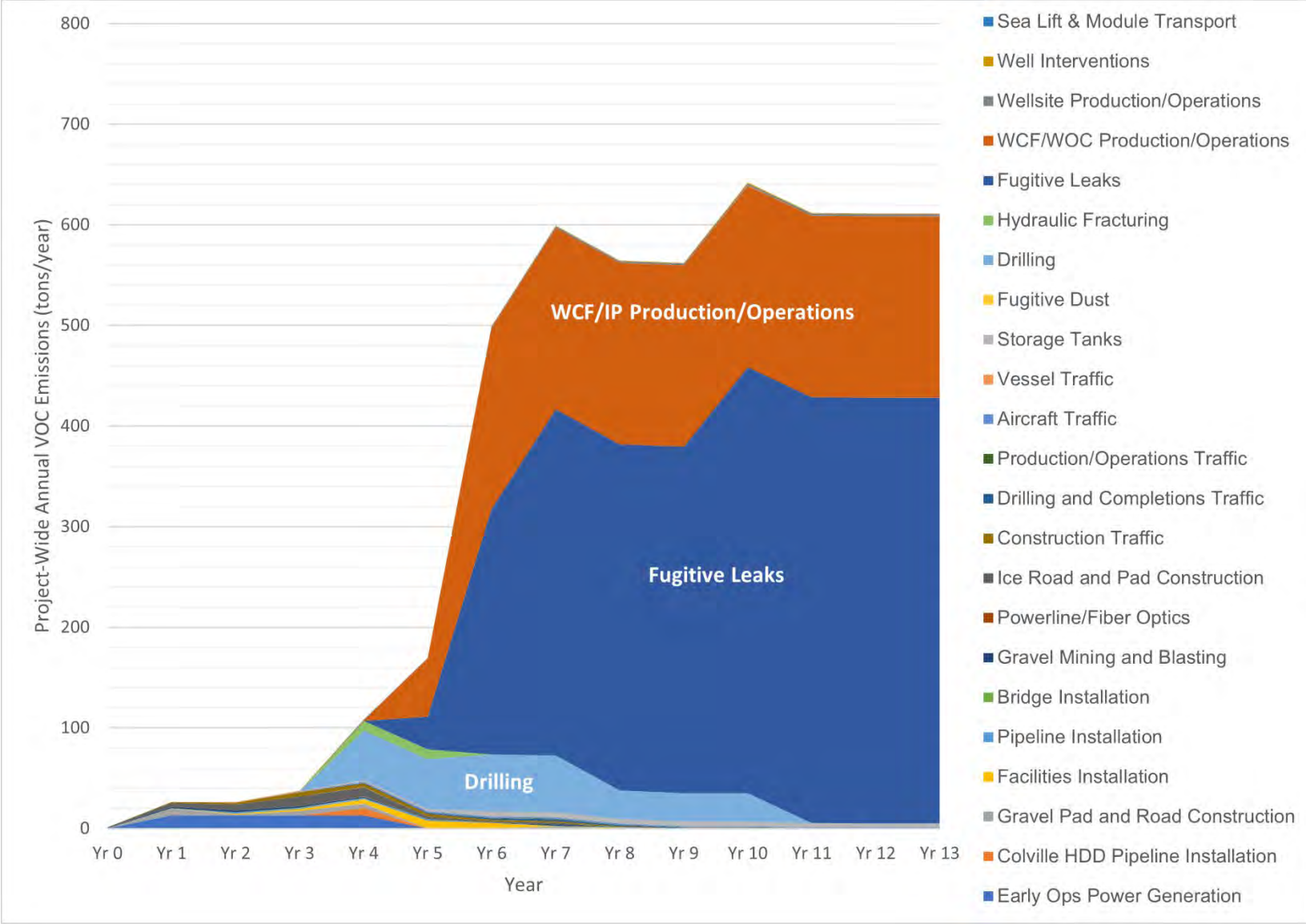


Figure B-2f Emissions by Source Type and Year for VOC

APPENDIX C
PROJECT EMISSIONS INVENTORY

ALTERNATIVE E
EMISSIONS INVENTORY REPORT

ConocoPhillips Alaska, Inc.
700 G Street
Anchorage, AK 99510

February 2022

SUMMARY

The emissions inventory is electronically enclosed as a set of Microsoft Excel spreadsheets. These spreadsheets are organized as described in **Table C-1**.

Table C-1. Organization of Emissions Calculation Spreadsheets Electronically Enclosed

Spreadsheet(s)	Description of Contents
Willow_AltBT2N_Emissions_Summary_NEW.xlsx	Overall summary of monthly emissions by pollutant for Alternative E.
Willow_AltBT2N_EI-Construction-BT1.xlsx Willow_AltBT2N_EI-Construction-BT2.xlsx Willow_AltBT2N_EI-Construction-BT3.xlsx Willow_AltBT2N_EI-Construction-BT5.xlsx	Construction-related emissions calculations for each of the four Willow drillsites (BT1, BT2, BT3, and BT5).
Willow_AltBT2N_EI-Construction-WCF+WOC+Airstrip.xlsx	Construction-related emissions calculations for the WCF, WOC, and Willow Airstrip.
Willow_AltBT2N_EI-General Activities.xlsx	Emissions calculations for a variety of activities occurring throughout the development, at multiple undefined locations, or outside the development. These types of activities include certain aspects of road, bridge, pipeline, and utility lines construction, vehicle traffic, drilling throughout the development, connected activities at the ACF, fugitive sources, and others.
Willow_AltBT2N_EI-Non-Construction-BT1.xlsx Willow_AltBT2N_EI-Non-Construction-BT2.xlsx Willow_AltBT2N_EI-Non-Construction-BT3.xlsx Willow_AltBT2N_EI-Non-Construction-BT5.xlsx	Routine operations and drilling-related emissions calculations for each of the four Willow drillsites (BT1, BT2, BT3, and BT5).
Willow_AltBT2N_EI-Non-Construction-WCF+WOC+Airstrip.xlsx	Routine operations-related emissions calculations for the WCF, WOC, and Willow Airstrip.

ATTACHMENT H

Near-field Modeling Analysis for Alternative E

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H.1 Alternative E

This attachment describes the dispersion model, inputs and settings used to analyze impacts from Alternative E. Model inputs and settings used to analyze impacts from Alternative B, Alternative C, Alternative D, Module Delivery Option 2 and Option 3 are presented in Section 3.2 of the AQTSD (Appendix E.3B).

H.2 Modeling Approach

The near-field air quality impact assessment for Alternative E was conducted in a manner identical to Alternatives B, C, and D which is described in detail in Section 3.2 in the Air Quality Technical Support Document (Appendix E.3B) with the exception that input data and model versions were updated when more recent information exists. The following sections detail the updates made in response to more current information. For all other items related to the near-field modeling that are not explicitly described below, the approach is identical to Alternatives B, C, and D and is consistent with the information presented in Section 3.2 in the Air Quality Technical Support Document (Appendix E.3B). It is important to note that the ambient background data was previously updated for Alternatives B, C, and D and that information remains the most currently available data so Alternative E ambient background data is identical to the other alternatives.

H.2.1 Dispersion Model

The most recent version of AERMOD available at the time of the Project analysis (version 22112) (USEPA 2022a) was used for the near-field modeling analysis of Alternative E. The near-field modeling analyses performed for Alternatives B, C, and D and for the Module Delivery scenarios used AERMOD version 19191. The changes made to AERMOD version 22112 as documented by USEPA (2022b) are expected to have negligible differences on model-predicted impacts relative to the impacts estimated using AERMOD version 19191 given the modeled sources and model settings.

H.2.2 Meteorological Data

Meteorological data for Alternative E AERMOD modeling was prepared and processed in a manner identical to Alternatives B, C, and D (described in Section 3.2.3 in the Air Quality Technical Support Document, Appendix E.3B), with two exceptions. First, the meteorological data were prepared using the most recent version of AERMET (version 22112) which is compatible with the most current version of AERMOD. Second, the most current available five years of meteorological measurements were used. For Alternative E near-field modeling analysis, surface meteorological data from 2016 to 2020 were obtained for the Nuiqsut monitoring station and concurrent upper data measurements at Utqiaġvik, Alaska. The changes made to AERMET version 22112 as documented by USEPA (2022c) are expected to have a negligible effect on the processed meteorological data from those that were processed using AERMET version 19191 given the model settings.

Figure H.2-1 below shows a wind rose for the 2016 through 2020 surface observations at Nuiqsut. The winds are east-northeast to west-southwest which is consistent with patterns commonly observed on the North Slope. The average wind speed during 2016-2020 was 5 meters per second (m/s) and calm winds were infrequent, occurring for less than 1 percent of hours during the five-year period.

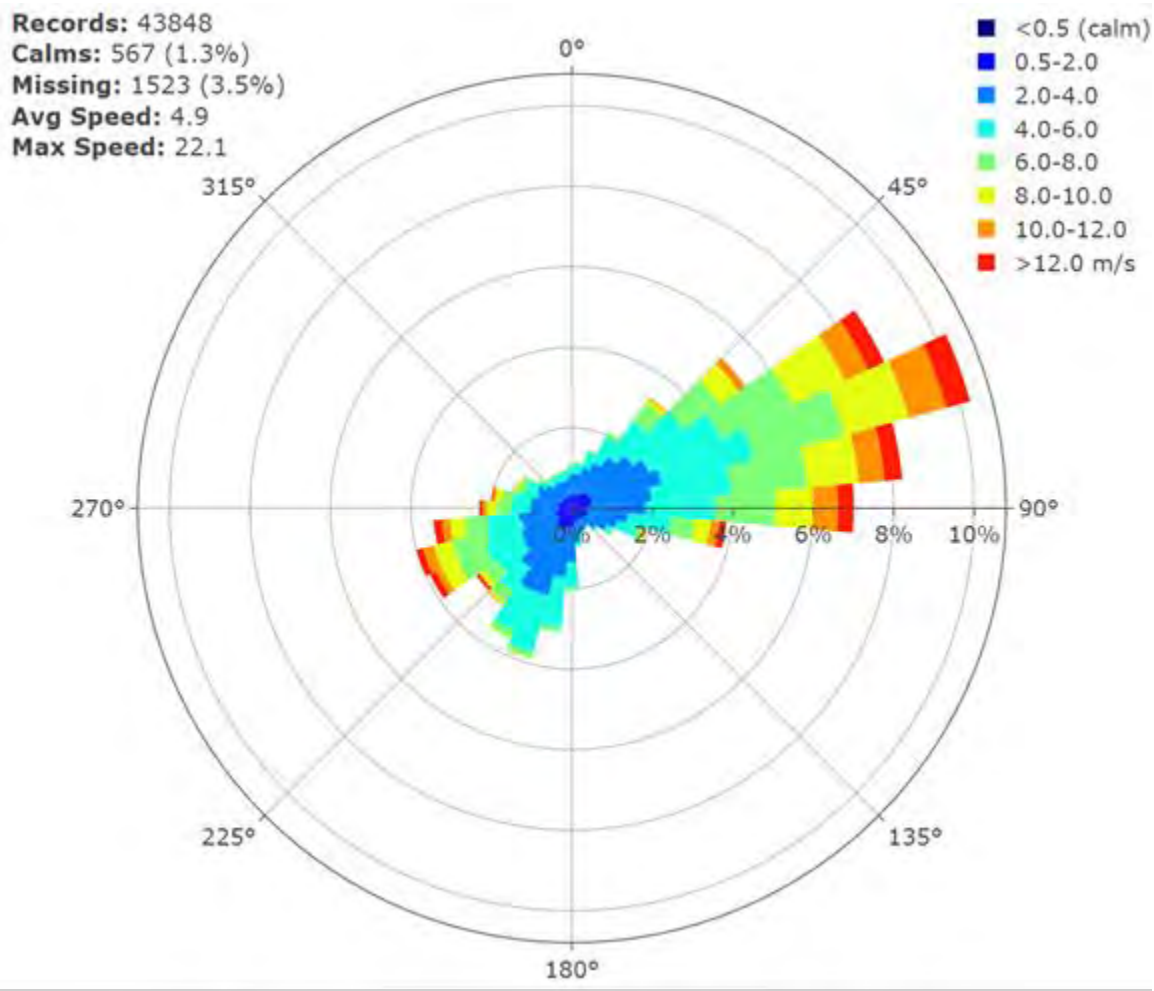


Figure H.2-1. Nuiqsut Air Monitoring Station 2016-2020 Wind Rose

H.2.3 Model Options

Model options are identical to what is described in Section 3.2 of the AQTSD (Appendix E.3B) with the exception that the hourly ozone data used for the ozone limiting method was updated to be concurrent with the meteorological period from 2016 through 2020. The hourly ozone data is shown in Figure H.2-2. The in-stack NO_2-to-NOx ratios utilized for the various types of equipment are shown Section 3.2.5 of the AQTSD (Appendix E.3B).

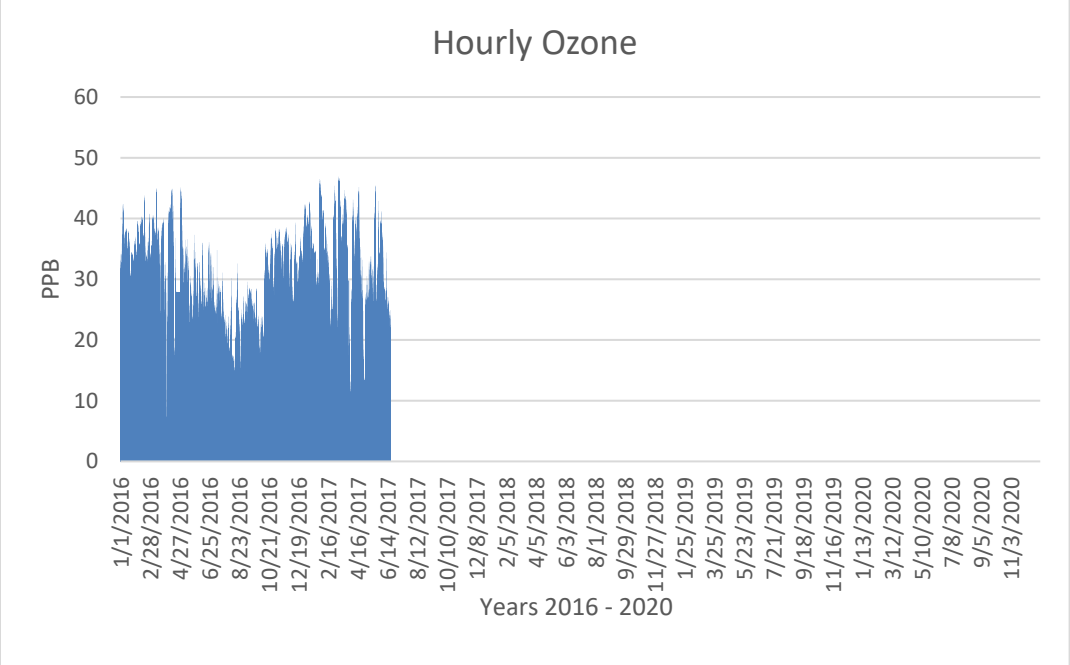


Figure H.2-2. Hourly ozone data at Nuiqsut monitoring station in years between 2016 to 2020.

H.3 Modeling Analysis

This section describes the selection of scenarios designed to characterize the potential impacts anticipated under Alternative E (Three Pad Alternative), the modeled receptors, source types, emissions, and resulting impacts.

H.3.1 Overview of Scenarios

Based on Alternative E emissions activities, source types, and development phases, five scenarios are analyzed that are identical to Alternative B:

1. Construction
2. Pre-drilling activities at Bear Tooth (BT)1
3. Pre-drilling activities at BT1 and BT2
4. Developmental Drilling and Routine Operations (DrillOps)
5. Routine Operations

All scenarios include emissions of criteria pollutants, HAPs and GHGs. As shown in Section 2.1 of the AQTSD (Appendix E.3B) “Willow Alternatives Emissions Inventories”, HAPs from construction and drilling activities are substantially lower than routine operations. Therefore, HAP impacts are explicitly modeled for Routine Operations only and HAP impacts from all other scenarios would be lower than Routine Operations.

Modeled sources include point source emissions, area sources, and volume sources. Equipment modeled as point sources include stationary sources, such as engines, heaters and flares, as well as large portable equipment and nonroad engines. Groupings of similar low-level equipment were generally aggregated as area sources. Fugitive dust and mobile sources tailpipe emissions were modeled as volume sources. For example, the gravel access road was modeled as a series of volume sources to represent dust or tailpipe emissions from vehicle traffic. Point source stack parameters were provided by CPAI for most stationary sources, for those sources without stack parameter information, stack parameters are selected to be consistent with stack parameters used for modeling GMT2 or other public information. For area and volume sources release heights, initial vertical dimensions, and initial horizontal dimensions were based on the equipment as well as Table 3-2 from the AERMOD User's Guide (USEPA 2022a).

For emergency flaring events, flare parameters were calculated using the procedures outlined in the Alaska Department of Environmental Conservation (ADEC) "Modeling Review Procedures Manual" (ADEC 2018), which uses the total flare heat release to determine an effective flare height and diameter.

Based on AERMOD guidance for modeling (USEPA 2022a), road segment volume source dimensions are based on the road width and placed along the road segments at calculated spacing intervals. Therefore, volume source dimensions and spacing are calculated as follows:

- For gravel haul roads 24 feet (7.32 m) wide, volume sources are spaced 14.63 meters (48 feet) apart, use a sigma-y of 6.80 m (14.63/2.15) and exclude receptors along 15 meters on each side of the road. For gravel haul roads 32 feet (9.75 m) wide volume sources are spaced 19.51 meters (64 feet) apart, use a sigma-y of 9.07 m (19.51/2.15), and exclude receptors along 20 meters on each side of the road.
- For the gravel haul ice roads 50 feet (15.24 m) wide, volume sources are spaced 30.48 meters apart, use a sigma-y of 14.18 m (30.48/2.15) and exclude receptors within 30 meters on each side of the road.
- For the module delivery ice roads 60 feet (18.29 m) wide, volume sources are spaced 36.58 meters apart, use a sigma-y of 17.01 m (36.58/2.15) and exclude receptors within 35 meters on each side of the road.

Within the Willow MDP Project area, some road segments would have a 25 mph speed limit while other road segments would have a 35 mph speed limit. For Alternative E, the modeled on-road vehicle emissions are based on the applicable speed limit for that road segment. This approach explicitly models the emissions associated with road speed limits, which was not explicitly modeled for Alternatives B, C, and D and is described in Section 3.9 of the AQTSD (Appendix E.3B).

See Attachment I for detailed information about the sources included in each scenario for Alternative E. All sources modeled for each scenario are shown in figures in Attachment I depicting the layout of the sources relative to ambient air boundaries, structures, roads, and other Project features. In addition, Attachment I includes detailed tables that provide a description of each modeled source, source emissions rates for all modeled pollutants and averaging periods, in-stack NO_2-to-NOx ratio, modeled location, and stack parameters.

H.3.1.1 Construction

The construction of Willow MDP is on a ten-year schedule beginning late in Year 0 and completing in Year 9. This ten-year period will include construction of four drill sites, processing facility, Willow Operations Center, airstrip, gravel access roads, pipelines, communications facilities, living quarters and other infrastructure to support long-term operations. In addition, construction and cooperation of temporary facilities including a gravel mine, seasonal ice roads, single-season and multi-season ice pads, and temporary camp facilities for worker housing to support construction activities are proposed in the Willow MDP. Two mine sites within the Tiŋmiaqsiuġvik Area (located about 20 miles from the Willow Operations Center) are proposed to supply the gravel needed to construct the Willow Development. The gravel mines would be accessed seasonally via ice road and the mine pit would be opened during winter construction seasons to support construction of the drill sites, the WPF, Willow Operations Center, MTI, airstrip, and associated roads.

As shown in Section 2.1 of the AQTSD (Appendix E.3B) "Willow Alternatives Emissions Inventories", the annual criteria pollutant emissions totals during construction phases are expected to peak during Year 4 when emissions activities occur during construction of WPF, Willow Operation Center, BT1 drill site, BT2 drill site, BT3 drill site along with installation of major pipeline and roads/bridges. Therefore, emissions activities occurring in Year 4 are modeled for the Alternative E construction scenario. In Year 4, BT5 is not yet under construction so those drill sites are not included in the construction scenario. Although Alternative E could be authorized with either Module Delivery Option, emissions activities involving module delivery requiring trucking trips through Project areas are independent of the module delivery Option selected and are thus included as part of the construction scenario.

H.3.1.2 BT1 Pre-drill

Willow MDP is proposing to construct 219 wells at the four proposed drill sites (BT1, BT2, BT3, and BT5). It is estimated that it will take approximately 15-30 days to drill each well and drill all wells consecutively beginning in Year 4 at the BT1 drill site. While drilling operations are anticipated to be conducted predominantly with drill rigs operating on highline supplied electrical power, highline power would not be available during BT1 construction and initial drilling until the WPF is fully operational. Therefore, two diesel-fired drill rigs, hydraulic fracturing units, and associated ancillary support equipment two drill rigs will operate at BT1 until highline power is available. Drilling activities may include emissions from the operation of the drill rig engine, rig boiler, and associated drilling equipment. Drilling and hydraulic fracturing activities could occur at a single drill site concurrently. Hydraulic fracturing activities includes emissions from hydraulic fracturing units, including hydraulic fracturing performed to increase fluid movement from the rock into the well bore, flaring, and vehicle emissions.

H.3.1.3 BT1 and BT2 Pre-drill

BT1 and BT2 Pre-drill scenario is similar to BT1 Pre-drill scenario with the exception that a single diesel-fired drill rig and hydraulic fracturing equipment operate at both BT1 and BT2 pads concurrently.

H.3.1.4 Development Drilling

Starting in Year 6 drilling and hydraulic fracturing equipment would operate on highline power. The Development Drilling scenario is designed to assess potential peak short-term and annual air quality impacts from drilling and hydraulic fracturing operations occurring at the same time as localized construction and operational activities throughout the rest of the Project area. This modeling scenario is

based on electric drill rigs and hydraulic fracturing units operating concurrently at BT2 and BT3 as these well sites are in closest proximity to each other spatially and are likely to be drilled concurrently based on the drilling schedule in the Environmental Evaluation Document (Revision No. 4): Willow Master Development Plan (CPAI 2021). Modeled activities would be similar to the Routine Operation scenario with the addition of drilling activities conducted with electric drill rigs and hydraulic fracturing units at BT2 and BT3 and construction activities occurring at BT2 and BT3. Since drilling would be complete by Year 10 in Alternative E, impacts from Development Drilling would not occur after Year 10.

H.3.1.5 Routine Operation and Production of Wells

Routine operation and production emissions include well pad production equipment; product storage, transfer, and transport; product processing and disposal facilities; flaring operations; as well as vehicle traffic for routine inspection and maintenance. These types of activities are associated with the planned production and processing of oil, gas, and produced water. The annual criteria pollutant emissions for production and operations will steadily increase and reach the highest starting in Year 10 as shown in Section 2.1 of the AQTST (Appendix E3.B) "Willow Alternatives Emissions Inventories". During production operations, produced water and oil from wells would be stored in tanks on processing facilities. The Routine Operation scenario also explicitly models emissions from other projects anticipated to be developed within the near-field of the Willow MDP Project as shown in Table 2.2-2 of the AQTSD (Appendix E.2B) to assess expected cumulative long-term impacts.

H.3.2 Construction

H.3.2.1 Receptors and Source Configurations

See Attachment I for detailed information regarding the modeled sources, emission rates, locations, and in-stack NO_2-to-NOx ratios.

The ambient air boundaries and receptors (consistent with Section 3.2.7 "Receptors") are shown in the AQTSD (Appendix E.3B).

H.3.2.2 Emissions Calculations

Emission rates for all modeled sources are provided in Attachment I. Emission rates used in the model were based on maximum hourly or average annual emissions depending on the ambient air threshold for the pollutant of interest. For example, 1-hour NO_2 was modeled using maximum hourly potential emissions as calculated in the approved emissions inventory. Most emission sources were assumed to operate 24 hours per day, 7 days per week, and 52 weeks per year unless the emissions inventory includes information indicating a shorter period of operation. Fugitive dust emissions are estimated for months from May through October, consistent with the months for which fugitive dust emissions were estimated in the BOEM Arctic modeling study (Fields Simms et al 2018, Stoeckenius et al 2017). Fugitive dust may also occur in other months, especially during dry snowless conditions and from dry and frozen roads. Thus, fugitive dust emissions outside May through October may affect air concentrations of particulate matter, but likely to a smaller extent than fugitive dust emitted during May through October when there is much less (or no) snow cover. Likewise, some operations would only be expected to occur during daytime hours. Appropriate adjustments to the gram (g) per second emission rates were made for sources that do not operate continuously. Emission rates for activities that operate exclusively during specific periods were "turned on" and "turned off" to match the expected seasonality as appropriate.

Annual emissions for sources that do not occur year-round were "annualized" to the period that the model is turned on. For example, if a source in the model is turned on for 4,380 hours per year, the source's annual emissions will be converted to gram per second by using 4,380 hours per year.

In general, for nonroad equipment operating during construction a category specific utilization factor was applied to approximate the fraction of the nonroad equipment that would be operating simultaneously at a given time. The utilization factor accounts for the fact that not all the equipment operates simultaneously within the same hour. The factor is derived using average operating hours of equipment spread over a 24 hours period. The factor is calculated as the fleet-wide average of fractional hours of operation per day and applied hourly emissions. This utilization factor is not applied to all nonroad sources that are treated as point sources including heaters, off-highway-trucks (B-70s), air compressors, generator sets, pumps, and bore/drill rigs unless explicitly stated below.

BT1 Facilities Installation, Pipeline Installation, and Vertical Support Member Construction Nonroad Equipment – Individual hourly emission and annual rates are calculated using the general approach outlined above and by applying its respective nonroad utilization factor to hourly emissions. A category-wide emission rate is then calculated for hourly and annual emissions by summing emission rates of all nonroad equipment not treated explicitly as point sources across its respective category.

BT2 and BT3 Pad Construction Nonroad Equipment – Hourly and annual emission rates are initially calculated using the general approach outlined above. Monthly emission factors are then applied to annual emission rates to allocate emissions to each month of the year based on based on the level of pad construction activity occurring during that month. For all sources not treated explicitly as point sources a utilization factor is applied to hourly emission rates. A category-wide emission rate is then calculated for hourly and annual emissions by summing these individual nonroad equipment emission rates in its respective category.

Gravel Mining Nonroad Equipment - Individual hourly emission and annual rates are calculated using the general approach outlined above and by applying the respective nonroad utilization factor to hourly emissions. A category-wide emission rate is then calculated for hourly and annual emissions by summing emission rates of all nonroad equipment not treated explicitly as point sources across its respective category. These hourly and annual emission rates are then split into nine (9) equivalent volume sources.

Ice Road Construction Nonroad Equipment – Individual hourly and annual emissions rates are calculated using the general approach outlined above. The equipment needed by Willow is scaled up or down from equipment needed by GMT1 based on the ratio of annual ice road needed to be constructed annually in Willow vs ice road constructed in GMT1 based on ice road mileage needed in Willow. Thus, a Willow/GMT1 annual activity scaling factor based on the ice road constructed annually to ice road constructed in GMT1 is applied to account for fluctuations in annual activity. For all sources not treated explicitly as point sources a utilization factor is applied to hourly emission rates. A category-wide emission rate is then calculated for hourly and annual emissions by summing these individual nonroad equipment emission rates in its respective category. These nonroad emissions are then scaled based on the ratio of total length of the ice road within the modeling domain to the total ice road length constructed in Year 4 and split into four (4) equivalent volume sources.

Single Season Ice Pad Construction Nonroad Equipment – Individual hourly and annual emissions rates are calculated using the general approach outlined above. A Willow/GMT1 annual activity scaling factor

based on the ice pad constructed annually to ice pad constructed in GMT1 is then applied to account for the fluctuations in annual activity. For all sources not treated explicitly as point sources a utilization factor is applied to hourly emission rates. A category-wide emission rate is then calculated for hourly and annual emissions by summing these individual nonroad equipment emission rates in its respective category. These nonroad emissions are then placed on six different locations within the ice pad scaled based on the ratio of total acreage of the ice pad within the modeling domain to the total ice pad acreage constructed in Year 4 and split into the. The locations are broken down as follows:

- Housing Construction Equipment at the mine – 1 equivalent volume sources
- Organic Stockpile at the mine – 44 volume sources
- Inorganic Stockpile at the mine – 44 equivalent volume sources
- Ice Pad Perimeter at the mine – 44 equivalent volume sources
- HDD Pad #1 – 1 volume source
- HDD Pad #2 – 1 volume sources

Multi-Season Ice Pad Construction Nonroad Equipment – Individual hourly and annual emissions rates are calculated using the general approach outlined above. A Willow/GMT1 annual activity scaling factor based on the ice pad constructed annually to ice pad constructed in GMT1 is then applied to account for the fluctuations in annual activity. For all sources not treated explicitly as point sources a utilization factor is applied to hourly emission rates. A category-wide emission rate is then calculated for hourly and annual emissions by summing these individual nonroad equipment emission rates in its respective category. All sources associated with multi-season ice pad construction are conservatively assumed to operate at the mine site, WOC, and GMT2 multi-season ice pads.

Willow and Alpine Airstrip Aircraft Activity – Hourly and annual emission rates are calculated by extracting takeoff and landing emission factors for each aircraft type. Emission factors for each aircraft type are then multiplied by the number of flights for each aircraft type in the model year, 2024. Since each flight constitutes one takeoff and one landing the takeoff and landing emission rates are summed across their respective aircraft type. The total aircraft emission rates are then calculated by summing across the aircraft types and converted to g/s. The total emission rates are split into three separate areas, based on release height, and divided by the respective airstrip area.

Blasting Emissions – Hourly emission rates are calculated using the emission rate extracted from the emissions inventory. Emission rates in lbs/day are divided by the number of hours in a day and converted to g/s to get hourly emission rates. Annual emission rates are then calculated using the same method as the general approach outlined above using weeks of operation instead of hours of operation. Short-term blasting is modeled using hourly emission rates while long-term blasting is modeled using annual emission rates.

Willow Operations Center Temporary Power Generation Turbine – Hourly and annual emission rates are calculated using the general approach outlined above. Monthly emission factors are applied to hourly and annual emission rates to account for fluctuations in emission rates. Monthly fluctuations in emission rates are caused by variations in ambient temperatures affecting the air density which affects fuel capacity into the turbine at full load.

Willow Operations Center and WPF Facilities Installation Nonroad Equipment – Individual hourly emission and annual rates are calculated using the general approach outlined above and by applying its

respective nonroad utilization factor to hourly emissions. A category-wide emission rate is then calculated for hourly and annual emissions by summing emission rates of all nonroad equipment not treated explicitly as point sources across its respective category. Monthly emission factors are then applied to annual emission rates to allocate emissions to each month of the year based on based on the level of facilities installation activity occurring during that month.

Mobile Tailpipe Emissions – Hourly and annual emission rates are calculated by extracting the running and idling emission factors for each vehicle type. Running emission factors are then multiplied by annual mileage travelled for each vehicle type to get the total running emissions per year. Idling emission factors are multiplied by the total idling hours per year to get total idling emissions per year. Emissions are then converted into g/s by assuming operation through all hours of the operating months. Hourly and annual emission rates are then scaled within their "respective modeling area" by applying the ratio of the one-way trip mileage within in the modeling domain to the total mileage per one-way trip. The "respective modeling area" here and below refers to the pad or drill site activity with which the emissions are associated in the modeling. Running and idling emission rates are summed across all vehicle types for their respective modeling area and split in the following manner:

- BT1-3 – 4 equivalent volume sources
- Willow Operations Center – 4 equivalent volume sources
- WPF – 4 equivalent volumes sources
- Gravel Mine – 4 equivalent volume sources

Mobile Equipment Fugitive Dust – Hourly and annul emission rates are calculated by extracting the fugitive dust emission factors for each vehicle type. Fugitive dust emission factors are then multiplied by annual vehicle miles travelled to get total fugitive dust emissions per year and converted to g/s by assuming operation through all hours of the operating months. Hourly and annual emission rates are then scaled within their respective modeling area by applying the ratio of the one-way trip mileage within in the modeling domain to the total mileage per one-way trip. Fugitive dust emission rates are summed across all vehicle types for their respective modeling area and split in the same manner as their tailpipe equivalent.

Gravel Road Construction, Pipeline Installation, Vertical Member Support Construction, and Fiber Optics Installation Nonroad Equipment – Individual hourly emission and annual rates are calculated using the general approach outlined above. and by applying its respective nonroad utilization factor to hourly emissions. A category-wide emission rate is then calculated for hourly and annual emissions by summing emission rates of all nonroad equipment not treated explicitly as point sources across its respective category. These hourly and annual emission rates are then scaled within their respective modeling area by applying the ratio of the segment road length within the modeling domain to the total road length constructed in Year 4. Hourly and annual emissions rates are then split into four equivalent volume sources. Gravel road construction is assumed to be occurring at BT2 and BT3.

Bridge Installation Nonroad Equipment - Individual hourly emission and annual rates are calculated using the general approach outlined above. and by applying its respective nonroad utilization factor to hourly emissions. A category-wide emission rate is then calculated for hourly and annual emissions by summing emission rates of all nonroad equipment not treated explicitly as point sources across its respective category. Hourly and annual emission rates for all sources associated with bridge installation

are then divided by the number of bridges based on the assumption only one bridge is being installed at any moment.

Willow Operations Center Snowmelters and Portable Heaters – Hourly and annual emissions are calculated using the general approach outlined above. Emissions are then summed and treated as a single volume source.

Off-Highway Trucks (B-70s) – Individual hourly emission and annual rates are calculated using the general approach outlined above. Emission rates are then scaled down to a per unit basis. Two B-70 trucks are then placed on BT2, BT3, the gravel mine, and the gravel road split into 4 equivalent volume sources for the pads and 9 equivalent volume sources for the mine. The B-70s along the gravel road are scaled based on the ratio road length in the modeling domain to total road length constructed in Year 4 and split into 4 equivalent volume sources along the gravel road segment along BT2 and the road segment along BT3.

H.3.2.3 Criteria Pollutant Impacts

Table H.3-1 shows the modeled impacts to air quality everywhere in the model domain and Table H.3-2 shows the model impacts at Nuiqsut. Representative background concentrations are added to model results prior to comparing the total concentration to applicable AAQS. As shown, impacts would be below applicable AAQS for all criteria pollutants and averaging periods.

Table H.3-1. Construction Activity AAQS Impacts – Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration (µg/m³)	Background Concentration (µg/m³)	Total Concentration (µg/m³)	NAAQS (µg/m³)	AAAQS (µg/m³)	Percent of NAAQS	Percent of AAAQS
CO	1-Hour	527.7	10300.5	10828.2	40,000	40,000	27%	27%
	8-Hour	430.1	3433.5	3863.6	10,000	10,000	27%	39%
NO_2	1-Hour	112.4	19.1	131.5	188	188	70%	70%
	Annual	17.5	3.8	21.2	100	100	21%	21%
SO_2	1-Hour	3.9	9.0	12.8	196	196	7%	7%
	3-Hour	5.1	10.0	15.1	1,300	1,300	1%	1%
	24-Hour	1.2	9.3	10.5	--	365	--	3%
	Annual	0.0	1.8	1.9	--	80	--	2%
PM_{10}	24-Hour	19.9	30.0	49.9	150	150	33%	33%
$PM_{2.5}$	24-Hour	11.5	7.0	18.5	35	35	53%	53%
	Annual	2.5	1.6	4.1	12	12	34%	34%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:
NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.
PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m³ - 24-hour and 0.05 µg/m³ - annual) from CAMx modeling.

Table H.3-2. Construction Activity AAQS Impacts at Nuiqsut – Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration (µg/m³)	Background Concentration (µg/m³)	Total Concentration (µg/m³)	NAAQS (µg/m³)	AAAQS (µg/m³)	Percent of NAAQS	Percent of AAAQS
CO	1-Hour	46.0	10,300.5	10346.5	40,000	40,000	26%	26%
	8-Hour	12.7	3,433.5	3446.2	10,000	10,000	34%	34%
NO_2	1-Hour	24.5	30.3	54.7	188	188	29%	29%
	Annual	0.3	3.8	4.0	100	100	4%	4%
SO_2	1-Hour	0.7	9.0	9.7	196	196	5%	5%
	3-Hour	0.4	10.0	10.4	1,300	1,300	1%	1%
	24-Hour	0.1	9.3	9.4	--	365	--	3%
	Annual	0.002	1.8	1.8	--	80	--	2%
PM_{10}	24-Hour	0.8	50.0	50.8	150	150	34%	34%
$PM_{2.5}$	24-Hour	0.7	7.0	7.7	35	35	22%	22%
	Annual	0.07	1.6	1.7	12	12	14%	14%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:
NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.
PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m³ - 24-hour and 0.05 µg/m³ - annual) from CAMx modeling.

H.3.3 BT1 Pre-Drill

H.3.3.1 Receptors and Source Configurations

See Attachment I for detailed information regarding the modeled sources, emission rates, locations, and in-stack NO_2-to-NOx ratios.

The ambient air boundaries and receptors (consistent with Section 3.2.7 "Receptors") are shown in the AQTSD (Appendix E.3B).

H.3.3.2 Emissions Calculations

Emission rates for all modeled sources are provided in Attachment I.

Mobile Tailpipe Emissions - Hourly and annual emission rates are calculated by extracting the running emission factors. Running emission factors are then multiplied by annual mileage travelled for each vehicle type to get the total running emissions per year. Emissions are then converted into g/s by assuming operation through all hours of the operating months. Hourly and annual emission rates are then scaled within their respective modeling area by applying the ratio of the one-way trip mileage within in the modeling domain to the total mileage per one-way trip. Running emission rates are

summed across all vehicle types for their respective modeling area and split into nine (9) equal volume sources at its respective modeling domain.

Mobile Equipment Fugitive Dust – Hourly and annul emission rates are calculated by extracting the fugitive dust emission factors for each vehicle type. Fugitive dust emission factors are then multiplied annual vehicle miles travelled to get total fugitive dust emissions per year and converted to g/s by assuming operation through all hours of the operating months. Hourly and annual emission rates are then scaled within their respective modeling area by applying the ratio of the one-way trip mileage within in the modeling domain to the total mileage per one-way trip. Mobile fugitive dust emissions are then split into volume sources equivalent to mobile tailpipe.

Snowmelters and Portable Heaters – Hourly and annual emissions are calculated using the general approach outlined above. Emissions are then summed and treated as a single volume source. Monthly emission factors are then applied. No operation is assumed during summer months (June-August).

Drill Rigs and Drilling Support Equipment – Hourly and annual emissions are calculated using the general approach outlined above and two drill rigs are active at BT1 during Pre-Drill.

Hydraulic Fracturing Engines – Hourly emission rates are calculated by extracting from the emission inventory. Hourly emission rates are then halved under the assumption fracturing engines will operate at 50% load for sixteen hours instead of 100% load for eight hours for 120 days per year. Annual emission rates are then calculated by smearing hourly emissions over the entire year based on a sixteen hour work day. Hourly emission factors are then applied to annual emissions to allocated emissions during operational hours (5 am – 9 pm). Hourly emission factors are calculated in consideration of two concurrent drill rigs active at BT1 during Pre-Drill.

Well Flowback and Flaring – Hourly and annual emissions are calculated using the general approach outlined above and two drill rigs are active at BT1 during Pre-Drill. Each of the 251 wells will have one flowback period that will continue for three days. Therefore, criteria pollutant air emissions from well flowback and flaring are modeled for 24 consecutive months (Year 4 to Year 5). Temporal factors include the use of two flares in operation for 864 hours annually during the 24-month time frame. The maximum flare capacity is based upon the daily gas throughput (0.11 MMscfd) and the high heater value of the fuel gas (1,738 Btu/scf). Carbon monoxide and nitrogen oxide emissions are evaluated using AP-42 Chapter 13.5 emission factors. Sulfur dioxide emissions are based upon a mass balanced calculation which assumes 40 ppm hydrogen sulfide (previous gas analysis from GMT1 Development Project) in the waste gas (non-fuel) combusted

H.3.3.3 Criteria Pollutant Impacts

Table H.3-3 shows the modeled impacts to air quality everywhere in the model domain and Table H.3-4 shows the model impacts at Nuiqsut. Representative background concentrations are added to model results prior to comparing the total concentration to applicable AAQS. As shown, impacts would be below applicable AAQS for all criteria pollutants and averaging periods.

Table H.3-3. BT1 Pre-Drill Activity AAQS Impacts – Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration (µg/m³)	Background Concentration (µg/m³)	Total Concentration (µg/m³)	NAAQS (µg/m³)	AAAQS (µg/m³)	Percent of NAAQS	Percent of AAAQS
CO	1-Hour	1,435.3	10,300.5	11,735.8	40,000	40,000	29%	29%
	8-Hour	1,123.5	3,433.5	4,449.0	10,000	10,000	46%	46%
NO_2	1-Hour	63.6	27.4	91.0	188	188	48%	48%
	Annual	10.3	3.8	14.0	100	100	14%	14%
SO_2	1-Hour	3.9	9.0	12.8	196	196	7%	7%
	3-Hour	3.5	10.0	13.5	1,300	1,300	1%	1%
	24-Hour	2.1	9.3	11.4	--	365	--	3%
	Annual	0.2	1.8	2.0	--	80	--	3%
PM_{10}	24-Hour	19.3	30	49.3	150	150	33%	33%
$PM_{2.5}$	24-Hour	9.4	7.0	16.4	35	35	47%	47%
	Annual	2.0	1.6	3.6	12	12	30%	30%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:
NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.
PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m³ - 24-hour and 0.05 µg/m³ - annual) from CAMx modeling.

Table H.3-4. BT1 Pre-Drill Activity AAQS Impacts at Nuiqsut – Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration (µg/m³)	Background Concentration (µg/m³)	Total Concentration (µg/m³)	NAAQS (µg/m³)	AAAQS (µg/m³)	Percent of NAAQS	Percent of AAAQS
CO	1-Hour	26.4	10,300.5	10,326.5	40,000	40,000	26%	26%
	8-Hour	4.9	3,433.5	3,438.4	10,000	10,000	34%	34%
NO_2	1-Hour	2.7	26.1	28.9	188	188	15%	15%
	Annual	0.02	3.8	3.8	100	100	4%	4%
SO_2	1-Hour	0.07	9.0	9.0	196	196	5%	5%
	3-Hour	0.05	10.0	10.1	1,300	1,300	1%	1%
	24-Hour	0.007	9.3	9.3	--	365	--	3%
	Annual	1.6E-04	1.8	1.8	--	80	--	2%
PM_{10}	24-Hour	0.5	10.0	10.5	150	150	7%	7%
$PM_{2.5}$	24-Hour	0.5	7.0	7.5	35	35	21%	21%
	Annual	0.05	1.6	1.6	12	12	14%	14%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:

NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.
PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m^3 - 24-hour and 0.05 µg/m^3 - annual) from CAMx modeling.

H.3.4 BT1 and BT2 Pre-Drill

Pre-drilling at BT1 and BT2 pads is similar to the pre-drilling activities planned for BT1.

H.3.4.1 Receptors and Source Configurations

See Attachment I for detailed information regarding the modeled sources, emission rates, locations, and in-stack NO_2-to-NOx ratios.

The ambient air boundaries and receptors (consistent with Section 3.2.7 “Receptors”) are shown in the AQTSD (Appendix E.3B).

H.3.4.2 Emissions Calculations

Emission rates for all modeled sources are provided in Attachment I.

Mobile Tailpipe Emissions - Hourly and annual emission rates are calculated by extracting the running emission factors. Running emission factors are then multiplied by annual mileage travelled for each vehicle type to get the total running emissions per year. Emissions are then converted into g/s by assuming operation through all hours of the operating months. Hourly and annual emission rates are then scaled within their respective modeling area by applying the ratio of the one-way trip mileage within in the modeling domain to the total mileage per one-way trip. Running emission rates are summed across all vehicle types for their respective modeling area and split into nine (9) equal volume sources at BT1 and six (6) at BT2.

Mobile Equipment Fugitive Dust – Hourly and annul emission rates are calculated by extracting the fugitive dust emission factors for each vehicle type. Fugitive dust emission factors are then multiplied annual vehicle miles travelled to get total fugitive dust emissions per year and converted to g/s by assuming operation through all hours of the operating months. Hourly and annual emission rates are then scaled within their respective modeling area by applying the ratio of the one-way trip mileage within in the modeling domain to the total mileage per one-way trip. Mobile fugitive dust emissions are then split into volume sources equivalent to mobile tailpipe.

Snowmelters and Portable Heaters – Hourly and annual emissions are calculated using the general approach outlined above. Emissions are then summed and treated as a single volume source. Monthly emission factors are then applied. No operation is assumed during summer months (June-August).

Hydraulic Fracturing Engines – Hourly emission rates are calculated by extracting from the emission inventory. Hourly emission rates are then halved under the assumption fracturing engines will operate at 50% load for sixteen hours instead of 100% load for eight hours for 120 days per year. Annual

emission rates are then calculated by smearing hourly emissions over the entire year based on a sixteen-hour day. Hourly emission factors are then applied to annual emissions to allocated emissions during operational hours (5 am – 9 pm).

H.3.4.3 Criteria Pollutant Impacts

Table H.3-5 shows the modeled impacts to air quality everywhere in the model domain and Table H.3-6 shows the model impacts at Nuiqsut. Representative background concentrations are added to model results prior to comparing the total concentration to applicable AAQS. As shown, impacts would be below applicable AAQS for all criteria pollutants and averaging periods.

Table H.3-5. BT1 and BT2 Pre-Drill Activity AAQS Impacts – Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration (µg/m³)	Background Concentration (µg/m³)	Total Concentration (µg/m³)	NAAQS (µg/m³)	AAAQS (µg/m³)	Percent of NAAQS	Percent of AAAQS
CO	1-Hour	816.6	10300.5	11117.1	40,000	40,000	28%	28%
	8-Hour	634.3	3433.5	4067.8	10,000	10,000	41%	41%
NO_2	1-Hour	55.8	26.6	82.3	188	188	44%	44%
	Annual	6.5	3.8	10.3	100	100	10%	10%
SO_2	1-Hour	3.1	9.0	12.1	196	196	6%	6%
	3-Hour	2.7	10.0	12.7	1,300	1,300	1%	1%
	24-Hour	1.4	9.3	10.7	--	365	--	3%
	Annual	0.1	1.8	1.9	--	80	--	2%
PM_{10}	24-Hour	21.8	20.0	41.8	150	150	28%	28%
$PM_{2.5}$	24-Hour	6.0	7.0	13.0	35	35	37%	37%
	Annual	1.1	1.6	2.7	12	12	22%	22%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:
NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.
PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m³ - 24-hour and 0.05 µg/m³ - annual) from CAMx modeling.

Table H.3-6. BT1 and BT2 Pre-Drill Activity AAQS Impacts at Nuiqsut – Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration (µg/m³)	Background Concentration (µg/m³)	Total Concentration (µg/m³)	NAAQS (µg/m³)	AAAQS (µg/m³)	Percent of NAAQS	Percent of AAAQS
CO	1-Hour	17.1	10,300.5	10,317.7	40,000	40,000	26%	26%
	8-Hour	3.1	3,433.5	3,436.6	10,000	10,000	34%	34%
NO_2	1-Hour	2.3	28.0	30.2	188	188	16%	16%
	Annual	0.02	3.8	3.8	100	100	4%	4%
SO_2	1-Hour	0.05	9.0	9.0	196	196	5%	5%
	3-Hour	0.03	10.0	10.1	1,300	1,300	1%	1%
	24-Hour	0.006	9.3	9.3	--	365	--	3%
	Annual	1.5E-04	1.8	1.8	--	80	--	2%
PM_{10}	24-Hour	0.5	30.0	30.5	150	150	20%	20%
$PM_{2.5}$	24-Hour	0.5	7.0	7.5	35	35	21%	21%
	Annual	0.05	1.6	1.6	12	12	14%	14%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:
NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.
PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m³ - 24-hour and 0.05 µg/m³ - annual) from CAMx modeling.

H.3.5 Development Drilling

H.3.5.1 Receptors and Source Configurations

See Attachment I for detailed information regarding the modeled sources, emission rates, locations, and in-stack NO_2-to-NOx ratios.

The ambient air boundaries and receptors (consistent with Section 3.2.7 “Receptors”) are shown in the AQTSD (Appendix E.3B).

H.3.5.2 Emissions Calculations

Emission rates for all modeled sources are provided in Attachment I. The emissions development methods for Development Drilling drill rigs and hydraulic fracturing activities follows an approach identical to that described for BT1 Pre-Drilling in Section 3.3.3.2 of the AQTSD (Appendix E.3B) “Emissions Calculations”. The underlying emission rates are different from the BT1 Pre-Drilling (as shown via a comparison of emission rates provided in Attachment I); however, the methodology is identical. Hydraulic Fracturing Engines – Hourly and annual emissions for hydraulic fracturing engines are zero due to highline power being used rather than diesel engines. Similarly, the emissions development methods for the operational activities included in Development Drilling are identical to Routine Operations in Section 3.3.6.2 “Emissions Calculations”. Construction emissions from facility

installation activities at BT2 and BT3 are also included in this scenario. Sources associated with facility installation activities included heaters, shop heaters, generator sets, non-road equipment, B-70s, and fugitive dust at BT2 and BT3.

H.3.5.3 Criteria Pollutant Impacts

The modeling analysis for Alternative E development drilling activities includes scenarios for flares operating under typical operations and maximum flaring emissions which could occur during upset or emergency conditions, whereas the modeling analyses performed for Alternatives B, C, and D shown in Section 3.1 of the AQTSD (Appendix E.3B) included the only emissions for flares operating under typical operations. The modeled short-term impacts include flares operating at upset conditions at maximum hourly rates for all hours of the year and long-term impacts include upset conditions occurring for up to 10 hours per year.

Table H.3-7 shows the modeled impacts (with typical flare activity) to air quality everywhere in the domain (the analysis area) while Table H.3-8 shows the modeled impacts (with typical flare activity) at Nuiqsut. Representative background concentrations are added to model results prior to comparing the total concentration to applicable AAQS. As shown, impacts would be below applicable AAQS for all criteria pollutants and averaging periods.

Table H.3-7. Development Drilling Activity AAQS Impacts– Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration (µg/m³)	Background Concentration (µg/m³)	Total Concentration (µg/m³)	NAAQS (µg/m³)	AAAQS (µg/m³)	Percent of NAAQS	Percent of AAAQS
CO	1-Hour	1290.7	10300.5	11591.2	40,000	40,000	29%	29%
	8-Hour	888.0	3433.5	4321.5	10,000	10,000	43%	43%
NO_2	1-Hour	132.9	25.0	157.9	188	188	84%	84%
	Annual	24.9	3.8	28.6	100	100	29%	29%
SO_2	1-Hour	25.5	9.0	34.5	196	196	18%	18%
	3-Hour	26.4	10.0	36.5	1,300	1,300	3%	3%
	24-Hour	13.0	9.3	22.4	--	365	--	6%
	Annual	0.9	1.8	2.7	--	80	--	3%
PM_{10}	24-Hour	64.2	20.0	84.2	150	150	56%	56%
$PM_{2.5}$	24-Hour	22.3	7.0	29.3	35	35	84%	84%
	Annual	4.5	1.6	6.1	12	12	51%	51%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:
NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.
PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m³ - 24-hour and 0.05 µg/m³ - annual) from CAMx modeling.

Table H.3-8. Development Drilling Activity AAQS Impacts at Nuiqsut – Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration (µg/m³)	Background Concentration (µg/m³)	Total Concentration (µg/m³)	NAAQS (µg/m³)	AAAQS (µg/m³)	Percent of NAAQS	Percent of AAAQS
CO	1-Hour	26.3	10,300.5	10,326.8	40,000	40,000	26%	26%
	8-Hour	9.4	3,433.5	3,442.9	10,000	10,000	34%	34%
NO_2	1-Hour	17.5	23.7	41.2	188	188	22%	22%
	Annual	0.2	3.8	4.0	100	100	4%	4%
SO_2	1-Hour	4.3	9.0	13.2	196	196	7%	7%
	3-Hour	3.7	10.0	13.7	1,300	1,300	1%	1%
	24-Hour	0.6	9.3	9.9	--	365	--	3%
	Annual	0.01	1.8	1.8	--	80	--	2%
PM_{10}	24-Hour	0.9	10.0	10.9	150	150	7%	7%
$PM_{2.5}$	24-Hour	0.7	7.0	7.7	35	35	22%	22%
	Annual	0.07	1.6	1.7	12	12	14%	14%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:
NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.
PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m³ - 24-hour and 0.05 µg/m³ - annual) from CAMx modeling.

Table H.3-9 shows the modeled impacts (with emergency flaring) to air quality everywhere in the domain (the analysis area) while Table H.3-10 shows the modeled impacts (with emergency flaring) at Nuiqsut. Representative background concentrations are added to model results prior to comparing the total concentration to applicable AAQS. As shown, impacts would be below applicable AAQS for all criteria pollutants and averaging periods.

Table H.3-9. Development Drilling with Emergency Flaring Activity AAQS Impacts– Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration (µg/m³)	Background Concentration (µg/m³)	Total Concentration (µg/m³)	NAAQS (µg/m³)	AAAQS (µg/m³)	Percent of NAAQS	Percent of AAAQS
CO	1-Hour	1290.7	10300.5	11591.2	40,000	40,000	29%	29%
	8-Hour	888.0	3433.5	4321.5	10,000	10,000	43%	43%
NO_2	1-Hour	132.9	25.0	157.9	188	188	84%	84%
	Annual	24.8	3.8	28.6	100	100	29%	29%
SO_2	1-Hour	25.5	9.0	34.5	196	196	18%	18%
	3-Hour	26.4	10.0	36.5	1,300	1,300	3%	3%
	24-Hour	13.0	9.3	22.4	--	365	--	6%
	Annual	0.9	1.8	2.7	--	80	--	3%
PM_{10}	24-Hour	64.2	20.0	84.2	150	150	56%	56%
$PM_{2.5}$	24-Hour	22.3	7.0	29.3	35	35	84%	84%
	Annual	4.5	1.6	6.1	12	12	51%	51%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:
NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.
PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m³ - 24-hour and 0.05 µg/m³ - annual) from CAMx modeling.

Table H.3-10. Development Drilling with Emergency Flaring Activity AAQS Impacts at Nuiqsut – Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration (µg/m³)	Background Concentration (µg/m³)	Total Concentration (µg/m³)	NAAQS (µg/m³)	AAAQS (µg/m³)	Percent of NAAQS	Percent of AAAQS
CO	1-Hour	30.1	10,300.5	10,330.6	40,000	40,000	26%	26%
	8-Hour	11.2	3,433.5	3,444.7	10,000	10,000	34%	34%
NO_2	1-Hour	17.5	23.7	41.2	188	188	22%	22%
	Annual	0.2	3.8	4.0	100	100	4%	4%
SO_2	1-Hour	4.3	9.0	13.2	196	196	7%	7%
	3-Hour	3.7	10.0	13.7	1,300	1,300	1%	1%
	24-Hour	0.6	9.3	9.9	--	365	--	3%
	Annual	0.01	1.8	1.8	--	80	--	2%
PM_{10}	24-Hour	0.9	10.0	10.9	150	150	7%	7%
$PM_{2.5}$	24-Hour	0.7	7.0	7.7	35	35	22%	22%
	Annual	0.07	1.6	1.7	12	12	14%	14%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:
NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.
PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m^3 - 24-hour and 0.05 µg/m^3 - annual) from CAMx modeling.

H.3.6 Routine Operations

H.3.6.1 Receptors and Source Configurations

See Attachment I for detailed information regarding the modeled sources, emission rates, locations, and in-stack NO_2-to-NOx ratios.

The ambient air boundaries and receptors (consistent with Section 3.2.7 "Receptors") are shown in the AQTSD (Appendix E.3B).

H.3.6.2 Emission Calculations

Emission rates for all modeled sources are provided in Attachment I.

Gravel Pad Routine Operations Non-Mobile Support Equipment – Individual emission rates are extracted from the emissions inventory and converted to g/s. A category-wide emission rate is then calculated by summing the individual nonroad equipment hourly emission rates in its respective category. A category-wide annual emission rate is then quantified using the hourly emission rate and assuming equipment operates continuously across all hours of operating months. Emissions are allocated within each modeling domain by dividing hourly and annual emission rates by the acreage of the modeling domain.

Gravel Pad Well Intervention Non-Mobile Support Equipment – see *Gravel Pad Routine Operations Non-Mobile Support*, above, for calculation method. A minor difference relative to the Gravel Pad Routine Operations Non-Mobile Support is that total engine emissions are not included in summation and treated as separate point sources.

WOC Internal Combustion Equipment, Nonroad Engines – *see Gravel Pad Routine Operations Non-Mobile Support for calculation method.* Equipment defined as internal combustion equipment includes pumps, light plants, snowmelter boilers, and other engines.

WOC Portable External Combustion Equipment – *see Gravel Pad Routine Operations Non-Mobile Support for calculation method.* Equipment defined as portable external combustion equipment includes heaters, heater engine fans, and snowmelter engines.

WOC Stationary External Combustion Equipment – *see Gravel Pad Routine Operations Non-Mobile Support for calculation method.* Equipment defined as stationary external combustion equipment include non-portable natural gas heaters.

Mobile Tailpipe Emissions – See mobile tailpipe emissions in Section H.3.2.2. Additional emission volumes sources are added to WOC and adjacent airstrip road.

Mobile Equipment Fugitive Dust - See mobile equipment fugitive dust in Section H.3.2.2. Additional emission volumes sources are added to WOC and adjacent airstrip road.

WPF Injection and Power Generation Turbines - Hourly and annual emission rates are initially calculated using the general approach outlined above. Extracted emissions rates are taken as an annual average so monthly emission factors are applied to hourly and annual emission rates to account for fluctuations in emission rates. Monthly fluctuations in emission rates are caused by variations in ambient temperatures affecting the air density which affects fuel capacity into the turbine at full load.

WPF Flares - Hourly and annual emission rates are calculated for the low pressure and high pressure flares. An annual emission rate is quantified using the hourly emission rate and assuming upset flaring conditions can occur for 10 hours during the year.

WPF Internal Combustion Equipment, Small Nonroad Engines - Individual emission rates are extracted from the emissions inventory and converted to g/s. Equipment defined as small nonroad engines include pumps, compressors, light plants, pressure washers, and other engines under 140 horsepower. A category-wide emission rate is then calculated by summing the individual nonroad equipment hourly emission rates in its respective category. A category-wide annual emission rate is then quantified using the hourly emission rate and assuming equipment operates continuously across all hours of operating months. Emissions are split into seven equal area sources and divided by the acreage of the modeling domain.

WPF Portable External Combustion Equipment – See *WPF Internal Combustion Equipment, Small Nonroad Engines* for calculation method. Equipment defined as portable external combustion equipment includes heaters, heater engine fans, and aircraft de-icers.

WPF Stationary External Combustion Equipment – *See WPF Internal Combustion Equipment, Small Nonroad Engines* for calculation method. Equipment defined as stationary external combustion equipment include non-portable natural gas heaters.

Willow Airstrip Aircraft Activity – Hourly and annual emission rates are calculated by extracting takeoff and landing emission factors for each aircraft type. Emission factors for each aircraft type are then multiplied by the number of flights for each aircraft type in the Year 13. Since each flight constitutes one takeoff and one landing, the takeoff and landing emission rates are summed across their respective aircraft type. Total aircraft emission rates are then calculated by summing across the aircraft types and converted to g/s. The total emission rates are split into three separate areas, based on release height, and divided by the respective airstrip area.

H.3.6.3 Structure Locations and Building Downwash

See Attachment I for figures depicting the structure locations relative to emissions sources.

H.3.6.4 Criteria Pollutant Impacts

The modeling analysis for Alternative E routine operations includes scenarios for flares operating under typical operations and maximum flaring emissions which could occur during upset or emergency conditions, whereas the modeling analyses performed for Alternatives B, C, and D shown in Section 3.1 of the AQTSD (Appendix E.3B) included the only emissions for flares operating under typical operations. The modeled short-term impacts include flares operating at upset conditions at maximum hourly rates for all hours of the year and long-term impacts include upset conditions occurring for up to 10 hours per year.

Table H.3-11 shows the modeled impacts (with typical flare activity) to air quality everywhere in the domain (the analysis area) while Table H.3-12 shows the modeled impacts (with typical flare activity) at Nuiqsut. Representative background concentrations are added to model results prior to comparing the total concentration to applicable AAQS. As shown, impacts would be below applicable AAQS for all criteria pollutants and averaging periods.

Table H.3-13 provides the modeled impacts (with typical flare activity) at Nuiqsut for comparison to PSD Class II increments. Impacts at Nuiqsut are below applicable PSD increments for all pollutants and averaging times. It is important to note that a PSD increment assessment is the jurisdiction of ADEC and the proposed analysis differs from a formal increment consumption assessment in several important ways. See Section 1.2.3.2 in the AQTSD (Appendix E.3B) for more information. With regards to the $PM_{2.5}$ analysis shown here and for the other alternatives, the secondary $PM_{2.5}$ concentration from CAMx (see footnote of Table H.3-11) was added to the AERMOD primary $PM_{2.5}$ modeled concentration prior to comparison with the AAQS. Thus, the $PM_{2.5}$ concentration would be affected by potential biases in the secondary nitrate and sulfate.

Table H.3-11. Routine Operations AAQS Impacts – Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration (µg/m³)	Background Concentration (µg/m³)	Total Concentration (µg/m³)	NAAQS (µg/m³)	AAAQS (µg/m³)	Percent of NAAQS	Percent of AAAQS
CO	1-Hour	1290.5	10300.5	11591.0	40,000	40,000	29%	29%
	8-Hour	917.2	3433.5	4350.7	10,000	10,000	44%	44%
NO_2	1-Hour	139.3	22.8	162.1	188	188	86%	86%
	Annual	24.8	3.8	28.6	100	100	29%	29%
SO_2	1-Hour	25.5	9.0	34.5	196	196	18%	18%
	3-Hour	26.4	10.0	36.5	1,300	1,300	3%	3%
	24-Hour	13.0	9.3	22.4	--	365	--	6%
	Annual	0.9	1.8	2.7	--	80	--	3%
PM_{10}	24-Hour	63.1	20.0	83.1	150	150	55%	55%
$PM_{2.5}$	24-Hour	22.5	7.0	29.5	35	35	84%	84%
	Annual	4.6	1.6	6.2	12	12	51%	51%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:
NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and

$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.
PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m³ - 24-hour and 0.05 µg/m³ - annual) from CAMx modeling.

Table H.3-12. Routine Operations AAQS Impacts at Nuiqsut – Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration (µg/m³)	Background Concentration (µg/m³)	Total Concentration (µg/m³)	NAAQS (µg/m³)	AAAQS (µg/m³)	Percent of NAAQS	Percent of AAAQS
CO	1-Hour	26.0	10300.5	10326.5	40,000	40,000	26%	26%
	8-Hour	9.0	3433.5	3442.6	10,000	10,000	34%	34%
NO_2	1-Hour	17.0	23.5	40.5	188	188	22%	22%
	Annual	0.2	3.8	4.0	100	100	4%	4%
SO_2	1-Hour	4.3	9.0	13.2	196	196	7%	7%
	3-Hour	3.7	10.0	13.7	1,300	1,300	1%	1%
	24-Hour	0.6	9.3	9.9	--	365	--	3%
	Annual	0.01	1.8	1.8	--	80	--	2%
PM_{10}	24-Hour	0.9	10.0	10.9	150	150	7%	7%
$PM_{2.5}$	24-Hour	0.7	7.0	7.7	35	35	22%	22%
	Annual	0.1	1.6	1.7	12	12	14%	14%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:
NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.
PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m³ - 24-hour and 0.05 µg/m³ - annual) from CAMx modeling.

Table H.3-13. Routine Operations PSD Increment Impacts at Nuiqsut – Alternative E (Three Pad Alternative)

Pollutant	Average Time [a]	Modeled Concentration[b] (µg/m³)	Class II PSD Increment (µg/m³)
NO_2	Annual	0.20	25
SO_2	3-hour	3.69	512
	24-hour	0.61	91
	Annual	0.01	20
PM_{10}	24-hour	1.11	30
	Annual	0.12	17
$PM_{2.5}$	24-hour	0.88	9
	Annual	0.07	4

H.3.6.5 Criteria Pollutant Flare Impacts

The modeling analysis for Alternative E routine operations includes flaring emissions during emergency conditions. For informational purposes, the impacts of emergency flares were modeled without other Willow MDP project sources. Table H.3-14 compares the maximum impacts from emergency flares to the model-predicted cumulative air quality impacts presented in Table H.3-11. Emergency flaring impacts range from less than 1% to 6% of maximum total cumulative impacts, depending on the pollutant. Similarly, Table H.3-15 compares the maximum impacts from emergency flares at Nuiqsut to the model-predicted cumulative air quality impacts presented in Table H.3-12 and the contribution of flares to impacts at Nuiqsut is comparable to the contribution shown in Table H.3-16. At Nuiqsut, emergency flaring impacts range from less than 1% to 7% of total cumulative impacts, depending on the pollutant.

Table H.3-14. Criteria Impacts from Emergency Flaring– Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration from Flaring (µg/m^3)	Cumulative Impacts from All Sources (µg/m^3)	Percent of Total Concentration
CO	1-Hour	124.0	11591.0	1%
	8-Hour	33.7	4350.7	1%
NO_2	1-Hour	8.9	159.8	6%
	Annual	1.1E-04	28.6	0.0004%
SO_2	1-Hour	1.2	34.5	4%
	3-Hour	1.2	36.5	3%
	24-Hour	0.3	22.4	1%
	Annual	1.0E-05	2.7	0.0004%
PM_{10}	24-Hour	0.7	83.1	1%
$PM_{2.5}$	24-Hour	3.8E-01	29.5	1%
	Annual	4.0E-05	6.2	0.001%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:
NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m^3 - 24-hour and 0.05 µg/m^3 - annual) from CAMx modeling.

Table H.3-15. Criteria Impacts from Emergency Flaring at Nuiqsut – Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration from Flaring (µg/m³)	Maximum Modeled Concentration from All Sources (µg/m³)	Percent of Total Concentration
CO	1-Hour	26.8	10330.1	0%
	8-Hour	8.1	3442.9	0%
NO_2	1-Hour	2.9	40.5	7%
	Annual	3.0E-05	4.0	0.0008%
SO_2	1-Hour	0.3	13.2	3%
	3-Hour	0.3	13.7	2%
	24-Hour	0.1	9.9	1%
	Annual	3.0E-06	1.8	0.0002%
PM_{10}	24-Hour	0.2	10.9	2%
$PM_{2.5}$	24-Hour	0.1	7.7	1%
	Annual	1.0E-05	1.7	0.001%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:
NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m³ - 24-hour and 0.05 µg/m³ - annual) from CAMx modeling.

H.3.6.6 Criterial Pollutant Impacts from Non-Willow Sources

The modeling analysis for Alternative E routine operations includes a more recent emissions inventory for past and present actions and reasonable foreseeable future actions (RFFAs) emissions than what was used for modeling analyses performed for Alternatives B, C, and D.

Table H.3-16 compares the maximum impacts from past and present actions and RFFAs to the model-predicted cumulative air quality impacts presented in Table H.3-11. Non-Willow projects contribute substantially to the maximum model-predicted impacts, with contributions ranging from 3% to 74% of maximum total cumulative impacts, depending on the pollutant. Similarly, Table H.3-17 compares the impacts from past and present actions and RFFAs to the model-predicted cumulative air quality impacts at Nuiqsut presented in Table H.3-12. In general, the contribution of non-Willow emissions sources to impacts at Nuiqsut is less than the contribution in Table H.3-16. At Nuiqsut, non-Willow projects contribute less than 1% to 34% of total cumulative impacts, depending on the pollutant.

Table H.3-16. Criteria Impacts from RFFA sources – Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration from RFFA (µg/m³)	Maximum Modeled Concentration from All Sources (µg/m³)	Percent of Total Concentration
CO	1-Hour	352.3	11591.0	3%
	8-Hour	237.5	4350.7	5%
NO_2	1-Hour	65.2	159.8	41%
	Annual	4.3	28.6	15%
SO_2	1-Hour	25.5	34.5	74%
	3-Hour	26.4	36.5	73%
	24-Hour	13.0	22.4	58%
	Annual	0.9	2.7	32%
PM_{10}	24-Hour	5.0	83.1	6%
$PM_{2.5}$	24-Hour	3.4	29.5	11%
	Annual	0.4	6.2	7%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:
NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m³ - 24-hour and 0.05 µg/m³ - annual) from CAMx modeling.

Table H.3-17. Criteria Impacts from RFFA sources at Nuiqsut – Alternative E (Three Pad Alternative)

Pollutant	Averaging Time	Maximum Modeled Concentration from RFFA (µg/m³)	Maximum Modeled Concentration from All Sources (µg/m³)	Percent of Total Concentration
CO	1-Hour	23.6	10330.1	0.2%
	8-Hour	8.1	3442.9	0.2%
NO_2	1-Hour	13.9	40.5	34%
	Annual	0.1	4.0	3%
SO_2	1-Hour	4.2	13.2	32%
	3-Hour	3.7	13.7	27%
	24-Hour	0.6	9.9	6%
	Annual	1.1E-02	1.8	0.6%
PM_{10}	24-Hour	0.5	10.9	4%
$PM_{2.5}$	24-Hour	0.2	7.7	2%
	Annual	9.0E-03	1.7	0.5%

Notes:
Modeled highest second-high values from 5 modeled years shown for all short-term averaging times, with the exception of the following:

NO_2 1-hour value is calculated as the 3-year average of the 8th highest daily maximum 1-hour concentrations, and the background value shown is the average of the 1-hour values that are paired in time with the modeled values;
SO_2 1-hour value is calculated as the 3-year average of the 4th highest daily maximum 1-hour concentrations;
PM_{10} 24-hour value is the 6th highest value from 5-year modeling period; and
$PM_{2.5}$ 24-hour value is calculated as the 3-year average of the 8th highest values.
Maximum annual values are shown for NO_2 and SO_2 and the $PM_{2.5}$ annual value is the annual mean averaged over the maximum 3 years.PM_{10} and $PM_{2.5}$ 24-hour, and $PM_{2.5}$ annual modeled impacts include secondary $PM_{2.5}$ impacts (0.48 µg/m^3 - 24-hour and 0.05 µg/m^3 - annual) from CAMx modeling.

H.3.6.7 HAPs Impacts

For comparison to RELs and RfCs, toxic modeling was conducted and evaluated for 6 HAPs (benzene, toluene, ethylbenzene, xylenes, n-hexane, and formaldehyde). The evaluations against the RELs and RfCs were done using the HAP emission rates documented in Attachment I. Cancer risk was evaluated for the Nuiqsut community using the procedures discussed in Section 1.0 of the in the AQTSD (Appendix E.3B).

As noted above the criteria pollutant modeling analysis for Alternative E routine operations includes maximum flaring emissions which could occur during upset conditions. For evaluation of HAPs impacts, flares were modeled for both normal operations and during upset conditions.

Table H.3-18, Table H.3-19 and Table H.3-20 provide the overall HAP impacts from all routine operations including normal flare operations. As shown in Table H.3-18 and Table H.3-19, the concentrations of all HAPs everywhere in the analysis area and at Nuiqsut, are well below their respective RELs on an hourly period and RfCs on an annual period. In addition, Table H.3-20 indicates that the estimated cancer risk due to the Project is much less than the threshold of one in one million (1.0e-06) at Nuiqsut. Note that the HAPs considered for this analysis only include those most commonly emitted from oil and gas development (benzene, toluene, ethylbenzene, xylenes, n-hexane, and formaldehyde) and that the Total HAPs reported in Table H.3-20 are the sum of only a subset of HAPs.

Table 3.3.3 in the main body of the Supplemental DEIS presents HAPs concentrations measured at Nuiqsut monitoring station starting in 2014 through March 2021. As shown in Table 3.3.3, measured HAPs concentrations are well below Acute REL and AEGLs. HAP measurements at Nuiqsut frequently have been below the measurement detection limit which indicates that HAP concentrations in ambient air are typically low.

Table H.3-18. Routine Operations (Typical Flare Activity) Acute and Non-carcinogenic HAPs Impacts – Alternative E (Three Pad Alternative)

Pollutant	Max 1-hour in analysis area (µg/m^3)	Acute REL (µg/m^3)	Max 8-hour in analysis area (µg/m^3)	AEGLs (µg/m^3)	Max Annual in analysis area (µg/m^3)	RfC (µg/m^3)
Benzene	9.9	27.0	7.0	29,000.0	0.3	30.0
Ethylbenzene	258.4	140,000.0	181.1	140,000.0	6.8	260.0
Formaldehyde	5.9	55.0	4.2	1,100.0	0.2	9.8
n-hexane	632.2	10,000,000.0	443.1	10,000,000.0	16.7	700.0
Toluene	29.1	5,000.0	20.4	250,000.0	0.8	5,000.0
Xylene	508.9	22,000.0	356.7	560,000.0	13.4	100.0

Notes:

Pollutant	Max 1-hour in analysis area (µg/m³)	Acute REL (µg/m³)	Max 8-hour in analysis area (µg/m³)	AEGLs (µg/m³)	Max Annual in analysis area (µg/m³)	RfC (µg/m³)

[1] No REL available for these air toxics. Values shown are Acute Exposure Guideline Levels for mild effects (AELG-1) (ethyl benzene) and moderate effects (AEGL-2) (n-hexane).

Table H.3-19. Routine Operations (Typical Flare Activity) Acute and Non-carcinogenic HAPs Impacts at Nuiqsut – Alternative E (Three Pad Alternative)

Pollutant	Max 1-hour (µg/m³)	Acute REL (µg/m³)	Max 8-hour (µg/m³)	AEGLs (µg/m³)	Max Annual (µg/m³)	RfC (µg/m³)
Benzene	0.8	27.0	0.1	29,000.0	0.002	30.0
Ethylbenzene	0.7	140,000.0	0.3	140,000.0	0.014	260.0
Formaldehyde	1.0	55.0	0.3	1,100.0	0.004	9.8
n-hexane	3.3	10,000,000.0	0.7	10,000,000.0	0.040	700.0
Toluene	0.3	5,000.0	0.04	250,000.0	0.002	5,000.0
Xylene	1.3	22,000.0	0.6	560,000.0	0.028	100.0

Notes:
[1] No REL available for these air toxics. Values shown are Acute Exposure Guideline Levels for mild effects (AELG-1) (ethyl benzene) and moderate effects (AEGL-2) (n-hexane).

Table H.3-20. Routine Operation (Typical Flare Activity) Carcinogenic HAPs Impacts at Nuiqsut – Alternative E (Three Pad Alternative)

Pollutant	Max Annual (µg/m³)	Cancer Unit Risk Factor thresholds (1/(µg/m³))	Exposure Adjustment Factor	Cancer Risks
Benzene	1.58E-03	7.80E-06	4.30E-01	5.30E-09
Ethylbenzene	1.40E-02	2.50E-06		1.70E-09
Formaldehyde	3.62E-03	1.30E-05		8.83E-09
			Total Cancer Risk:	1.58E-08

Table H.3-21, Table H.3-22, and Table H.3-23 provide the overall HAP impacts from all routine operation emissions including flaring during emergency conditions. As shown in Table H.3-21 and Table H.3-22, the concentrations of all HAPs everywhere in the analysis area and at Nuiqsut are below their respective RELs, on an hourly period, and RfCs, on an annual period, during emergency flaring events. In addition, Table H.3-23 indicates that the estimated cancer risk due to the Project is less than the threshold of one in one million (1.0e-06) at Nuiqsut.

For informational purposes, the HAPs impacts of emergency flares were modeled without other Willow MDP project sources. Table H.3-24 presents the maximum HAPs impacts from emergency flares. Emergency flaring HAPs impacts are substantially lower than maximum total HAPs impacts, with the exception of formaldehyde. Similarly, Table H.3-25 presents the maximum HAPs impacts from

emergency flares at Nuiqsut. Emergency flaring HAPs impacts are substantially lower than the cumulative HAPs impacts at Nuiqsut, with the exception of formaldehyde and n-hexane.

Table H.3-21. Routine Operations with Emergency Flaring Acute and Non-carcinogenic HAPs Impacts – Alternative E (Three Pad Alternative)

Pollutant	Max 1-hour in analysis area (µg/m³)	Acute REL (µg/m³)	Max 8-hour in analysis area (µg/m³)	AEGLs (µg/m³)	Max Annual in analysis area (µg/m³)	RfC (µg/m³)
Benzene	9.9	27.0	7.0	29,000.0	0.3	30.0
Ethylbenzene	258.4	140,000.0	181.1	140,000.0	6.8	260.0
Formaldehyde	46.2	55.0	11.2	1,100.0	0.2	9.8
n-hexane	632.2	10,000,000.0	443.1	10,000,000.0	16.7	700.0
Toluene	29.1	5,000.0	20.4	250,000.0	0.8	5,000.0
Xylene	508.9	22,000.0	356.7	560,000.0	13.4	100.0

Notes:
[1] No REL available for these air toxics. Values shown are Acute Exposure Guideline Levels for mild effects (AELG-1) (ethyl benzene) and moderate effects (AEGL-2) (n-hexane).

Table H.3-22. Routine Operations with Emergency Flaring Activity Acute and Non-carcinogenic HAPs Impacts at Nuiqsut – Alternative E (Three Pad Alternative)

Pollutant	Max 1-hour (µg/m³)	Acute REL (µg/m³)	Max 8-hour (µg/m³)	AEGLs (µg/m³)	Max Annual (µg/m³)	RfC (µg/m³)
Benzene	0.8	27.0	0.1	29,000.0	0.002	30.0
Ethylbenzene	0.7	140,000.0	0.3	140,000.0	0.014	260.0
Formaldehyde	6.9	55.0	4.1	1,100.0	0.004	9.8
n-hexane	4.2	10,000,000.0	2.5	10,000,000.0	0.040	700.0
Toluene	0.3	5,000.0	0.1	250,000.0	0.002	5,000.0
Xylene	1.3	22,000.0	0.6	560,000.0	0.028	100.0

Notes:
[1] No REL available for these air toxics. Values shown are Acute Exposure Guideline Levels for mild effects (AELG-1) (ethyl benzene) and moderate effects (AEGL-2) (n-hexane).

Table H.3-23. Routine Operation with Emergency Flaring Carcinogenic HAPs Impacts at Nuiqsut – Alternative E (Three Pad Alternative)

Pollutant	Max Annual (µg/m³)	Cancer Unit Risk Factor thresholds (1/(µg/m³))	Exposure Adjustment Factor	Cancer Risks
Benzene	1.58E-03	7.80E-06	4.30E-01	5.30E-09
Ethylbenzene	1.40E-02	2.50E-06		1.70E-09
Formaldehyde	3.65E-03	1.30E-05		8.83E-09
			Total Cancer Risk:	1.58E-08

Table H.3-24. Emergency Flaring - Acute and Non-carcinogenic HAPs Impacts – Alternative E (Three Pad Alternative)

Pollutant	Max 1-hour in analysis area (µg/m³)	Acute REL (µg/m³)	Max 8-hour in analysis area (µg/m³)	AEGLs (µg/m³)	Max Annual in analysis area (µg/m³)	RfC (µg/m³)
Benzene	1.7	27.0	0.4	29,000.0	4.7E-06	30.0
Ethylbenzene	0.1	140,000.0	0.02	140,000.0	2.7E-07	260.0
Formaldehyde	46.2	55.0	11.2	1,100.0	1.3E-04	9.8
n-hexane	27.9	10,000,000.0	6.8	10,000,000.0	8.0E-05	700.0
Toluene	1.5	5,000.0	0.4	250,000.0	4.2E-06	5,000.0
Xylene	0.4	22,000.0	0.1	560,000.0	1.2E-06	100.0

Notes:
[1] No REL available for these air toxics. Values shown are Acute Exposure Guideline Levels for mild effects (AELG-1) (ethyl benzene) and moderate effects (AEGL-2) (n-hexane).

Table H.3-25. Emergency Flaring - Acute and Non-carcinogenic HAPs Impacts at Nuiqsut from Flaring – Alternative E (Three Pad Alternative)

Pollutant	Max 1-hour (µg/m³)	Acute REL (µg/m³)	Max 8-hour (µg/m³)	AEGLs (µg/m³)	Max Annual (µg/m³)	RfC (µg/m³)
Benzene	0.2	27.0	0.1	29,000.0	1.3E-06	30.0
Ethylbenzene	0.01	140,000.0	0.01	140,000.0	8.0E-08	260.0
Formaldehyde	6.9	55.0	4.1	1,100.0	4.0E-05	9.8
n-hexane	4.2	10,000,000.0	2.5	10,000,000.0	2.0E-05	700.0
Toluene	0.2	5,000.0	0.1	250,000.0	1.2E-06	5,000.0
Xylene	0.1	22,000.0	0.04	560,000.0	3.4E-07	100.0

Notes:
[1] No REL available for these air toxics. Values shown are Acute Exposure Guideline Levels for mild effects (AELG-1) (ethyl benzene) and moderate effects (AEGL-2) (n-hexane).

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Attachment I

Near-field Source Locations and Modeled Emission Rates for Alternative E

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I.1 Alternative E

I.1.1 Scenario 1: Construction

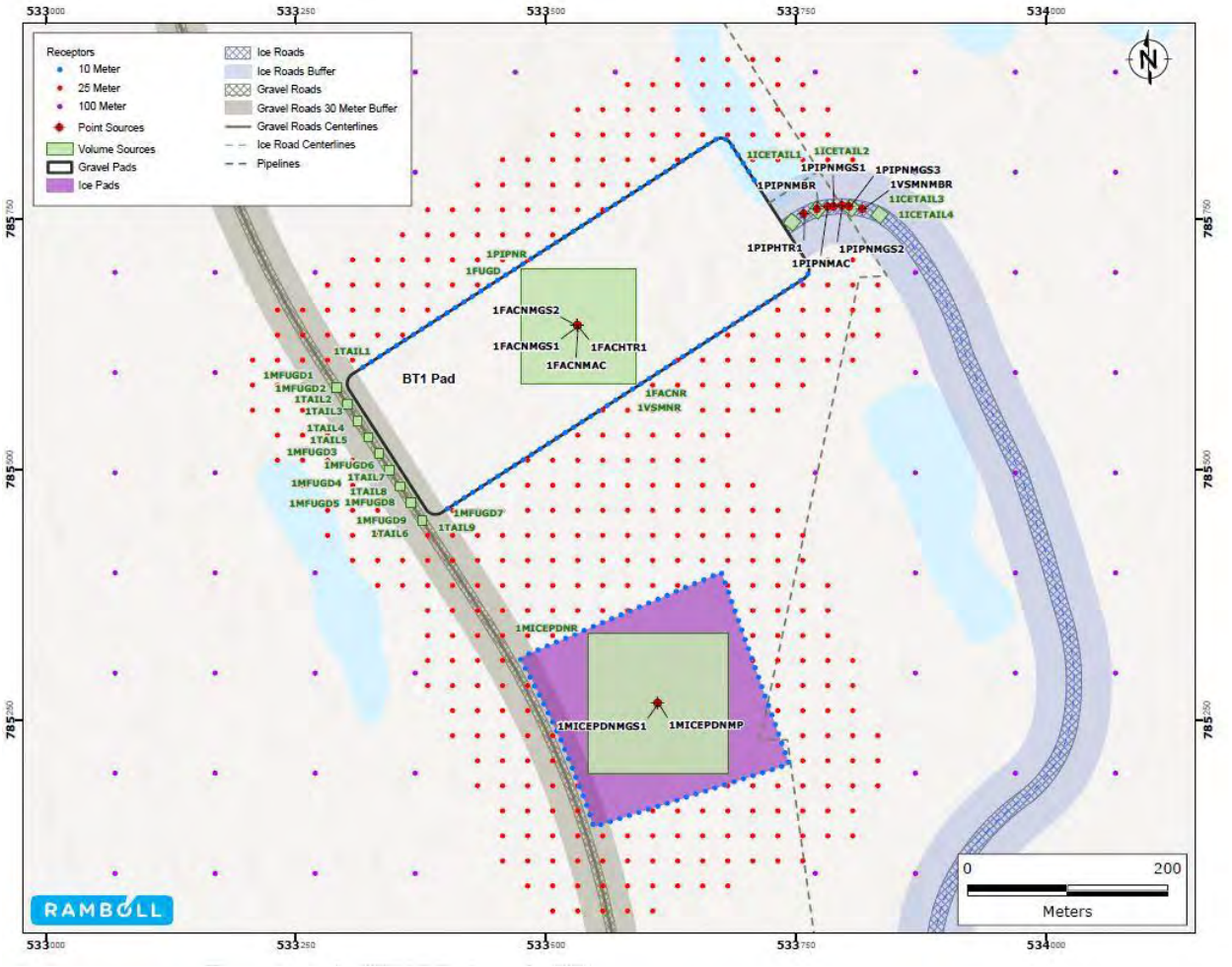


Figure I.1-1. Alternative E Near-field Model Scenario 1 Source Locations at BT1 with Ice Pad.

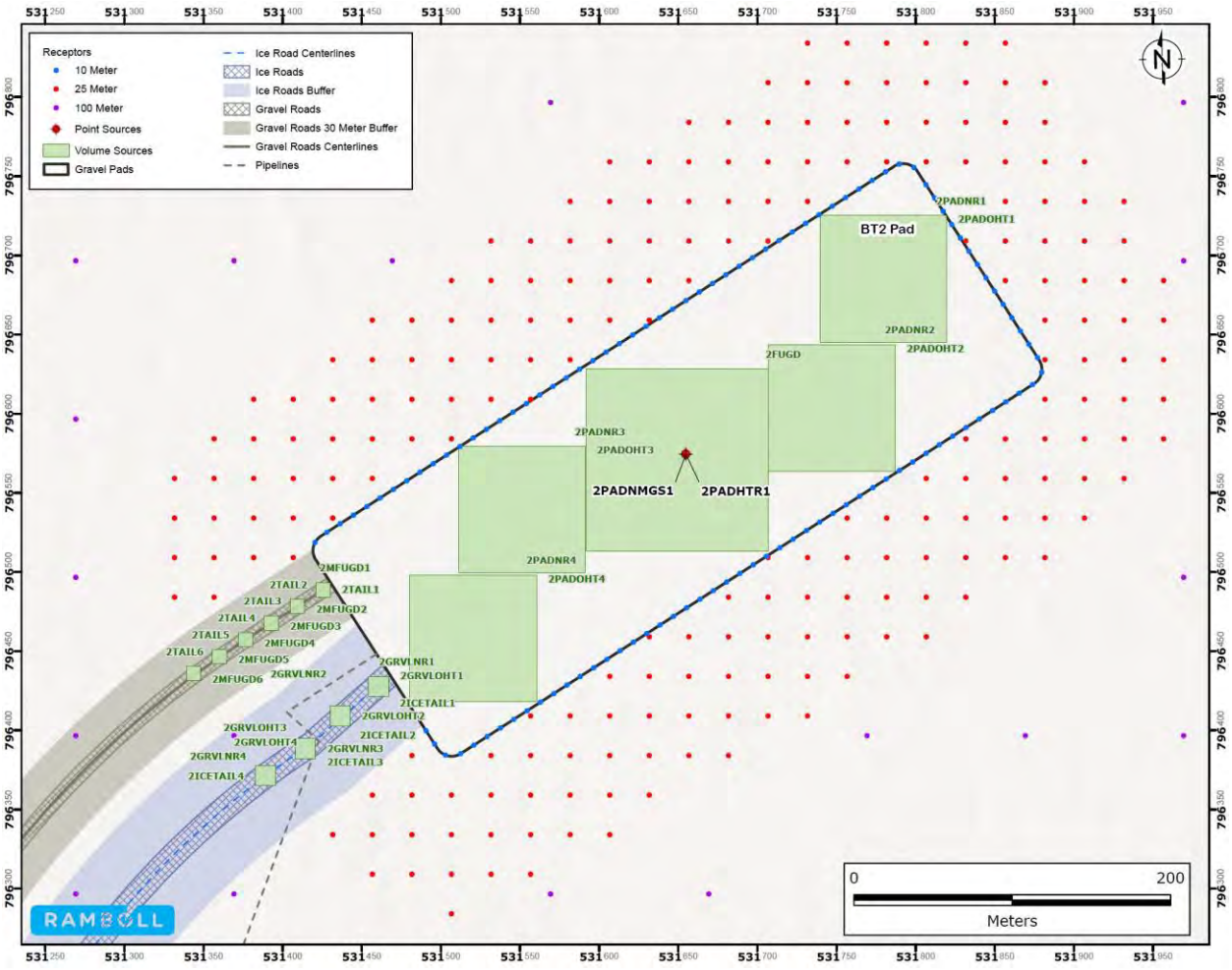


Figure I.1-2. Alternative E Near-field Model Scenario 1 Source Locations at BT2.

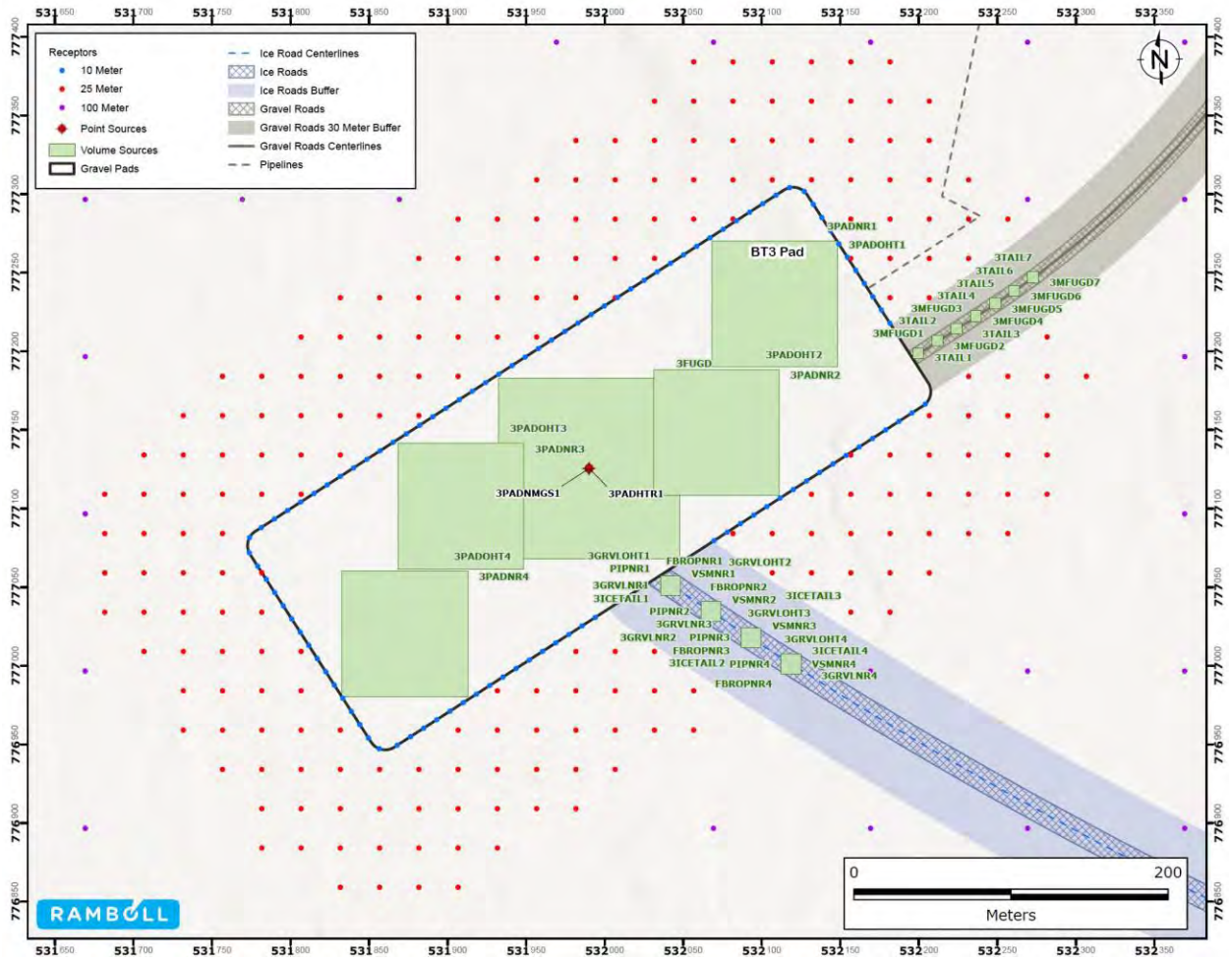


Figure I.1-3. Alternative E Near-field Model Scenario 1 Source Locations at BT3.

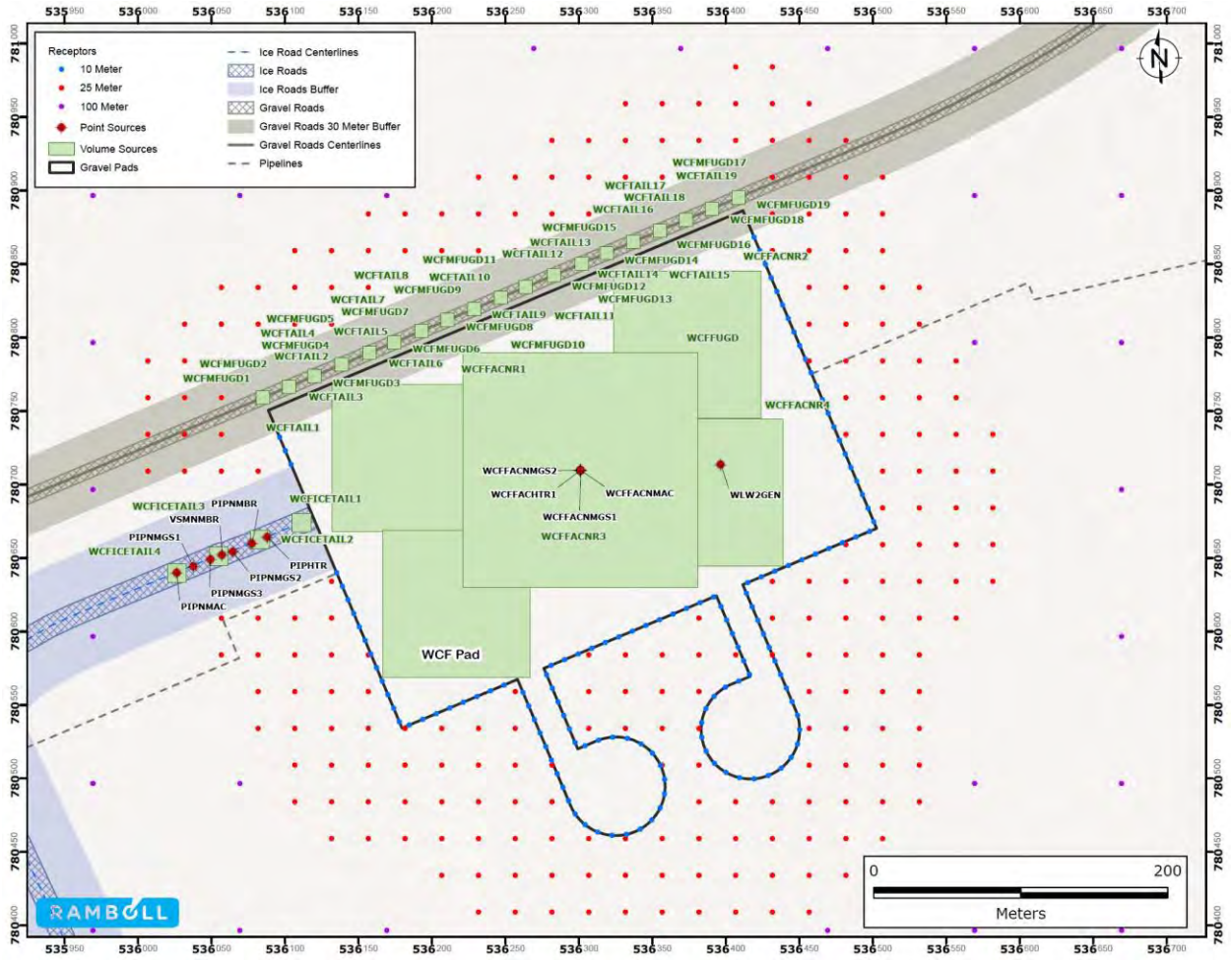


Figure I.1-4. Alternative E Near-field Model Scenario 1 Source Locations at WCF.

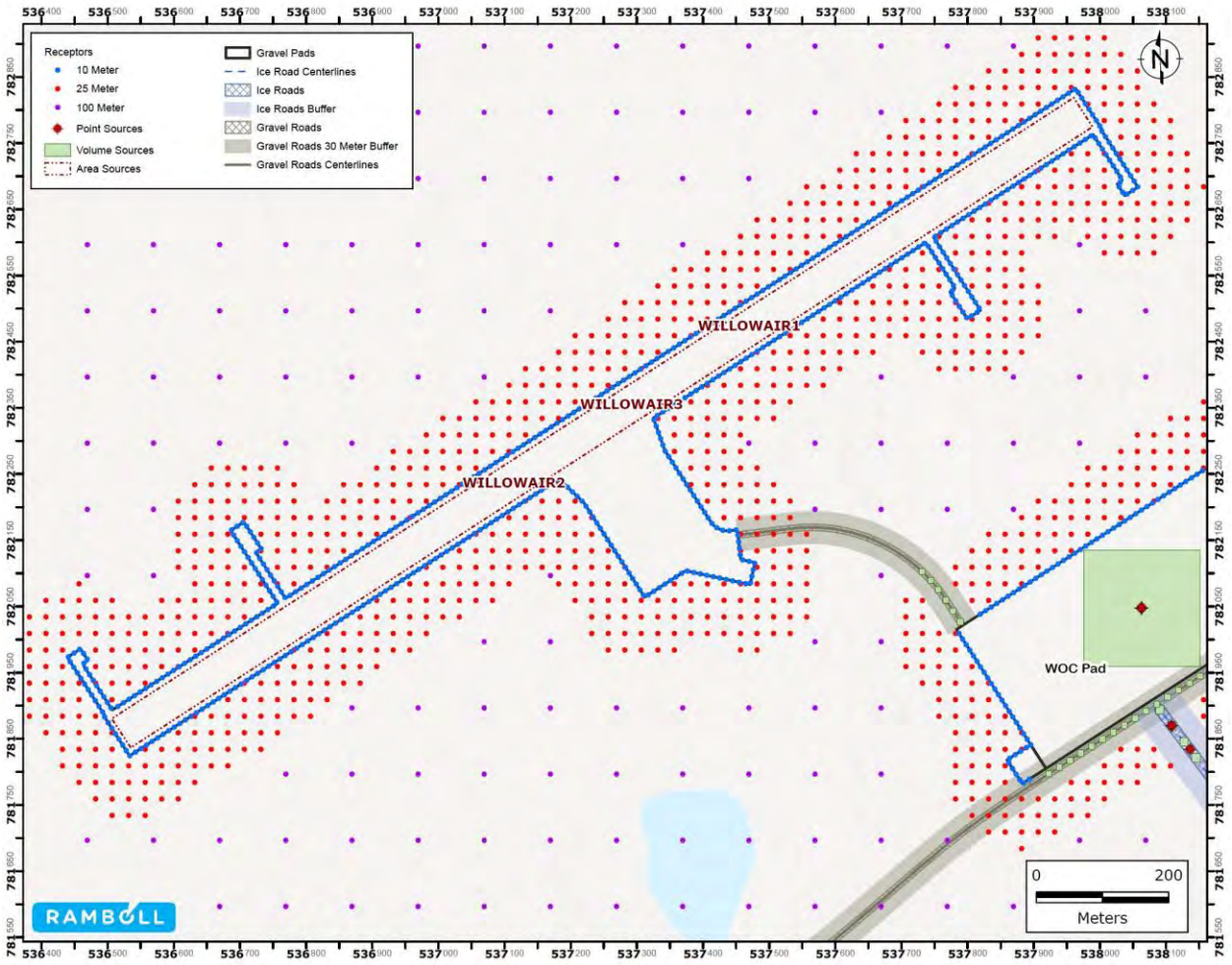


Figure I.1-5. Alternative E Near-field Model Scenario 1 Source Locations at Airstrip/Willow Operations Center.

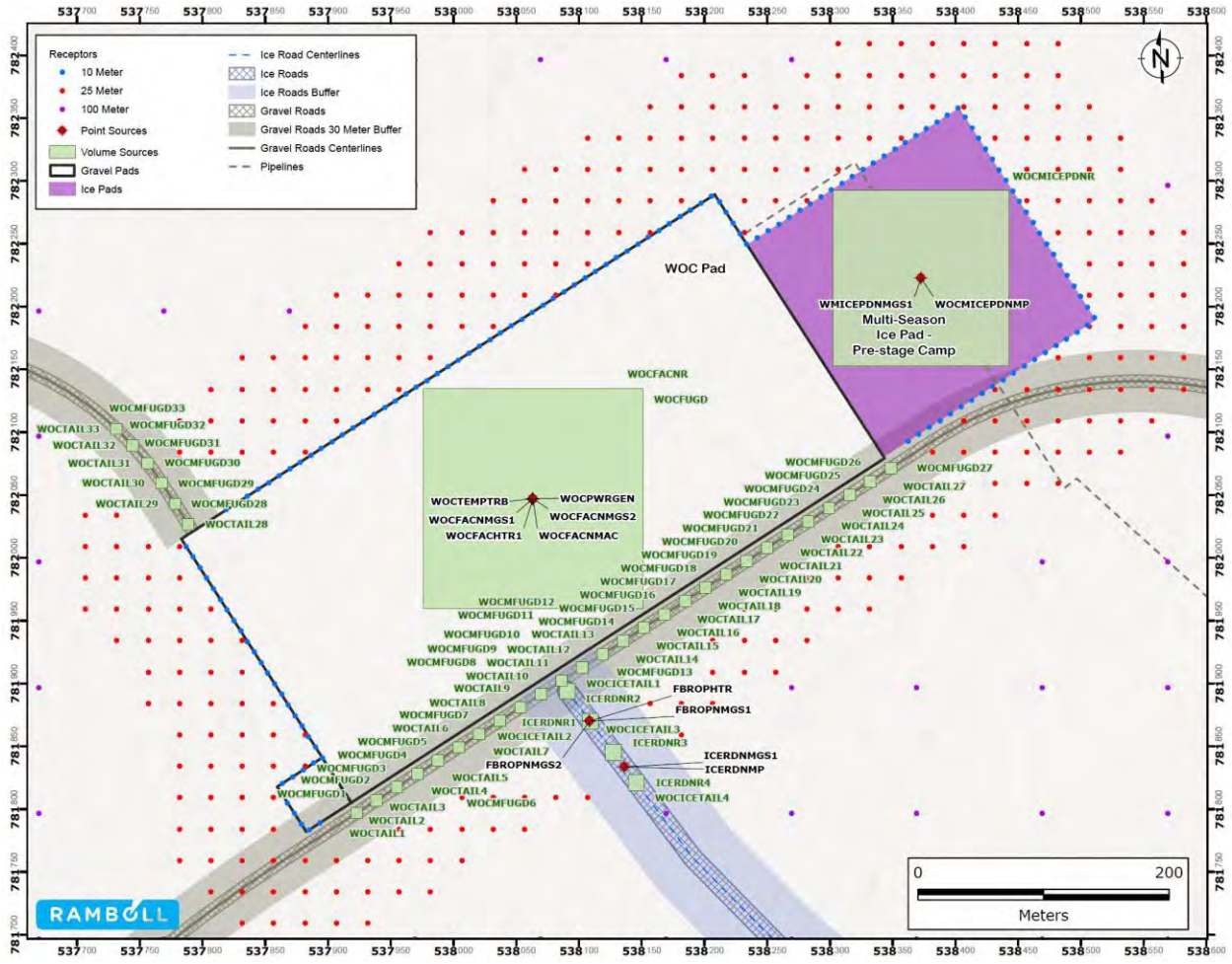


Figure I.1-6. Alternative E Near-field Model Scenario 1 Source Locations at WOC with Ice Pad.

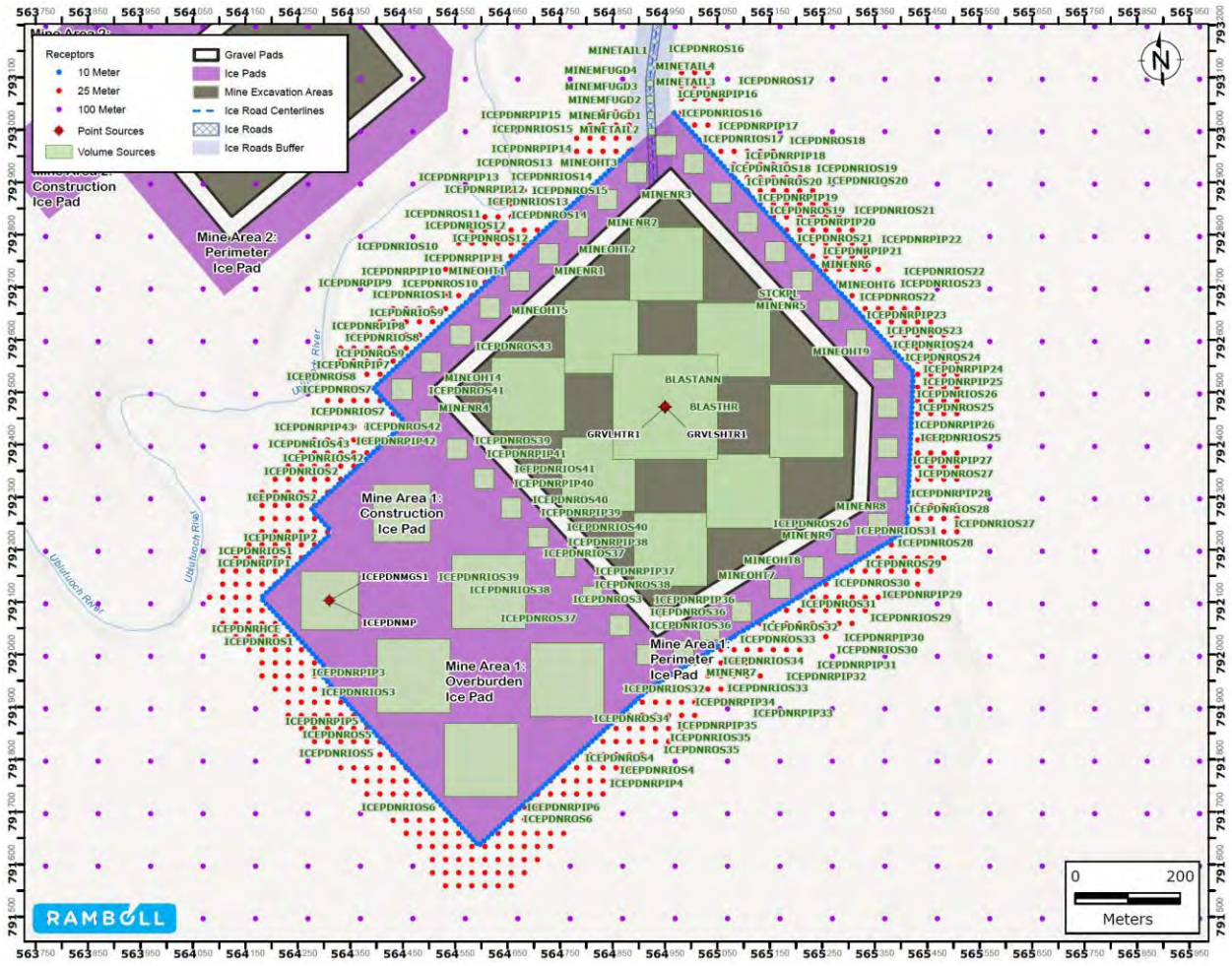


Figure I.1-7. Alternative E Near-field Model Scenario 1 Source Locations at Gravel Mine Site.

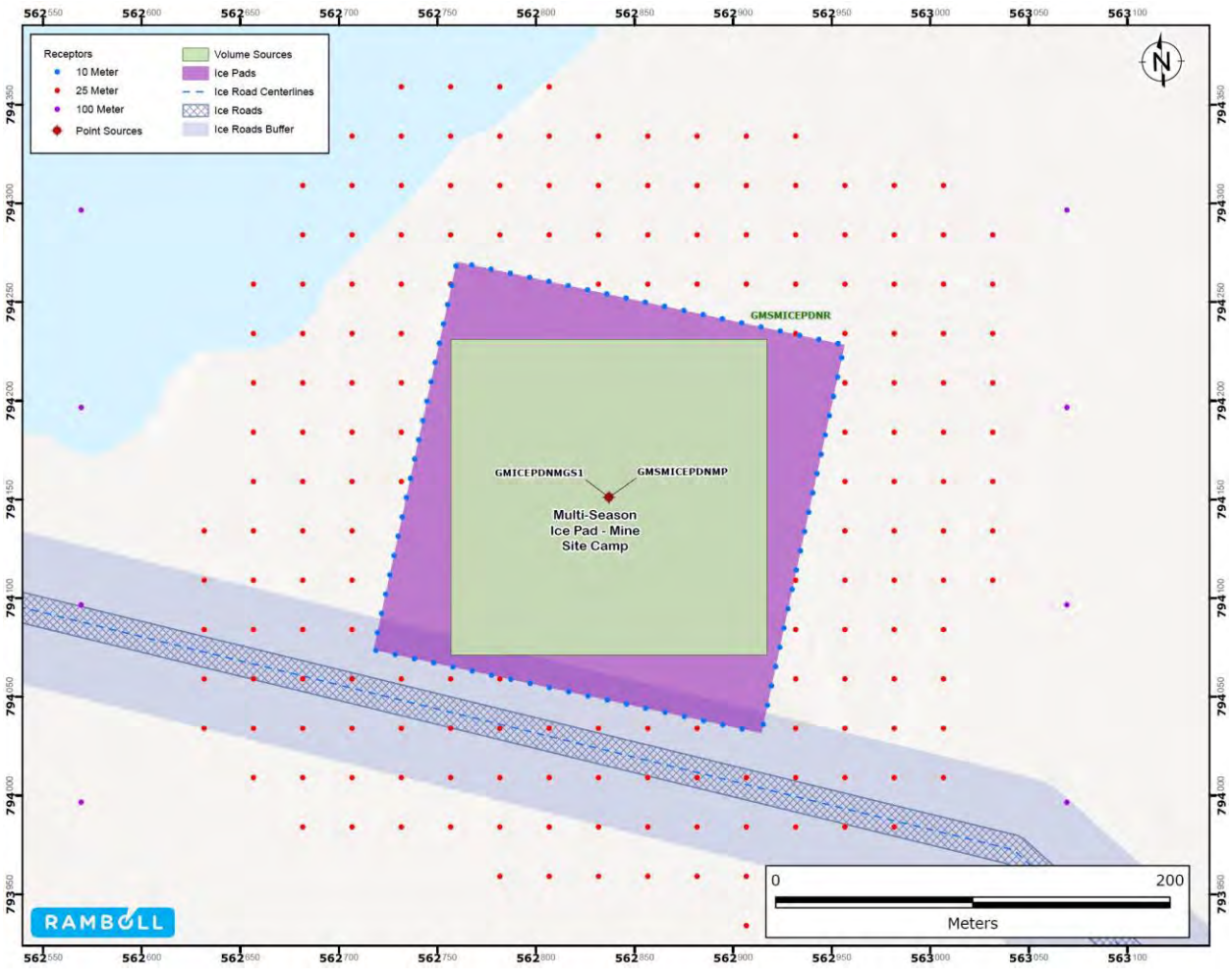


Figure I.1-8. Alternative E Near-field Model Scenario 1 Source Locations at Mine Camp.

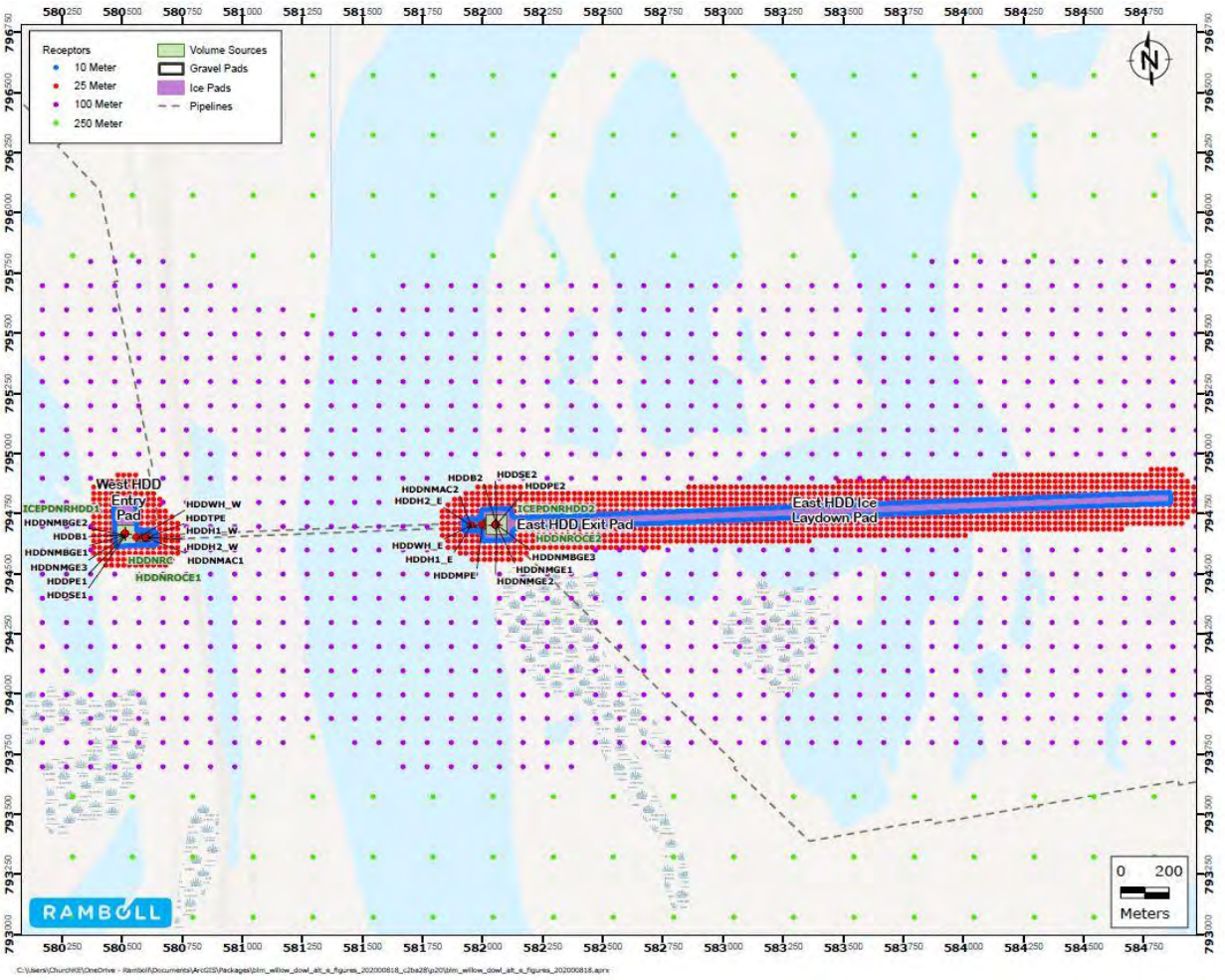


Figure I.1-9. Alternative E Near-field Model Scenario 1 Source Locations at HDD (wide view).

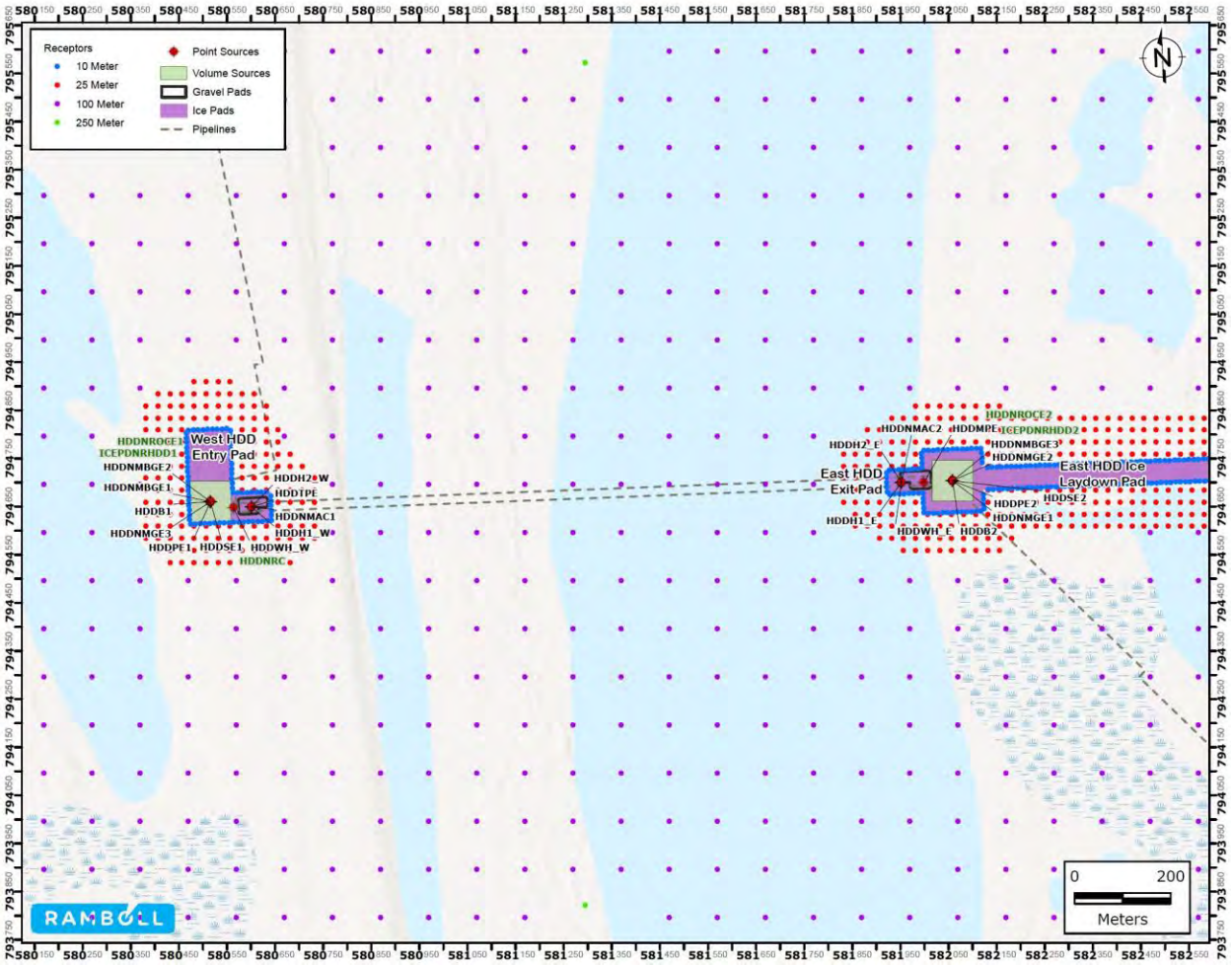


Figure I.1-10. Alternative E Near-field Model Scenario 1 Source Locations at HDD (close-up view).

Table I.1-1. Alternative E Near-field Model Scenario 1 Emissions Source Descriptions and In-stack Ratios.

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1FACHTR1	POINT	BT1 - Willow Facilities Installation - Construction Heaters	0.05	Diesel fueled heaters and boiler
1FACNMAC	POINT	BT1 - Willow Facilities Installation - Air Compressors	0.1	Diesel tailpipe from non-road equipment
1FACNR	VOLUME	BT1 - Willow Facilities Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1FACNMGS1	POINT	BT1 - Willow Facilities Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
1FACNMGS2	POINT	BT1 - Willow Facilities Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
1PIPHTR1	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Construction Heaters	0.05	Diesel fueled heaters and boiler
1PIPNMAC	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Air Compressors	0.1	Diesel tailpipe from non-road equipment
1PIPNR	VOLUME	BT1 - Pipeline Installation - Wellsite to WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1PIPNMBR	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
1PIPNMGS1	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel tailpipe from non-road equipment
1PIPNMGS2	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel tailpipe from non-road equipment
1PIPNMGS3	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel tailpipe from non-road equipment
1VSMNR	VOLUME	BT1 - Vertical Support Member (VSM) Construction - Wellsite to WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1VSMNMBR	POINT	BT1 - Vertical Support Member (VSM) Construction - Wellsite to WPF - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
1FUGD	VOLUME	BT1 - Wind Erosion Fugitive Dust - Wind Erosion Fugitive Dust	-	-
2PADHTR1	POINT	BT2 - Pad Construction - Construction Heaters	0.05	Diesel fueled heaters and boiler
2PADSHTR1	POINT	BT2 - Pad Construction - Construction Shop Heaters	0.05	Diesel fueled heaters and boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2PADNMGS1	POINT	BT2 - Pad Construction - Generator Sets	0.1	Diesel tailpipe from non-road equipment
2FUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust - Wind Erosion Fugitive Dust	-	-
3PADHTR1	POINT	BT3 - Pad Construction - Construction Heaters	0.05	Diesel fueled heaters and boiler
3PADSHTR1	POINT	BT3 - Pad Construction - Construction Shop Heaters	0.05	Diesel fueled heaters and boiler
3PADNMGS1	POINT	BT3 - Pad Construction - Generator Sets	0.1	Diesel tailpipe from non-road equipment
3FUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust - Wind Erosion Fugitive Dust	-	-
ALPAIR1	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 50.8m	0.5	Aircraft
ALPAIR2	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 152.4m	0.5	Aircraft
ALPAIR3	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 254m	0.5	Aircraft
BDGHTR1	POINT	Bridge Installation - Construction Heater #1	0.05	Diesel fueled heaters and boiler
BDGHTR2	POINT	Bridge Installation - Construction Heater #2	0.05	Diesel fueled heaters and boiler
BDGNMAC1	POINT	Bridge Installation - Air Compressors	0.1	Diesel tailpipe from non-road equipment
BDGNMAC2	POINT	Bridge Installation - Air Compressors	0.1	Diesel tailpipe from non-road equipment
BDGNR	VOLUME	Bridge Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
BDGNMBR	POINT	Bridge Installation - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
BDGNMGS1	POINT	Bridge Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
BDGNMGS2	POINT	Bridge Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
MINENMAC	POINT	Gravel Mining - Air Compressors	0.1	Diesel tailpipe from non-road equipment
MINENMBR	POINT	Gravel Mining - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
MINENMGS1	POINT	Gravel Mining - Generator Sets	0.1	Diesel tailpipe from non-road equipment
MINENMP	POINT	Gravel Mining - Pumps	0.2	Diesel tailpipe from non-road equipment
BLASTANN	VOLUME	Blasting Emissions - Blasting Long Term	0.5	Blasting Emissions
BLASTHR	VOLUME	Blasting Emissions - Blasting Short Term	0.5	Blasting Emissions
GRVLHTR1	POINT	Gravel Roads Construction - Construction Heaters	0.05	Diesel fueled heaters and boiler
GRVLSHTR1	POINT	Gravel Roads Construction - Construction Shop Heaters	0.05	Diesel fueled heaters and boiler
GRVLNMGS1	POINT	Gravel Roads Construction - Generator Sets	0.1	Diesel tailpipe from non-road equipment
ICERDNMGS1	POINT	Seasonal Ice Road Construction - Generator Sets	0.1	Diesel tailpipe from non-road equipment
ICERDNMP	POINT	Seasonal Ice Road Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
ICEPDNMGS1	POINT	Single Season Ice Pad Construction - Generator Sets	0.1	Diesel tailpipe from non-road equipment
ICEPDNMP	POINT	Single Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
1MICEPDNR	VOLUME	Multi-Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1MICEPDNMGS1	POINT	Multi-Season Ice Pad Construction - Generator Sets	0.1	Diesel tailpipe from non-road equipment
1MICEPDNMP	POINT	Multi-Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
WOCMICEPDNR	VOLUME	Multi-Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WMICEPDNMGS1	POINT	Multi-Season Ice Pad Construction - Generator Sets	0.1	Diesel tailpipe from non-road equipment
WOCMICEPDNMP	POINT	Multi-Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
GMSMICEPDNR	VOLUME	Multi-Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
GMICEPDNMGS1	POINT	Multi-Season Ice Pad Construction - Generator Sets	0.1	Diesel tailpipe from non-road equipment
GMSMICEPDNMP	POINT	Multi-Season Ice Pad Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
STCKPL	VOLUME	Stockpile Fugitive Dust - Stockpile	-	-
FBROPHTR	POINT	Fiber Optic Line Installation - Construction Heaters	0.05	Diesel fueled heaters and boiler
FBROPNMGS1	POINT	Fiber Optic Line Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
FBROPNMGS2	POINT	Fiber Optic Line Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
PIPHTR	POINT	Pipeline Installation - Construction Heaters	0.05	Diesel fueled heaters and boiler
PIPNMAC	POINT	Pipeline Installation - Air Compressors	0.1	Diesel tailpipe from non-road equipment
PIPNMBR	POINT	Pipeline Installation - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
PIPNMGS1	POINT	Pipeline Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
PIPNMGS2	POINT	Pipeline Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
PIPNMGS3	POINT	Pipeline Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
VSMNMBR	POINT	Vertical Support Member Construction - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
HDDPE1	POINT	Boring Equipment - Primary Power Engine #1	0.2	Diesel tailpipe from non-road equipment
HDDPE2	POINT	Boring Equipment - Primary Power Engine #2	0.2	Diesel tailpipe from non-road equipment
HDDSE1	POINT	Boring Equipment - Secondary Power Engine #1	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
HDDSE2	POINT	Boring Equipment - Secondary Power Engine #2	0.2	Diesel tailpipe from non-road equipment
HDDMPE	POINT	Boring Equipment - Mud Pump Engine	0.2	Diesel tailpipe from non-road equipment
HDDTPE	POINT	Boring Equipment - Transfer Pump Engine	0.2	Diesel tailpipe from non-road equipment
HDDB1	POINT	Boring Equipment - Boiler #1	0.05	Diesel fueled heaters and boiler
HDDB2	POINT	Boring Equipment - Boiler #2	0.05	Diesel fueled heaters and boiler
HDDH1_W	POINT	Boring Equipment - Heater #1 - West	0.1	Diesel fueled heaters and boiler
HDDH1_E	POINT	Boring Equipment - Heater #1 - East	0.1	Diesel fueled heaters and boiler
HDDH2_W	POINT	Boring Equipment - Heater #2 - West	0.1	Diesel fueled heaters and boiler
HDDH2_E	POINT	Boring Equipment - Heater #2 - East	0.1	Diesel fueled heaters and boiler
HDDWH_W	POINT	Boring Equipment - Water Heater - West	0.1	Diesel fueled heaters and boiler
HDDWH_E	POINT	Boring Equipment - Water Heater - East	0.1	Diesel fueled heaters and boiler
HDDNMGE1	POINT	Non-Mobile Support Equipment - Generator Sets	0.1	Diesel tailpipe from non-road equipment
HDDNMGE2	POINT	Non-Mobile Support Equipment - Generator Sets	0.1	Diesel tailpipe from non-road equipment
HDDNMGE3	POINT	Non-Mobile Support Equipment - Generator Sets	0.1	Diesel tailpipe from non-road equipment
HDDNMBGE1	POINT	Non-Mobile Support Equipment - Backup Generator Sets	0.1	Diesel tailpipe from non-road equipment
HDDNMBGE2	POINT	Non-Mobile Support Equipment - Backup Generator Sets	0.1	Diesel tailpipe from non-road equipment
HDDNMBGE3	POINT	Non-Mobile Support Equipment - Backup Generator Sets	0.1	Diesel tailpipe from non-road equipment
HDDNMAC1	POINT	Non-Mobile Support Equipment - Air Compressors #1	0.1	Diesel tailpipe from non-road equipment
HDDNMAC2	POINT	Non-Mobile Support Equipment - Air Compressors #2	0.1	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
HDDNROCE1	VOLUME	Non-Mobile Support Equipment - Other Construction Equipment #1	0.2	Diesel tailpipe from non-road equipment
HDDNROCE2	VOLUME	Non-Mobile Support Equipment - Other Construction Equipment #2	0.2	Diesel tailpipe from non-road equipment
HDDNRC	VOLUME	Non-Mobile Support Equipment - Cranes	0.2	Diesel tailpipe from non-road equipment
WOCPWRGEN	POINT	Temporary Power Generation - Power Generation	0.1	Diesel tailpipe from non-road equipment
WOCTEMPTRB	POINT	Temporary Power Generation - Power Generation Turbine	0.3	Diesel tailpipe from non-road equipment
WOCFACHTR1	POINT	Facilities Installation-WOC - Heaters	0.05	Diesel fueled heaters and boiler
WOCFACNMAC	POINT	Facilities Installation-WOC - Air Compressors	0.1	Diesel tailpipe from non-road equipment
WOCFACNR	VOLUME	Facilities Installation-WOC - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WOCFACNMGS1	POINT	Facilities Installation-WOC - Generator Sets	0.1	Diesel tailpipe from non-road equipment
WOCFACNMGS2	POINT	Facilities Installation-WOC - Generator Sets	0.1	Diesel tailpipe from non-road equipment
WOCFUGD	VOLUME	Construction Fugitive Dust-WOC - Wind Erosion Fugitive Dust	-	-
WCFFACHTR1	POINT	Facilities Installation-WPF - Heaters	0.05	Diesel fueled heaters and boiler
WCFFACNMAC	POINT	Facilities Installation-WPF - Air Compressors	0.1	Diesel tailpipe from non-road equipment
WCFFACNMGS1	POINT	Facilities Installation-WPF - Generator Sets	0.1	Diesel tailpipe from non-road equipment
WCFFACNMGS2	POINT	Facilities Installation-WPF - Generator Sets	0.1	Diesel tailpipe from non-road equipment
WCFFUGD	VOLUME	Construction Fugitive Dust-WPF - Wind Erosion Fugitive Dust	-	-
WILLOWAIR1	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 50.8m	0.5	Aircraft
WILLOWAIR2	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 152.4m	0.5	Aircraft

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WILLOWAIR3	AREAPOLY	Aircraft Activity (Willow Airstrip) - Release Height 254m	0.5	Aircraft
2TAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL5	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL6	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2ICETAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2ICETAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2ICETAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2ICETAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
3TAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL5	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
3TAIL6	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL7	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3ICETAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3ICETAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3ICETAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3ICETAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
1TAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL6	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL7	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL8	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL9	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1ICETAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1ICETAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1ICETAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1ICETAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL1	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL2	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL3	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL4	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL5	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL6	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL7	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL8	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL9	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL10	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL11	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL12	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL13	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCTAIL14	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL15	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL16	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL17	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL18	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL19	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL20	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL21	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL22	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL23	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL24	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL25	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL26	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL27	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL28	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL29	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCTAIL30	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL31	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL32	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL33	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCICETAIL1	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCICETAIL2	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCICETAIL3	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCICETAIL4	VOLUME	Mobile Support Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL1	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL2	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL3	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL4	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL5	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL6	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL7	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL8	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFTAIL9	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL10	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL11	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL12	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL13	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL14	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL15	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL16	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL17	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL18	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL19	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFICETAIL1	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFICETAIL2	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFICETAIL3	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFICETAIL4	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
MINETAIL1	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
MINETAIL2	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles
MINETAIL3	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles
MINETAIL4	VOLUME	Mobile Support Equipment Tailpipe - MINE	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD6	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD7	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD8	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
1MFUGD9	VOLUME	Mobile Support Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD5	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
2MFUGD6	VOLUME	Mobile Support Equipment Fugitive Dust - BT2	-	-
3MFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD5	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
3MFUGD6	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
3MFUGD7	VOLUME	Mobile Support Equipment Fugitive Dust - BT3	-	-
WCFMFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD5	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD6	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD7	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD8	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD9	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD10	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD11	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD12	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD13	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD14	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD15	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD16	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD17	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD18	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WCFMFUGD19	VOLUME	Mobile Support Equipment Fugitive Dust - WCF	-	-
WOCMFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD5	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCMFUGD6	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD7	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD8	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD9	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD10	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD11	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD12	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD13	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD14	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD15	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD16	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD17	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD18	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD19	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD20	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD21	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD22	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD23	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD24	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD25	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD26	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD27	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD28	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD29	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD30	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCMFUGD31	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD32	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
WOCMFUGD33	VOLUME	Mobile Support Equipment Fugitive Dust - WOC	-	-
MINEMFUGD1	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
MINEMFUGD2	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
MINEMFUGD3	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
MINEMFUGD4	VOLUME	Mobile Support Equipment Fugitive Dust - MINE	-	-
2GRVLNR1	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR2	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR3	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2GRVLNR4	VOLUME	Gravel Roads Construction - BT2 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR1	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR2	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR3	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3GRVLNR4	VOLUME	Gravel Roads Construction - BT3 Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRHCE	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNROS3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNROS19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNROS35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRIOS8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRIOS24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRIOS40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRPIP13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRPIP29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRHDD1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRHDD2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR1	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR2	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR3	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR4	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR1	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR2	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR3	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR4	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR1	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR2	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR3	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR4	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR1	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR2	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR3	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
FBROPNR4	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR1	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR2	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR3	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADNR4	VOLUME	BT2 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR1	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR2	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR3	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3PADNR4	VOLUME	BT3 - Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR1	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR2	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR3	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR4	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR5	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR6	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR7	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
MINENR8	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
MINENR9	VOLUME	Gravel Mining - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PADOHT1	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT2	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT3	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2PADOHT4	VOLUME	BT2 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT1	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT2	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT3	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3PADOHT4	VOLUME	BT3 - Pad Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT1	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT2	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT3	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
2GRVLOHT4	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT1	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT2	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
3GRVLOHT3	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
3GRVLOHT4	VOLUME	Gravel Roads Construction - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT1	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT2	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT3	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT4	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT5	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT6	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT7	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT8	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
MINEOHT9	VOLUME	Gravel Mining - Off Highway Trucks	0.2	Diesel tailpipe from non-road equipment
WCFFACNR1	VOLUME	Facilities Installation-WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WCFFACNR2	VOLUME	Facilities Installation-WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WCFFACNR3	VOLUME	Facilities Installation-WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WCFFACNR4	VOLUME	Facilities Installation-WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WLW2GEN	POINT	Stationary Combustion Sources - WCF Internal Combustion Equipment Non-Road Engines >140 HP	0.1	WCF - Non-mobile Support Equipment

Table I.1-2. Alternative E Near-field Model Scenario 1 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
1FACHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-
1FACNMAC	POINT	2.7432	13.3	0.4	10.5	614	-	-
1FACNR	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38
1FACNMGS1	POINT	2.7432	6.1	0.46	15.1	795	-	-
1FACNMGS2	POINT	2.7432	6.5	0.2	47	761	-	-
1PIPHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-
1PIPNMAC	POINT	2.1336	13.3	0.4	10.5	614	-	-
1PIPNR	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38
1PIPNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-
1PIPNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-
1PIPNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-
1PIPNMGS3	POINT	2.1336	6.5	0.2	47	761	-	-
1VSMNR	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38
1VSMNMBR	POINT	2.7432	13.3	0.4	10.5	614	-	-
1FUGD	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38
2PADHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-
2PADSHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-
2PADNMGS1	POINT	2.7432	6.5	0.2	47	761	-	-
2FUGD	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38
3PADHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-
3PADSHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-
3PADNMGS1	POINT	2.7432	6.5	0.2	47	761	-	-
3FUGD	VOLUME	3.6576	3.66	-	-	-	26.74419	3.38
ALPAIR1	AREAPOLY	2.9	50.8	-	-	-	-	23.63
ALPAIR2	AREAPOLY	2.9	152.4	-	-	-	-	23.63

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
ALPAIR3	AREAPOLY	2.9	254	-	-	-	-	23.63
BDGHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-
BDGHTR2	POINT	2.1336	12.2	0.94	5.7	529	-	-
BDGNMAC1	POINT	2.1336	13.3	0.4	10.5	614	-	-
BDGNMAC2	POINT	2.1336	13.3	0.4	10.5	614	-	-
BDGNR	VOLUME	2.1336	3.66	-	-	-	11.62791	3.38
BDGNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-
BDGNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-
BDGNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-
MINENMAC	POINT	0	13.3	0.4	10.5	614	-	-
MINENMBR	POINT	0	13.3	0.4	10.5	614	-	-
MINENMGS1	POINT	0	6.5	0.2	47	761	-	-
MINENMP	POINT	0	13.3	0.4	10.5	614	-	-
BLASTANN	VOLUME	0	50	-	-	-	11.62791	11.63
BLASTHR	VOLUME	0	50	-	-	-	11.62791	11.63
GRVLHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-
GRVLSHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-
GRVLNMGS1	POINT	2.1336	6.5	0.2	47	761	-	-
ICERDNMGS1	POINT	1.5	6.5	0.2	47	761	-	-
ICERDNMP	POINT	1.5	13.3	0.4	10.5	614	-	-
ICEPDNMGS1	POINT	1.5	6.5	0.2	47	761	-	-
ICEPDNMP	POINT	1.5	13.3	0.4	10.5	614	-	-
1MICEPDNR	VOLUME	3.048	3.66	-	-	-	32.55814	3.38
1MICEPDNMGS1	POINT	3.048	6.5	0.2	47	761	-	-
1MICEPDNMP	POINT	3.048	13.3	0.4	10.5	614	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WOCMICEPDNR	VOLUME	2.1336	3.66	-	-	-	32.55814	3.38
WMICEPDNMGS1	POINT	3.048	6.5	0.2	47	761	-	-
WOCMICEPDNMP	POINT	3.048	13.3	0.4	10.5	614	-	-
GMSMICEPDNR	VOLUME	2.1336	3.66	-	-	-	37.2093	3.38
GMICEPDNMGS1	POINT	3.048	6.5	0.2	47	761	-	-
GMSMICEPDNMP	POINT	3.048	13.3	0.4	10.5	614	-	-
STCKPL	VOLUME	1.52	3.66	-	-	-	46.51163	3.38
FBROPHTR	POINT	2.1336	12.2	0.94	5.7	529	-	-
FBROPNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-
FBROPNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-
PIPHTR	POINT	2.1336	12.2	0.94	5.7	529	-	-
PIPNMAC	POINT	2.1336	13.3	0.4	10.5	614	-	-
PIPNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-
PIPNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-
PIPNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-
PIPNMGS3	POINT	2.1336	6.5	0.2	47	761	-	-
VSMNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-
HDDPE1	POINT	1.5	13.3	0.4	10.5	614	-	-
HDDPE2	POINT	1.5	13.3	0.4	10.5	614	-	-
HDDSE1	POINT	1.5	13.3	0.4	10.5	614	-	-
HDDSE2	POINT	1.5	13.3	0.4	10.5	614	-	-
HDDMPE	POINT	1.5	10.4	0.13	43.5	750	-	-
HDDTPE	POINT	1.5	10.4	0.13	43.5	750	-	-
HDDB1	POINT	1.5	11.9	0.279	11.7	450	-	-
HDDB2	POINT	1.5	11.9	0.279	11.7	450	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
HDDH1_W	POINT	1.5	10.5	0.3	3.2	533	-	-
HDDH1_E	POINT	1.5	10.5	0.3	3.2	533	-	-
HDDH2_W	POINT	1.5	10.5	0.3	3.2	533	-	-
HDDH2_E	POINT	1.5	10.5	0.3	3.2	533	-	-
HDDWH_W	POINT	1.5	10.5	0.3	3.2	533	-	-
HDDWH_E	POINT	1.5	10.5	0.3	3.2	533	-	-
HDDNMGE1	POINT	1.5	6.1	0.46	15.1	795	-	-
HDDNMGE2	POINT	1.5	6.1	0.46	15.1	795	-	-
HDDNMGE3	POINT	1.5	6.1	0.46	15.1	795	-	-
HDDNMBGE1	POINT	1.5	6.1	0.46	15.1	795	-	-
HDDNMBGE2	POINT	1.5	6.1	0.46	15.1	795	-	-
HDDNMBGE3	POINT	1.5	6.1	0.46	15.1	795	-	-
HDDNMAC1	POINT	1.5	13.3	0.4	10.5	614	-	-
HDDNMAC2	POINT	1.5	13.3	0.4	10.5	614	-	-
HDDNROCE1	VOLUME	1.5	0	-	-	-	19.76744	8.7
HDDNROCE2	VOLUME	1.5	0	-	-	-	19.76744	8.7
HDDNRC	VOLUME	1.5	0	-	-	-	19.76744	8.7
WOCPWRGEN	POINT	3.048	8.6	0.3	20	760	-	-
WOCTEMPTRB	POINT	3.048	25	2	30	550	-	-
WOCFACHTR1	POINT	3.048	12.2	0.94	5.7	529	-	-
WOCFACNMAC	POINT	3.048	13.3	0.4	10.5	614	-	-
WOCFACNR	VOLUME	3.048	3.66	-	-	-	40.69767	3.38
WOCFACNMGS1	POINT	3.048	6.1	0.46	15.1	795	-	-
WOCFACNMGS2	POINT	3.048	6.5	0.2	47	761	-	-
WOCFUGD	VOLUME	3.048	3.66	-	-	-	40.69767	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WCFFACHTR1	POINT	3.05	12.2	0.94	5.7	529	-	-
WCFFACNMAC	POINT	3.05	13.3	0.4	10.5	614	-	-
WCFFACNMGS1	POINT	3.05	6.1	0.46	15.1	795	-	-
WCFFACNMGS2	POINT	3.05	6.5	0.2	47	761	-	-
WCFFUGD	VOLUME	3.05	3.66	-	-	-	37.2093	3.38
WILLOWAIR1	AREAPOLY	2.9	50.8	-	-	-	-	23.63
WILLOWAIR2	AREAPOLY	2.9	152.4	-	-	-	-	23.63
WILLOWAIR3	AREAPOLY	2.9	254	-	-	-	-	23.63
2TAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2TAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2TAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2TAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2TAIL5	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2TAIL6	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2ICETAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2ICETAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2ICETAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2ICETAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3TAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3TAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3TAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3TAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3TAIL5	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3TAIL6	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3TAIL7	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
3ICETAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3ICETAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3ICETAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3ICETAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1TAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1TAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1TAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1TAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1TAIL5	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1TAIL6	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1TAIL7	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1TAIL8	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1TAIL9	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1ICETAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1ICETAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1ICETAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1ICETAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL5	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL6	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL7	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL8	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WOCTAIL9	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL10	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL11	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL12	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL13	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL14	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL15	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL16	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL17	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL18	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL19	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL20	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL21	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL22	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL23	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL24	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL25	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL26	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL27	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL28	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL29	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL30	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL31	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL32	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCTAIL33	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WOCICETAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCICETAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCICETAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCICETAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL5	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL6	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL7	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL8	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL9	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL10	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL11	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL12	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL13	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL14	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL15	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL16	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL17	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL18	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFTAIL19	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFICETAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFICETAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WCFICETAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFICETAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
MINETAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
MINETAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
MINETAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
MINETAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1MFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1MFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1MFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1MFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1MFUGD5	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1MFUGD6	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1MFUGD7	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1MFUGD8	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1MFUGD9	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2MFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2MFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2MFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2MFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2MFUGD5	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2MFUGD6	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3MFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3MFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3MFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3MFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
3MFUGD5	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3MFUGD6	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3MFUGD7	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD5	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD6	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD7	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD8	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD9	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD10	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD11	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD12	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD13	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD14	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD15	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD16	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD17	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD18	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFMFUGD19	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WOCMFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD5	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD6	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD7	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD8	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD9	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD10	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD11	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD12	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD13	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD14	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD15	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD16	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD17	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD18	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD19	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD20	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD21	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD22	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD23	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD24	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD25	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD26	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD27	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD28	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WOCMFUGD29	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD30	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD31	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD32	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WOCMFUGD33	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
MINEMFUGD1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
MINEMFUGD2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
MINEMFUGD3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
MINEMFUGD4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2GRVLNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2GRVLNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2GRVLNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2GRVLNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3GRVLNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3GRVLNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3GRVLNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3GRVLNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
ICEPDNRHCE	VOLUME	2.1336	3.66	-	-	-	37.21	3.38
ICEPDNROS1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38
ICEPDNROS2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38
ICEPDNROS3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNROS4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNROS5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNROS6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNROS7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
ICEPDNROS8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
ICEPDNROS33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38
ICEPDNRIOS2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38
ICEPDNRIOS3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRIOS4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRIOS5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRIOS6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRIOS7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
ICEPDNRIOS15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
ICEPDNRIOS40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38
ICEPDNRPIP2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38
ICEPDNRPIP3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRPIP4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRPIP5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRPIP6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRPIP7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
ICEPDNRPIP22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRHDD1	VOLUME	2.1336	3.66	-	-	-	19.76744	3.38
ICEPDNRHDD2	VOLUME	2.1336	3.66	-	-	-	19.76744	3.38
ICERDNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
ICERDNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
ICERDNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
ICERDNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
PIPNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
PIPNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
PIPNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
PIPNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
VSMNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
VSMNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
VSMNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
VSMNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
FBROPNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
FBROPNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
FBROPNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
FBROPNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2PADNR1	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
2PADNR2	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
2PADNR3	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
2PADNR4	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
3PADNR1	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
3PADNR2	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
3PADNR3	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
3PADNR4	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
MINENR1	VOLUME	0	3.66	-	-	-	32.56	3.38
MINENR2	VOLUME	0	3.66	-	-	-	32.56	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
MINENR3	VOLUME	0	3.66	-	-	-	32.56	3.38
MINENR4	VOLUME	0	3.66	-	-	-	32.56	3.38
MINENR5	VOLUME	0	3.66	-	-	-	32.56	3.38
MINENR6	VOLUME	0	3.66	-	-	-	32.56	3.38
MINENR7	VOLUME	0	3.66	-	-	-	32.56	3.38
MINENR8	VOLUME	0	3.66	-	-	-	32.56	3.38
MINENR9	VOLUME	0	3.66	-	-	-	32.56	3.38
2PADOHT1	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
2PADOHT2	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
2PADOHT3	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
2PADOHT4	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
3PADOHT1	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
3PADOHT2	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
3PADOHT3	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
3PADOHT4	VOLUME	2.7432	3.66	-	-	-	18.60465	3.38
2GRVLOHT1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2GRVLOHT2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2GRVLOHT3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2GRVLOHT4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3GRVLOHT1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3GRVLOHT2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3GRVLOHT3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3GRVLOHT4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
MINEOHT1	VOLUME	0	3.66	-	-	-	32.56	3.38
MINEOHT2	VOLUME	0	3.66	-	-	-	32.56	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
MINEOHT3	VOLUME	0	3.66	-	-	-	32.56	3.38
MINEOHT4	VOLUME	0	3.66	-	-	-	32.56	3.38
MINEOHT5	VOLUME	0	3.66	-	-	-	32.56	3.38
MINEOHT6	VOLUME	0	3.66	-	-	-	32.56	3.38
MINEOHT7	VOLUME	0	3.66	-	-	-	32.56	3.38
MINEOHT8	VOLUME	0	3.66	-	-	-	32.56	3.38
MINEOHT9	VOLUME	0	3.66	-	-	-	32.56	3.38
WCFFACNR1	VOLUME	3.05	3.66	-	-	-	23.25581	3.38
WCFFACNR2	VOLUME	3.05	3.66	-	-	-	23.25581	3.38
WCFFACNR3	VOLUME	3.05	3.66	-	-	-	23.25581	3.38
WCFFACNR4	VOLUME	3.05	3.66	-	-	-	23.25581	3.38
WLW2GEN	POINT	3.05	10.4	0.13	43.5	750	-	-

Table I.1-3. Alternative E Near-field Model Scenario 1 Emissions Rates

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1FACHTR1	2.65E-02	1.06E-01	2.75E-02	1.26E-02	1.13E-02	2.93E-03	1.13E-03	1.13E-03	2.93E-04	378.56
1FACNMAC	1.17E-02	1.78E-02	1.15E-03	1.53E-03	1.48E-03	9.62E-05	4.42E-05	4.42E-05	2.87E-06	94.64
1FACNR	5.85E-02	8.92E-02	4.91E-02	8.08E-03	7.83E-03	4.54E-03	1.43E-04	1.43E-04	7.69E-05	VARIES
1FACNMGS1	1.60E-02	5.78E-02	1.50E-02	3.46E-03	3.35E-03	8.69E-04	6.82E-05	6.82E-05	1.77E-05	378.56
1FACNMGS2	2.59E-02	4.89E-02	1.27E-02	3.84E-03	3.73E-03	9.67E-04	4.18E-05	4.18E-05	1.08E-05	378.56
1PIPHTR1	3.51E-03	1.40E-02	5.65E-03	1.67E-03	1.49E-03	6.02E-04	1.49E-04	1.49E-04	6.02E-05	882

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1PIPNMAC	1.19E-02	3.77E-02	1.14E-02	1.76E-03	1.70E-03	5.15E-04	6.37E-05	6.37E-05	1.93E-05	661.5
1PIPNR	8.10E-03	2.90E-02	2.10E-02	1.24E-03	1.20E-03	8.69E-04	9.20E-05	9.20E-05	6.57E-05	VARIES
1PIPNMBR	6.35E-03	2.57E-02	7.77E-03	1.36E-03	1.32E-03	3.97E-04	3.18E-05	3.18E-05	9.60E-06	661.5
1PIPNMGS1	5.08E-03	1.24E-02	4.99E-03	7.82E-04	7.59E-04	3.06E-04	1.06E-05	1.06E-05	4.29E-06	882
1PIPNMGS2	2.75E-03	2.84E-03	1.14E-03	2.56E-04	2.49E-04	1.00E-04	2.44E-06	2.44E-06	9.84E-07	882
1PIPNMGS3	5.14E-03	9.69E-03	3.90E-03	7.62E-04	7.39E-04	2.98E-04	8.29E-06	8.29E-06	3.34E-06	882
1VSMNR	6.81E-03	1.81E-02	1.69E-02	9.64E-04	9.35E-04	9.24E-04	3.53E-05	3.53E-05	3.13E-05	VARIES
1VSMNMBR	7.12E-03	2.99E-02	9.46E-03	1.48E-03	1.44E-03	4.55E-04	3.74E-05	3.74E-05	1.18E-05	693
1FUGD	0.00E+00	0.00E+00	0.00E+00	3.12E-02	4.68E-03	4.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
2PADHTR1	1.46E-02	5.83E-02	5.36E-02	6.93E-03	6.20E-03	5.71E-03	6.20E-04	6.20E-04	5.71E-04	4704
2PADSHTR1	5.02E-03	2.01E-02	1.85E-02	2.39E-03	2.14E-03	1.97E-03	2.14E-04	2.14E-04	1.97E-04	4704
2PADNMGS1	1.42E-02	2.68E-02	2.47E-02	2.11E-03	2.05E-03	1.88E-03	2.29E-05	2.29E-05	2.11E-05	4704
2FUGD	0.00E+00	0.00E+00	0.00E+00	3.10E-02	4.65E-03	4.65E-03	0.00E+00	0.00E+00	0.00E+00	4380
3PADHTR1	1.35E-02	5.41E-02	4.98E-02	6.44E-03	5.76E-03	5.31E-03	5.76E-04	5.76E-04	5.31E-04	4704
3PADSHTR1	4.67E-03	1.87E-02	1.72E-02	2.22E-03	1.99E-03	1.83E-03	1.99E-04	1.99E-04	1.83E-04	4704
3PADNMGS1	1.32E-02	2.49E-02	2.29E-02	1.96E-03	1.90E-03	1.75E-03	2.13E-05	2.13E-05	1.96E-05	4704
3FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380
ALPAIR1	5.89E-09	5.93E-09	5.93E-09	1.67E-10	1.67E-10	1.67E-10	7.72E-10	7.72E-10	7.72E-10	8760
ALPAIR2	5.89E-09	5.93E-09	5.93E-09	1.67E-10	1.67E-10	1.67E-10	7.72E-10	7.72E-10	7.72E-10	8760
ALPAIR3	5.89E-09	5.93E-09	5.93E-09	1.67E-10	1.67E-10	1.67E-10	7.72E-10	7.72E-10	7.72E-10	8760
BDGHTR1	1.22E-03	4.87E-03	1.26E-03	5.79E-04	5.19E-04	1.34E-04	5.19E-05	5.19E-05	1.34E-05	708.75
BDGHTR2	3.65E-03	1.46E-02	3.78E-03	1.74E-03	1.56E-03	4.03E-04	1.56E-04	1.56E-04	4.03E-05	708.75
BDGNMAC1	9.36E-04	1.43E-03	2.46E-04	1.23E-04	1.19E-04	2.06E-05	3.55E-06	3.55E-06	6.12E-07	472.5
BDGNMAC2	1.87E-03	2.85E-03	4.92E-04	2.46E-04	2.38E-04	4.11E-05	7.10E-06	7.10E-06	1.22E-06	472.5
BDGNR	1.00E-02	3.27E-02	6.28E-03	1.48E-03	1.44E-03	2.64E-04	7.85E-05	7.85E-05	1.38E-05	472.5

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
BDGNMBR	1.53E-03	6.41E-03	1.11E-03	3.18E-04	3.08E-04	5.32E-05	8.02E-06	8.02E-06	1.38E-06	472.5
BDGNMGS1	4.41E-03	1.08E-02	3.71E-03	6.79E-04	6.58E-04	2.27E-04	9.24E-06	9.24E-06	3.19E-06	945
BDGNMGS2	3.57E-03	6.72E-03	2.32E-03	5.29E-04	5.13E-04	1.77E-04	5.75E-06	5.75E-06	1.99E-06	945
MINENMAC	2.81E-03	3.89E-02	3.59E-02	4.00E-04	3.88E-04	3.57E-04	3.65E-05	3.65E-05	3.36E-05	2688
MINENMBR	6.20E-02	2.21E-01	2.03E-01	9.31E-03	9.03E-03	8.31E-03	2.57E-04	2.57E-04	2.37E-04	2688
MINENMGS1	2.27E-02	4.27E-02	3.93E-02	3.36E-03	3.26E-03	3.00E-03	3.66E-05	3.66E-05	3.37E-05	2688
MINENMP	1.22E-02	6.10E-02	5.61E-03	2.12E-03	2.06E-03	1.89E-04	5.42E-05	5.42E-05	4.99E-06	268.8
BLASTANN	0.00E+00	0.00E+00	9.48E-01	0.00E+00	0.00E+00	5.53E-03	0.00E+00	0.00E+00	0.00E+00	680
BLASTHR	8.79E+00	2.23E+00	0.00E+00	2.26E-01	1.30E-02	0.00E+00	2.62E-01	2.62E-01	1.12E-01	680
GRVLHTR1	1.03E-02	4.12E-02	3.80E-02	4.91E-03	4.39E-03	4.04E-03	4.39E-04	4.39E-04	4.04E-04	2688
GRVLSHTR1	3.56E-03	1.42E-02	1.31E-02	1.69E-03	1.52E-03	1.39E-03	1.52E-04	1.52E-04	1.39E-04	2688
GRVLNMGS1	1.01E-02	1.90E-02	1.75E-02	1.49E-03	1.45E-03	1.33E-03	1.62E-05	1.62E-05	1.49E-05	2688
ICERDNMGS1	3.91E-01	2.26E-01	2.39E-02	5.80E-02	5.62E-02	5.95E-03	6.30E-04	6.30E-04	6.67E-05	464.7698
ICERDNMP	9.73E-01	1.12E+00	1.18E-01	1.47E-01	1.43E-01	1.51E-02	4.23E-03	4.23E-03	4.48E-04	464.7698
ICEPDNMGS1	5.11E-02	6.91E-02	3.33E-02	7.58E-03	7.35E-03	3.54E-03	8.24E-05	8.24E-05	3.97E-05	1858.032
ICEPDNMP	1.27E-01	3.43E-01	1.65E-01	1.92E-02	1.86E-02	8.96E-03	5.54E-04	5.54E-04	2.66E-04	1858.032
1MICEPDNR	9.68E-04	7.04E-02	6.48E-02	1.26E-04	1.22E-04	1.13E-04	4.41E-06	4.41E-06	3.45E-06	92.4
1MICEPDNMGS1	1.92E-03	6.91E-02	1.25E-03	2.85E-04	2.76E-04	5.00E-06	3.10E-06	3.10E-06	5.60E-08	92.4
1MICEPDNMP	4.78E-03	3.43E-01	6.19E-03	7.22E-04	7.01E-04	1.27E-05	2.08E-05	2.08E-05	3.76E-07	92.4
WOCMICEPDNR	9.68E-04	7.04E-02	6.48E-02	1.26E-04	1.22E-04	1.13E-04	4.41E-06	4.41E-06	3.45E-06	92.4
WMICEPDNMGS1	1.92E-03	6.91E-02	1.25E-03	2.85E-04	2.76E-04	5.00E-06	3.10E-06	3.10E-06	5.60E-08	92.4
WOCMICEPDNMP	4.78E-03	3.43E-01	6.19E-03	7.22E-04	7.01E-04	1.27E-05	2.08E-05	2.08E-05	3.76E-07	92.4
GMSMICEPDNR	9.68E-04	7.04E-02	6.48E-02	1.26E-04	1.22E-04	1.13E-04	4.41E-06	4.41E-06	3.45E-06	92.4
GMICEPDNMGS1	1.92E-03	6.91E-02	1.25E-03	2.85E-04	2.76E-04	5.00E-06	3.10E-06	3.10E-06	5.60E-08	92.4
GMSMICEPDNMP	4.78E-03	3.43E-01	6.19E-03	7.22E-04	7.01E-04	1.27E-05	2.08E-05	2.08E-05	3.76E-07	92.4

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
STCKPL	0.00E+00	0.00E+00	0.00E+00	5.09E-01	7.70E-02	7.70E-02	0.00E+00	0.00E+00	0.00E+00	0
FBROPHTR	1.95E-02	7.79E-02	5.38E-02	9.27E-03	8.30E-03	2.15E-03	8.30E-04	8.30E-04	5.73E-04	1512
FBROPNMGS1	2.35E-02	5.73E-02	1.98E-02	3.62E-03	3.51E-03	9.09E-04	4.93E-05	4.93E-05	1.70E-05	756
FBROPNMGS2	1.90E-02	3.59E-02	2.48E-02	2.82E-03	2.74E-03	7.08E-04	3.07E-05	3.07E-05	2.12E-05	1512
PIPHTR	6.19E-02	2.47E-01	9.97E-02	2.94E-02	2.64E-02	1.06E-02	2.64E-03	2.64E-03	1.06E-03	882
PIPNMAC	2.09E-01	6.64E-01	2.01E-01	3.10E-02	3.00E-02	9.07E-03	1.12E-03	1.12E-03	3.39E-04	661.5
PIPNMBR	1.12E-01	4.53E-01	1.37E-01	2.39E-02	2.32E-02	7.00E-03	5.60E-04	5.60E-04	1.69E-04	661.5
PIPNMGS1	8.96E-02	2.19E-01	8.80E-02	1.38E-02	1.34E-02	5.39E-03	1.88E-04	1.88E-04	7.56E-05	882
PIPNMGS2	4.84E-02	5.00E-02	2.02E-02	4.52E-03	4.38E-03	1.76E-03	4.30E-05	4.30E-05	1.73E-05	882
PIPNMGS3	9.06E-02	1.71E-01	6.88E-02	1.34E-02	1.30E-02	5.25E-03	1.46E-04	1.46E-04	5.89E-05	882
VSMNMBR	4.53E-02	1.90E-01	6.02E-02	9.43E-03	9.14E-03	2.89E-03	2.38E-04	2.38E-04	7.53E-05	693
HDDPE1	3.51E-01	6.42E-01	6.42E-01	2.01E-02	2.01E-02	2.01E-02	6.64E-04	6.64E-04	6.64E-04	2190
HDDPE2	2.73E-01	4.98E-01	4.98E-01	1.56E-02	1.56E-02	1.56E-02	5.15E-04	5.15E-04	5.15E-04	2190
HDDSE1	3.51E-01	6.42E-01	6.42E-02	2.01E-02	2.01E-02	2.01E-03	6.64E-04	6.64E-04	6.64E-05	219
HDDSE2	1.30E-01	2.46E-01	2.46E-02	7.46E-03	7.46E-03	7.46E-04	2.47E-04	2.47E-04	2.47E-05	219
HDDMPE	3.51E-01	6.42E-01	6.42E-01	2.01E-02	2.01E-02	2.01E-02	6.64E-04	6.64E-04	6.64E-04	2190
HDDTPE	1.50E-01	2.83E-01	2.83E-01	8.58E-03	8.58E-03	8.58E-03	2.84E-04	2.84E-04	2.84E-04	2190
HDDB1	7.87E-03	3.15E-02	3.15E-02	3.75E-03	3.35E-03	3.35E-03	3.35E-04	3.35E-04	3.35E-04	2190
HDDB2	1.57E-02	6.30E-02	6.30E-02	7.50E-03	6.71E-03	6.71E-03	6.71E-04	6.71E-04	6.71E-04	2190
HDDH1_W	2.40E-02	9.59E-02	9.59E-02	1.14E-02	1.02E-02	1.02E-02	1.02E-03	1.02E-03	1.02E-03	2190
HDDH1_E	2.40E-02	9.59E-02	9.59E-02	1.14E-02	1.02E-02	1.02E-02	1.02E-03	1.02E-03	1.02E-03	2190
HDDH2_W	1.10E-02	4.38E-02	4.38E-02	5.22E-03	4.67E-03	4.67E-03	4.67E-04	4.67E-04	4.67E-04	2190
HDDH2_E	1.10E-02	4.38E-02	4.38E-02	5.22E-03	4.67E-03	4.67E-03	4.67E-04	4.67E-04	4.67E-04	2190
HDDWH_W	5.69E-03	2.28E-02	2.28E-02	2.71E-03	2.42E-03	2.42E-03	2.42E-04	2.42E-04	2.42E-04	2190
HDDWH_E	5.69E-03	2.28E-02	2.28E-02	2.71E-03	2.42E-03	2.42E-03	2.42E-04	2.42E-04	2.42E-04	2190

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
HDDNMGE1	1.28E+00	1.46E+00	1.46E+00	7.31E-02	7.31E-02	7.31E-02	2.70E-03	2.70E-03	2.70E-03	2190
HDDNMGE2	6.14E-01	7.02E-01	7.02E-01	3.51E-02	3.51E-02	3.51E-02	1.29E-03	1.29E-03	1.29E-03	2190
HDDNMGE3	7.68E-01	8.77E-01	8.77E-01	4.39E-02	4.39E-02	4.39E-02	1.62E-03	1.62E-03	1.62E-03	2190
HDDNMBGE1	1.28E+00	1.46E+00	1.46E-01	7.31E-02	7.31E-02	7.31E-03	2.70E-03	2.70E-03	2.70E-04	219
HDDNMBGE2	6.14E-01	7.02E-01	7.02E-02	3.51E-02	3.51E-02	3.51E-03	1.29E-03	1.29E-03	1.29E-04	219
HDDNMBGE3	6.14E-01	7.02E-01	7.02E-02	3.51E-02	3.51E-02	3.51E-03	1.29E-03	1.29E-03	1.29E-04	219
HDDNMAC1	4.62E-03	2.13E-02	7.11E-03	8.81E-04	8.54E-04	2.85E-04	5.90E-05	5.90E-05	1.97E-05	730
HDDNMAC2	4.62E-03	2.13E-02	7.11E-03	8.81E-04	8.54E-04	2.85E-04	5.90E-05	5.90E-05	1.97E-05	730
HDDNROCE1	6.99E-03	2.11E-02	7.04E-03	1.22E-03	1.18E-03	3.93E-04	5.95E-05	5.95E-05	1.98E-05	730
HDDNROCE2	6.99E-03	2.11E-02	7.04E-03	1.22E-03	1.18E-03	3.93E-04	5.95E-05	5.95E-05	1.98E-05	730
HDDNRC	3.45E-03	1.68E-02	5.60E-03	5.90E-04	5.73E-04	1.91E-04	6.33E-05	6.33E-05	2.11E-05	730
WOCPWRGEN	3.89E+00	3.89E+00	1.94E+00	1.11E-01	1.11E-01	5.56E-02	7.35E-03	7.35E-03	3.67E-03	4380
WOCTEMPTRB	5.29E+00	6.96E+00	6.96E+00	1.83E-01	1.83E-01	1.83E-01	2.37E-02	2.37E-02	2.37E-02	8760
WOCFACHTR1	1.00E-01	4.02E-01	1.54E-01	4.78E-02	4.28E-02	1.64E-02	4.28E-03	4.28E-03	1.64E-03	2520
WOCFACNMAC	4.41E-02	6.72E-02	6.45E-03	5.79E-03	5.62E-03	5.39E-04	1.67E-04	1.67E-04	1.60E-05	630
WOCFACNR	2.21E-01	3.37E-01	2.75E-01	3.06E-02	2.96E-02	2.54E-02	5.42E-04	5.42E-04	4.30E-04	1890
WOCFACNMGS1	6.06E-02	2.18E-01	8.38E-02	1.31E-02	1.27E-02	4.86E-03	2.58E-04	2.58E-04	9.88E-05	2520
WOCFACNMGS2	9.81E-02	1.85E-01	7.09E-02	1.45E-02	1.41E-02	5.41E-03	1.58E-04	1.58E-04	6.07E-05	2520
WOCFUGD	0.00E+00	0.00E+00	0.00E+00	1.11E-01	1.67E-02	1.67E-02	0.00E+00	0.00E+00	0.00E+00	4380
WCFFACHTR1	1.64E-01	6.57E-01	2.52E-01	7.82E-02	7.00E-02	2.69E-02	7.00E-03	7.00E-03	2.69E-03	2520
WCFFACNMAC	6.74E-02	1.03E-01	9.84E-03	8.84E-03	8.58E-03	8.23E-04	2.55E-04	2.55E-04	2.45E-05	630
WCFFACNMGS1	2.76E-01	9.96E-01	3.82E-01	5.95E-02	5.78E-02	2.22E-02	1.17E-03	1.17E-03	4.51E-04	2520
WCFFACNMGS2	1.60E-01	3.03E-01	1.16E-01	2.38E-02	2.31E-02	8.85E-03	2.59E-04	2.59E-04	9.93E-05	2520
WCFFUGD	0.00E+00	0.00E+00	0.00E+00	3.45E-02	5.17E-03	5.17E-03	0.00E+00	0.00E+00	0.00E+00	4380
WILLOWAIR1	1.33E-07	4.40E-08	4.40E-08	2.66E-09	2.66E-09	2.66E-09	9.35E-09	9.35E-09	9.35E-09	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WILLOWAIR2	1.33E-07	4.40E-08	4.40E-08	2.66E-09	2.66E-09	2.66E-09	9.35E-09	9.35E-09	9.35E-09	8760
WILLOWAIR3	1.33E-07	4.40E-08	4.40E-08	2.66E-09	2.66E-09	2.66E-09	9.35E-09	9.35E-09	9.35E-09	8760
2TAIL1	4.15E-03	1.03E-02	7.16E-03	5.83E-04	5.64E-04	3.90E-04	2.72E-05	2.72E-05	1.88E-05	8760
2TAIL2	4.15E-03	1.03E-02	7.16E-03	5.83E-04	5.64E-04	3.90E-04	2.72E-05	2.72E-05	1.88E-05	8760
2TAIL3	4.15E-03	1.03E-02	7.16E-03	5.83E-04	5.64E-04	3.90E-04	2.72E-05	2.72E-05	1.88E-05	8760
2TAIL4	4.15E-03	1.03E-02	7.16E-03	5.83E-04	5.64E-04	3.90E-04	2.72E-05	2.72E-05	1.88E-05	8760
2TAIL5	4.15E-03	1.03E-02	7.16E-03	5.83E-04	5.64E-04	3.90E-04	2.72E-05	2.72E-05	1.88E-05	8760
2TAIL6	4.15E-03	1.03E-02	7.16E-03	5.83E-04	5.64E-04	3.90E-04	2.72E-05	2.72E-05	1.88E-05	8760
2ICETAIL1	4.15E-03	1.03E-02	7.16E-03	5.83E-04	5.64E-04	3.90E-04	2.72E-05	2.72E-05	1.88E-05	8760
2ICETAIL2	4.15E-03	1.03E-02	7.16E-03	5.83E-04	5.64E-04	3.90E-04	2.72E-05	2.72E-05	1.88E-05	8760
2ICETAIL3	4.15E-03	1.03E-02	7.16E-03	5.83E-04	5.64E-04	3.90E-04	2.72E-05	2.72E-05	1.88E-05	8760
2ICETAIL4	4.15E-03	1.03E-02	7.16E-03	5.83E-04	5.64E-04	3.90E-04	2.72E-05	2.72E-05	1.88E-05	8760
3TAIL1	4.46E-03	1.11E-02	7.70E-03	6.27E-04	6.07E-04	4.19E-04	2.92E-05	2.92E-05	2.02E-05	8760
3TAIL2	4.46E-03	1.11E-02	7.70E-03	6.27E-04	6.07E-04	4.19E-04	2.92E-05	2.92E-05	2.02E-05	8760
3TAIL3	4.46E-03	1.11E-02	7.70E-03	6.27E-04	6.07E-04	4.19E-04	2.92E-05	2.92E-05	2.02E-05	8760
3TAIL4	4.46E-03	1.11E-02	7.70E-03	6.27E-04	6.07E-04	4.19E-04	2.92E-05	2.92E-05	2.02E-05	8760
3TAIL5	4.46E-03	1.11E-02	7.70E-03	6.27E-04	6.07E-04	4.19E-04	2.92E-05	2.92E-05	2.02E-05	8760
3TAIL6	4.46E-03	1.11E-02	7.70E-03	6.27E-04	6.07E-04	4.19E-04	2.92E-05	2.92E-05	2.02E-05	8760
3TAIL7	4.46E-03	1.11E-02	7.70E-03	6.27E-04	6.07E-04	4.19E-04	2.92E-05	2.92E-05	2.02E-05	8760
3ICETAIL1	4.46E-03	1.11E-02	7.70E-03	6.27E-04	6.07E-04	4.19E-04	2.92E-05	2.92E-05	2.02E-05	8760
3ICETAIL2	4.46E-03	1.11E-02	7.70E-03	6.27E-04	6.07E-04	4.19E-04	2.92E-05	2.92E-05	2.02E-05	8760
3ICETAIL3	4.46E-03	1.11E-02	7.70E-03	6.27E-04	6.07E-04	4.19E-04	2.92E-05	2.92E-05	2.02E-05	8760
3ICETAIL4	4.46E-03	1.11E-02	7.70E-03	6.27E-04	6.07E-04	4.19E-04	2.92E-05	2.92E-05	2.02E-05	8760
1TAIL1	3.07E-05	3.75E-05	3.75E-05	4.07E-06	2.20E-06	2.20E-06	1.25E-07	1.25E-07	1.25E-07	8760
1TAIL2	3.07E-05	3.75E-05	3.75E-05	4.07E-06	2.20E-06	2.20E-06	1.25E-07	1.25E-07	1.25E-07	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1TAIL3	3.07E-05	3.75E-05	3.75E-05	4.07E-06	2.20E-06	2.20E-06	1.25E-07	1.25E-07	1.25E-07	8760
1TAIL4	3.07E-05	3.75E-05	3.75E-05	4.07E-06	2.20E-06	2.20E-06	1.25E-07	1.25E-07	1.25E-07	8760
1TAIL5	3.07E-05	3.75E-05	3.75E-05	4.07E-06	2.20E-06	2.20E-06	1.25E-07	1.25E-07	1.25E-07	8760
1TAIL6	3.07E-05	3.75E-05	3.75E-05	4.07E-06	2.20E-06	2.20E-06	1.25E-07	1.25E-07	1.25E-07	8760
1TAIL7	3.07E-05	3.75E-05	3.75E-05	4.07E-06	2.20E-06	2.20E-06	1.25E-07	1.25E-07	1.25E-07	8760
1TAIL8	3.07E-05	3.75E-05	3.75E-05	4.07E-06	2.20E-06	2.20E-06	1.25E-07	1.25E-07	1.25E-07	8760
1TAIL9	3.07E-05	3.75E-05	3.75E-05	4.07E-06	2.20E-06	2.20E-06	1.25E-07	1.25E-07	1.25E-07	8760
1ICETAIL1	3.07E-05	3.75E-05	3.75E-05	4.07E-06	2.20E-06	2.20E-06	1.25E-07	1.25E-07	1.25E-07	8760
1ICETAIL2	3.07E-05	3.75E-05	3.75E-05	4.07E-06	2.20E-06	2.20E-06	1.25E-07	1.25E-07	1.25E-07	8760
1ICETAIL3	3.07E-05	3.75E-05	3.75E-05	4.07E-06	2.20E-06	2.20E-06	1.25E-07	1.25E-07	1.25E-07	8760
1ICETAIL4	3.07E-05	3.75E-05	3.75E-05	4.07E-06	2.20E-06	2.20E-06	1.25E-07	1.25E-07	1.25E-07	8760
WOCTAIL1	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL2	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL3	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL4	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL5	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL6	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL7	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL8	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL9	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL10	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL11	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL12	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL13	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL14	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCTAIL15	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL16	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL17	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL18	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL19	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL20	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL21	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL22	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL23	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL24	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL25	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL26	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL27	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL28	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL29	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL30	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL31	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL32	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCTAIL33	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCICETAIL1	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCICETAIL2	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCICETAIL3	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WOCICETAIL4	6.88E-06	8.40E-06	8.40E-06	9.11E-07	4.91E-07	4.91E-07	2.79E-08	2.79E-08	2.79E-08	8760
WCFTAIL1	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL2	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WCFTAIL3	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL4	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL5	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL6	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL7	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL8	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL9	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL10	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL11	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL12	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL13	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL14	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL15	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL16	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL17	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL18	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFTAIL19	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFICETAIL1	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFICETAIL2	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFICETAIL3	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
WCFICETAIL4	1.11E-05	1.35E-05	1.35E-05	1.47E-06	7.91E-07	7.91E-07	4.48E-08	4.48E-08	4.48E-08	8760
MINETAIL1	1.04E-02	2.59E-02	1.79E-02	1.46E-03	1.41E-03	9.74E-04	6.79E-05	6.79E-05	4.69E-05	8760
MINETAIL2	1.04E-02	2.59E-02	1.79E-02	1.46E-03	1.41E-03	9.74E-04	6.79E-05	6.79E-05	4.69E-05	8760
MINETAIL3	1.04E-02	2.59E-02	1.79E-02	1.46E-03	1.41E-03	9.74E-04	6.79E-05	6.79E-05	4.69E-05	8760
MINETAIL4	1.04E-02	2.59E-02	1.79E-02	1.46E-03	1.41E-03	9.74E-04	6.79E-05	6.79E-05	4.69E-05	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	6.86E-04	6.62E-05	6.62E-05	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	6.86E-04	6.62E-05	6.62E-05	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	6.86E-04	6.62E-05	6.62E-05	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	6.86E-04	6.62E-05	6.62E-05	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	6.86E-04	6.62E-05	6.62E-05	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	6.86E-04	6.62E-05	6.62E-05	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD7	0.00E+00	0.00E+00	0.00E+00	6.86E-04	6.62E-05	6.62E-05	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD8	0.00E+00	0.00E+00	0.00E+00	6.86E-04	6.62E-05	6.62E-05	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD9	0.00E+00	0.00E+00	0.00E+00	6.86E-04	6.62E-05	6.62E-05	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	6.55E-04	6.33E-05	6.33E-05	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	6.55E-04	6.33E-05	6.33E-05	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	6.55E-04	6.33E-05	6.33E-05	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	6.55E-04	6.33E-05	6.33E-05	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD5	0.00E+00	0.00E+00	0.00E+00	6.55E-04	6.33E-05	6.33E-05	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD6	0.00E+00	0.00E+00	0.00E+00	6.55E-04	6.33E-05	6.33E-05	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD1	0.00E+00	0.00E+00	0.00E+00	5.07E-04	5.07E-05	5.07E-05	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD2	0.00E+00	0.00E+00	0.00E+00	5.07E-04	5.07E-05	5.07E-05	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD3	0.00E+00	0.00E+00	0.00E+00	5.07E-04	5.07E-05	5.07E-05	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD4	0.00E+00	0.00E+00	0.00E+00	5.07E-04	5.07E-05	5.07E-05	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD5	0.00E+00	0.00E+00	0.00E+00	5.07E-04	5.07E-05	5.07E-05	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD6	0.00E+00	0.00E+00	0.00E+00	5.07E-04	5.07E-05	5.07E-05	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD7	0.00E+00	0.00E+00	0.00E+00	5.07E-04	5.07E-05	5.07E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD1	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD2	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD3	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WCFMFUGD4	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD5	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD6	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD7	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD8	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD9	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD10	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD11	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD12	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD13	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD14	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD15	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD16	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD17	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD18	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD19	0.00E+00	0.00E+00	0.00E+00	2.07E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD1	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD2	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD3	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD4	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD5	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD6	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD7	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD8	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD9	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCMFUGD10	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD11	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD12	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD13	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD14	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD15	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD16	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD17	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD18	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD19	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD20	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD21	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD22	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD23	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD24	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD25	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD26	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD27	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD28	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD29	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD30	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD31	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD32	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD33	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.15E-05	1.15E-05	0.00E+00	0.00E+00	0.00E+00	4380
MINEMFUGD1	0.00E+00	0.00E+00	0.00E+00	7.60E-04	7.60E-05	7.60E-05	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MINEMFUGD2	0.00E+00	0.00E+00	0.00E+00	7.60E-04	7.60E-05	7.60E-05	0.00E+00	0.00E+00	0.00E+00	4380
MINEMFUGD3	0.00E+00	0.00E+00	0.00E+00	7.60E-04	7.60E-05	7.60E-05	0.00E+00	0.00E+00	0.00E+00	4380
MINEMFUGD4	0.00E+00	0.00E+00	0.00E+00	7.60E-04	7.60E-05	7.60E-05	0.00E+00	0.00E+00	0.00E+00	4380
2GRVLNR1	1.16E-05	3.03E-05	2.60E-05	1.59E-06	1.54E-06	1.33E-06	1.24E-07	1.24E-07	1.07E-07	VARIES
2GRVLNR2	1.16E-05	3.03E-05	2.60E-05	1.59E-06	1.54E-06	1.33E-06	1.24E-07	1.24E-07	1.07E-07	VARIES
2GRVLNR3	1.16E-05	3.03E-05	2.60E-05	1.59E-06	1.54E-06	1.33E-06	1.24E-07	1.24E-07	1.07E-07	VARIES
2GRVLNR4	1.16E-05	3.03E-05	2.60E-05	1.59E-06	1.54E-06	1.33E-06	1.24E-07	1.24E-07	1.07E-07	VARIES
3GRVLNR1	1.16E-05	3.03E-05	2.60E-05	1.59E-06	1.54E-06	1.33E-06	1.24E-07	1.24E-07	1.07E-07	VARIES
3GRVLNR2	1.16E-05	3.03E-05	2.60E-05	1.59E-06	1.54E-06	1.33E-06	1.24E-07	1.24E-07	1.07E-07	VARIES
3GRVLNR3	1.16E-05	3.03E-05	2.60E-05	1.59E-06	1.54E-06	1.33E-06	1.24E-07	1.24E-07	1.07E-07	VARIES
3GRVLNR4	1.16E-05	3.03E-05	2.60E-05	1.59E-06	1.54E-06	1.33E-06	1.24E-07	1.24E-07	1.07E-07	VARIES
ICEPDNRHCE	3.73E-02	1.02E-01	9.38E-02	4.85E-03	4.71E-03	4.33E-03	1.70E-04	1.70E-04	1.56E-04	2492.952
ICEPDNROS1	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS2	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS3	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS4	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS5	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS6	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS7	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS8	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS9	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS10	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS11	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS12	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS13	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNROS14	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS15	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS16	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS17	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS18	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS19	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS20	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS21	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS22	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS23	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS24	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS25	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS26	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS27	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS28	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS29	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS30	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS31	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS32	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS33	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS34	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS35	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS36	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS37	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS38	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNROS39	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS40	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS41	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS42	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNROS43	4.99E-04	1.36E-03	1.25E-03	6.49E-05	6.29E-05	5.79E-05	2.27E-06	2.27E-06	2.09E-06	2492.952
ICEPDNRIOS1	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS2	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS3	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS4	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS5	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS6	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS7	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS8	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS9	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS10	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS11	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS12	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS13	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS14	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS15	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS16	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS17	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS18	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS19	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS20	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRIOS21	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS22	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS23	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS24	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS25	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS26	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS27	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS28	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS29	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS30	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS31	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS32	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS33	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS34	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS35	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS36	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS37	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS38	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS39	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS40	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS41	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS42	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRIOS43	2.87E-03	7.85E-03	7.23E-03	3.74E-04	3.63E-04	3.34E-04	1.31E-05	1.31E-05	1.20E-05	2492.952
ICEPDNRPIP1	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP2	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRPIP3	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP4	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP5	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP6	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP7	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP8	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP9	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP10	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP11	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP12	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP13	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP14	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP15	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP16	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP17	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP18	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP19	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP20	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP21	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP22	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP23	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP24	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP25	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP26	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP27	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRPIP28	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP29	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP30	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP31	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP32	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP33	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP34	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP35	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP36	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP37	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP38	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP39	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP40	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP41	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP42	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRPIP43	3.23E-03	8.82E-03	8.12E-03	4.20E-04	4.07E-04	3.75E-04	1.47E-05	1.47E-05	1.35E-05	2492.952
ICEPDNRHDD1	1.42E-02	3.88E-02	3.58E-02	1.85E-03	1.79E-03	1.65E-03	6.47E-05	6.47E-05	5.96E-05	2492.952
ICEPDNRHDD2	1.26E-02	3.45E-02	3.18E-02	1.64E-03	1.59E-03	1.47E-03	5.75E-05	5.75E-05	5.29E-05	2492.952
ICERDNR1	1.34E-03	1.56E-03	1.35E-04	1.74E-04	1.69E-04	1.46E-05	6.10E-06	6.10E-06	5.27E-07	576.8895
ICERDNR2	1.34E-03	1.56E-03	1.35E-04	1.74E-04	1.69E-04	1.46E-05	6.10E-06	6.10E-06	5.27E-07	576.8895
ICERDNR3	1.34E-03	1.56E-03	1.35E-04	1.74E-04	1.69E-04	1.46E-05	6.10E-06	6.10E-06	5.27E-07	576.8895
ICERDNR4	1.34E-03	1.56E-03	1.35E-04	1.74E-04	1.69E-04	1.46E-05	6.10E-06	6.10E-06	5.27E-07	576.8895
PIPNR1	1.56E-05	5.58E-05	4.04E-05	2.39E-06	2.32E-06	1.67E-06	1.77E-07	1.77E-07	1.26E-07	VARIES
PIPNR2	1.56E-05	5.58E-05	4.04E-05	2.39E-06	2.32E-06	1.67E-06	1.77E-07	1.77E-07	1.26E-07	VARIES
PIPNR3	1.56E-05	5.58E-05	4.04E-05	2.39E-06	2.32E-06	1.67E-06	1.77E-07	1.77E-07	1.26E-07	VARIES

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
PIPNR4	1.56E-05	5.58E-05	4.04E-05	2.39E-06	2.32E-06	1.67E-06	1.77E-07	1.77E-07	1.26E-07	VARIES
VSMNR1	4.73E-06	1.26E-05	1.17E-05	6.70E-07	6.50E-07	6.42E-07	2.45E-08	2.45E-08	2.18E-08	VARIES
VSMNR2	4.73E-06	1.26E-05	1.17E-05	6.70E-07	6.50E-07	6.42E-07	2.45E-08	2.45E-08	2.18E-08	VARIES
VSMNR3	4.73E-06	1.26E-05	1.17E-05	6.70E-07	6.50E-07	6.42E-07	2.45E-08	2.45E-08	2.18E-08	VARIES
VSMNR4	4.73E-06	1.26E-05	1.17E-05	6.70E-07	6.50E-07	6.42E-07	2.45E-08	2.45E-08	2.18E-08	VARIES
FBROPNR1	2.28E-06	3.78E-06	2.84E-06	3.00E-07	2.91E-07	1.00E-07	7.91E-09	7.91E-09	4.66E-09	VARIES
FBROPNR2	2.28E-06	3.78E-06	2.84E-06	3.00E-07	2.91E-07	1.00E-07	7.91E-09	7.91E-09	4.66E-09	VARIES
FBROPNR3	2.28E-06	3.78E-06	2.84E-06	3.00E-07	2.91E-07	1.00E-07	7.91E-09	7.91E-09	4.66E-09	VARIES
FBROPNR4	2.28E-06	3.78E-06	2.84E-06	3.00E-07	2.91E-07	1.00E-07	7.91E-09	7.91E-09	4.66E-09	VARIES
2PADNR1	1.60E-02	4.17E-02	3.58E-02	2.19E-03	2.13E-03	1.83E-03	1.71E-04	1.71E-04	1.47E-04	VARIES
2PADNR2	1.60E-02	4.17E-02	3.58E-02	2.19E-03	2.13E-03	1.83E-03	1.71E-04	1.71E-04	1.47E-04	VARIES
2PADNR3	1.60E-02	4.17E-02	3.58E-02	2.19E-03	2.13E-03	1.83E-03	1.71E-04	1.71E-04	1.47E-04	VARIES
2PADNR4	1.60E-02	4.17E-02	3.58E-02	2.19E-03	2.13E-03	1.83E-03	1.71E-04	1.71E-04	1.47E-04	VARIES
3PADNR1	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR2	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR3	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
3PADNR4	1.48E-02	3.87E-02	3.33E-02	2.04E-03	1.97E-03	1.70E-03	1.59E-04	1.59E-04	1.37E-04	VARIES
MINENR1	1.48E-02	3.45E-02	2.02E-02	2.03E-03	1.97E-03	1.24E-03	8.35E-05	8.35E-05	4.53E-05	VARIES
MINENR2	1.48E-02	3.45E-02	2.02E-02	2.03E-03	1.97E-03	1.24E-03	8.35E-05	8.35E-05	4.53E-05	VARIES
MINENR3	1.48E-02	3.45E-02	2.02E-02	2.03E-03	1.97E-03	1.24E-03	8.35E-05	8.35E-05	4.53E-05	VARIES
MINENR4	1.48E-02	3.45E-02	2.02E-02	2.03E-03	1.97E-03	1.24E-03	8.35E-05	8.35E-05	4.53E-05	VARIES
MINENR5	1.48E-02	3.45E-02	2.02E-02	2.03E-03	1.97E-03	1.24E-03	8.35E-05	8.35E-05	4.53E-05	VARIES
MINENR6	1.48E-02	3.45E-02	2.02E-02	2.03E-03	1.97E-03	1.24E-03	8.35E-05	8.35E-05	4.53E-05	VARIES
MINENR7	1.48E-02	3.45E-02	2.02E-02	2.03E-03	1.97E-03	1.24E-03	8.35E-05	8.35E-05	4.53E-05	VARIES
MINENR8	1.48E-02	3.45E-02	2.02E-02	2.03E-03	1.97E-03	1.24E-03	8.35E-05	8.35E-05	4.53E-05	VARIES

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MINENR9	1.48E-02	3.45E-02	2.02E-02	2.03E-03	1.97E-03	1.24E-03	8.35E-05	8.35E-05	4.53E-05	VARIES
2PADOHT1	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT2	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT3	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
2PADOHT4	2.06E-02	5.16E-02	3.56E-02	2.90E-03	2.81E-03	1.94E-03	1.35E-04	1.35E-04	9.34E-05	1512
3PADOHT1	2.22E-02	5.55E-02	3.83E-02	3.12E-03	3.03E-03	2.09E-03	1.46E-04	1.46E-04	1.01E-04	1512
3PADOHT2	2.22E-02	5.55E-02	3.83E-02	3.12E-03	3.03E-03	2.09E-03	1.46E-04	1.46E-04	1.01E-04	1512
3PADOHT3	2.22E-02	5.55E-02	3.83E-02	3.12E-03	3.03E-03	2.09E-03	1.46E-04	1.46E-04	1.01E-04	1512
3PADOHT4	2.22E-02	5.55E-02	3.83E-02	3.12E-03	3.03E-03	2.09E-03	1.46E-04	1.46E-04	1.01E-04	1512
2GRVLOHT1	2.11E-05	5.29E-05	3.65E-05	2.97E-06	2.88E-06	1.99E-06	1.39E-07	1.39E-07	9.58E-08	1512
2GRVLOHT2	2.11E-05	5.29E-05	3.65E-05	2.97E-06	2.88E-06	1.99E-06	1.39E-07	1.39E-07	9.58E-08	1512
2GRVLOHT3	2.11E-05	5.29E-05	3.65E-05	2.97E-06	2.88E-06	1.99E-06	1.39E-07	1.39E-07	9.58E-08	1512
2GRVLOHT4	2.11E-05	5.29E-05	3.65E-05	2.97E-06	2.88E-06	1.99E-06	1.39E-07	1.39E-07	9.58E-08	1512
3GRVLOHT1	2.11E-05	5.29E-05	3.65E-05	2.97E-06	2.88E-06	1.99E-06	1.39E-07	1.39E-07	9.58E-08	1512
3GRVLOHT2	2.11E-05	5.29E-05	3.65E-05	2.97E-06	2.88E-06	1.99E-06	1.39E-07	1.39E-07	9.58E-08	1512
3GRVLOHT3	2.11E-05	5.29E-05	3.65E-05	2.97E-06	2.88E-06	1.99E-06	1.39E-07	1.39E-07	9.58E-08	1512
3GRVLOHT4	2.11E-05	5.29E-05	3.65E-05	2.97E-06	2.88E-06	1.99E-06	1.39E-07	1.39E-07	9.58E-08	1512
MINEOHT1	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT2	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT3	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT4	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT5	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT6	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT7	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
MINEOHT8	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
MINEOHT9	9.16E-03	2.29E-02	1.58E-02	1.29E-03	1.25E-03	8.62E-04	6.01E-05	6.01E-05	4.15E-05	1512
WCFFACNR1	7.87E-02	1.26E-01	1.05E-01	1.09E-02	1.06E-02	9.14E-03	2.16E-04	2.16E-04	1.78E-04	VARIES
WCFFACNR2	7.87E-02	1.26E-01	1.05E-01	1.09E-02	1.06E-02	9.14E-03	2.16E-04	2.16E-04	1.78E-04	VARIES
WCFFACNR3	7.87E-02	1.26E-01	1.05E-01	1.09E-02	1.06E-02	9.14E-03	2.16E-04	2.16E-04	1.78E-04	VARIES
WCFFACNR4	7.87E-02	1.26E-01	1.05E-01	1.09E-02	1.06E-02	9.14E-03	2.16E-04	2.16E-04	1.78E-04	VARIES
WLW2GEN	1.25E-01	2.28E-01	1.30E-02	7.13E-03	7.13E-03	4.07E-04	0.00E+00	0.00E+00	0.00E+00	500

I.1.2 Scenario 2: BT1 Pre-Drill

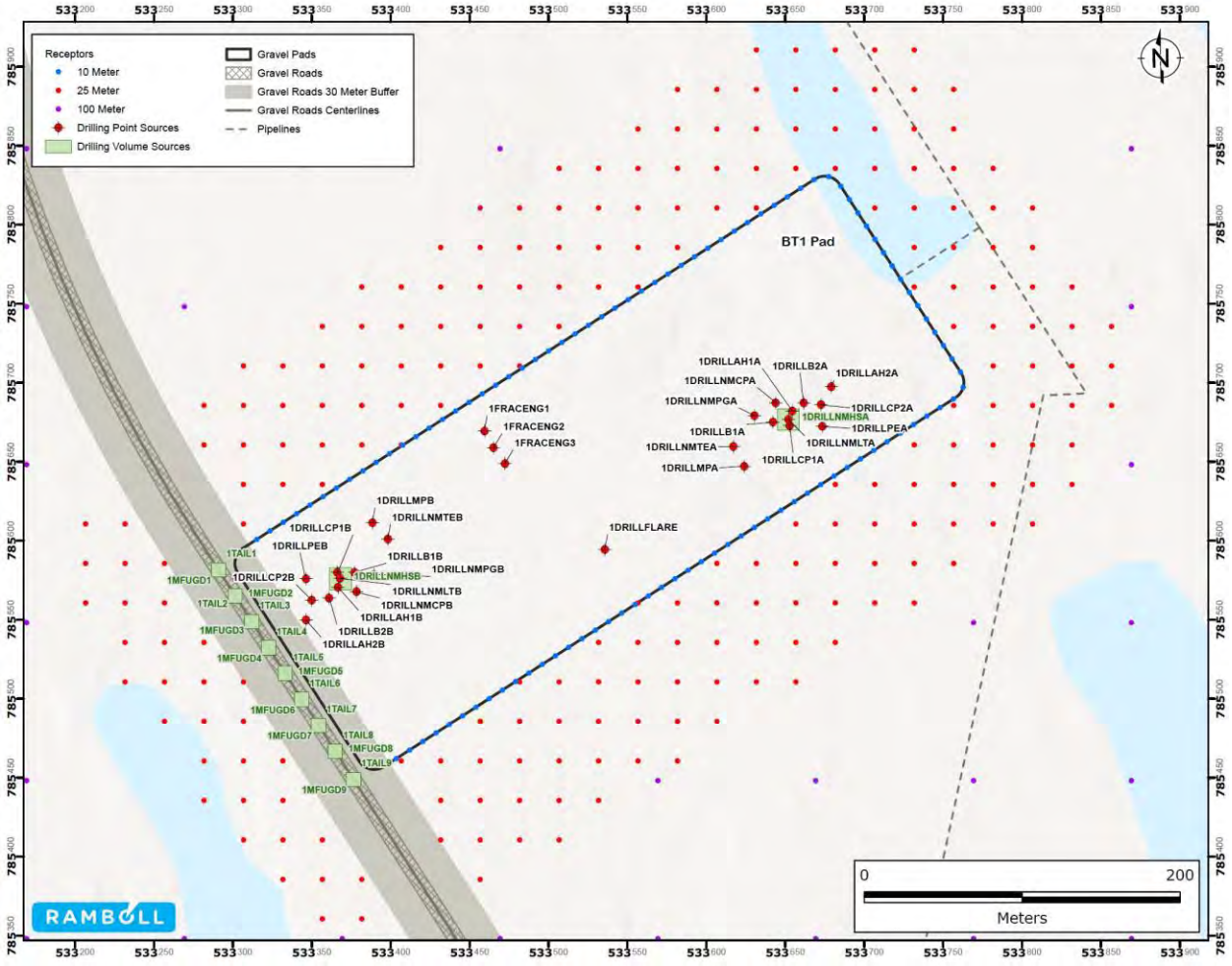


Figure I.1-11. Alternative E Near-field Model Scenario 2 Source Locations at BT1.

Table I.1-4. Alternative E Near-field Model Scenario 2 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1DRILLPEA	POINT	Drill Rigs - Primary Power Engines A	0.1	Diesel tailpipe from non-road equipment
1DRILLPEB	POINT	Drill Rigs - Primary Power Engines B	0.1	Diesel tailpipe from non-road equipment
1DRILLCP1A	POINT	Drill Rigs - Cement Pumping Unit #1 A	0.2	Diesel tailpipe from non-road equipment
1DRILLCP1B	POINT	Drill Rigs - Cement Pumping Unit #1 B	0.2	Diesel tailpipe from non-road equipment
1DRILLCP2A	POINT	Drill Rigs - Cement Pumping Unit #2 A	0.2	Diesel tailpipe from non-road equipment
1DRILLCP2B	POINT	Drill Rigs - Cement Pumping Unit #2 B	0.2	Diesel tailpipe from non-road equipment
1DRILLB1A	POINT	Drill Rigs - Boiler #1 A	0.05	Diesel fueled heaters and boiler
1DRILLB1B	POINT	Drill Rigs - Boiler #1 B	0.05	Diesel fueled heaters and boiler
1DRILLB2A	POINT	Drill Rigs - Boiler #2 A	0.05	Diesel fueled heaters and boiler
1DRILLB2B	POINT	Drill Rigs - Boiler #2 B	0.05	Diesel fueled heaters and boiler
1DRILLAH1A	POINT	Drill Rigs - Air Heater #1 A	0.05	Diesel fueled heaters and boiler
1DRILLAH1B	POINT	Drill Rigs - Air Heater #1 B	0.05	Diesel fueled heaters and boiler
1DRILLAH2A	POINT	Drill Rigs - Air Heater #2 A	0.05	Diesel fueled heaters and boiler
1DRILLAH2B	POINT	Drill Rigs - Air Heater #2 B	0.05	Diesel fueled heaters and boiler
1DRILLMPA	POINT	Drill Rigs - Mud Pit Heater A	0.05	Diesel fueled heaters and boiler
1DRILLMPB	POINT	Drill Rigs - Mud Pit Heater B	0.05	Diesel fueled heaters and boiler
1DRILLNMTEA	POINT	Drilling Non-Mobile Support Equipment - Total Engine A	0.1	Diesel tailpipe from non-road equipment
1DRILLNMTEB	POINT	Drilling Non-Mobile Support Equipment - Total Engine B	0.1	Diesel tailpipe from non-road equipment
1DRILLNMLTA	POINT	Drilling Non-Mobile Support Equipment - Total Lighting Engine A	0.2	Diesel tailpipe from non-road equipment
1DRILLNMLTB	POINT	Drilling Non-Mobile Support Equipment - Total Lighting Engine B	0.2	Diesel tailpipe from non-road equipment
1DRILLNMPGA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Generators A	0.1	Diesel tailpipe from non-road equipment
1DRILLNMPGB	POINT	Drilling Non-Mobile Support Equipment - Total Portable Generators B	0.1	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1DRILLNMCPA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine A	0.1	Diesel tailpipe from non-road equipment
1DRILLNMCPB	POINT	Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine B	0.1	Diesel tailpipe from non-road equipment
1DRILLNMHSA	VOLUME	Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
1DRILLNMHSB	VOLUME	Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
1FRACENG1	POINT	Hydraulic Fracturing - Well Frac Engine 1	0.1	Diesel tailpipe from non-road equipment
1FRACENG2	POINT	Hydraulic Fracturing - Well Frac Engine 2	0.1	Diesel tailpipe from non-road equipment
1FRACENG3	POINT	Hydraulic Fracturing - Well Frac Engine 3	0.1	Diesel tailpipe from non-road equipment
1DRILLFLARE	POINT	Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	Flares
1TAIL1	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL6	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL7	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL8	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL9	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD6	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1MFUGD7	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD8	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD9	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-

Table I.1-5. Alternative E Near-field Model Scenario 2 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
1DRILLPEA	POINT	2.74	13.3	0.4	10.5	614	-	-
1DRILLPEB	POINT	2.74	13.3	0.4	10.5	614	-	-
1DRILLCP1A	POINT	2.74	10.4	0.13	43.5	750	-	-
1DRILLCP1B	POINT	2.74	10.4	0.13	43.5	750	-	-
1DRILLCP2A	POINT	2.74	10.4	0.13	43.5	750	-	-
1DRILLCP2B	POINT	2.74	10.4	0.13	43.5	750	-	-
1DRILLB1A	POINT	2.74	11.9	0.279	11.7	450	-	-
1DRILLB1B	POINT	2.74	11.9	0.279	11.7	450	-	-
1DRILLB2A	POINT	2.74	11.9	0.279	11.7	450	-	-
1DRILLB2B	POINT	2.74	11.9	0.279	11.7	450	-	-
1DRILLAH1A	POINT	2.74	10.5	0.3	3.2	533	-	-
1DRILLAH1B	POINT	2.74	10.5	0.3	3.2	533	-	-
1DRILLAH2A	POINT	2.74	10.5	0.3	3.2	533	-	-
1DRILLAH2B	POINT	2.74	10.5	0.3	3.2	533	-	-
1DRILLMPA	POINT	2.74	7.2	0.3	10.8	533	-	-
1DRILLMPB	POINT	2.74	7.2	0.3	10.8	533	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
1DRILLNMTEA	POINT	2.74	6.5	0.3	47	761	-	-
1DRILLNMTEB	POINT	2.74	6.5	0.3	47	761	-	-
1DRILLNMLTA	POINT	2.74	6.1	0.3	15.1	795	-	-
1DRILLNMLTB	POINT	2.74	6.1	0.3	15.1	795	-	-
1DRILLNMPGA	POINT	2.74	6.1	0.3	15.1	795	-	-
1DRILLNMPGB	POINT	2.74	6.1	0.3	15.1	795	-	-
1DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-
1DRILLNMCPB	POINT	2.74	3.7	0.3	46	689	-	-
1DRILLNMHSA	VOLUME	2.74	3.7	-	-	-	13.95	3.38
1DRILLNMHSB	VOLUME	2.74	3.7	-	-	-	13.95	3.38
1FRACENG1	POINT	2.74	3.7	0.356	41.6	644	-	-
1FRACENG2	POINT	2.74	3.7	0.356	41.6	644	-	-
1FRACENG3	POINT	2.74	3.7	0.356	41.6	644	-	-
1DRILLFLARE	POINT	2.74	10.1	0.3	6.1	1033	-	-
1TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL7	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL8	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL9	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
1MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD7	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD8	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD9	VOLUME	2.13	3.66	-	-	-	9.07	3.38

Table I.1-6. Alternative E Near-field Model Scenario 2 Emissions Rates

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1DRILLPEA	3.21E+00	6.15E-01	6.15E-01	2.75E-02	2.75E-02	2.75E-02	4.74E-03	4.74E-03	4.74E-03	8760
1DRILLPEB	3.21E+00	6.15E-01	6.15E-01	2.75E-02	2.75E-02	2.75E-02	4.74E-03	4.74E-03	4.74E-03	8760
1DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLCP1B	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLCP2B	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLB1B	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLB2B	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
1DRILLAH1B	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
1DRILLAH2B	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
1DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
1DRILLMPB	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
1DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
1DRILLNMTEB	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
1DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
1DRILLNMLTB	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
1DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
1DRILLNMPGB	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
1DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
1DRILLNMCPB	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
1DRILLNMHSA	2.15E-02	8.59E-02	6.44E-02	1.02E-02	9.15E-03	6.86E-03	9.15E-04	9.15E-04	6.86E-04	8760
1DRILLNMHSB	2.15E-02	8.59E-02	6.44E-02	1.02E-02	9.15E-03	6.86E-03	9.15E-04	9.15E-04	6.86E-04	8760
1FRACENG1	3.11E-02	2.49E-03	8.17E-04	1.24E-04	1.24E-04	4.09E-05	4.11E-05	4.11E-05	1.35E-05	1920
1FRACENG2	1.79E-01	3.43E-02	1.13E-02	1.54E-03	1.54E-03	5.06E-04	3.78E-04	3.78E-04	1.24E-04	1920
1FRACENG3	2.61E+00	5.00E-01	1.64E-01	2.24E-02	2.24E-02	7.35E-03	5.50E-03	5.50E-03	1.81E-03	1920
1DRILLFLARE	1.08E+00	1.98E-01	1.95E-02	4.79E-05	4.79E-05	4.72E-06	1.16E-02	1.16E-02	1.14E-03	864
1TAIL1	5.34E-06	1.07E-05	9.26E-06	1.80E-06	5.34E-07	5.34E-07	6.76E-08	6.76E-08	6.76E-08	8760
1TAIL2	5.34E-06	1.07E-05	9.26E-06	1.80E-06	5.34E-07	5.34E-07	6.76E-08	6.76E-08	6.76E-08	8760
1TAIL3	5.34E-06	1.07E-05	9.26E-06	1.80E-06	5.34E-07	5.34E-07	6.76E-08	6.76E-08	6.76E-08	8760
1TAIL4	5.34E-06	1.07E-05	9.26E-06	1.80E-06	5.34E-07	5.34E-07	6.76E-08	6.76E-08	6.76E-08	8760
1TAIL5	5.34E-06	1.07E-05	9.26E-06	1.80E-06	5.34E-07	5.34E-07	6.76E-08	6.76E-08	6.76E-08	8760
1TAIL6	5.34E-06	1.07E-05	9.26E-06	1.80E-06	5.34E-07	5.34E-07	6.76E-08	6.76E-08	6.76E-08	8760
1TAIL7	5.34E-06	1.07E-05	9.26E-06	1.80E-06	5.34E-07	5.34E-07	6.76E-08	6.76E-08	6.76E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1TAIL8	5.34E-06	1.07E-05	9.26E-06	1.80E-06	5.34E-07	5.34E-07	6.76E-08	6.76E-08	6.76E-08	8760
1TAIL9	5.34E-06	1.07E-05	9.26E-06	1.80E-06	5.34E-07	5.34E-07	6.76E-08	6.76E-08	6.76E-08	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.13E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.13E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.13E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.13E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.13E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.13E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD7	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.13E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD8	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.13E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD9	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.13E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00	4380

I.1.3 Scenario 3: BT1/BT2 Pre-Drill

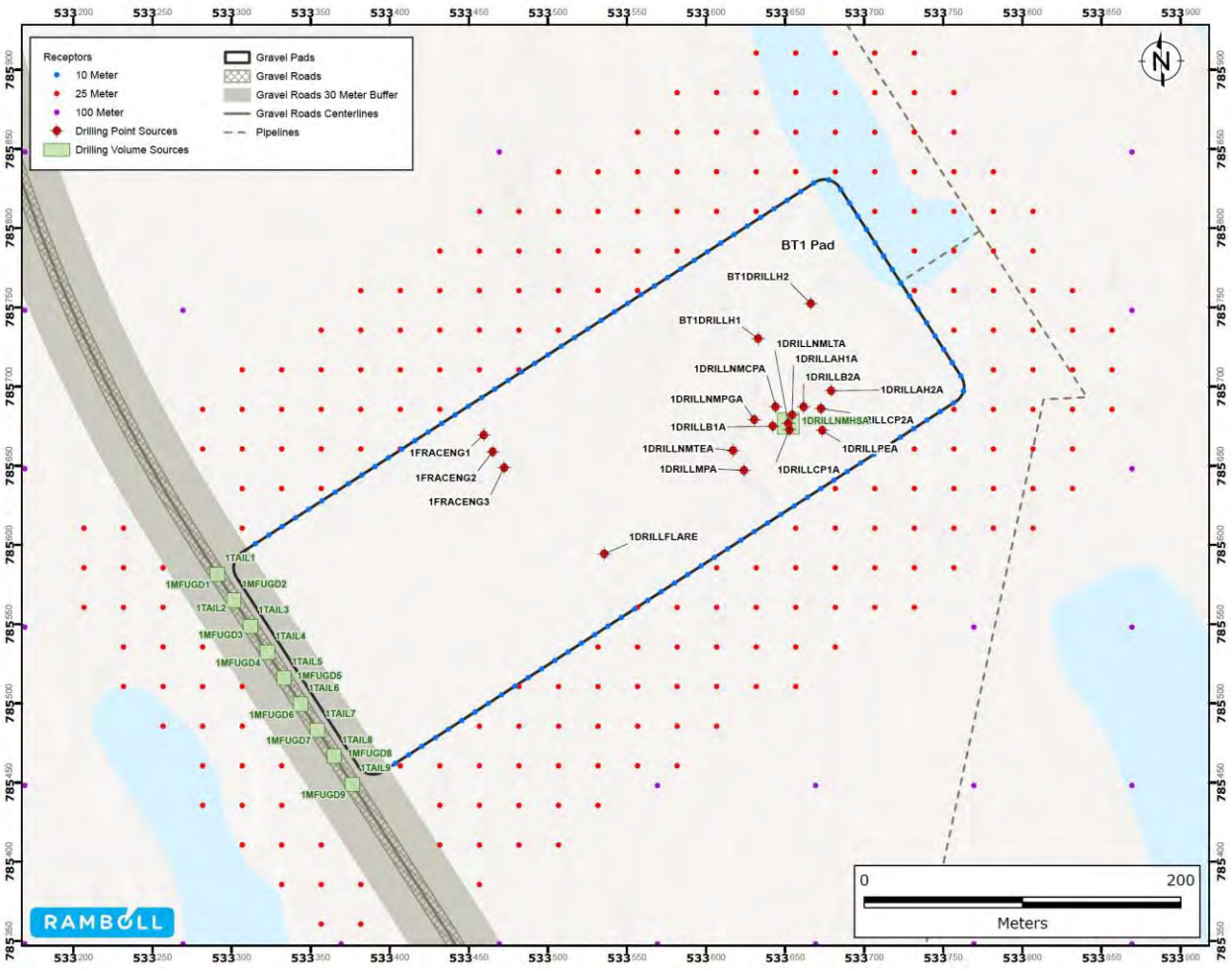


Figure I.1-12. Alternative E Near-field Model Scenario 3 Source Locations at BT1.

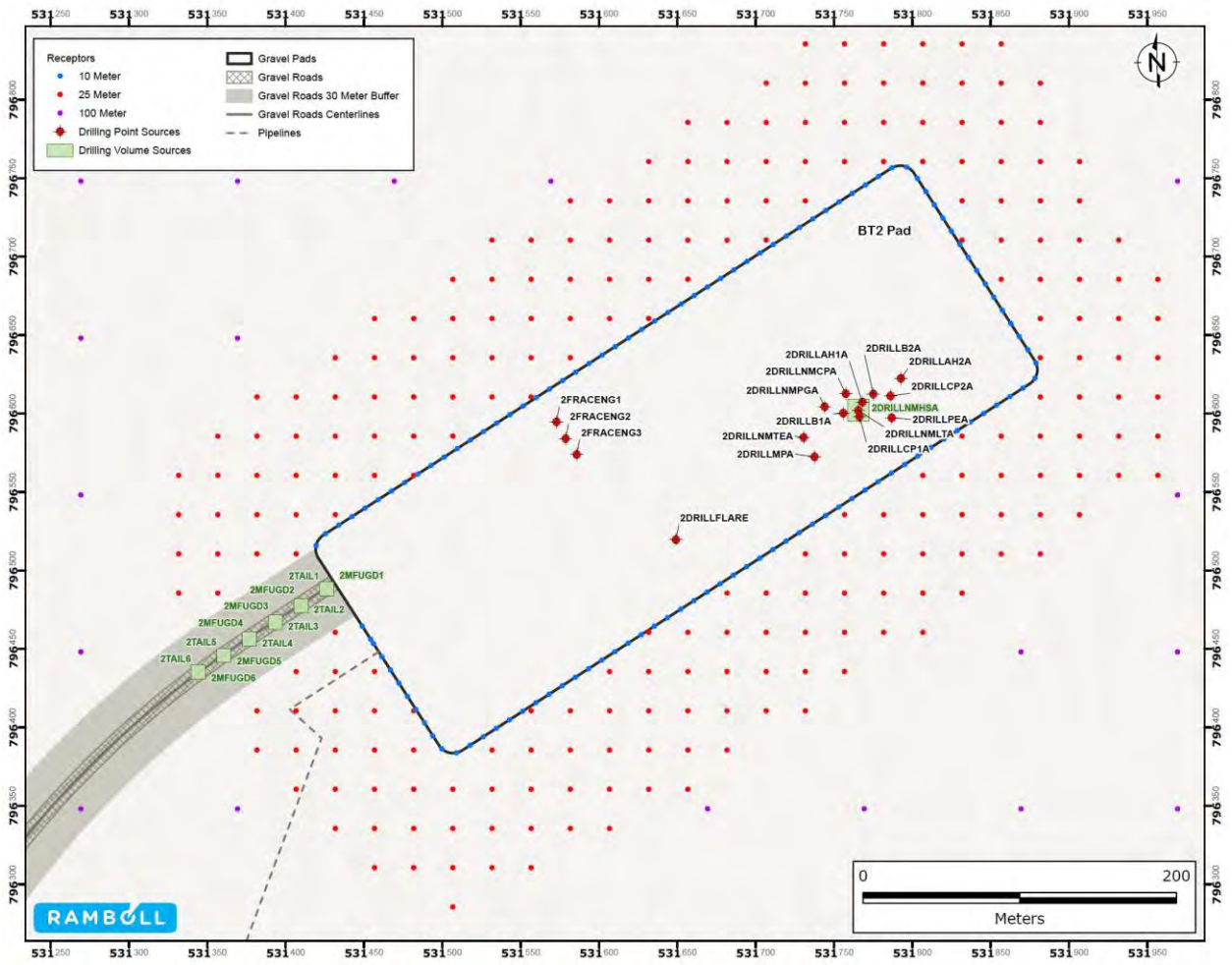


Figure I.1-13. Alternative E Near-field Model Scenario 3 Source Locations at BT2.

Table I.1-7. Alternative E Near-field Model Scenario 3 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1DRILLPEA	POINT	Drill Rigs - Primary Power Engines A	0.1	Diesel tailpipe from non-road equipment
2DRILLPEA	POINT	Drill Rigs - Primary Power Engines A	0.1	Diesel tailpipe from non-road equipment
1DRILLCP1A	POINT	Drill Rigs - Cement Pumping Unit #1 A	0.2	Diesel tailpipe from non-road equipment
2DRILLCP1A	POINT	Drill Rigs - Cement Pumping Unit #1 A	0.2	Diesel tailpipe from non-road equipment
1DRILLCP2A	POINT	Drill Rigs - Cement Pumping Unit #2 A	0.2	Diesel tailpipe from non-road equipment
2DRILLCP2A	POINT	Drill Rigs - Cement Pumping Unit #2 A	0.2	Diesel tailpipe from non-road equipment
1DRILLB1A	POINT	Drill Rigs - Boiler #1 A	0.05	Diesel fueled heaters and boiler
2DRILLB1A	POINT	Drill Rigs - Boiler #1 A	0.05	Diesel fueled heaters and boiler
1DRILLB2A	POINT	Drill Rigs - Boiler #2 A	0.05	Diesel fueled heaters and boiler
2DRILLB2A	POINT	Drill Rigs - Boiler #2 A	0.05	Diesel fueled heaters and boiler
1DRILLAH1A	POINT	Drill Rigs - Air Heater #1 A	0.05	Diesel fueled heaters and boiler
2DRILLAH1A	POINT	Drill Rigs - Air Heater #1 A	0.05	Diesel fueled heaters and boiler
1DRILLAH2A	POINT	Drill Rigs - Air Heater #2 A	0.05	Diesel fueled heaters and boiler
2DRILLAH2A	POINT	Drill Rigs - Air Heater #2 A	0.05	Diesel fueled heaters and boiler
1DRILLMPA	POINT	Drill Rigs - Mud Pit Heater A	0.05	Diesel fueled heaters and boiler
2DRILLMPA	POINT	Drill Rigs - Mud Pit Heater A	0.05	Diesel fueled heaters and boiler
1DRILLNMTEA	POINT	Drilling Non-Mobile Support Equipment - Total Engine A	0.1	Diesel tailpipe from non-road equipment
2DRILLNMTEA	POINT	Drilling Non-Mobile Support Equipment - Total Engine A	0.1	Diesel tailpipe from non-road equipment
1DRILLNMLTA	POINT	Drilling Non-Mobile Support Equipment - Total Lighting Engine A	0.2	Diesel tailpipe from non-road equipment
2DRILLNMLTA	POINT	Drilling Non-Mobile Support Equipment - Total Lighting Engine A	0.2	Diesel tailpipe from non-road equipment
1DRILLNMPGA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Generators A	0.1	Diesel tailpipe from non-road equipment
2DRILLNMPGA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Generators A	0.1	Diesel tailpipe from non-road equipment
1DRILLNMCPA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine A	0.1	Diesel tailpipe from non-road equipment
2DRILLNMCPA	POINT	Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine A	0.1	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1DRILLNMHSA	VOLUME	Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
2DRILLNMHSA	VOLUME	Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
1FRACENG1	POINT	Hydraulic Fracturing - Well Frac Engine 1	0.1	Diesel tailpipe from non-road equipment
1FRACENG2	POINT	Hydraulic Fracturing - Well Frac Engine 2	0.1	Diesel tailpipe from non-road equipment
1FRACENG3	POINT	Hydraulic Fracturing - Well Frac Engine 3	0.1	Diesel tailpipe from non-road equipment
1DRILLFLARE	POINT	Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	Flares
2FRACENG1	POINT	Hydraulic Fracturing - Well Frac Engine 1	0.1	Diesel engines
2FRACENG2	POINT	Hydraulic Fracturing - Well Frac Engine 2	0.1	Diesel engines
2FRACENG3	POINT	Hydraulic Fracturing - Well Frac Engine 3	0.1	Diesel engines
2DRILLFLARE	POINT	Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	Flares
BT1DRILLH1	POINT	BT1 – Line Heater	0.05	Natural gas heaters
BT1DRILLH2	POINT	BT1 – Line Heater	0.05	Natural gas heaters
1TAIL1	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL6	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL7	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL8	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL9	VOLUME	Drilling Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
2TAIL1	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL4	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2TAIL5	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL6	VOLUME	Drilling Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD6	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD7	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD8	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD9	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD3	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD5	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD6	VOLUME	Drilling Mobile Equipment Fugitive Dust - BT2	-	-

Table I.1-8. Alternative E Near-field Model Scenario 3 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
1DRILLPEA	POINT	2.74	13.3	0.4	10.5	614	-	-
2DRILLPEA	POINT	2.74	13.3	0.4	10.5	614	-	-
1DRILLCP1A	POINT	2.74	10.4	0.13	43.5	750	-	-
2DRILLCP1A	POINT	2.74	10.4	0.13	43.5	750	-	-
1DRILLCP2A	POINT	2.74	10.4	0.13	43.5	750	-	-
2DRILLCP2A	POINT	2.74	10.4	0.13	43.5	750	-	-
1DRILLB1A	POINT	2.74	11.9	0.279	11.7	450	-	-
2DRILLB1A	POINT	2.74	11.9	0.279	11.7	450	-	-
1DRILLB2A	POINT	2.74	11.9	0.279	11.7	450	-	-
2DRILLB2A	POINT	2.74	11.9	0.279	11.7	450	-	-
1DRILLAH1A	POINT	2.74	10.5	0.3	3.2	533	-	-
2DRILLAH1A	POINT	2.74	10.5	0.3	3.2	533	-	-
1DRILLAH2A	POINT	2.74	10.5	0.3	3.2	533	-	-
2DRILLAH2A	POINT	2.74	10.5	0.3	3.2	533	-	-
1DRILLMPA	POINT	2.74	7.2	0.3	10.8	533	-	-
2DRILLMPA	POINT	2.74	7.2	0.3	10.8	533	-	-
1DRILLNMTEA	POINT	2.74	6.5	0.3	47	761	-	-
2DRILLNMTEA	POINT	2.74	6.5	0.3	47	761	-	-
1DRILLNMLTA	POINT	2.74	6.1	0.3	15.1	795	-	-
2DRILLNMLTA	POINT	2.74	6.1	0.3	15.1	795	-	-
1DRILLNMPGA	POINT	2.74	6.1	0.3	15.1	795	-	-
2DRILLNMPGA	POINT	2.74	6.1	0.3	15.1	795	-	-
1DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-
2DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-
1DRILLNMHSA	VOLUME	2.74	3.7	-	-	-	13.95	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
2DRILLNMHSA	VOLUME	2.74	3.7	-	-	-	13.95	3.38
1FRACENG1	POINT	2.74	3.7	0.356	41.6	644	-	-
1FRACENG2	POINT	2.74	3.7	0.356	41.6	644	-	-
1FRACENG3	POINT	2.74	3.7	0.356	41.6	644	-	-
1DRILLFLARE	POINT	2.74	10.1	0.3	6.1	1033	-	-
2FRACENG1	POINT	2.74	3.7	0.356	41.6	644	-	-
2FRACENG2	POINT	2.74	3.7	0.356	41.6	644	-	-
2FRACENG3	POINT	2.74	3.7	0.356	41.6	644	-	-
2DRILLFLARE	POINT	2.74	10.1	0.3	6.1	1033	-	-
BT1DRILLH1	POINT	2.74	12.2	0.94	5.7	529	-	-
BT1DRILLH2	POINT	2.74	12.2	0.94	5.7	529	-	-
1TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL7	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL8	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL9	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
1MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD7	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD8	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD9	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38

Table I.1-9. Alternative E Near-field Model Scenario 3 Emissions Rates

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1DRILLPEA	3.21E+00	6.15E-01	6.15E-01	2.75E-02	2.75E-02	2.75E-02	4.74E-03	4.74E-03	4.74E-03	8760
2DRILLPEA	3.21E+00	6.15E-01	6.15E-01	2.75E-02	2.75E-02	2.75E-02	4.74E-03	4.74E-03	4.74E-03	8760
1DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
2DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
2DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
1DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
2DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
2DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
1DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
2DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
1DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
2DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
1DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
2DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
1DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
2DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
1DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
2DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
1DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
2DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
1DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
2DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
1DRILLNMHSA	2.15E-02	8.59E-02	6.44E-02	1.02E-02	9.15E-03	6.86E-03	9.15E-04	9.15E-04	6.86E-04	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
2DRILLNMHSA	2.15E-02	8.59E-02	6.44E-02	1.02E-02	9.15E-03	6.86E-03	9.15E-04	9.15E-04	6.86E-04	8760
1FRACENG1	3.11E-02	2.49E-03	8.17E-04	1.24E-04	1.24E-04	4.09E-05	4.11E-05	4.11E-05	1.35E-05	1920
1FRACENG2	1.79E-01	3.43E-02	1.13E-02	1.54E-03	1.54E-03	5.06E-04	3.78E-04	3.78E-04	1.24E-04	1920
1FRACENG3	2.61E+00	5.00E-01	1.64E-01	2.24E-02	2.24E-02	7.35E-03	5.50E-03	5.50E-03	1.81E-03	1920
1DRILLFLARE	1.08E+00	1.98E-01	1.95E-02	4.79E-05	4.79E-05	4.72E-06	1.16E-02	1.16E-02	1.14E-03	864
2FRACENG1	3.11E-02	2.49E-03	8.17E-04	1.24E-04	1.24E-04	4.09E-05	4.11E-05	4.11E-05	1.35E-05	1920
2FRACENG2	1.79E-01	3.43E-02	1.13E-02	1.54E-03	1.54E-03	5.06E-04	3.78E-04	3.78E-04	1.24E-04	1920
2FRACENG3	2.61E+00	5.00E-01	1.64E-01	2.24E-02	2.24E-02	7.35E-03	5.50E-03	5.50E-03	1.81E-03	1920
2DRILLFLARE	1.08E+00	1.98E-01	1.95E-02	4.79E-05	4.79E-05	4.72E-06	1.16E-02	1.16E-02	1.14E-03	864
BT1DRILLH1	5.19E-02	6.18E-02	6.18E-02	2.00E-05	2.00E-05	2.00E-05	4.17E-03	4.17E-03	4.17E-03	2190
BT1DRILLH2	5.19E-02	6.18E-02	6.18E-02	2.00E-05	2.00E-05	2.00E-05	4.17E-03	4.17E-03	4.17E-03	2190
1TAIL1	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760
1TAIL2	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760
1TAIL3	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760
1TAIL4	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760
1TAIL5	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760
1TAIL6	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760
1TAIL7	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760
1TAIL8	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760
1TAIL9	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760
2TAIL1	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760
2TAIL2	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760
2TAIL3	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760
2TAIL4	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760
2TAIL5	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760
2TAIL6	6.99E-06	1.40E-05	1.40E-05	2.36E-06	7.00E-07	7.00E-07	8.85E-08	8.85E-08	8.85E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD7	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD8	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD9	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD5	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD6	0.00E+00	0.00E+00	0.00E+00	4.24E-03	4.10E-04	4.10E-04	0.00E+00	0.00E+00	0.00E+00	4380

I.1.4 Scenario 4: Development Drilling

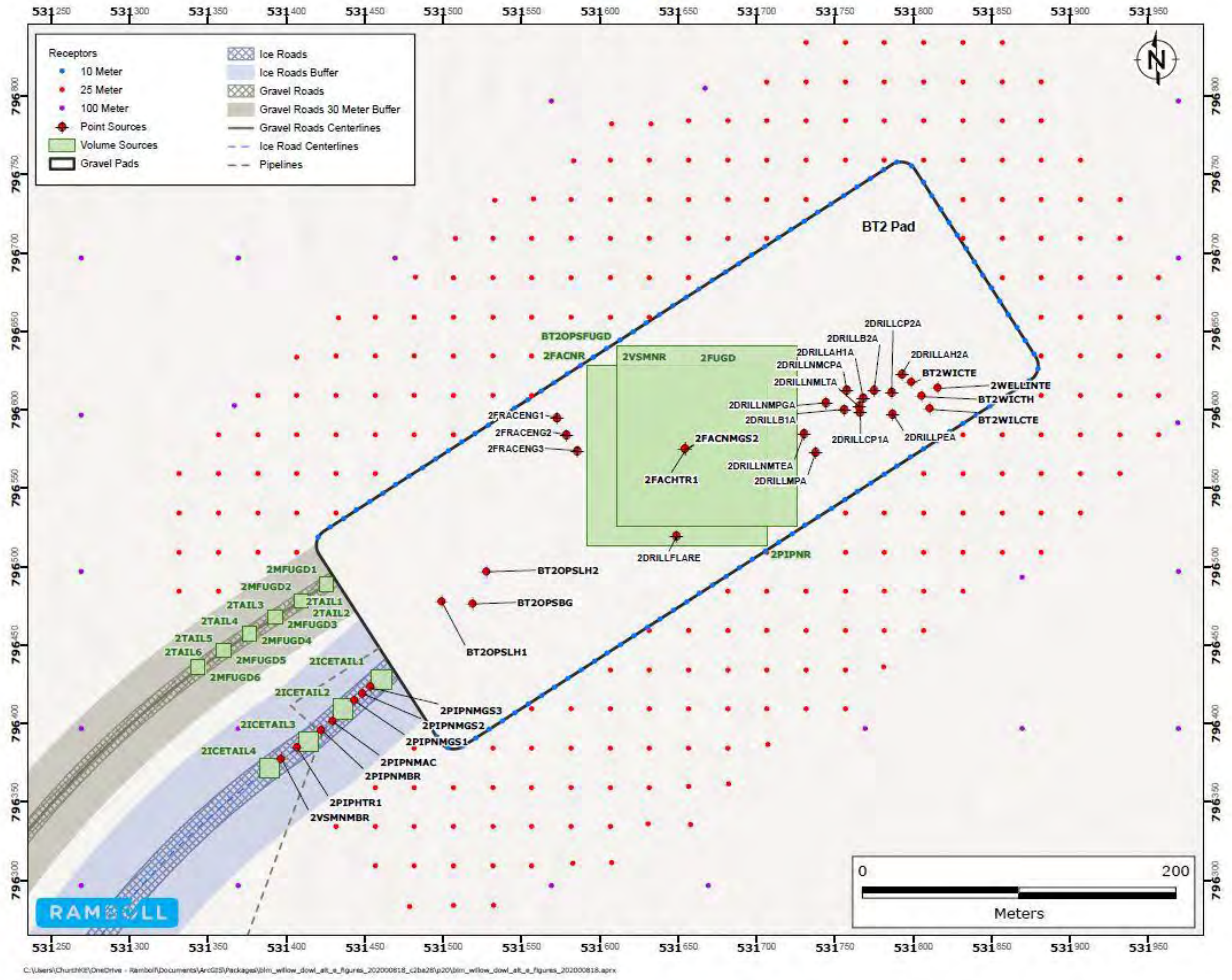


Figure I.1-14. Alternative E Near-field Model Scenario 4 Source Locations at BT2.

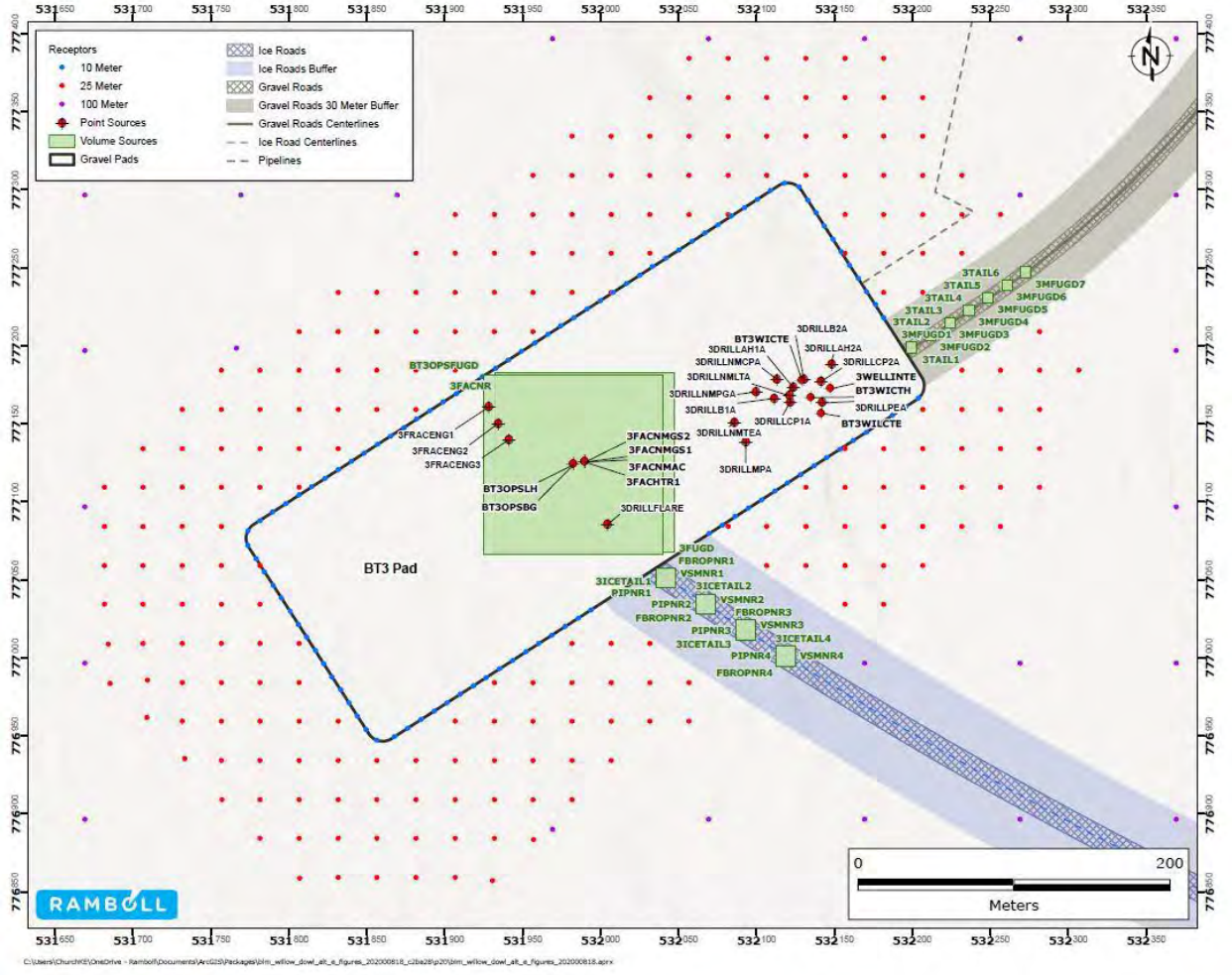


Figure I.1-15. Alternative E Near-field Model Scenario 4 Source Locations at BT3.

Table I.1-10. Alternative E Near-field Model Scenario 4 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
BT1OPSLH1	POINT	BT1 - Line Heater	0.05	Natural gas heaters
BT1OPSLH2	POINT	BT1 - Line Heater	0.05	Natural gas heaters
BT1OPSBG	POINT	BT1 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT1OPSFUGD	VOLUME	BT1 - Wind Erosion Fugitive Dust	-	-
BT1WICTH	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel fueled heaters and boiler
BT1WICTE	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT1WILCTE	POINT	BT1 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT2OPSLH1	POINT	BT2 - Line Heater	0.05	Natural gas heaters
BT2OPSLH2	POINT	BT2 - Line Heater	0.05	Natural gas heaters
BT2OPSBG	POINT	BT2 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT2OPSFUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust	-	-
BT2WICTH	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel fueled heaters and boiler
BT2WICTE	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT2WILCTE	POINT	BT2 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT3OPSLH	POINT	BT3 - Line Heater	0.05	Diesel tailpipe from non-road equipment
BT3OPSBG	POINT	BT3 - Backup Generator	0.2	Natural gas heaters
BT3OPSFUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust	-	-
BT3WICTH	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel fueled heaters and boiler
BT3WICTE	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT3WILCTE	POINT	BT3 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT5OPSLH	POINT	BT5 - Line Heater	0.05	Natural gas heaters
BT5OPSBG	POINT	BT5 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT5OPSFUGD	VOLUME	BT5 - Wind Erosion Fugitive Dust	-	-
BT5WICTH	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel fueled heaters and boiler
BT5WICTE	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT5WILCTE	POINT	BT5 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
WLWTG03A	POINT	WCF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG03B	POINT	WCF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG01A	POINT	WCF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG01B	POINT	WCF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WLWTG02A	POINT	WCF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02B	POINT	WCF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG04	POINT	WCF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines
WLWTG05	POINT	WCF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines
WLWGL05	POINT	WCF - Stationary Combustion Sources - Black Start Engine	0.1	Diesel tailpipe from non-road equipment
WLWHG03	POINT	WCF - Stationary Combustion Sources - Crude Production Heater	0.05	Natural gas heaters
WLWHG04	POINT	WCF - Stationary Combustion Sources - Crude Production Heater	0.05	Natural gas heaters
WLWHG01	POINT	WCF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Natural gas heaters
WLWHG02	POINT	WCF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Natural gas heaters
WLWHG06	POINT	WCF - Stationary Combustion Sources - Hot Oil Heater	0.05	Natural gas heaters
WLWFGLPE	POINT	WCF - Stationary Combustion Sources - LP Flare (emergency)	0.5	Flares
WLWFGHPE	POINT	WCF - Stationary Combustion Sources - HP Flare (emergency)	0.5	Flares
WCFOPSFUGD	VOLUME	WCF - Wind Erosion Fugitive Dust	-	-
WOCPWRGEN1	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel tailpipe from non-road equipment
WOCPWRGEN2	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel tailpipe from non-road equipment
WOCPWRGEN3	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel tailpipe from non-road equipment
WLWIG01	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	Diesel tailpipe from non-road equipment
WLWIG02	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	Diesel tailpipe from non-road equipment
WLWHL05	POINT	WOC - Stationary Combustion Sources - Mud Plant Glycol Boiler	0.05	Diesel fueled heaters and boiler
WILLOWAIR1	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 50.8m	0.5	Aircraft
WILLOWAIR2	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 152.4m	0.5	Aircraft
WILLOWAIR3	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 254m	0.5	Aircraft
WOCOPSFUGD	VOLUME	WOC - Wind Erosion Fugitive Dust - Wind Erosion	-	-
WCFPCE1	AREAPOLY	WCF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFPCE2	AREAPOLY	WCF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFPCE3	AREAPOLY	WCF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFPCE4	AREAPOLY	WCF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFPCE5	AREAPOLY	WCF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFPCE6	AREAPOLY	WCF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFPCE7	AREAPOLY	WCF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFSCE1	AREAPOLY	WCF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFSCE2	AREAPOLY	WCF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFSCE3	AREAPOLY	WCF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFSCE4	AREAPOLY	WCF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFSCE5	AREAPOLY	WCF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFSCE6	AREAPOLY	WCF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFSCE7	AREAPOLY	WCF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFNRE1	AREAPOLY	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE2	AREAPOLY	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE3	AREAPOLY	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE4	AREAPOLY	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFNRE5	AREAPOLY	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE6	AREAPOLY	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE7	AREAPOLY	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WLW2GEN	POINT	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines >140 HP	0.1	Diesel engines
BT3NRE1	AREAPOLY	BT3 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT3WIN1	AREAPOLY	BT3 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
3WELLINTE	POINT	BT3 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
BT1NRE1	AREAPOLY	BT1 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT1WIN1	AREAPOLY	BT1 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
1WELLINTE	POINT	BT1 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
BT2NRE1	AREAPOLY	BT2 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT2WIN1	AREAPOLY	BT2 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
2WELLINTE	POINT	BT2 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
BT5NRE1	AREAPOLY	BT5 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT5WIN1	AREAPOLY	BT5 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
5WELLINTE	POINT	BT5 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
WOCPCE	AREAPOLY	WOC - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WOCSCE	AREAPOLY	WOC - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WOCNRE	AREAPOLY	WOC - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
1TAIL1	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL6	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1TAIL7	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL8	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL9	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
2TAIL1	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL4	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL5	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL6	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
3TAIL1	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL2	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL3	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL4	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL5	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL6	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL7	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
5TAIL1	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL2	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL3	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL4	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL5	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL6	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL7	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL8	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCTAIL9	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL10	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL11	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL12	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL13	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL14	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL15	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL16	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL17	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL18	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL19	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL20	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL21	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL22	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL23	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL24	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL25	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL26	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL27	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL28	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL29	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL30	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL31	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL32	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL33	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
AIRTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL1	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL2	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL3	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL4	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL5	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL6	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL7	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL8	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL9	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL10	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL11	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL12	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL13	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL14	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL15	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL16	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL17	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL18	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL19	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD8	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD9	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
3MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
5MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
WCFMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD8	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD9	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD10	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD11	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD12	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD13	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFMFUGD14	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD15	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD16	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD17	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD18	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD19	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WOCMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD8	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD9	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD10	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD11	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD12	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD13	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD14	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD15	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD16	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD17	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD18	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD19	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD20	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD21	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD22	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD23	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD24	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD25	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCMFUGD26	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD27	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD28	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD29	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD30	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD31	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD32	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD33	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCTEMPTRB1	POINT	WOC - Stationary Combustion Sources - Power Generation Turbine	0.3	Diesel tailpipe from non-road equipment
WOCTEMPTRB2	POINT	WOC - Stationary Combustion Sources - Power Generation Turbine	0.3	Diesel tailpipe from non-road equipment
RFDGMT1	POINT	RFD - GMT1	0.2	Reasonably Foreseeable Development
RFDGMT2	POINT	RFD - GMT2	0.2	Reasonably Foreseeable Development
RFDGWPDS1	POINT	RFD - Greater Willow Project Drill Site #1	0.15	Reasonably Foreseeable Development
RFDGWPDS2	POINT	RFD - Greater Willow Project Drill Site #2	0.15	Reasonably Foreseeable Development
RFDCD5	POINT	RFD - CD5	0.2	Reasonably Foreseeable Development
RFDCD8	POINT	RFD - CD8 Expansion	0.2	Reasonably Foreseeable Development
RFDNW	POINT	RFD - Narwhal	0.2	Reasonably Foreseeable Development
RFDACF	POINT	RFD - Alpine Central Facility Expansion	0.2	Reasonably Foreseeable Development
RFDCD1EXP	POINT	RFD - CD1 Expansion	0.5	Reasonably Foreseeable Development
RFDCD4EXP	POINT	RFD - CD4 Expansion	0.2	Reasonably Foreseeable Development
2DRILLPEA	POINT	BT2 - Drill Rigs - Primary Power Engines	0.1	Diesel tailpipe from non-road equipment
2DRILLCP1A	POINT	BT2 - Drill Rigs - Cement Pumping Unit #1	0.2	Diesel tailpipe from non-road equipment
2DRILLCP2A	POINT	BT2 - Drill Rigs - Cement Pumping Unit #2	0.2	Diesel tailpipe from non-road equipment
2DRILLB1A	POINT	BT2 - Drill Rigs - Boiler #1	0.05	Diesel fueled heaters and boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2DRILLB2A	POINT	BT2 - Drill Rigs - Boiler #2	0.05	Diesel fueled heaters and boiler
2DRILLAH1A	POINT	BT2 - Drill Rigs - Air Heater #1	0.05	Diesel fueled heaters and boiler
2DRILLAH2A	POINT	BT2 - Drill Rigs - Air Heater #2	0.05	Diesel fueled heaters and boiler
2DRILLMPA	POINT	BT2 - Drill Rigs - Mud Pit Heater	0.05	Diesel fueled heaters and boiler
2DRILLNMTEA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
2DRILLNMLTA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Lighting Engine	0.2	Diesel tailpipe from non-road equipment
2DRILLNMPGA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Portable Generators	0.1	Diesel tailpipe from non-road equipment
2DRILLNMCPA	POINT	BT2 - Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine	0.1	Diesel tailpipe from non-road equipment
2DRILLNMHSA	VOLUME	BT2 - Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
2DRILLFLARE	POINT	BT2 - Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	Flares
3DRILLPEA	POINT	BT3 - Drill Rigs - Primary Power Engines	0.1	Diesel tailpipe from non-road equipment
3DRILLCP1A	POINT	BT3 - Drill Rigs - Cement Pumping Unit #1	0.2	Diesel tailpipe from non-road equipment
3DRILLCP2A	POINT	BT3 - Drill Rigs - Cement Pumping Unit #2	0.2	Diesel tailpipe from non-road equipment
3DRILLB1A	POINT	BT3 - Drill Rigs - Boiler #1	0.05	Diesel fueled heaters and boiler
3DRILLB2A	POINT	BT3 - Drill Rigs - Boiler #2	0.05	Diesel fueled heaters and boiler
3DRILLAH1A	POINT	BT3 - Drill Rigs - Air Heater #1	0.05	Diesel fueled heaters and boiler
3DRILLAH2A	POINT	BT3 - Drill Rigs - Air Heater #2	0.05	Diesel fueled heaters and boiler
3DRILLMPA	POINT	BT3 - Drill Rigs - Mud Pit Heater	0.05	Diesel fueled heaters and boiler
3DRILLNMTEA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
3DRILLNMLTA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Lighting Engine	0.2	Diesel tailpipe from non-road equipment
3DRILLNMPGA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Portable Generators	0.1	Diesel tailpipe from non-road equipment
3DRILLNMCPA	POINT	BT3 - Drilling Non-Mobile Support Equipment - Total Portable Welders/Compressor Engine	0.1	Diesel tailpipe from non-road equipment
3DRILLNMHSA	VOLUME	BT3 - Drilling Non-Mobile Support Equipment - Portable Heaters & Snow Melters	0.05	Diesel tailpipe from non-road equipment
3DRILLFLARE	POINT	BT3 - Drilling Well Flowback and Flaring - Total Flaring Emissions	0.5	Flares
2FUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
3FUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust	-	-
1FACHTR1	POINT	BT1 - Willow Facilities Installation - Construction Heaters	0.05	Diesel fueled heaters and boiler
1FACNMAC	POINT	BT1 - Willow Facilities Installation - Air Compressors	0.1	Diesel tailpipe from non-road equipment
1FACNR	VOLUME	BT1 - Willow Facilities Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1FACNMGS1	POINT	BT1 - Willow Facilities Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
1FACNMGS2	POINT	BT1 - Willow Facilities Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
1PIPHTR1	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Construction Heaters	0.05	Diesel fueled heaters and boiler
1PIPNMAC	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Air Compressors	0.1	Diesel tailpipe from non-road equipment
1PIPNR	VOLUME	BT1 - Pipeline Installation - Wellsite to WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1PIPNMBR	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
1PIPNMGS1	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel tailpipe from non-road equipment
1PIPNMGS2	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel tailpipe from non-road equipment
1PIPNMGS3	POINT	BT1 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel tailpipe from non-road equipment
1VSMNR	VOLUME	BT1 - Vertical Support Member (VSM) Construction - Wellsite to WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
1VSMNMBR	POINT	BT1 - Vertical Support Member (VSM) Construction - Wellsite to WPF - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
1ICETAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1ICETAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1ICETAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1ICETAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
2FACHTR1	POINT	BT2 - Willow Facilities Installation - Construction Heaters	0.05	Diesel fueled heaters and boiler
2FACNMAC	POINT	BT2 - Willow Facilities Installation - Air Compressors	0.1	Diesel tailpipe from non-road equipment
2FACNR	VOLUME	BT2 - Willow Facilities Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2FACNMGS1	POINT	BT2 - Willow Facilities Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
2FACNMGS2	POINT	BT2 - Willow Facilities Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
2FRACENG1	POINT	BT2 - Hydraulic Fracturing - Well Frac Engine 1	0.1	Diesel tailpipe from non-road equipment
2FRACENG2	POINT	BT2 - Hydraulic Fracturing - Well Frac Engine 2	0.1	Diesel tailpipe from non-road equipment
2FRACENG3	POINT	BT2 - Hydraulic Fracturing - Well Frac Engine 3	0.1	Diesel tailpipe from non-road equipment
2ICETAIL1	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2ICETAIL2	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2ICETAIL3	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2ICETAIL4	VOLUME	Mobile Support Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2PIPHTR1	POINT	BT2 - Pipeline Installation - Wellsite to WPF - Construction Heaters	0.05	Diesel fueled heaters and boiler
2PIPNMAC	POINT	BT2 - Pipeline Installation - Wellsite to WPF - Air Compressors	0.1	Diesel tailpipe from non-road equipment
2PIPNR	VOLUME	BT2 - Pipeline Installation - Wellsite to WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2PIPNMBR	POINT	BT2 - Pipeline Installation - Wellsite to WPF - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
2PIPNMGS1	POINT	BT2 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel tailpipe from non-road equipment
2PIPNMGS2	POINT	BT2 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel tailpipe from non-road equipment
2PIPNMGS3	POINT	BT2 - Pipeline Installation - Wellsite to WPF - Generator Sets	0.1	Diesel tailpipe from non-road equipment
2VSMNR	VOLUME	BT2 - Vertical Support Member (VSM) Construction - Wellsite to WPF - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
2VSMNMBR	POINT	BT2 - Vertical Support Member (VSM) Construction - Wellsite to WPF - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
3FACHTR1	POINT	BT3 - Willow Facilities Installation - Construction Heaters	0.05	Diesel fueled heaters and boiler
3FACNMAC	POINT	BT3 - Willow Facilities Installation - Air Compressors	0.1	Diesel tailpipe from non-road equipment
3FACNR	VOLUME	BT3 - Willow Facilities Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
3FACNMGS1	POINT	BT3 - Willow Facilities Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
3FACNMGS2	POINT	BT3 - Willow Facilities Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
3FRACENG1	POINT	BT3 - Hydraulic Fracturing - Well Frac Engine 1	0.1	Diesel tailpipe from non-road equipment
3FRACENG2	POINT	BT3 - Hydraulic Fracturing - Well Frac Engine 2	0.1	Diesel tailpipe from non-road equipment
3FRACENG3	POINT	BT3 - Hydraulic Fracturing - Well Frac Engine 3	0.1	Diesel tailpipe from non-road equipment
3ICETAIL1	VOLUME	Mobile Support Equipment Tailpipe – BT3	0.15	Diesel tailpipe from on-road vehicles
3ICETAIL2	VOLUME	Mobile Support Equipment Tailpipe – BT3	0.15	Diesel tailpipe from on-road vehicles
3ICETAIL3	VOLUME	Mobile Support Equipment Tailpipe – BT3	0.15	Diesel tailpipe from on-road vehicles
3ICETAIL4	VOLUME	Mobile Support Equipment Tailpipe – BT3	0.15	Diesel tailpipe from on-road vehicles
ALPAIR1	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 50.8m	0.5	Aircraft
ALPAIR2	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 152.4m	0.5	Aircraft
ALPAIR3	AREAPOLY	Aircraft Activity (Alpine Airstrip) - Release Height 254m	0.5	Aircraft
FBROPHTR	POINT	Fiber Optic Line Installation - Construction Heaters	0.05	Diesel fueled heaters and boiler
FBROPNMGS1	POINT	Fiber Optic Line Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
FBROPNMGS2	POINT	Fiber Optic Line Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
FBROPNR1	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR2	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR3	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
FBROPNR4	VOLUME	Fiber Optic Line Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNMP	POINT	Seasonal Ice Road Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
ICEPDNMGS1	POINT	Single Season Ice Pad Construction - Generator Sets	0.1	Diesel tailpipe from non-road equipment
ICEPDNRHCE	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRHDD1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRHDD2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRIOS23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRIOS43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNROS11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNROS42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNROS43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP1	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP2	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP3	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP4	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP5	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP6	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP7	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP8	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP9	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP10	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP11	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP12	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP13	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP14	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP15	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP16	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP17	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP18	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP19	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP20	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP21	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP22	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP23	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP24	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP25	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP26	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP27	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP28	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP29	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
ICEPDNRPIP30	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP31	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP32	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP33	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP34	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP35	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP36	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP37	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP38	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP39	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP40	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP41	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP42	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICEPDNRPIP43	VOLUME	Single Season Ice Pad Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNMGS1	POINT	Seasonal Ice Road Construction - Generator Sets	0.1	Diesel tailpipe from non-road equipment
ICERDNMP	POINT	Seasonal Ice Road Construction - Pumps	0.2	Diesel tailpipe from non-road equipment
ICERDNR1	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR2	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR3	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
ICERDNR4	VOLUME	Seasonal Ice Road Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPHTR	POINT	Pipeline Installation - Construction Heaters	0.05	Diesel fueled heaters and boiler
PIPNMAC	POINT	Pipeline Installation - Air Compressors	0.1	Diesel tailpipe from non-road equipment
PIPNMBR	POINT	Pipeline Installation - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
PIPNMGS1	POINT	Pipeline Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
PIPNMGS2	POINT	Pipeline Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
PIPNMGS3	POINT	Pipeline Installation - Generator Sets	0.1	Diesel tailpipe from non-road equipment
PIPNR1	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR2	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR3	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
PIPNR4	VOLUME	Pipeline Installation - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
PLIHTR1	POINT	Power Line Installation - Construction Heaters	0.1	Power Line Installation - Construction Heaters
PLINMGS1	POINT	Power Line Installation - Generator Sets	0.1	Power Line Installation - Generator Sets
PLINMGS2	POINT	Power Line Installation - Generator Sets	0.1	Power Line Installation - Generator Sets
PLINR1	VOLUME	Power Line Installation - Nonroad Equipment	0.2	Power Line Installation - Nonroad Equipment
PLINR2	VOLUME	Power Line Installation - Nonroad Equipment	0.2	Power Line Installation - Nonroad Equipment
PLINR3	VOLUME	Power Line Installation - Nonroad Equipment	0.2	Power Line Installation - Nonroad Equipment
PLINR4	VOLUME	Power Line Installation - Nonroad Equipment	0.2	Power Line Installation - Nonroad Equipment
VSMNMBR	POINT	Vertical Support Member Construction - Bore/Drill Rigs	0.2	Diesel tailpipe from non-road equipment
VSMNR1	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR2	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR3	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
VSMNR4	VOLUME	Vertical Support Member Construction - Nonroad Equipment	0.2	Diesel tailpipe from non-road equipment
WCFICETAIL1	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFICETAIL2	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFICETAIL3	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFICETAIL4	VOLUME	Mobile Support Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles

Table I.1-11. Alternative E Near-field Model Scenario 4 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
BT1OPSLH1	POINT	2.7432	12.2	0.94	5.7	529	-	-
BT1OPSLH2	POINT	2.7432	12.2	0.94	5.7	529	-	-
BT1OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
BT1OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38
BT1WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-
BT1WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-
BT1WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-
BT2OPSLH1	POINT	2.7432	12.2	0.94	5.7	529	-	-
BT2OPSLH2	POINT	2.7432	12.2	0.94	5.7	529	-	-
BT2OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-
BT2OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38
BT2WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-
BT2WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-
BT2WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-
BT3OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38
BT3WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-
BT3WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-
BT3WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-
BT5OPSLH	POINT	2.7432	12.2	0.94	5.7	529	-	-
BT5OPSBG	POINT	2.7432	6.1	0.46	15.1	795	-	-
BT5OPSFUGD	VOLUME	2.7432	3.7	-	-	-	26.74	3.38
BT5WICTH	POINT	2.7432	3.7	0.356	41.6	644	-	-
BT5WICTE	POINT	2.7432	3.7	0.356	41.6	644	-	-
BT5WILCTE	POINT	2.7432	3.7	0.356	41.6	644	-	-
WLWTG03A	POINT	3.05	25	2	30	370	-	-
WLWTG03B	POINT	3.05	25	2	30	370	-	-
WLWTG01A	POINT	3.05	30	2	35	370	-	-
WLWTG01B	POINT	3.05	30	2	35	370	-	-
WLWTG02A	POINT	3.05	30	2	35	370	-	-
WLWTG02B	POINT	3.05	30	2	35	370	-	-
WLWTG04	POINT	3.05	25	2	30	550	-	-
WLWTG05	POINT	3.05	25	2	30	550	-	-
WLWGL05	POINT	3.05	25	0.2	20	1273	-	-
WLWHG03	POINT	3.05	25	1	10	525	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WLWHG04	POINT	3.05	25	1	10	525	-	-
WLWHG01	POINT	3.05	25	0.2	10	525	-	-
WLWHG02	POINT	3.05	25	1	10	525	-	-
WLWHG06	POINT	3.05	25	1	10	525	-	-
WLWFGLPE	POINT	3.05	114.08	20.42	20	1273	-	-
WLWFGHPE	POINT	3.05	106	18.48	20	1273	-	-
WCFOPSFUGD	VOLUME	3.05	3.7	-	-	-	15.1	3.38
WOCPWRGEN1	POINT	3.05	8.6	0.3	20	760	-	-
WOCPWRGEN2	POINT	3.05	8.6	0.3	20	760	-	-
WOCPWRGEN3	POINT	3.05	8.6	0.3	20	760	-	-
WLWIG01	POINT	3.05	20	0.3	10	1200	-	-
WLWIG02	POINT	3.05	20	0.3	10	1200	-	-
WLWHL05	POINT	3.05	13.19	0.3	10	525	-	-
WILLOWAIR1	AREAPOLY	2.9	50.8	-	-	-	-	23.63
WILLOWAIR2	AREAPOLY	2.9	152.4	-	-	-	-	23.63
WILLOWAIR3	AREAPOLY	2.9	254	-	-	-	-	23.63
WOCOPSFUGD	VOLUME	3.05	3.7	-	-	-	15.1	3.38
WCFPCE1	AREAPOLY	3.05	13.3	-	-	-	-	12.37
WCFPCE2	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFPCE3	AREAPOLY	3.05	9.38	-	-	-	-	8.72
WCFPCE4	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFPCE5	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFPCE6	AREAPOLY	3.05	13.3	-	-	-	-	12.37
WCFPCE7	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFSCE1	AREAPOLY	3.05	13.3	-	-	-	-	12.37
WCFSCE2	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFSCE3	AREAPOLY	3.05	9.38	-	-	-	-	8.72
WCFSCE4	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFSCE5	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFSCE6	AREAPOLY	3.05	13.3	-	-	-	-	12.37
WCFSCE7	AREAPOLY	3.05	3.63	-	-	-	-	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WCFNRE1	AREAPOLY	3.05	13.3	-	-	-	-	12.37
WCFNRE2	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFNRE3	AREAPOLY	3.05	9.38	-	-	-	-	8.72
WCFNRE4	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFNRE5	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFNRE6	AREAPOLY	3.05	13.3	-	-	-	-	12.37
WCFNRE7	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WLW2GEN	POINT	3.05	6.1	0.46	15.1	795	-	-
BT3NRE1	AREAPOLY	2.74	3.66	-	-	-	-	3.38
BT3WIN1	AREAPOLY	2.74	3.66	-	-	-	-	3.38
3WELLINTE	POINT	3.66	6.1	0.46	15.1	795	-	-
BT1NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38
BT1WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38
1WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-
BT2NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38
BT2WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38
2WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-
BT5NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38
BT5WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38
5WELLINTE	POINT	2.7432	6.1	0.46	15.1	795	-	-
WOCPCE	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WOCSCE	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WOCNRE	AREAPOLY	3.05	3.63	-	-	-	-	3.38
1TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL7	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL8	VOLUME	2.13	3.66	-	-	-	9.07	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
1TAIL9	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2TAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
2TAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
2TAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
2TAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
2TAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
2TAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
3TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
3TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
3TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
3TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
3TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
3TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
3TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
5TAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
5TAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
5TAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
5TAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
5TAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
5TAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
5TAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
WOCTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WOCTAIL11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL32	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCTAIL33	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
AIRTAIL1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
AIRTAIL2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
AIRTAIL3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
AIRTAIL4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
AIRTAIL5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
AIRTAIL6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
AIRTAIL7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
WCFTAIL1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WCFTAIL2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFTAIL19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
1MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD7	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD8	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD9	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2MFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
2MFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
2MFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
2MFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
2MFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
2MFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
3MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
3MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
3MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
3MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
3MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
3MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
3MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
5MFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
5MFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
5MFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
5MFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
5MFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
5MFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
5MFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
WCFMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WCFMFUGD16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WCFMFUGD19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD1	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD2	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD3	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD4	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD5	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD6	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD7	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD8	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD9	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD10	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD11	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD12	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD13	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD14	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD15	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD16	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD17	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD18	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD19	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD20	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD21	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD22	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD23	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD24	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD25	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD26	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD27	VOLUME	2.1336	3.66	-	-	-	9.07	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WOCMFUGD28	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD29	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD30	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD31	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD32	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
WOCMFUGD33	VOLUME	2.1336	3.66	-	-	-	9.07	3.38
AIRMFUGD1	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
AIRMFUGD2	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
AIRMFUGD3	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
AIRMFUGD4	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
AIRMFUGD5	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
AIRMFUGD6	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
AIRMFUGD7	VOLUME	2.1336	3.66	-	-	-	6.8	3.38
WOCTEMPTRB1	POINT	3.05	30	2	30	550	-	-
WOCTEMPTRB2	POINT	3.05	30	2	30	550	-	-
RFDGMT1	POINT	1.524	4.88	0.305	35	820	-	-
RFDGMT2	POINT	1.524	12.2	0.94	5.7	529	-	-
RFDGWPDS1	POINT	1.524	3.7	0.356	41.6	644	-	-
RFDGWPDS2	POINT	1.524	3.7	0.356	41.6	644	-	-
RFDCD5	POINT	1.524	4.88	0.305	35	820	-	-
RFDACF	POINT	1.524	20.2	1.83	46.2	758	-	-
RFDCD8	POINT	1.524	6.1	0.46	15.1	795	-	-
RFDCD4EXP	POINT	1.524	6.1	0.46	15.1	795	-	-
RFDNW	POINT	1.524	6.1	0.46	15.1	795	-	-
RFDCD1EXP	POINT	1.524	6.1	0.46	15.1	795	-	-
2DRILLPEA	POINT	2.7432	13.3	0.4	10.5	614	-	-
2DRILLCP1A	POINT	2.7432	10.4	0.13	43.5	750	-	-
2DRILLCP2A	POINT	2.7432	10.4	0.13	43.5	750	-	-
2DRILLB1A	POINT	2.7432	11.9	0.279	11.7	450	-	-
2DRILLB2A	POINT	2.7432	11.9	0.279	11.7	450	-	-
2DRILLAH1A	POINT	2.7432	10.5	0.3	3.2	533	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
2DRILLAH2A	POINT	2.7432	10.5	0.3	3.2	533	-	-
2DRILLMPA	POINT	2.7432	7.2	0.3	10.8	533	-	-
2DRILLNMTEA	POINT	2.7432	6.5	0.3	47	761	-	-
2DRILLNMLTA	POINT	2.7432	6.1	0.3	15.1	795	-	-
2DRILLNMPGA	POINT	2.7432	6.1	0.3	15.1	795	-	-
2DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-
2DRILLNMHSA	VOLUME	2.7432	3.7	-	-	-	13.95	3.38
2DRILLFLARE	POINT	2.7432	10.1	0.3	6.1	1033	-	-
3DRILLPEA	POINT	2.7432	13.3	0.4	10.5	614	-	-
3DRILLCP1A	POINT	2.7432	10.4	0.13	43.5	750	-	-
3DRILLCP2A	POINT	2.7432	10.4	0.13	43.5	750	-	-
3DRILLB1A	POINT	2.7432	11.9	0.279	11.7	450	-	-
3DRILLB2A	POINT	2.7432	11.9	0.279	11.7	450	-	-
3DRILLAH1A	POINT	2.7432	10.5	0.3	3.2	533	-	-
3DRILLAH2A	POINT	2.7432	10.5	0.3	3.2	533	-	-
3DRILLMPA	POINT	2.7432	7.2	0.3	10.8	533	-	-
3DRILLNMTEA	POINT	2.7432	6.5	0.3	47	761	-	-
3DRILLNMLTA	POINT	2.7432	6.1	0.3	15.1	795	-	-
3DRILLNMPGA	POINT	2.7432	6.1	0.3	15.1	795	-	-
3DRILLNMCPA	POINT	2.74	3.7	0.3	46	689	-	-
3DRILLNMHSA	VOLUME	3.6576	3.7	-	-	-	13.95	3.38
3DRILLFLARE	POINT	2.7432	10.1	0.3	6.1	1033	-	-
2FUGD	VOLUME	2.7432	3.66	-	-	-	26.7442	3.38
3FUGD	VOLUME	2.7432	3.66	-	-	-	26.7442	3.38
2FRACENG1	POINT	2.7432	3.7	0.356	41.6	644	-	-
2FRACENG2	POINT	2.7432	3.7	0.356	41.6	644	-	-
2FRACENG3	POINT	2.7432	3.7	0.356	41.6	644	-	-
3FRACENG1	POINT	2.7432	3.7	0.356	41.6	644	-	-
3FRACENG2	POINT	2.7432	3.7	0.356	41.6	644	-	-
3FRACENG3	POINT	2.7432	3.7	0.356	41.6	644	-	-
BT3OPSLH	POINT	2.74	12.2	0.94	5.7	529	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
BT3OPSBG	POINT	2.74	6.1	0.46	15.1	795	-	-
1FACHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-
1FACNMAC	POINT	2.7432	13.3	0.4	10.5	614	-	-
1FACNMGS1	POINT	2.7432	6.1	0.46	15.1	795	-	-
1FACNMGS2	POINT	2.7432	6.5	0.2	47	761	-	-
1PIPHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-
1PIPNMAC	POINT	2.1336	13.3	0.4	10.5	614	-	-
1PIPNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-
1PIPNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-
1PIPNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-
1PIPNMGS3	POINT	2.1336	6.5	0.2	47	761	-	-
1VSMNMBR	POINT	2.7432	13.3	0.4	10.5	614	-	-
FBROPHTR	POINT	2.1336	12.2	0.94	5.7	529	-	-
FBROPNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-
FBROPNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-
ICEPDNMGS1	POINT	1.5	6.5	0.2	47	761	-	-
ICEPDNMP	POINT	1.5	13.3	0.4	10.5	614	-	-
ICERDNMGS1	POINT	1.5	6.5	0.2	47	761	-	-
ICERDNMP	POINT	1.5	13.3	0.4	10.5	614	-	-
PIPHTR	POINT	2.1336	12.2	0.94	5.7	529	-	-
PIPNMAC	POINT	2.1336	13.3	0.4	10.5	614	-	-
PIPNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-
PIPNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-
PIPNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-
PIPNMGS3	POINT	2.1336	6.5	0.2	47	761	-	-
VSMNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-
2FACHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-
2FACNMAC	POINT	2.7432	13.3	0.4	10.5	614	-	-
2FACNMGS1	POINT	2.7432	6.1	0.46	15.1	795	-	-
2FACNMGS2	POINT	2.7432	6.5	0.2	47	761	-	-
2PIPHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
2PIPNMAC	POINT	2.1336	13.3	0.4	10.5	614	-	-
2PIPNMBR	POINT	2.1336	13.3	0.4	10.5	614	-	-
2PIPNMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-
2PIPNMGS2	POINT	2.1336	6.5	0.2	47	761	-	-
2PIPNMGS3	POINT	2.1336	6.5	0.2	47	761	-	-
2VSMNMBR	POINT	2.7432	13.3	0.4	10.5	614	-	-
3FACHTR1	POINT	2.7432	12.2	0.94	5.7	529	-	-
3FACNMAC	POINT	2.7432	13.3	0.4	10.5	614	-	-
3FACNMGS1	POINT	2.7432	6.1	0.46	15.1	795	-	-
3FACNMGS2	POINT	2.7432	6.5	0.2	47	761	-	-
PLIHTR1	POINT	2.1336	12.2	0.94	5.7	529	-	-
PLINMGS1	POINT	2.1336	6.1	0.46	15.1	795	-	-
PLINMGS2	POINT	2.1336	6.5	0.2	47	761	-	-
1FACNR	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38
1FUGD	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38
1ICETAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1ICETAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1ICETAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1ICETAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
1PIPNR	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38
1VSMNR	VOLUME	2.7432	3.66	-	-	-	26.74419	3.38
2ICETAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2ICETAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2ICETAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2ICETAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3ICETAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3ICETAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3ICETAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
3ICETAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
FBROPNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
FBROPNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
FBROPNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
FBROPNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
ICEPDNRHCE	VOLUME	2.1336	3.66	-	-	-	37.21	3.38
ICEPDNRHDD1	VOLUME	2.1336	3.66	-	-	-	19.76744	3.38
ICEPDNRHDD2	VOLUME	2.1336	3.66	-	-	-	19.76744	3.38
ICEPDNRIOS1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38
ICEPDNRIOS2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38
ICEPDNRIOS3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRIOS4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRIOS5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRIOS6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRIOS7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
ICEPDNRIOS27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRIOS43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38
ICEPDNROS2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38
ICEPDNROS3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNROS4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNROS5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNROS6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNROS7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
ICEPDNROS15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNROS43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP1	VOLUME	2.1336	3.66	-	-	-	37.21	3.38
ICEPDNRPIP2	VOLUME	2.1336	3.66	-	-	-	25.58	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
ICEPDNRPIP3	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRPIP4	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRPIP5	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRPIP6	VOLUME	2.1336	3.66	-	-	-	32.56	3.38
ICEPDNRPIP7	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP8	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP9	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP10	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP11	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP12	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP13	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP14	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP15	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP16	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP17	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP18	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP19	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP20	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP21	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP22	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP23	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP24	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP25	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP26	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP27	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP28	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP29	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP30	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP31	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP32	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP33	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
ICEPDNRPIP34	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP35	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP36	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP37	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP38	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP39	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP40	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP41	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP42	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICEPDNRPIP43	VOLUME	2.1336	3.66	-	-	-	8.860465	3.38
ICERDNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
ICERDNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
ICERDNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
ICERDNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
PIPNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
PIPNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
PIPNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
PIPNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
STCKPL	VOLUME	1.52	3.66	-	-	-	46.51163	3.38
VSMNR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
VSMNR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
VSMNR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
VSMNR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFFUGD	VOLUME	3.05	3.66	-	-	-	37.2093	3.38
WCFICETAIL1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFICETAIL2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFICETAIL3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
WCFICETAIL4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
PLINR1	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
PLINR2	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
PLINR3	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
PLINR4	VOLUME	2.1336	3.66	-	-	-	14.17674	3.38
2FACNR	VOLUME	2.7432	3.66	-	-	-	26.7442	3.38
2PIPNR	VOLUME	2.7432	3.66	-	-	-	26.7442	3.38
2VSMNR	VOLUME	2.7432	3.66	-	-	-	26.7442	3.38
3FACNR	VOLUME	2.7432	3.66	-	-	-	26.7442	3.38
ALPAIR1	AREAPOLY	2.9	50.8	-	-	-	-	23.63
ALPAIR2	AREAPOLY	2.9	152.4	-	-	-	-	23.63
ALPAIR3	AREAPOLY	2.9	254	-	-	-	-	23.63

Table I.1-12. Alternative E Near-field Model Scenario 4 Emissions Rates

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
BT1OPSLH1	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT1OPSLH2	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT1OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT1OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT1WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT1WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT1WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT2OPSLH1	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT2OPSLH2	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT2OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT2OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT2WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT2WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT2WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT3OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT3WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT3WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
BT3WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
BT5OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT5OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
BT5OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.18E-02	3.27E-03	3.27E-03	0.00E+00	0.00E+00	0.00E+00	4380
BT5WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	288
BT5WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	288
BT5WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	288
WLWTG03A	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	8760
WLWTG03B	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	8760
WLWTG01A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG01B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG02A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG02B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	8760
WLWTG04	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	8760
WLWTG05	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	8760
WLWGL05	6.48E-01	1.19E+00	6.76E-02	3.70E-02	3.70E-02	2.11E-03	1.22E-03	1.22E-03	6.99E-05	500
WLWHG03	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8760
WLWHG04	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8760
WLWHG01	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	8760
WLWHG02	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	8760
WLWHG06	3.84E-01	4.57E-01	4.57E-01	3.47E-02	3.47E-02	3.47E-02	3.09E-02	3.09E-02	3.09E-02	8760
WLWFGLPE	4.15E-02	4.94E-02	4.94E-02	3.76E-03	3.76E-03	3.76E-03	3.34E-03	3.34E-03	3.34E-03	10
WLWFGHPE	4.15E-02	4.94E-02	4.94E-02	3.76E-03	3.76E-03	3.76E-03	3.34E-03	3.34E-03	3.34E-03	10
WCFOPSFUGD	0.00E+00	0.00E+00	0.00E+00	3.45E-02	5.17E-03	5.17E-03	0.00E+00	0.00E+00	0.00E+00	4380
WOCPWRGEN1	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WOCPWRGEN2	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WOCPWRGEN3	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	4380
WLWIG01	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	7300
WLWIG02	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	7300
WLWHL05	5.93E-03	2.37E-02	2.37E-02	2.82E-03	2.53E-03	2.53E-03	2.54E-04	2.54E-04	2.54E-04	8760
WILLOWAIR1	1.06E-07	2.91E-08	2.91E-08	1.20E-09	1.20E-09	1.20E-09	4.52E-09	4.52E-09	4.52E-09	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WILLOWAIR2	1.06E-07	2.91E-08	2.91E-08	1.20E-09	1.20E-09	1.20E-09	4.52E-09	4.52E-09	4.52E-09	8760
WILLOWAIR3	1.06E-07	2.91E-08	2.91E-08	1.20E-09	1.20E-09	1.20E-09	4.52E-09	4.52E-09	4.52E-09	8760
WOCOPSFUGD	0.00E+00	0.00E+00	0.00E+00	1.11E-01	1.66E-02	1.66E-02	0.00E+00	0.00E+00	0.00E+00	4380
WCFPCE1	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE2	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE3	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE4	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE5	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE6	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFPCE7	4.48E-07	2.05E-06	2.05E-06	1.54E-07	1.52E-07	1.52E-07	2.65E-09	2.65E-09	2.65E-09	8760
WCFSCE1	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE2	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE3	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE4	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE5	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE6	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFSCE7	3.32E-07	4.16E-07	4.16E-07	3.18E-08	3.18E-08	3.18E-08	2.83E-08	2.83E-08	2.83E-08	8760
WCFNRE1	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE2	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE3	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE4	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE5	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE6	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WCFNRE7	1.98E-06	9.17E-06	9.17E-06	6.51E-07	6.51E-07	6.51E-07	3.21E-09	3.21E-09	3.21E-09	8760
WLW2GEN	1.19E-01	5.87E-01	6.08E-01	3.46E-02	3.46E-02	3.53E-02	3.51E-04	3.51E-04	3.51E-04	8760
BT3NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	876
BT3WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	288
3WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
BT1NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	876
BT1WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	288
1WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
BT2NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	876
BT2WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	288
2WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
BT5NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	876
BT5WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	288
5WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	288
WOCPCE	7.88E-08	3.56E-07	3.56E-07	2.83E-08	2.75E-08	2.75E-08	7.86E-10	7.86E-10	7.86E-10	8760
WOCSCE	6.12E-08	1.07E-07	1.07E-07	8.44E-09	8.44E-09	8.44E-09	7.50E-09	7.50E-09	7.50E-09	8760
WOCNRE	5.55E-07	2.47E-06	1.86E-06	2.08E-07	1.99E-07	1.35E-07	7.98E-09	7.98E-09	1.46E-09	8760
1TAIL1	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL2	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL3	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL4	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL5	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL6	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL7	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL8	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
1TAIL9	1.07E-05	1.04E-05	1.04E-05	1.35E-06	4.91E-07	4.91E-07	5.54E-08	5.54E-08	5.54E-08	8760
2TAIL1	9.54E-06	1.44E-05	2.37E-05	2.21E-06	6.95E-07	1.13E-06	9.01E-08	9.01E-08	1.40E-07	8760
2TAIL2	9.54E-06	1.44E-05	2.37E-05	2.21E-06	6.95E-07	1.13E-06	9.01E-08	9.01E-08	1.40E-07	8760
2TAIL3	9.54E-06	1.44E-05	2.37E-05	2.21E-06	6.95E-07	1.13E-06	9.01E-08	9.01E-08	1.40E-07	8760
2TAIL4	9.54E-06	1.44E-05	2.37E-05	2.21E-06	6.95E-07	1.13E-06	9.01E-08	9.01E-08	1.40E-07	8760
2TAIL5	9.54E-06	1.44E-05	2.37E-05	2.21E-06	6.95E-07	1.13E-06	9.01E-08	9.01E-08	1.40E-07	8760
2TAIL6	9.54E-06	1.44E-05	2.37E-05	2.21E-06	6.95E-07	1.13E-06	9.01E-08	9.01E-08	1.40E-07	8760
3TAIL1	8.17E-06	1.23E-05	2.03E-05	1.89E-06	5.96E-07	9.71E-07	7.72E-08	7.72E-08	1.20E-07	8760
3TAIL2	8.17E-06	1.23E-05	2.03E-05	1.89E-06	5.96E-07	9.71E-07	7.72E-08	7.72E-08	1.20E-07	8760
3TAIL3	8.17E-06	1.23E-05	2.03E-05	1.89E-06	5.96E-07	9.71E-07	7.72E-08	7.72E-08	1.20E-07	8760
3TAIL4	8.17E-06	1.23E-05	2.03E-05	1.89E-06	5.96E-07	9.71E-07	7.72E-08	7.72E-08	1.20E-07	8760
3TAIL5	8.17E-06	1.23E-05	2.03E-05	1.89E-06	5.96E-07	9.71E-07	7.72E-08	7.72E-08	1.20E-07	8760
3TAIL6	8.17E-06	1.23E-05	2.03E-05	1.89E-06	5.96E-07	9.71E-07	7.72E-08	7.72E-08	1.20E-07	8760
3TAIL7	8.17E-06	1.23E-05	2.03E-05	1.89E-06	5.96E-07	9.71E-07	7.72E-08	7.72E-08	1.20E-07	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
5TAIL1	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
5TAIL2	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
5TAIL3	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
5TAIL4	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
5TAIL5	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
5TAIL6	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
5TAIL7	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	8760
WOCTAIL1	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL2	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL3	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL4	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL5	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL6	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL7	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL8	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL9	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL10	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL11	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL12	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL13	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL14	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL15	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL16	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL17	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL18	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL19	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL20	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL21	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL22	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL23	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL24	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCTAIL25	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL26	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL27	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL28	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL29	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL30	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL31	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL32	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WOCTAIL33	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
AIRTAIL1	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
AIRTAIL2	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
AIRTAIL3	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
AIRTAIL4	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
AIRTAIL5	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
AIRTAIL6	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
AIRTAIL7	8.65E-06	8.41E-06	8.41E-06	1.09E-06	3.98E-07	3.98E-07	4.49E-08	4.49E-08	4.49E-08	8760
WCFTAIL1	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL2	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL3	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL4	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL5	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL6	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL7	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL8	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL9	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL10	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL11	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL12	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL13	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL14	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL15	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WCFTAIL16	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL17	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL18	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
WCFTAIL19	1.06E-05	1.03E-05	1.03E-05	1.33E-06	4.86E-07	4.86E-07	5.48E-08	5.48E-08	5.48E-08	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD7	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD8	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD9	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	3.45E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.45E-03	3.45E-04	6.19E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	5.82E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	5.82E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	5.82E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	5.82E-04	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	5.82E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.08E-03	3.08E-04	5.43E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	4.99E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	4.99E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	4.99E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD5	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	4.99E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD6	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	4.99E-04	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD7	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD1	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD2	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD3	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD4	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD5	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
5MFUGD6	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD7	0.00E+00	0.00E+00	0.00E+00	2.64E-03	2.64E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD5	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD6	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD7	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD8	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD9	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD10	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD11	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD12	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD13	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD14	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD15	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD16	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD17	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD18	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD19	0.00E+00	0.00E+00	0.00E+00	3.41E-03	3.41E-04	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD1	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD2	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD3	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD4	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD5	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD6	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD7	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD8	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD9	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD10	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCMFUGD11	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD12	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD13	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD14	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD15	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD16	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD17	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD18	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD19	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD20	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD21	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD22	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD23	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD24	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD25	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD26	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD27	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD28	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD29	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD30	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD31	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD32	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD33	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD1	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD2	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD3	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD4	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD5	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD6	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD7	0.00E+00	0.00E+00	0.00E+00	2.79E-03	2.79E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	4380
WOCTEMPTRB1	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
WOCTEMPTRB2	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	8760
RFDGMT1	3.50E-01	3.50E-01	2.69E+00	3.50E-01	3.50E-01	9.50E-02	3.80E-02	3.80E-02	1.96E-02	8760
RFDGMT2	4.06E+00	7.21E+00	7.34E-01	4.06E+00	6.44E-01	7.71E-02	1.40E-02	1.40E-02	6.33E-03	8760
RFDGWPDS1	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	8760
RFDGWPDS2	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	8760
RFDCD5	1.82E+00	2.15E+00	2.15E+00	1.27E-01	1.27E-01	1.27E-01	2.70E-01	2.70E-01	2.70E-01	8760
RFDACF	7.07E+00	4.74E+01	3.90E+00	5.69E-01	5.69E-01	4.68E-02	1.77E+01	1.77E+01	1.45E+00	8760
RFDCD8	1.30E+00	1.56E+00	1.28E-01	1.78E-01	1.06E-01	8.70E-03	5.25E-02	5.25E-02	4.32E-03	8760
RFDCD4EXP	1.08E+00	1.96E+00	1.61E-01	1.63E-01	1.25E-01	1.03E-02	2.97E-02	2.97E-02	2.44E-03	8760
RFDNW	1.30E-01	1.56E-01	1.28E-02	1.78E-02	1.06E-02	8.70E-04	5.25E-03	5.25E-03	4.32E-04	8760
RFDCD1EXP	9.33E-01	6.65E-01	5.47E-02	4.97E-02	4.73E-02	3.89E-03	2.94E-03	2.94E-03	2.42E-04	8760
2DRILLPEA	1.07E+00	2.05E-01	2.05E-01	9.17E-03	9.17E-03	9.17E-03	5.64E-04	5.64E-04	5.64E-04	8760
2DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
2DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
2DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
2DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
2DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760
2DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
2DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
2DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
2DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
2DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
2DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
2DRILLNMHSA	2.15E-02	8.59E-02	8.59E-02	1.02E-02	9.15E-03	9.15E-03	9.15E-04	9.15E-04	9.15E-04	8760
2DRILLFLARE	1.08E+00	1.98E-01	9.38E-02	4.79E-05	4.79E-05	2.27E-05	1.16E-02	1.16E-02	5.47E-03	1728
3DRILLPEA	1.07E+00	2.05E-01	2.05E-01	9.17E-03	9.17E-03	9.17E-03	5.64E-04	5.64E-04	5.64E-04	8760
3DRILLCP1A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
3DRILLCP2A	1.75E-01	2.00E-02	1.14E-03	1.00E-03	1.00E-03	5.71E-05	3.31E-04	3.31E-04	1.89E-05	500
3DRILLB1A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
3DRILLB2A	1.53E-02	6.12E-02	6.12E-02	7.28E-03	6.51E-03	6.51E-03	6.51E-04	6.51E-04	6.51E-04	8760
3DRILLAH1A	1.83E-02	7.30E-02	7.30E-02	8.69E-03	7.78E-03	7.78E-03	7.78E-04	7.78E-04	7.78E-04	8760

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
3DRILLAH2A	9.13E-03	3.65E-02	3.65E-02	4.35E-03	3.89E-03	3.89E-03	3.89E-04	3.89E-04	3.89E-04	8760
3DRILLMPA	1.37E-02	5.48E-02	5.48E-02	6.52E-03	5.83E-03	5.83E-03	5.83E-04	5.83E-04	5.83E-04	8760
3DRILLNMTEA	4.91E-01	5.61E-01	5.61E-01	2.81E-02	2.81E-02	2.81E-02	1.04E-03	1.04E-03	1.04E-03	8760
3DRILLNMLTA	7.22E-02	8.20E-02	8.20E-02	8.75E-03	8.75E-03	8.75E-03	7.24E-05	7.24E-05	7.24E-05	8760
3DRILLNMPGA	3.51E-02	3.30E-02	3.30E-02	2.81E-03	2.81E-03	2.81E-03	4.64E-05	4.64E-05	4.64E-05	8760
3DRILLNMCPA	5.97E-02	5.61E-02	5.61E-02	4.77E-03	4.77E-03	4.77E-03	7.90E-05	7.90E-05	7.90E-05	8760
3DRILLNMHSA	2.15E-02	8.59E-02	8.59E-02	1.02E-02	9.15E-03	9.15E-03	9.15E-04	9.15E-04	9.15E-04	8760
3DRILLFLARE	1.08E+00	1.98E-01	3.91E-02	4.79E-05	4.79E-05	9.44E-06	1.16E-02	1.16E-02	2.28E-03	1728
2FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380
3FUGD	0.00E+00	0.00E+00	0.00E+00	2.88E-02	4.32E-03	4.32E-03	0.00E+00	0.00E+00	0.00E+00	4380
2FRACENG1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1920
2FRACENG2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1920
2FRACENG3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1920
3FRACENG1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1920
3FRACENG2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1920
3FRACENG3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1920
BT3OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	8760
BT3OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	500
1FACHTR1	2.65E-02	1.06E-01	2.75E-02	1.26E-02	1.13E-02	2.93E-03	1.13E-03	1.13E-03	2.93E-04	378.56
1FACNMAC	1.17E-02	1.78E-02	1.15E-03	1.53E-03	1.48E-03	9.62E-05	4.42E-05	4.42E-05	2.87E-06	94.64
1FACNMGS1	1.60E-02	5.78E-02	1.50E-02	3.46E-03	3.35E-03	8.69E-04	6.82E-05	6.82E-05	1.77E-05	378.56
1FACNMGS2	2.59E-02	4.89E-02	1.27E-02	3.84E-03	3.73E-03	9.67E-04	4.18E-05	4.18E-05	1.08E-05	378.56
1PIPHTR1	3.51E-03	1.40E-02	5.65E-03	1.67E-03	1.49E-03	6.02E-04	1.49E-04	1.49E-04	6.02E-05	882
1PIPNMAC	1.19E-02	3.77E-02	1.14E-02	1.76E-03	1.70E-03	5.15E-04	6.37E-05	6.37E-05	1.93E-05	661.5
1PIPNMBR	6.35E-03	2.57E-02	7.77E-03	1.36E-03	1.32E-03	3.97E-04	3.18E-05	3.18E-05	9.60E-06	661.5
1PIPNMGS1	5.08E-03	1.24E-02	4.99E-03	7.82E-04	7.59E-04	3.06E-04	1.06E-05	1.06E-05	4.29E-06	882
1PIPNMGS2	2.75E-03	2.84E-03	1.14E-03	2.56E-04	2.49E-04	1.00E-04	2.44E-06	2.44E-06	9.84E-07	882
1PIPNMGS3	5.14E-03	9.69E-03	3.90E-03	7.62E-04	7.39E-04	2.98E-04	8.29E-06	8.29E-06	3.34E-06	882
1VSMNMBR	7.12E-03	2.99E-02	9.46E-03	1.48E-03	1.44E-03	4.55E-04	3.74E-05	3.74E-05	1.18E-05	693
FBROPHTR	1.95E-02	7.79E-02	5.38E-02	9.27E-03	8.30E-03	2.15E-03	8.30E-04	8.30E-04	5.73E-04	1512
FBROPNMGS1	2.35E-02	5.73E-02	1.98E-02	3.62E-03	3.51E-03	9.09E-04	4.93E-05	4.93E-05	1.70E-05	756

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
FBROPNMGS2	1.90E-02	3.59E-02	2.48E-02	2.82E-03	2.74E-03	7.08E-04	3.07E-05	3.07E-05	2.12E-05	1512
ICEPDNMGS1	6.09E-03	6.91E-02	3.96E-03	9.03E-04	8.76E-04	5.02E-05	9.82E-06	9.82E-06	5.63E-07	1858.032
ICEPDNMP	1.52E-02	3.43E-01	1.96E-02	2.29E-03	2.22E-03	1.27E-04	6.60E-05	6.60E-05	3.78E-06	1858.032
ICERDNMGS1	4.09E-02	7.30E-02	2.39E-02	6.06E-03	5.88E-03	1.92E-03	6.59E-05	6.59E-05	2.16E-05	464.7698
ICERDNMP	1.02E-01	3.62E-01	1.18E-01	1.54E-02	1.49E-02	4.87E-03	4.43E-04	4.43E-04	1.45E-04	464.7698
PIPHTR	6.19E-02	2.47E-01	9.97E-02	2.94E-02	2.64E-02	1.06E-02	2.64E-03	2.64E-03	1.06E-03	882
PIPNMAC	2.09E-01	6.64E-01	2.01E-01	3.10E-02	3.00E-02	9.07E-03	1.12E-03	1.12E-03	3.39E-04	661.5
PIPNMBR	1.12E-01	4.53E-01	1.37E-01	2.39E-02	2.32E-02	7.00E-03	5.60E-04	5.60E-04	1.69E-04	661.5
PIPNMGS1	8.96E-02	2.19E-01	8.80E-02	1.38E-02	1.34E-02	5.39E-03	1.88E-04	1.88E-04	7.56E-05	882
PIPNMGS2	4.84E-02	5.00E-02	2.02E-02	4.52E-03	4.38E-03	1.76E-03	4.30E-05	4.30E-05	1.73E-05	882
PIPNMGS3	9.06E-02	1.71E-01	6.88E-02	1.34E-02	1.30E-02	5.25E-03	1.46E-04	1.46E-04	5.89E-05	882
VSMNMBR	4.53E-02	1.90E-01	6.02E-02	9.43E-03	9.14E-03	2.89E-03	2.38E-04	2.38E-04	7.53E-05	693
2FACHTR1	2.65E-02	1.06E-01	5.30E-02	1.26E-02	1.13E-02	5.64E-03	1.13E-03	1.13E-03	5.64E-04	378.56
2FACNMAC	4.21E-03	6.42E-03	2.21E-03	5.53E-04	5.36E-04	1.85E-04	1.60E-05	1.60E-05	5.51E-06	94.64
2FACNMGS1	5.79E-03	2.09E-02	2.88E-02	1.25E-03	1.21E-03	1.67E-03	2.46E-05	2.46E-05	3.40E-05	378.56
2FACNMGS2	9.36E-03	1.76E-02	2.44E-02	1.39E-03	1.35E-03	1.86E-03	1.51E-05	1.51E-05	2.08E-05	378.56
2PIPHTR1	6.45E-03	2.58E-02	1.04E-02	3.07E-03	2.75E-03	1.11E-03	2.75E-04	2.75E-04	1.11E-04	882
2PIPNMAC	8.72E-03	2.77E-02	2.09E-02	1.29E-03	1.25E-03	9.46E-04	4.68E-05	4.68E-05	3.54E-05	661.5
2PIPNMBR	4.67E-03	1.89E-02	1.43E-02	9.96E-04	9.66E-04	7.30E-04	2.34E-05	2.34E-05	1.76E-05	661.5
2PIPNMGS1	3.74E-03	9.11E-03	9.17E-03	5.75E-04	5.58E-04	5.62E-04	7.83E-06	7.83E-06	7.88E-06	882
2PIPNMGS2	2.02E-03	2.09E-03	2.10E-03	1.88E-04	1.83E-04	1.84E-04	1.79E-06	1.79E-06	1.81E-06	882
2PIPNMGS3	3.78E-03	7.12E-03	7.17E-03	5.60E-04	5.43E-04	5.47E-04	6.09E-06	6.09E-06	6.13E-06	882
2VSMNMBR	4.58E-03	1.92E-02	1.74E-02	9.53E-04	9.24E-04	8.36E-04	2.40E-05	2.40E-05	2.17E-05	693
3FACHTR1	2.65E-02	1.06E-01	5.30E-02	1.26E-02	1.13E-02	5.64E-03	1.13E-03	1.13E-03	5.64E-04	378.56
3FACNMAC	1.17E-02	1.78E-02	2.21E-03	1.53E-03	1.48E-03	1.85E-04	4.42E-05	4.42E-05	5.51E-06	94.64
3FACNMGS1	5.79E-03	2.09E-02	2.88E-02	1.25E-03	1.21E-03	1.67E-03	2.46E-05	2.46E-05	3.40E-05	378.56
3FACNMGS2	9.36E-03	1.76E-02	2.44E-02	1.39E-03	1.35E-03	1.86E-03	1.51E-05	1.51E-05	2.08E-05	378.56
PLIHTR1	2.92E-03	1.17E-02	4.03E-03	1.39E-03	1.24E-03	4.30E-04	1.24E-04	1.24E-04	4.30E-05	756
PLINMGS1	1.12E-03	2.72E-03	2.97E-03	1.72E-04	1.67E-04	1.82E-04	2.34E-06	2.34E-06	2.55E-06	756
PLINMGS2	9.03E-04	1.70E-03	1.86E-03	1.34E-04	1.30E-04	1.42E-04	1.46E-06	1.46E-06	1.59E-06	756
1FACNR	5.85E-02	8.92E-02	4.91E-02	8.08E-03	7.83E-03	4.54E-03	1.43E-04	1.43E-04	7.69E-05	VARIES

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
1FUGD	0.00E+00	0.00E+00	0.00E+00	3.12E-02	4.68E-03	4.68E-03	0.00E+00	0.00E+00	0.00E+00	4380
1ICETAIL1	7.64E-06	2.10E-05	2.10E-05	2.53E-06	1.28E-06	1.28E-06	9.31E-08	9.31E-08	9.31E-08	8760
1ICETAIL2	7.64E-06	2.10E-05	2.10E-05	2.53E-06	1.28E-06	1.28E-06	9.31E-08	9.31E-08	9.31E-08	8760
1ICETAIL3	7.64E-06	2.10E-05	2.10E-05	2.53E-06	1.28E-06	1.28E-06	9.31E-08	9.31E-08	9.31E-08	8760
1ICETAIL4	7.64E-06	2.10E-05	2.10E-05	2.53E-06	1.28E-06	1.28E-06	9.31E-08	9.31E-08	9.31E-08	8760
1PIPNR	8.10E-03	2.90E-02	2.10E-02	1.24E-03	1.20E-03	8.69E-04	9.20E-05	9.20E-05	6.57E-05	VARIES
1VSMNR	6.81E-03	1.81E-02	1.69E-02	9.64E-04	9.35E-04	9.24E-04	3.53E-05	3.53E-05	3.13E-05	VARIES
2ICETAIL1	6.33E-06	1.74E-05	1.74E-05	2.09E-06	1.06E-06	1.06E-06	7.71E-08	7.71E-08	7.71E-08	8760
2ICETAIL2	6.33E-06	1.74E-05	1.74E-05	2.09E-06	1.06E-06	1.06E-06	7.71E-08	7.71E-08	7.71E-08	8760
2ICETAIL3	6.33E-06	1.74E-05	1.74E-05	2.09E-06	1.06E-06	1.06E-06	7.71E-08	7.71E-08	7.71E-08	8760
2ICETAIL4	6.33E-06	1.74E-05	1.74E-05	2.09E-06	1.06E-06	1.06E-06	7.71E-08	7.71E-08	7.71E-08	8760
3ICETAIL1	2.14E-05	2.69E-05	2.69E-05	2.54E-06	1.51E-06	1.51E-06	8.65E-08	8.65E-08	8.65E-08	8760
3ICETAIL2	2.14E-05	2.69E-05	2.69E-05	2.54E-06	1.51E-06	1.51E-06	8.65E-08	8.65E-08	8.65E-08	8760
3ICETAIL3	2.14E-05	2.69E-05	2.69E-05	2.54E-06	1.51E-06	1.51E-06	8.65E-08	8.65E-08	8.65E-08	8760
3ICETAIL4	2.14E-05	2.69E-05	2.69E-05	2.54E-06	1.51E-06	1.51E-06	8.65E-08	8.65E-08	8.65E-08	8760
FBROPNR1	2.28E-06	3.78E-06	2.84E-06	3.00E-07	2.91E-07	1.00E-07	7.91E-09	7.91E-09	4.66E-09	VARIES
FBROPNR2	2.28E-06	3.78E-06	2.84E-06	3.00E-07	2.91E-07	1.00E-07	7.91E-09	7.91E-09	4.66E-09	VARIES
FBROPNR3	2.28E-06	3.78E-06	2.84E-06	3.00E-07	2.91E-07	1.00E-07	7.91E-09	7.91E-09	4.66E-09	VARIES
FBROPNR4	2.28E-06	3.78E-06	2.84E-06	3.00E-07	2.91E-07	1.00E-07	7.91E-09	7.91E-09	4.66E-09	VARIES
ICEPDNRHCE	5.29E-04	1.21E-02	1.12E-02	6.89E-05	6.68E-05	6.15E-05	2.41E-06	2.41E-06	2.22E-06	2492.952
ICEPDNRHDD1	2.02E-04	4.63E-03	4.26E-03	2.63E-05	2.55E-05	2.35E-05	9.19E-07	9.19E-07	8.46E-07	2492.952
ICEPDNRHDD2	1.79E-04	4.11E-03	3.78E-03	2.33E-05	2.26E-05	2.08E-05	8.16E-07	8.16E-07	7.51E-07	2492.952
ICEPDNRIOS1	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS2	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS3	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS4	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS5	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS6	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS7	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS8	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS9	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRIOS10	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS11	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS12	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS13	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS14	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS15	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS16	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS17	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS18	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS19	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS20	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS21	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS22	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS23	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS24	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS25	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS26	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS27	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS28	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS29	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS30	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS31	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS32	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS33	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS34	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS35	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS36	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS37	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS38	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS39	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS40	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRIOS41	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS42	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNRIOS43	4.08E-05	9.35E-04	8.61E-04	5.31E-06	5.15E-06	4.74E-06	1.86E-07	1.86E-07	1.71E-07	2492.952
ICEPDNROS1	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS2	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS3	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS4	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS5	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS6	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS7	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS8	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS9	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS10	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS11	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS12	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS13	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS14	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS15	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS16	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS17	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS18	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS19	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS20	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS21	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS22	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS23	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS24	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS25	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS26	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS27	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS28	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNROS29	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS30	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS31	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS32	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS33	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS34	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS35	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS36	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS37	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS38	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS39	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS40	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS41	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS42	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNROS43	7.08E-06	1.62E-04	1.49E-04	9.22E-07	8.94E-07	8.23E-07	3.22E-08	3.22E-08	2.97E-08	2492.952
ICEPDNRPIP1	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP2	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP3	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP4	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP5	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP6	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP7	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP8	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP9	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP10	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP11	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP12	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP13	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP14	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP15	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP16	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
ICEPDNRPIP17	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP18	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP19	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP20	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP21	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP22	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP23	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP24	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP25	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP26	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP27	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP28	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP29	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP30	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP31	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP32	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP33	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP34	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP35	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP36	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP37	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP38	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP39	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP40	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP41	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP42	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICEPDNRPIP43	4.58E-05	1.05E-03	9.67E-04	5.96E-06	5.79E-06	5.33E-06	2.09E-07	2.09E-07	1.92E-07	2492.952
ICERDNR1	4.53E-05	1.63E-04	1.35E-04	5.90E-06	5.72E-06	4.73E-06	2.06E-07	2.06E-07	1.70E-07	576.8895
ICERDNR2	4.53E-05	1.63E-04	1.35E-04	5.90E-06	5.72E-06	4.73E-06	2.06E-07	2.06E-07	1.70E-07	576.8895
ICERDNR3	4.53E-05	1.63E-04	1.35E-04	5.90E-06	5.72E-06	4.73E-06	2.06E-07	2.06E-07	1.70E-07	576.8895
ICERDNR4	4.53E-05	1.63E-04	1.35E-04	5.90E-06	5.72E-06	4.73E-06	2.06E-07	2.06E-07	1.70E-07	576.8895

Source ID	Modeled Emission Rates (g/s)									Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	
PIPNR1	1.56E-05	5.58E-05	4.04E-05	2.39E-06	2.32E-06	1.67E-06	1.77E-07	1.77E-07	1.26E-07	VARIES
PIPNR2	1.56E-05	5.58E-05	4.04E-05	2.39E-06	2.32E-06	1.67E-06	1.77E-07	1.77E-07	1.26E-07	VARIES
PIPNR3	1.56E-05	5.58E-05	4.04E-05	2.39E-06	2.32E-06	1.67E-06	1.77E-07	1.77E-07	1.26E-07	VARIES
PIPNR4	1.56E-05	5.58E-05	4.04E-05	2.39E-06	2.32E-06	1.67E-06	1.77E-07	1.77E-07	1.26E-07	VARIES
STCKPL	0.00E+00	0.00E+00	0.00E+00	5.09E-01	7.70E-02	7.70E-02	0.00E+00	0.00E+00	0.00E+00	0
VSMNR1	4.73E-06	1.26E-05	1.17E-05	6.70E-07	6.50E-07	6.42E-07	2.45E-08	2.45E-08	2.18E-08	VARIES
VSMNR2	4.73E-06	1.26E-05	1.17E-05	6.70E-07	6.50E-07	6.42E-07	2.45E-08	2.45E-08	2.18E-08	VARIES
VSMNR3	4.73E-06	1.26E-05	1.17E-05	6.70E-07	6.50E-07	6.42E-07	2.45E-08	2.45E-08	2.18E-08	VARIES
VSMNR4	4.73E-06	1.26E-05	1.17E-05	6.70E-07	6.50E-07	6.42E-07	2.45E-08	2.45E-08	2.18E-08	VARIES
WCFFUGD	0.00E+00	0.00E+00	0.00E+00	3.45E-02	5.17E-03	5.17E-03	0.00E+00	0.00E+00	0.00E+00	4380
WCFICETAIL1	2.75E-06	7.57E-06	7.57E-06	9.09E-07	4.60E-07	4.60E-07	3.35E-08	3.35E-08	3.35E-08	8760
WCFICETAIL2	2.75E-06	7.57E-06	7.57E-06	9.09E-07	4.60E-07	4.60E-07	3.35E-08	3.35E-08	3.35E-08	8760
WCFICETAIL3	2.75E-06	7.57E-06	7.57E-06	9.09E-07	4.60E-07	4.60E-07	3.35E-08	3.35E-08	3.35E-08	8760
WCFICETAIL4	2.75E-06	7.57E-06	7.57E-06	9.09E-07	4.60E-07	4.60E-07	3.35E-08	3.35E-08	3.35E-08	8760
PLINR1	7.87E-02	5.29E-03	3.66E-03	1.09E-02	1.06E-02	3.03E-04	2.16E-04	2.16E-04	5.79E-06	378
PLINR2	7.87E-02	5.29E-03	3.66E-03	1.09E-02	1.06E-02	3.03E-04	2.16E-04	2.16E-04	5.79E-06	378
PLINR3	7.87E-02	5.29E-03	3.66E-03	1.09E-02	1.06E-02	3.03E-04	2.16E-04	2.16E-04	5.79E-06	378
PLINR4	7.87E-02	5.29E-03	3.66E-03	1.09E-02	1.06E-02	3.03E-04	2.16E-04	2.16E-04	5.79E-06	567
2FACNR	5.85E-02	8.92E-02	9.43E-02	8.08E-03	7.83E-03	8.72E-03	1.43E-04	1.43E-04	1.48E-04	VARIES
2PIPNR	1.49E-02	5.33E-02	3.85E-02	2.28E-03	2.21E-03	1.60E-03	1.69E-04	1.69E-04	1.21E-04	VARIES
2VSMNR	1.25E-02	3.33E-02	3.10E-02	1.77E-03	1.72E-03	1.70E-03	6.49E-05	6.49E-05	5.75E-05	VARIES
3FACNR	5.85E-02	8.92E-02	9.43E-02	8.08E-03	7.83E-03	8.72E-03	1.43E-04	1.43E-04	1.48E-04	VARIES
ALPAIR1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
ALPAIR2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760
ALPAIR3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8760

I.1.5 Scenario 5: Routine Operations

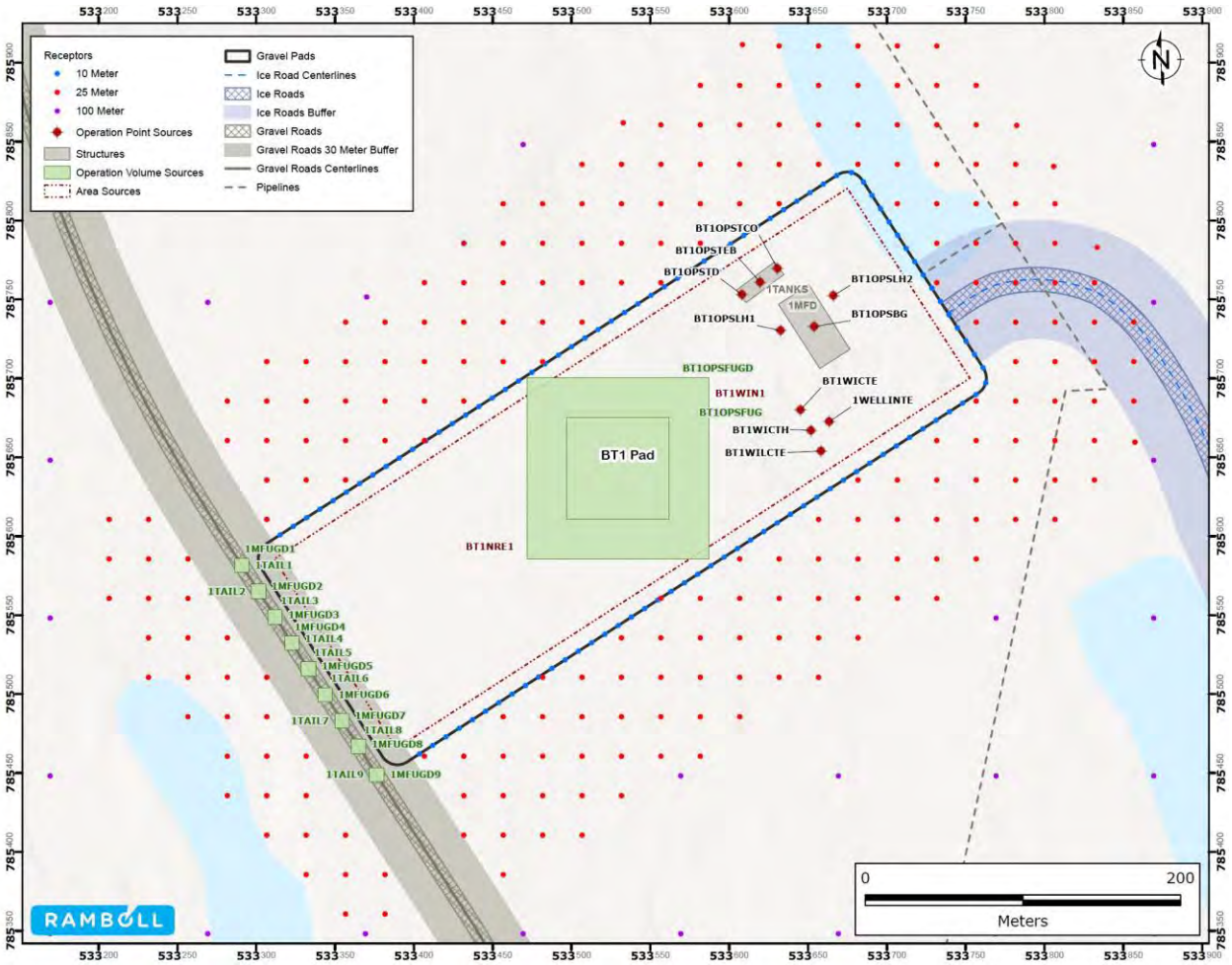


Figure I.1-16. Alternative E Near-field Model Scenario 5 Source Locations at BT1.

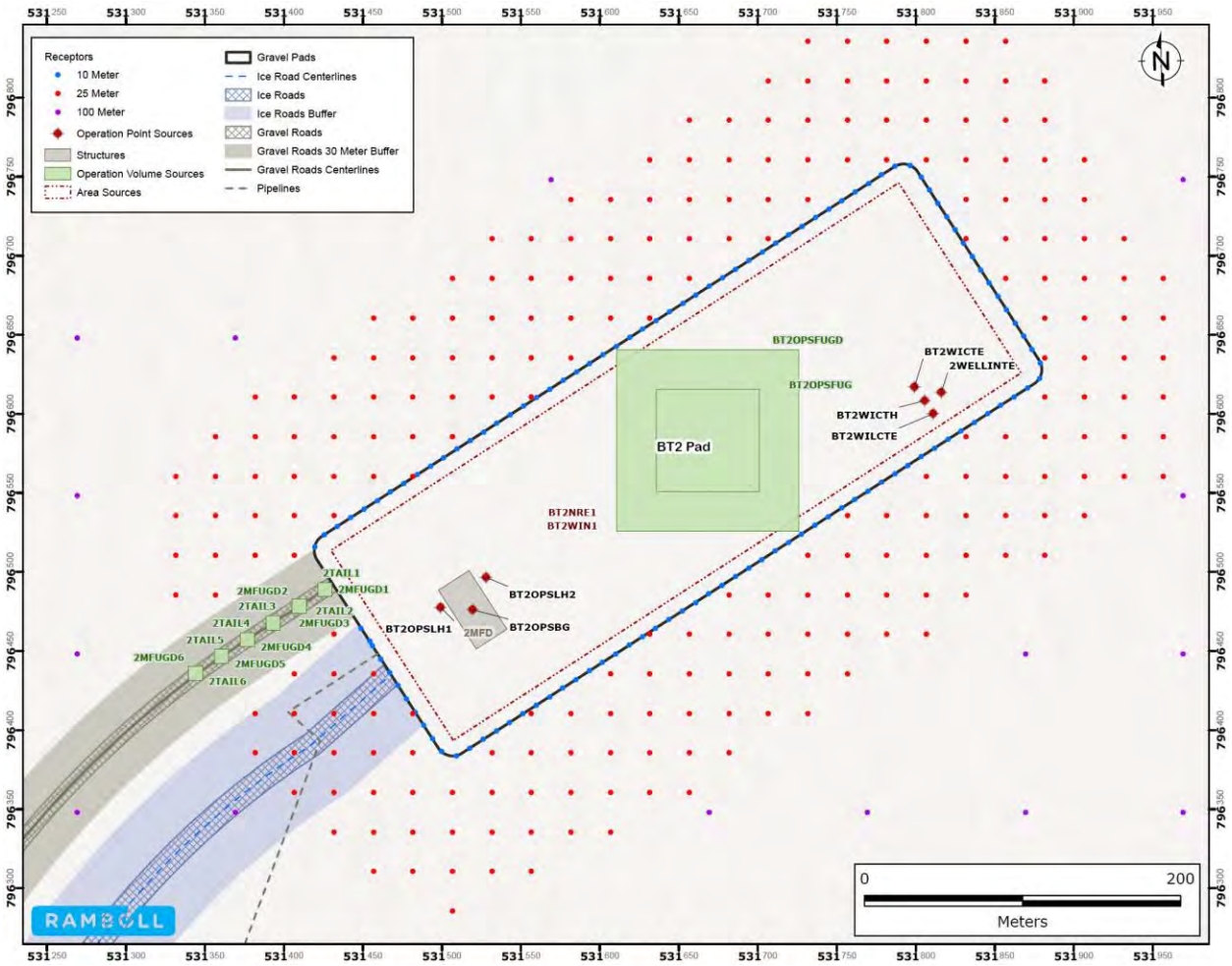


Figure I.1-17. Alternative E Near-field Model Scenario 5 Source Locations at BT2.

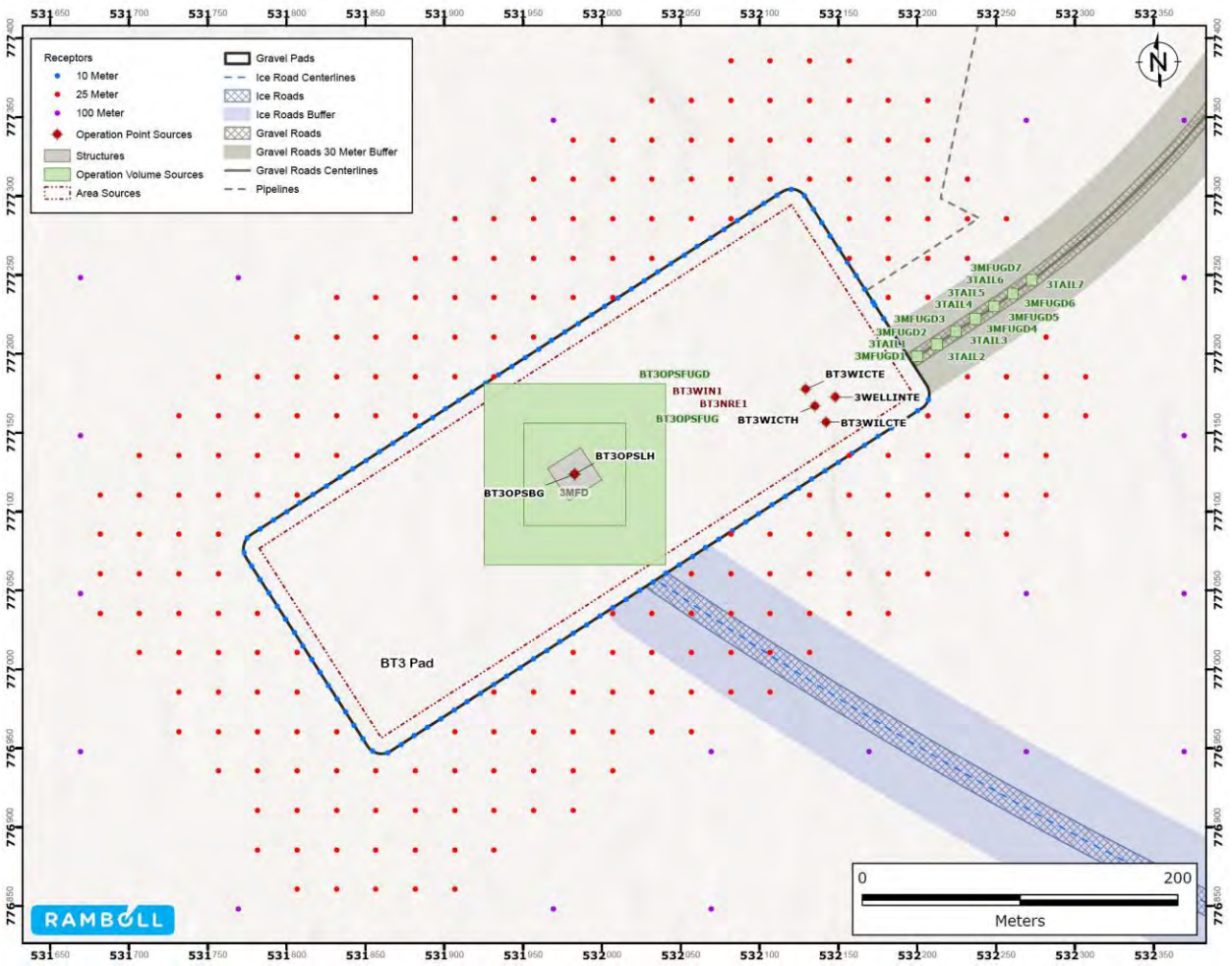


Figure I.1-18. Alternative E Near-field Model Scenario 5 Source Locations at BT3.

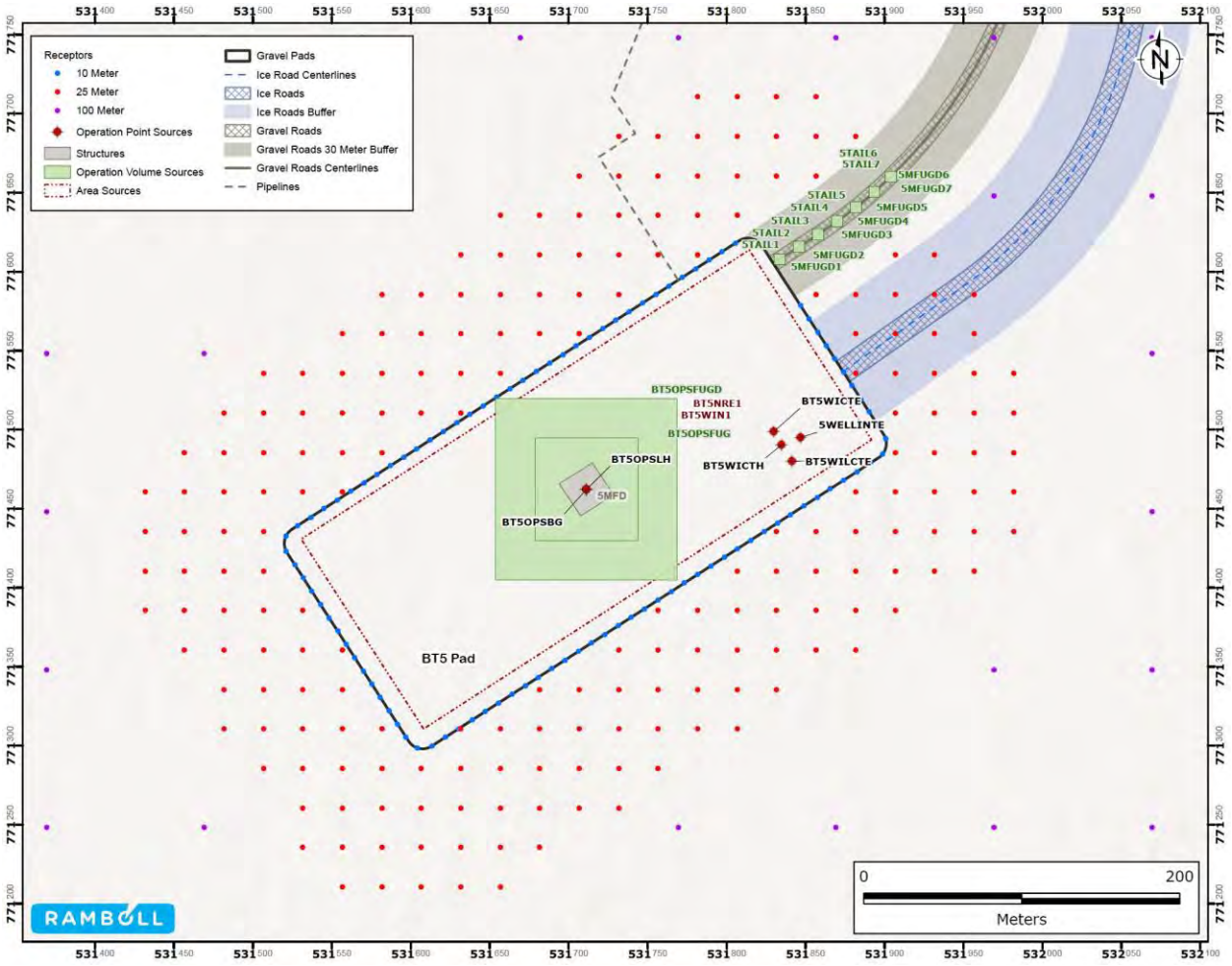


Figure I.1-19. Alternative E Near-field Model Scenario 5 Source Locations at BT5.

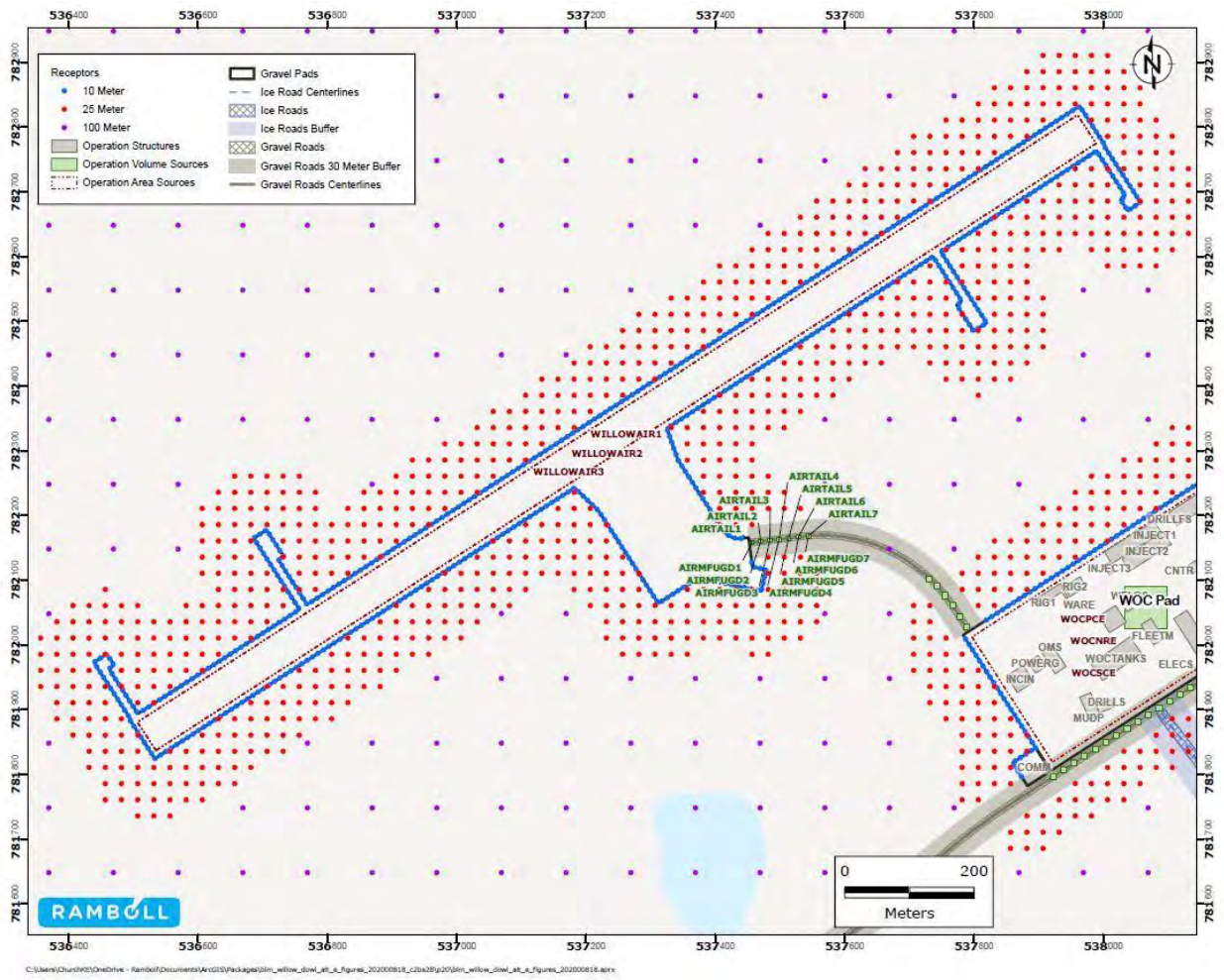


Figure I.1-20. Alternative E Near-field Model Scenario 5 Source Locations at Airstrip.

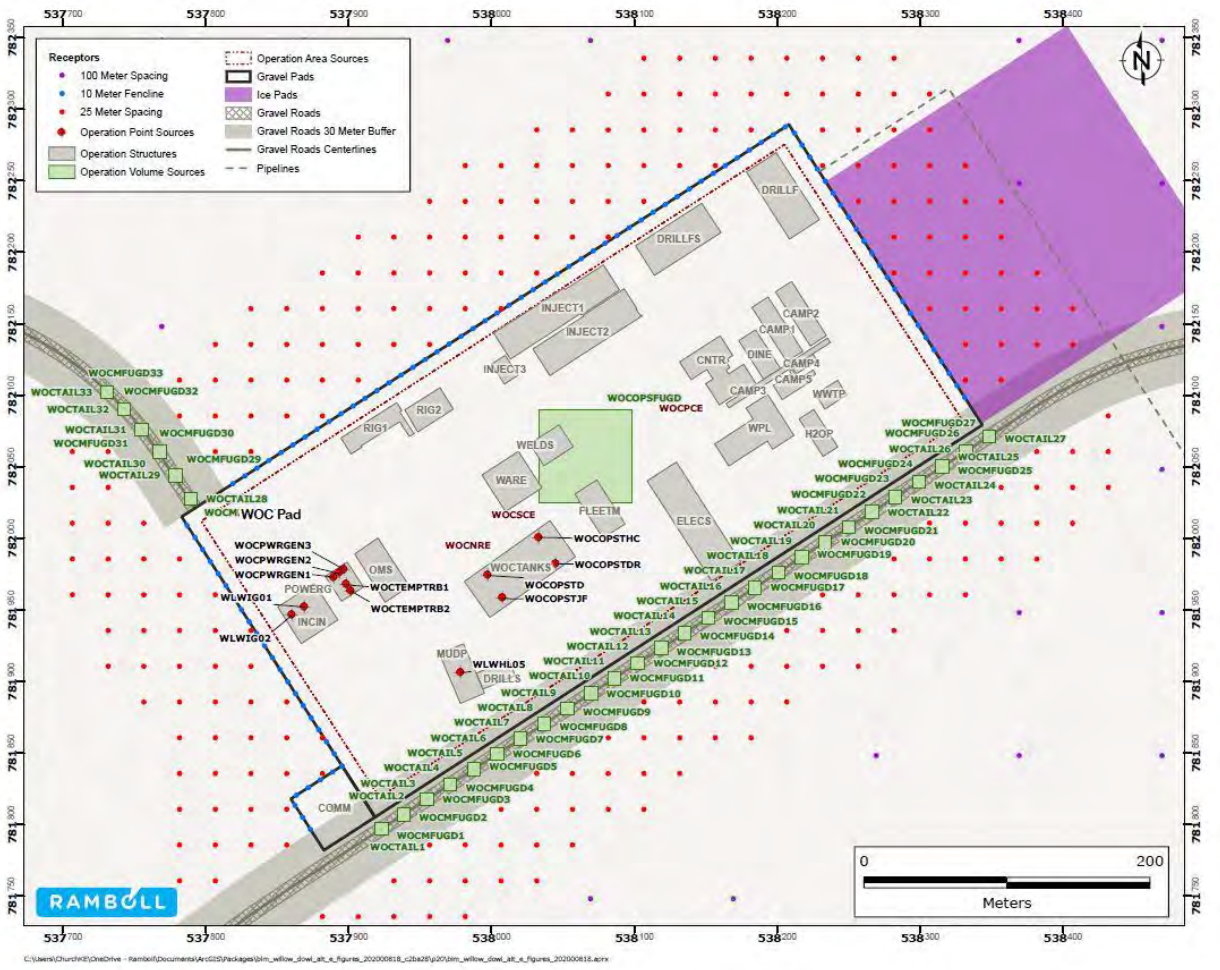


Figure I.1-21. Alternative E Near-field Model Scenario 5 Source Locations at WOC.

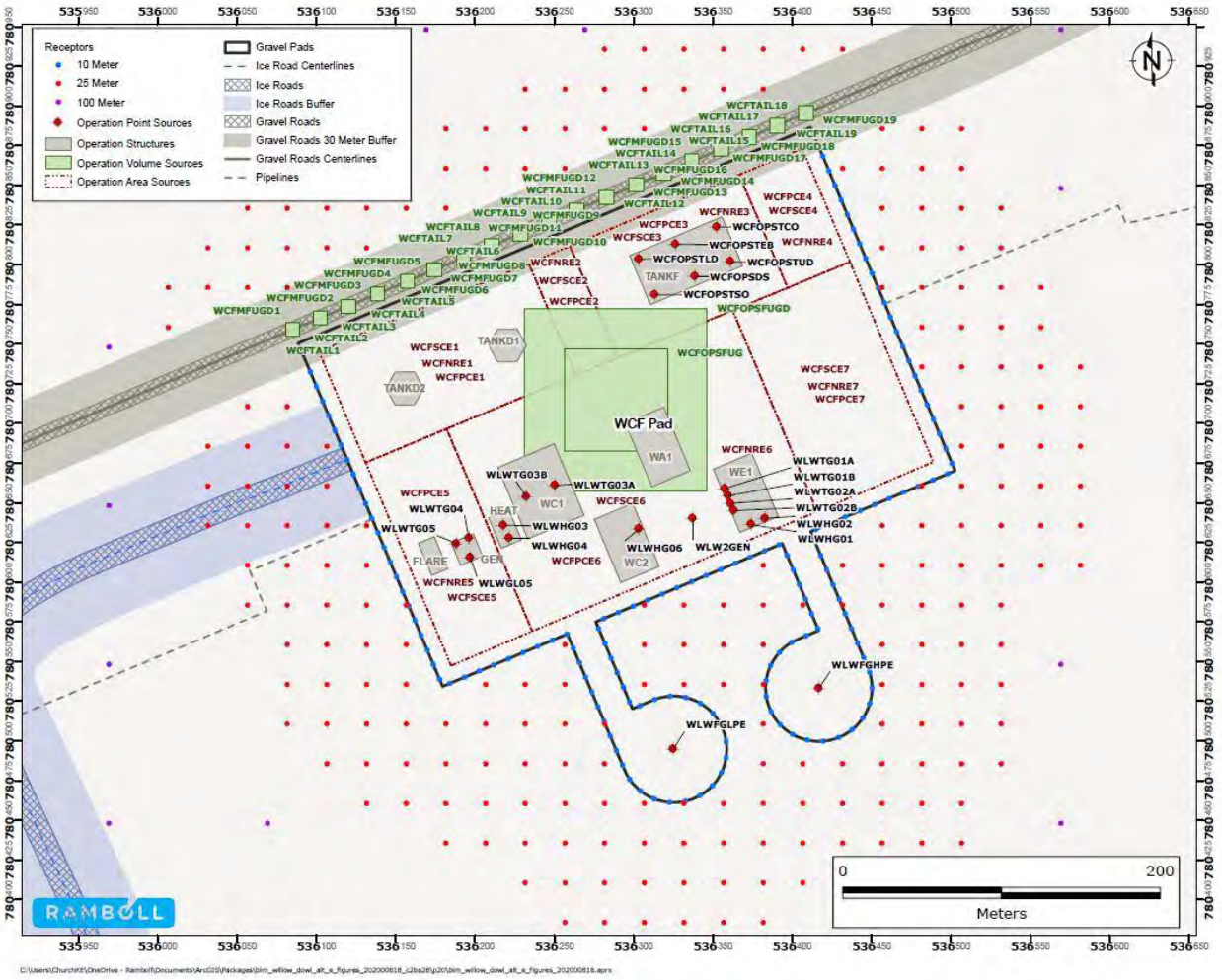


Figure I.1-22. Alternative E Near-field Model Scenario 5 Source Locations at WPF.

Table I.1-13. Alternative E Near-field Model Scenario 5 Emissions Source Descriptions and In-stack Ratios

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
BT1OPSLH1	POINT	BT1 - Line Heater	0.05	Natural gas heaters
BT1OPSLH2	POINT	BT1 - Line Heater	0.05	Natural gas heaters
BT1OPSBG	POINT	BT1 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT1OPSFUGD	VOLUME	BT1 - Wind Erosion Fugitive Dust	-	-
BT1WICTH	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel fueled heaters and boiler
BT1WICTE	POINT	BT1 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT1WILCTE	POINT	BT1 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT2OPSLH1	POINT	BT2 - Line Heater	0.05	Natural gas heaters
BT2OPSLH2	POINT	BT2 - Line Heater	0.05	Natural gas heaters
BT2OPSBG	POINT	BT2 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT2OPSFUGD	VOLUME	BT2 - Wind Erosion Fugitive Dust	-	-
BT2WICTH	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel fueled heaters and boiler
BT2WICTE	POINT	BT2 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT2WILCTE	POINT	BT2 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT3OPSLH	POINT	BT3 - Line Heater	0.05	Diesel tailpipe from non-road equipment
BT3OPSBG	POINT	BT3 - Backup Generator	0.2	Natural gas heaters
BT3OPSFUGD	VOLUME	BT3 - Wind Erosion Fugitive Dust	-	-
BT3WICTH	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel fueled heaters and boiler
BT3WICTE	POINT	BT3 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT3WILCTE	POINT	BT3 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT5OPSLH	POINT	BT5 - Line Heater	0.05	Natural gas heaters
BT5OPSBG	POINT	BT5 - Backup Generator	0.2	Diesel tailpipe from non-road equipment
BT5OPSFUGD	VOLUME	BT5 - Wind Erosion Fugitive Dust	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
BT5WICTH	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Heater	0.05	Diesel fueled heaters and boiler
BT5WICTE	POINT	BT5 - Well Intervention Main Equipment - Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
BT5WILCTE	POINT	BT5 - Well Intervention Main Equipment - Large Coil Tubing Engine	0.1	Diesel tailpipe from non-road equipment
WLWTG03A	POINT	WCF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG03B	POINT	WCF - Stationary Combustion Sources - Injection/Compression Turbine	0.3	Natural gas-fired turbines
WLWTG01A	POINT	WCF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG01B	POINT	WCF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02A	POINT	WCF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG02B	POINT	WCF - Stationary Combustion Sources - Power Generation Turbine	0.3	Natural gas-fired turbines
WLWTG04	POINT	WCF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines
WLWTG05	POINT	WCF - Stationary Combustion Sources - Backup Power Generation Turbine (Dual Fuel)	0.3	Natural gas-fired turbines
WLWGL05	POINT	WCF - Stationary Combustion Sources - Black Start Engine	0.1	Diesel tailpipe from non-road equipment
WLWHG03	POINT	WCF - Stationary Combustion Sources - Crude Production Heater	0.05	Natural gas heaters
WLWHG04	POINT	WCF - Stationary Combustion Sources - Crude Production Heater	0.05	Natural gas heaters
WLWHG01	POINT	WCF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Natural gas heaters
WLWHG02	POINT	WCF - Stationary Combustion Sources - Utility Heat Medium (UHM) Heater	0.05	Natural gas heaters
WLWHG06	POINT	WCF - Stationary Combustion Sources - Hot Oil Heater	0.05	Natural gas heaters
WLWFGLPE	POINT	WCF - Stationary Combustion Sources - LP Flare (emergency)	0.5	Flares
WLWFGHPE	POINT	WCF - Stationary Combustion Sources - HP Flare (emergency)	0.5	Flares
WCFOPSFUGD	VOLUME	WCF - Wind Erosion Fugitive Dust	-	-
WOCPWRGEN1	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCPWRGEN2	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel tailpipe from non-road equipment
WOCPWRGEN3	POINT	WOC - Stationary Combustion Sources - Power Generation	0.1	Diesel tailpipe from non-road equipment
WLWIG01	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	Diesel tailpipe from non-road equipment
WLWIG02	POINT	WOC - Stationary Combustion Sources - Incinerator	0.5	Diesel tailpipe from non-road equipment
WLWHL05	POINT	WOC - Stationary Combustion Sources - Mud Plant Glycol Boiler	0.05	Diesel fueled heaters and boiler
WILLOWAIR1	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 50.8m	0.5	Aircraft
WILLOWAIR2	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 152.4m	0.5	Aircraft
WILLOWAIR3	AREAPOLY	WOC - Aircraft Activity (Willow Airstrip) - Release Height 254m	0.5	Aircraft
WOCOPSFUGD	VOLUME	WOC - Wind Erosion Fugitive Dust	-	-
WCFPCE1	AREAPOLY	WCF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFPCE2	AREAPOLY	WCF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFPCE3	AREAPOLY	WCF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFPCE4	AREAPOLY	WCF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFPCE5	AREAPOLY	WCF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFPCE6	AREAPOLY	WCF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFPCE7	AREAPOLY	WCF - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFSCE1	AREAPOLY	WCF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFSCE2	AREAPOLY	WCF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFSCE3	AREAPOLY	WCF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFSCE4	AREAPOLY	WCF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFSCE5	AREAPOLY	WCF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFSCE6	AREAPOLY	WCF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFSCE7	AREAPOLY	WCF - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WCFNRE1	AREAPOLY	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE2	AREAPOLY	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE3	AREAPOLY	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE4	AREAPOLY	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE5	AREAPOLY	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE6	AREAPOLY	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WCFNRE7	AREAPOLY	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
WLW2GEN	POINT	WCF - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines >140 HP	0.1	Diesel tailpipe from non-road equipment
BT3NRE1	AREAPOLY	BT3 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT3WIN1	AREAPOLY	BT3 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
3WELLINTE	POINT	BT3 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
BT1NRE1	AREAPOLY	BT1 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT1WIN1	AREAPOLY	BT1 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
1WELLINTE	POINT	BT1 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
BT2NRE1	AREAPOLY	BT2 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT2WIN1	AREAPOLY	BT2 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
2WELLINTE	POINT	BT2 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
BT5NRE1	AREAPOLY	BT5 - Routine Operations Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
BT5WIN1	AREAPOLY	BT5 - Well Intervention Non-Mobile Support Equipment	0.2	Diesel tailpipe from non-road equipment
5WELLINTE	POINT	BT5 - Well Intervention Non-Mobile Support Equipment - Total Engine	0.1	Diesel tailpipe from non-road equipment
WOCPCE	AREAPOLY	WOC - Non-mobile Support Equipment - Portable External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WOCSCE	AREAPOLY	WOC - Non-mobile Support Equipment - Stationary External Combustion Equipment	0.05	Diesel fueled heaters and boiler
WOCNRE	AREAPOLY	WOC - Non-mobile Support Equipment - Internal Combustion Equipment Non-Road Engines <140 HP	0.2	Diesel tailpipe from non-road equipment
1TAIL1	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL2	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL3	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL4	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL5	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL6	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL7	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL8	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
1TAIL9	VOLUME	Mobile Equipment Tailpipe - BT1	0.15	Diesel tailpipe from on-road vehicles
2TAIL1	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL2	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL3	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
2TAIL4	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL5	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
2TAIL6	VOLUME	Mobile Equipment Tailpipe - BT2	0.15	Diesel tailpipe from on-road vehicles
3TAIL1	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL2	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL3	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL4	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL5	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL6	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
3TAIL7	VOLUME	Mobile Equipment Tailpipe - BT3	0.15	Diesel tailpipe from on-road vehicles
5TAIL1	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL2	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL3	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL4	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL5	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL6	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
5TAIL7	VOLUME	Mobile Equipment Tailpipe - BT5	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL8	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCTAIL9	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL10	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL11	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL12	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL13	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL14	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL15	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL16	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL17	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL18	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL19	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL20	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL21	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL22	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL23	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL24	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL25	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL26	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL27	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL28	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL29	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL30	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL31	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL32	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WOCTAIL33	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
AIRTAIL1	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL2	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL3	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL4	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL5	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL6	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
AIRTAIL7	VOLUME	Mobile Equipment Tailpipe - WOC	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL1	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL2	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL3	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL4	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL5	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL6	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL7	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL8	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL9	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL10	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL11	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL12	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL13	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL14	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL15	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL16	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL17	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
WCFTAIL18	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WCFTAIL19	VOLUME	Mobile Equipment Tailpipe - WCF	0.15	Diesel tailpipe from on-road vehicles
1MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD8	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
1MFUGD9	VOLUME	Mobile Equipment Fugitive Dust - BT1	-	-
2MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
2MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT2	-	-
3MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
3MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT3	-	-
5MFUGD1	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD2	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
5MFUGD3	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD4	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD5	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD6	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
5MFUGD7	VOLUME	Mobile Equipment Fugitive Dust - BT5	-	-
WCFMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD8	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD9	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD10	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD11	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD12	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD13	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD14	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD15	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD16	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD17	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD18	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WCFMFUGD19	VOLUME	Mobile Equipment Fugitive Dust - WCF	-	-
WOCMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD8	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD9	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD10	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD11	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD12	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD13	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD14	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD15	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD16	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD17	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD18	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD19	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD20	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD21	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD22	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD23	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD24	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD25	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD26	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
WOCMFUGD27	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD28	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD29	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD30	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD31	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD32	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCMFUGD33	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD1	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD2	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD3	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD4	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD5	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD6	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
AIRMFUGD7	VOLUME	Mobile Equipment Fugitive Dust - WOC	-	-
WOCTEMPTRB1	POINT	WOC - Stationary Combustion Sources - Power Generation Turbine	0.3	Diesel tailpipe from non-road equipment
WOCTEMPTRB2	POINT	WOC - Stationary Combustion Sources - Power Generation Turbine	0.3	Diesel tailpipe from non-road equipment
RFDGMT1	POINT	RFD - GMT1	0.2	Reasonably Foreseeable Development
RFDGMT2	POINT	RFD - GMT2	0.2	Reasonably Foreseeable Development
RFDGWPDS1	POINT	RFD - Greater Willow Project Drill Site #1	0.15	Reasonably Foreseeable Development
RFDGWPDS2	POINT	RFD - Greater Willow Project Drill Site #2	0.15	Reasonably Foreseeable Development
RFDCD5	POINT	RFD - CD5	0.2	Reasonably Foreseeable Development
RFDCD8	POINT	RFD - CD8 Expansion	0.2	Reasonably Foreseeable Development
RFDNW	POINT	RFD - Narwhal	0.2	Reasonably Foreseeable Development
RFDACF	POINT	RFD - Alpine Central Facility Expansion	0.2	Reasonably Foreseeable Development

Source ID	Source Type	Source Description	NOx to NO2 Ratio	Notes
RFDCD1EXP	POINT	RFD - CD1 Expansion	0.5	Reasonably Foreseeable Development
RFDCD4EXP	POINT	RFD - CD4 Expansion	0.2	Reasonably Foreseeable Development

Table I.1-14. Alternative E Near-field Model Scenario 5 Emissions Stack Parameters

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
BT1OPSLH1	POINT	2.74	12.2	0.94	5.7	529	-	-
BT1OPSLH2	POINT	2.74	12.2	0.94	5.7	529	-	-
BT1OPSBG	POINT	2.74	6.1	0.46	15.1	795	-	-
BT1OPSFUGD	VOLUME	2.74	3.7	-	-	-	26.74	3.38
BT1WICTH	POINT	2.74	3.7	0.356	41.6	644	-	-
BT1WICTE	POINT	2.74	3.7	0.356	41.6	644	-	-
BT1WILCTE	POINT	2.74	3.7	0.356	41.6	644	-	-
BT2OPSLH1	POINT	2.74	12.2	0.94	5.7	529	-	-
BT2OPSLH2	POINT	2.74	12.2	0.94	5.7	529	-	-
BT2OPSBG	POINT	2.74	6.1	0.46	15.1	795	-	-
BT2OPSFUGD	VOLUME	2.74	3.7	-	-	-	26.74	3.38
BT2WICTH	POINT	2.74	3.7	0.356	41.6	644	-	-
BT2WICTE	POINT	2.74	3.7	0.356	41.6	644	-	-
BT2WILCTE	POINT	2.74	3.7	0.356	41.6	644	-	-
BT3OPSLH	POINT	2.74	12.2	0.94	5.7	529	-	-
BT3OPSBG	POINT	2.74	6.1	0.46	15.1	795	-	-
BT3OPSFUGD	VOLUME	2.74	3.7	-	-	-	26.74	3.38
BT3WICTH	POINT	2.74	3.7	0.356	41.6	644	-	-
BT3WICTE	POINT	2.74	3.7	0.356	41.6	644	-	-
BT3WILCTE	POINT	2.74	3.7	0.356	41.6	644	-	-
BT5OPSLH	POINT	2.74	12.2	0.94	5.7	529	-	-
BT5OPSBG	POINT	2.74	6.1	0.46	15.1	795	-	-
BT5OPSFUGD	VOLUME	2.74	3.7	-	-	-	26.74	3.38
BT5WICTH	POINT	2.74	3.7	0.356	41.6	644	-	-
BT5WICTE	POINT	2.74	3.7	0.356	41.6	644	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
BT5WILCTE	POINT	2.74	3.7	0.356	41.6	644	-	-
WLWTG03A	POINT	3.05	25	2	30	370	-	-
WLWTG03B	POINT	3.05	25	2	30	370	-	-
WLWTG01A	POINT	3.05	30	2	35	370	-	-
WLWTG01B	POINT	3.05	30	2	35	370	-	-
WLWTG02A	POINT	3.05	30	2	35	370	-	-
WLWTG02B	POINT	3.05	30	2	35	370	-	-
WLWTG04	POINT	3.05	25	2	30	550	-	-
WLWTG05	POINT	3.05	25	2	30	550	-	-
WLWGL05	POINT	3.05	5.5	0.3	20	760	-	-
WLWHG03	POINT	3.05	25	1	10	525	-	-
WLWHG04	POINT	3.05	25	1	10	525	-	-
WLWHG01	POINT	3.05	25	1	10	525	-	-
WLWHG02	POINT	3.05	25	1	10	525	-	-
WLWHG06	POINT	3.05	25	1	10	525	-	-
WLWFGLPE	POINT	3.05	114.08	18.48	20	1273	-	-
WLWFGHPE	POINT	3.05	106	20.42	20	1273	-	-
WCFOPSFUGD	VOLUME	3.05	3.7	-	-	-	15.1	3.38
WOCPWRGEN1	POINT	3.05	8.6	0.3	20	760	-	-
WOCPWRGEN2	POINT	3.05	8.6	0.3	20	760	-	-
WOCPWRGEN3	POINT	3.05	8.6	0.3	20	760	-	-
WLWIG01	POINT	3.05	20	0.3	10	1200	-	-
WLWIG02	POINT	3.05	20	0.3	10	1200	-	-
WLWHL05	POINT	3.05	13.19	0.3	10	525	-	-
WILLOWAIR1	AREAPOLY	2.9	50.8	-	-	-	-	23.63

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WILLOWAIR2	AREAPOLY	2.9	152.4	-	-	-	-	23.63
WILLOWAIR3	AREAPOLY	2.9	254	-	-	-	-	23.63
WOCOPSFUGD	VOLUME	3.05	3.7	-	-	-	15.1	3.38
WCFPCE1	AREAPOLY	3.05	13.3	-	-	-	-	12.37
WCFPCE2	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFPCE3	AREAPOLY	3.05	9.38	-	-	-	-	8.72
WCFPCE4	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFPCE5	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFPCE6	AREAPOLY	3.05	13.3	-	-	-	-	12.37
WCFPCE7	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFSCE1	AREAPOLY	3.05	13.3	-	-	-	-	12.37
WCFSCE2	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFSCE3	AREAPOLY	3.05	9.38	-	-	-	-	8.72
WCFSCE4	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFSCE5	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFSCE6	AREAPOLY	3.05	13.3	-	-	-	-	12.37
WCFSCE7	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFNRE1	AREAPOLY	3.05	13.3	-	-	-	-	12.37
WCFNRE2	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFNRE3	AREAPOLY	3.05	9.38	-	-	-	-	8.72
WCFNRE4	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFNRE5	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WCFNRE6	AREAPOLY	3.05	13.3	-	-	-	-	12.37
WCFNRE7	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WLW2GEN	POINT	3.05	6.1	0.46	15.1	795	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
BT3NRE1	AREAPOLY	2.74	3.66	-	-	-	-	3.38
BT3WIN1	AREAPOLY	2.74	3.66	-	-	-	-	3.38
3WELLINTE	POINT	3.66	6.1	0.46	15.1	795	-	-
BT1NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38
BT1WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38
1WELLINTE	POINT	2.74	6.1	0.46	15.1	795	-	-
BT2NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38
BT2WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38
2WELLINTE	POINT	2.74	6.1	0.46	15.1	795	-	-
BT5NRE1	AREAPOLY	2.74	3.63	-	-	-	-	3.38
BT5WIN1	AREAPOLY	2.74	3.63	-	-	-	-	3.38
5WELLINTE	POINT	2.74	6.1	0.46	15.1	795	-	-
WOCPCE	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WOCSCE	AREAPOLY	3.05	3.63	-	-	-	-	3.38
WOCNRE	AREAPOLY	3.05	3.63	-	-	-	-	3.38
1TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL7	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL8	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1TAIL9	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2TAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
2TAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2TAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2TAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2TAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2TAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38
3TAIL1	VOLUME	2.13	3.66	-	-	-	6.8	3.38
3TAIL2	VOLUME	2.13	3.66	-	-	-	6.8	3.38
3TAIL3	VOLUME	2.13	3.66	-	-	-	6.8	3.38
3TAIL4	VOLUME	2.13	3.66	-	-	-	6.8	3.38
3TAIL5	VOLUME	2.13	3.66	-	-	-	6.8	3.38
3TAIL6	VOLUME	2.13	3.66	-	-	-	6.8	3.38
3TAIL7	VOLUME	2.13	3.66	-	-	-	6.8	3.38
5TAIL1	VOLUME	2.13	3.66	-	-	-	6.8	3.38
5TAIL2	VOLUME	2.13	3.66	-	-	-	6.8	3.38
5TAIL3	VOLUME	2.13	3.66	-	-	-	6.8	3.38
5TAIL4	VOLUME	2.13	3.66	-	-	-	6.8	3.38
5TAIL5	VOLUME	2.13	3.66	-	-	-	6.8	3.38
5TAIL6	VOLUME	2.13	3.66	-	-	-	6.8	3.38
5TAIL7	VOLUME	2.13	3.66	-	-	-	6.8	3.38
WOCTAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WOCTAIL7	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL8	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL9	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL10	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL11	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL12	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL13	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL14	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL15	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL16	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL17	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL18	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL19	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL20	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL21	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL22	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL23	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL24	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL25	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL26	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL27	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL28	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL29	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL30	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL31	VOLUME	2.13	3.66	-	-	-	9.07	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WOCTAIL32	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCTAIL33	VOLUME	2.13	3.66	-	-	-	9.07	3.38
AIRTAIL1	VOLUME	2.13	3.66	-	-	-	6.8	3.38
AIRTAIL2	VOLUME	2.13	3.66	-	-	-	6.8	3.38
AIRTAIL3	VOLUME	2.13	3.66	-	-	-	6.8	3.38
AIRTAIL4	VOLUME	2.13	3.66	-	-	-	6.8	3.38
AIRTAIL5	VOLUME	2.13	3.66	-	-	-	6.8	3.38
AIRTAIL6	VOLUME	2.13	3.66	-	-	-	6.8	3.38
AIRTAIL7	VOLUME	2.13	3.66	-	-	-	6.8	3.38
WCFTAIL1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL6	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL7	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL8	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL9	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL10	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL11	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL12	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL13	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL14	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL15	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL16	VOLUME	2.13	3.66	-	-	-	9.07	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WCFTAIL17	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL18	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFTAIL19	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD7	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD8	VOLUME	2.13	3.66	-	-	-	9.07	3.38
1MFUGD9	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2MFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2MFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2MFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2MFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2MFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
2MFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38
3MFUGD1	VOLUME	2.13	3.66	-	-	-	6.8	3.38
3MFUGD2	VOLUME	2.13	3.66	-	-	-	6.8	3.38
3MFUGD3	VOLUME	2.13	3.66	-	-	-	6.8	3.38
3MFUGD4	VOLUME	2.13	3.66	-	-	-	6.8	3.38
3MFUGD5	VOLUME	2.13	3.66	-	-	-	6.8	3.38
3MFUGD6	VOLUME	2.13	3.66	-	-	-	6.8	3.38
3MFUGD7	VOLUME	2.13	3.66	-	-	-	6.8	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
5MFUGD1	VOLUME	2.13	3.66	-	-	-	6.8	3.38
5MFUGD2	VOLUME	2.13	3.66	-	-	-	6.8	3.38
5MFUGD3	VOLUME	2.13	3.66	-	-	-	6.8	3.38
5MFUGD4	VOLUME	2.13	3.66	-	-	-	6.8	3.38
5MFUGD5	VOLUME	2.13	3.66	-	-	-	6.8	3.38
5MFUGD6	VOLUME	2.13	3.66	-	-	-	6.8	3.38
5MFUGD7	VOLUME	2.13	3.66	-	-	-	6.8	3.38
WCFMFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD7	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD8	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD9	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD10	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD11	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD12	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD13	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD14	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD15	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD16	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD17	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WCFMFUGD18	VOLUME	2.13	3.66	-	-	-	9.07	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WCFMFUGD19	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD1	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD2	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD3	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD4	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD5	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD6	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD7	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD8	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD9	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD10	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD11	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD12	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD13	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD14	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD15	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD16	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD17	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD18	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD19	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD20	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD21	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD22	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD23	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD24	VOLUME	2.13	3.66	-	-	-	9.07	3.38

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
WOCMFUGD25	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD26	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD27	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD28	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD29	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD30	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD31	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD32	VOLUME	2.13	3.66	-	-	-	9.07	3.38
WOCMFUGD33	VOLUME	2.13	3.66	-	-	-	9.07	3.38
AIRMFUGD1	VOLUME	2.13	3.66	-	-	-	6.8	3.38
AIRMFUGD2	VOLUME	2.13	3.66	-	-	-	6.8	3.38
AIRMFUGD3	VOLUME	2.13	3.66	-	-	-	6.8	3.38
AIRMFUGD4	VOLUME	2.13	3.66	-	-	-	6.8	3.38
AIRMFUGD5	VOLUME	2.13	3.66	-	-	-	6.8	3.38
AIRMFUGD6	VOLUME	2.13	3.66	-	-	-	6.8	3.38
AIRMFUGD7	VOLUME	2.13	3.66	-	-	-	6.8	3.38
WOCTEMPTRB1	POINT	3.05	30	2	30	550	-	-
WOCTEMPTRB2	POINT	3.05	30	2	30	550	-	-
RFDGMT1	POINT	1.524	4.88	0.305	35	820	-	-
RFDGMT2	POINT	1.524	12.2	0.94	5.7	529	-	-
RFDGWPDS1	POINT	1.524	3.7	0.356	41.6	644	-	-
RFDGWPDS2	POINT	1.524	3.7	0.356	41.6	644	-	-
RFDCD5	POINT	1.524	4.88	0.305	35	820	-	-
RFDACF	POINT	1.524	20.2	1.83	46.2	758	-	-
RFDCD8	POINT	1.524	6.1	0.46	15.1	795	-	-

Source ID	Source Type	Elevation (m)	Release Height (m)	Diameter (m)	Exit Velocity (m/s)	Release Temperature (K)	Sigma Y (m)	Sigma Z (m)
RFDCD4EXP	POINT	1.524	6.1	0.46	15.1	795	-	-
RFDNW	POINT	1.524	6.1	0.46	15.1	795	-	-
RFDCD1EXP	POINT	1.524	6.1	0.46	15.1	795	-	-

Table I.1-15. Alternative E Near-field Model Scenario 5 Emissions Rates

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
BT1OPSLH1	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT1OPSLH2	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT1OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT1OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.78E-02	4.18E-03	4.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT1WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT1WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT1WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
BT2OPSLH1	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT2OPSLH2	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT2OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT2OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.77E-02	4.15E-03	4.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT2WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT2WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT2WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
BT3OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT3OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT3OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.57E-02	3.86E-03	3.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
BT3WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT3WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT3WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
BT5OPSLH	5.19E-02	6.18E-02	6.18E-02	4.69E-03	4.69E-03	4.69E-03	4.17E-03	4.17E-03	4.17E-03	1.30E-06	1.30E-06	2.10E-06	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	1.11E-03	4.63E-05	4.63E-05	8760
BT5OPSBG	1.16E+00	1.16E+00	6.63E-02	3.35E-02	3.35E-02	1.91E-03	2.21E-03	2.21E-03	1.26E-04	1.10E-03	6.29E-05	3.99E-04	2.28E-05	0.00E+00	0.00E+00	2.74E-04	1.56E-05	0.00E+00	0.00E+00	1.12E-04	6.39E-06	500
BT5OPSFUGD	0.00E+00	0.00E+00	0.00E+00	2.18E-02	3.27E-03	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
BT5WICTH	4.57E-02	1.83E-01	7.20E-02	2.17E-02	1.94E-02	7.67E-03	1.94E-03	1.94E-03	7.67E-04	1.95E-06	7.71E-07	5.66E-05	2.23E-05	5.81E-07	2.29E-07	9.95E-07	3.93E-07	0.00E+00	0.00E+00	3.01E-04	1.19E-04	288
BT5WICTE	6.21E-02	9.32E-02	3.68E-02	4.97E-03	4.97E-03	1.96E-03	8.23E-05	8.23E-05	3.25E-05	4.94E-05	1.95E-05	2.16E-05	8.54E-06	0.00E+00	0.00E+00	1.51E-05	5.95E-06	0.00E+00	0.00E+00	6.24E-05	2.46E-05	288
BT5WILCTE	4.75E-01	8.68E-01	3.43E-01	2.71E-02	2.71E-02	1.07E-02	1.00E-03	1.00E-03	3.95E-04	4.48E-04	1.77E-04	1.62E-04	6.40E-05	0.00E+00	0.00E+00	1.11E-04	4.40E-05	0.00E+00	0.00E+00	4.56E-05	1.80E-05	288
WLWTG03A	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	4.02E-04	4.02E-04	4.36E-03	4.36E-03	1.07E-03	1.07E-03	2.15E-03	2.15E-03	0.00E+00	0.00E+00	7.37E-03	7.37E-03	8760
WLWTG03B	1.93E+00	1.91E+00	1.91E+00	2.21E-01	2.21E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	4.02E-04	4.02E-04	4.36E-03	4.36E-03	1.07E-03	1.07E-03	2.15E-03	2.15E-03	0.00E+00	0.00E+00	7.37E-03	7.37E-03	8760
WLWTG01A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG01B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG02A	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG02B	1.47E+00	1.45E+00	1.45E+00	1.68E-01	1.68E-01	1.68E-01	1.69E-01	1.69E-01	1.69E-01	3.06E-04	3.06E-04	3.32E-03	3.32E-03	8.17E-04	8.17E-04	1.63E-03	1.63E-03	0.00E+00	0.00E+00	5.62E-03	5.62E-03	8760
WLWTG04	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	1.17E-04	1.17E-04	1.05E-03	1.05E-03	2.59E-04	2.59E-04	5.19E-04	5.19E-04	0.00E+00	0.00E+00	1.81E-03	1.81E-03	8760
WLWTG05	5.67E-01	6.08E-01	6.08E-01	5.28E-02	5.28E-02	5.28E-02	5.06E-02	5.06E-02	5.06E-02	1.17E-04	1.17E-04	1.05E-03	1.05E-03	2.59E-04	2.59E-04	5.19E-04	5.19E-04	0.00E+00	0.00E+00	1.81E-03	1.81E-03	8760
WLWGL05	6.48E-01	1.19E+00	6.76E-02	3.70E-02	3.70E-02	2.11E-03	1.22E-03	1.22E-03	6.99E-05	6.12E-04	3.49E-05	2.22E-04	1.26E-05	0.00E+00	0.00E+00	1.52E-04	8.69E-06	0.00E+00	0.00E+00	6.22E-05	3.55E-06	500
WLWHG03	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8.56E-06	8.56E-06	1.39E-05	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	1.88E-05	3.06E-04	3.06E-04	8760
WLWHG04	3.42E-01	4.08E-01	4.08E-01	3.10E-02	3.10E-02	3.10E-02	2.75E-02	2.75E-02	2.75E-02	8.56E-06	8.56E-06	1.39E-05	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	1.88E-05	3.06E-04	3.06E-04	8760
WLWHG01	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	5.19E-06	5.19E-06	8.40E-06	8.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	1.14E-05	1.85E-04	1.85E-04	8760
WLWHG02	2.08E-01	2.47E-01	2.47E-01	1.88E-02	1.88E-02	1.88E-02	1.67E-02	1.67E-02	1.67E-02	5.19E-06	5.19E-06	8.40E-06	8.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	1.14E-05	1.85E-04	1.85E-04	8760
WLWHG06	3.84E-01	4.57E-01	4.57E-01	3.47E-02	3.47E-02	3.47E-02	3.09E-02	3.09E-02	3.09E-02	9.60E-06	9.60E-06	1.55E-05	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	2.10E-05	3.43E-04	3.43E-04	8760
WLWFGLPE	5.29E+02	1.29E+02	1.47E-01	2.94E+01	2.94E+01	3.36E-02	7.51E+00	7.51E+00	8.58E-03	7.02E+00	8.01E-03	6.25E+00	7.14E-03	3.97E-01	4.53E-04	1.77E+00	2.03E-03	1.18E+02	1.35E-01	1.96E+02	2.24E-01	10
WLWFGHPE	4.33E+02	9.50E+01	1.08E-01	3.62E+01	3.62E+01	4.14E-02	9.25E+00	9.25E+00	1.06E-02	1.56E+00	1.78E-03	1.39E+00	1.59E-03	8.83E-02	1.01E-04	3.94E-01	4.50E-04	2.63+01	3.00E-02	4.35E+01	4.97E-02	10
WCFOPSFUGD	0.00E+00	0.00E+00	0.00E+00	3.45E-02	5.17E-03	5.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCPWRGEN1	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WOCPWRGEN2	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WOCPWRGEN3	1.30E+00	1.30E+00	6.48E-01	3.70E-02	3.70E-02	1.85E-02	2.45E-03	2.45E-03	1.22E-03	1.22E-03	6.12E-04	4.43E-04	2.22E-04	0.00E+00	0.00E+00	3.04E-04	1.52E-04	0.00E+00	0.00E+00	1.24E-04	6.22E-05	4380
WLWIG01	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	9.34E-07	7.78E-07	1.51E-06	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-06	2.33E-06	3.34E-05	2.78E-05	7300
WLWIG02	3.99E-02	9.94E-02	8.28E-02	1.36E-01	1.36E-01	1.13E-01	3.54E-03	3.54E-03	2.95E-03	9.34E-07	7.78E-07	1.51E-06	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-06	2.33E-06	3.34E-05	2.78E-05	7300

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WLWHL05	5.93E-03	2.37E-02	2.37E-02	2.82E-03	2.53E-03	2.53E-03	2.54E-04	2.54E-04	2.54E-04	2.54E-07	2.54E-07	7.36E-06	7.36E-06	7.55E-08	7.55E-08	1.29E-07	1.29E-07	0.00E+00	0.00E+00	3.92E-05	3.92E-05	8760
WILLOWAIR1	1.06E-07	2.91E-08	2.91E-08	1.20E-09	1.20E-09	1.20E-09	4.52E-09	4.52E-09	4.52E-09	3.13E-10	3.13E-10	1.35E-10	1.35E-10	3.57E-11	3.57E-11	8.53E-11	8.53E-11	9.34E-12	9.34E-12	2.28E-09	2.28E-09	8760
WILLOWAIR2	1.06E-07	2.91E-08	2.91E-08	1.20E-09	1.20E-09	1.20E-09	4.52E-09	4.52E-09	4.52E-09	3.13E-10	3.13E-10	1.35E-10	1.35E-10	3.57E-11	3.57E-11	8.53E-11	8.53E-11	9.34E-12	9.34E-12	2.28E-09	2.28E-09	8760
WILLOWAIR3	1.06E-07	2.91E-08	2.91E-08	1.20E-09	1.20E-09	1.20E-09	4.52E-09	4.52E-09	4.52E-09	3.13E-10	3.13E-10	1.35E-10	1.35E-10	3.57E-11	3.57E-11	8.53E-11	8.53E-11	9.34E-12	9.34E-12	2.28E-09	2.28E-09	8760
WOCOPSFUGD	0.00E+00	0.00E+00	0.00E+00	1.11E-01	1.67E-02	1.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFPCE1	4.45E-07	2.03E-06	2.03E-06	1.53E-07	1.51E-07	1.51E-07	2.64E-09	2.64E-09	2.64E-09	3.92E-10	3.92E-10	2.28E-10	2.28E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-10	7.99E-10	8760
WCFPCE2	4.45E-07	2.03E-06	2.03E-06	1.53E-07	1.51E-07	1.51E-07	2.64E-09	2.64E-09	2.64E-09	3.92E-10	3.92E-10	2.28E-10	2.28E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-10	7.99E-10	8760
WCFPCE3	4.45E-07	2.03E-06	2.03E-06	1.53E-07	1.51E-07	1.51E-07	2.64E-09	2.64E-09	2.64E-09	3.92E-10	3.92E-10	2.28E-10	2.28E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-10	7.99E-10	8760
WCFPCE4	4.45E-07	2.03E-06	2.03E-06	1.53E-07	1.51E-07	1.51E-07	2.64E-09	2.64E-09	2.64E-09	3.92E-10	3.92E-10	2.28E-10	2.28E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-10	7.99E-10	8760
WCFPCE5	4.45E-07	2.03E-06	2.03E-06	1.53E-07	1.51E-07	1.51E-07	2.64E-09	2.64E-09	2.64E-09	3.92E-10	3.92E-10	2.28E-10	2.28E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-10	7.99E-10	8760
WCFPCE6	4.45E-07	2.03E-06	2.03E-06	1.53E-07	1.51E-07	1.51E-07	2.64E-09	2.64E-09	2.64E-09	3.92E-10	3.92E-10	2.28E-10	2.28E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-10	7.99E-10	8760
WCFPCE7	4.45E-07	2.03E-06	2.03E-06	1.53E-07	1.51E-07	1.51E-07	2.64E-09	2.64E-09	2.64E-09	3.92E-10	3.92E-10	2.28E-10	2.28E-10	1.20E-10	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-10	7.99E-10	8760
WCFSCE1	3.30E-07	4.14E-07	4.14E-07	3.16E-08	3.16E-08	3.16E-08	2.81E-08	2.81E-08	2.81E-08	8.74E-12	8.74E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.12E-10	3.12E-10	8760
WCFSCE2	3.30E-07	4.14E-07	4.14E-07	3.16E-08	3.16E-08	3.16E-08	2.81E-08	2.81E-08	2.81E-08	8.74E-12	8.74E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.12E-10	3.12E-10	8760
WCFSCE3	3.30E-07	4.14E-07	4.14E-07	3.16E-08	3.16E-08	3.16E-08	2.81E-08	2.81E-08	2.81E-08	8.74E-12	8.74E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.12E-10	3.12E-10	8760
WCFSCE4	3.30E-07	4.14E-07	4.14E-07	3.16E-08	3.16E-08	3.16E-08	2.81E-08	2.81E-08	2.81E-08	8.74E-12	8.74E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.12E-10	3.12E-10	8760
WCFSCE5	3.30E-07	4.14E-07	4.14E-07	3.16E-08	3.16E-08	3.16E-08	2.81E-08	2.81E-08	2.81E-08	8.74E-12	8.74E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.12E-10	3.12E-10	8760
WCFSCE6	3.30E-07	4.14E-07	4.14E-07	3.16E-08	3.16E-08	3.16E-08	2.81E-08	2.81E-08	2.81E-08	8.74E-12	8.74E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.12E-10	3.12E-10	8760
WCFSCE7	3.30E-07	4.14E-07	4.14E-07	3.16E-08	3.16E-08	3.16E-08	2.81E-08	2.81E-08	2.81E-08	8.74E-12	8.74E-12	1.42E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-11	2.64E-11	3.12E-10	3.12E-10	8760
WCFNRE1	1.96E-06	9.11E-06	9.11E-06	6.46E-07	6.46E-07	6.46E-07	3.19E-09	3.19E-09	3.19E-09	1.92E-09	1.92E-09	8.41E-10	8.41E-10	5.86E-10	5.86E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-09	2.43E-09	8760
WCFNRE2	1.96E-06	9.11E-06	9.11E-06	6.46E-07	6.46E-07	6.46E-07	3.19E-09	3.19E-09	3.19E-09	1.92E-09	1.92E-09	8.41E-10	8.41E-10	5.86E-10	5.86E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-09	2.43E-09	8760
WCFNRE3	1.96E-06	9.11E-06	9.11E-06	6.46E-07	6.46E-07	6.46E-07	3.19E-09	3.19E-09	3.19E-09	1.92E-09	1.92E-09	8.41E-10	8.41E-10	5.86E-10	5.86E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-09	2.43E-09	8760
WCFNRE4	1.96E-06	9.11E-06	9.11E-06	6.46E-07	6.46E-07	6.46E-07	3.19E-09	3.19E-09	3.19E-09	1.92E-09	1.92E-09	8.41E-10	8.41E-10	5.86E-10	5.86E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-09	2.43E-09	8760
WCFNRE5	1.96E-06	9.11E-06	9.11E-06	6.46E-07	6.46E-07	6.46E-07	3.19E-09	3.19E-09	3.19E-09	1.92E-09	1.92E-09	8.41E-10	8.41E-10	5.86E-10	5.86E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-09	2.43E-09	8760
WCFNRE6	1.96E-06	9.11E-06	9.11E-06	6.46E-07	6.46E-07	6.46E-07	3.19E-09	3.19E-09	3.19E-09	1.92E-09	1.92E-09	8.41E-10	8.41E-10	5.86E-10	5.86E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-09	2.43E-09	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WCFNRE7	1.96E-06	9.11E-06	9.11E-06	6.46E-07	6.46E-07	6.46E-07	3.19E-09	3.19E-09	3.19E-09	1.92E-09	1.92E-09	8.41E-10	8.41E-10	5.86E-10	5.86E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-09	2.43E-09	8760
WLW2GEN	1.19E-01	5.87E-01	6.08E-01	3.46E-02	3.46E-02	3.53E-02	3.51E-04	3.51E-04	3.51E-04	1.91E-04	2.05E-04	7.62E-05	8.20E-05	5.24E-05	5.24E-05	2.47E-07	4.32E-06	0.00E+00	0.00E+00	1.24E-04	1.41E-04	8760
BT3NRE1	1.95E-06	2.08E-06	2.08E-07	2.09E-07	2.06E-07	2.06E-08	4.32E-09	4.32E-09	4.32E-10	1.33E-09	1.33E-10	6.42E-10	6.42E-11	6.32E-13	6.32E-14	4.06E-10	4.06E-11	0.00E+00	0.00E+00	1.23E-09	1.23E-10	876
BT3WIN1	2.64E-06	3.70E-06	1.46E-06	3.79E-07	3.61E-07	1.43E-07	1.81E-08	1.81E-08	7.15E-09	1.71E-09	6.73E-10	1.19E-09	4.68E-10	4.57E-12	1.80E-12	5.24E-10	2.07E-10	0.00E+00	0.00E+00	4.37E-09	1.72E-09	288
3WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
BT1NRE1	1.81E-06	1.93E-06	1.93E-07	1.93E-07	1.91E-07	1.91E-08	4.01E-09	4.01E-09	4.01E-10	1.23E-09	1.23E-10	5.95E-10	5.95E-11	5.85E-13	5.85E-14	3.76E-10	3.76E-11	0.00E+00	0.00E+00	1.14E-09	1.14E-10	876
BT1WIN1	2.45E-06	3.43E-06	1.35E-06	3.51E-07	3.35E-07	1.32E-07	1.68E-08	1.68E-08	6.62E-09	1.58E-09	6.24E-10	1.10E-09	4.34E-10	4.23E-12	1.67E-12	4.86E-10	1.92E-10	0.00E+00	0.00E+00	4.05E-09	1.60E-09	288
1WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
BT2NRE1	1.83E-06	1.95E-06	1.95E-07	1.96E-07	1.93E-07	1.93E-08	4.06E-09	4.06E-09	4.06E-10	1.25E-09	1.25E-10	6.03E-10	6.03E-11	5.92E-13	5.92E-14	3.81E-10	3.81E-11	0.00E+00	0.00E+00	1.16E-09	1.16E-10	876
BT2WIN1	2.48E-06	3.47E-06	1.37E-06	3.56E-07	3.39E-07	1.43E-07	1.70E-08	1.70E-08	6.70E-09	1.60E-09	6.31E-10	1.11E-09	4.39E-10	4.28E-12	1.69E-12	4.92E-10	1.94E-10	0.00E+00	0.00E+00	4.10E-09	1.62E-09	288
2WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
BT5NRE1	2.32E-06	2.47E-06	2.47E-07	2.48E-07	2.45E-07	2.45E-08	5.14E-09	5.14E-09	5.14E-10	1.58E-09	1.58E-10	7.64E-10	7.64E-11	7.51E-13	7.51E-14	4.83E-10	4.83E-11	0.00E+00	0.00E+00	1.47E-09	1.47E-10	876
BT5WIN1	3.14E-06	4.40E-06	1.74E-06	4.51E-07	4.30E-07	1.69E-07	2.15E-08	2.15E-08	8.50E-09	2.03E-09	8.00E-10	1.41E-09	5.56E-10	5.43E-12	2.14E-12	6.23E-10	2.46E-10	0.00E+00	0.00E+00	5.20E-09	2.05E-09	288
5WELLINTE	2.46E-01	2.81E-01	1.11E-01	1.40E-02	1.40E-02	5.54E-03	5.18E-04	5.18E-04	2.04E-04	2.32E-04	9.15E-05	8.40E-05	3.31E-05	0.00E+00	0.00E+00	5.77E-05	2.28E-05	0.00E+00	0.00E+00	2.36E-05	9.30E-06	288
WOCPCE	7.88E-08	3.56E-07	3.56E-07	2.83E-08	2.75E-08	2.75E-08	7.86E-10	7.86E-10	7.86E-10	6.22E-11	6.22E-11	4.67E-11	4.67E-11	1.90E-11	1.90E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-10	1.83E-10	8760
WOCSCE	6.12E-08	1.07E-07	1.07E-07	8.44E-09	8.44E-09	8.44E-09	7.50E-09	7.50E-09	7.50E-09	2.33E-12	2.33E-12	3.77E-12	3.77E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-12	6.99E-12	8.33E-11	8.33E-11	8760
WOCNRE	5.55E-07	2.47E-06	1.86E-06	2.08E-07	1.99E-07	1.35E-07	7.98E-09	7.98E-09	1.46E-09	3.82E-10	3.76E-10	3.77E-10	1.89E-10	1.17E-10	1.15E-10	3.74E-12	4.27E-13	0.00E+00	0.00E+00	1.61E-09	6.04E-10	8760
1TAIL1	1.39E-05	1.35E-05	1.35E-05	1.95E-06	6.80E-07	6.80E-07	7.13E-08	7.13E-08	7.13E-08	1.57E-08	1.57E-08	1.93E-08	1.93E-08	6.39E-09	6.39E-09	2.10E-08	2.10E-08	6.75E-09	6.75E-09	1.80E-07	1.80E-07	8760
1TAIL2	1.39E-05	1.35E-05	1.35E-05	1.95E-06	6.80E-07	6.80E-07	7.13E-08	7.13E-08	7.13E-08	1.57E-08	1.57E-08	1.93E-08	1.93E-08	6.39E-09	6.39E-09	2.10E-08	2.10E-08	6.75E-09	6.75E-09	1.80E-07	1.80E-07	8760
1TAIL3	1.39E-05	1.35E-05	1.35E-05	1.95E-06	6.80E-07	6.80E-07	7.13E-08	7.13E-08	7.13E-08	1.57E-08	1.57E-08	1.93E-08	1.93E-08	6.39E-09	6.39E-09	2.10E-08	2.10E-08	6.75E-09	6.75E-09	1.80E-07	1.80E-07	8760
1TAIL4	1.39E-05	1.35E-05	1.35E-05	1.95E-06	6.80E-07	6.80E-07	7.13E-08	7.13E-08	7.13E-08	1.57E-08	1.57E-08	1.93E-08	1.93E-08	6.39E-09	6.39E-09	2.10E-08	2.10E-08	6.75E-09	6.75E-09	1.80E-07	1.80E-07	8760
1TAIL5	1.39E-05	1.35E-05	1.35E-05	1.95E-06	6.80E-07	6.80E-07	7.13E-08	7.13E-08	7.13E-08	1.57E-08	1.57E-08	1.93E-08	1.93E-08	6.39E-09	6.39E-09	2.10E-08	2.10E-08	6.75E-09	6.75E-09	1.80E-07	1.80E-07	8760
1TAIL6	1.39E-05	1.35E-05	1.35E-05	1.95E-06	6.80E-07	6.80E-07	7.13E-08	7.13E-08	7.13E-08	1.57E-08	1.57E-08	1.93E-08	1.93E-08	6.39E-09	6.39E-09	2.10E-08	2.10E-08	6.75E-09	6.75E-09	1.80E-07	1.80E-07	8760
1TAIL7	1.39E-05	1.35E-05	1.35E-05	1.95E-06	6.80E-07	6.80E-07	7.13E-08	7.13E-08	7.13E-08	1.57E-08	1.57E-08	1.93E-08	1.93E-08	6.39E-09	6.39E-09	2.10E-08	2.10E-08	6.75E-09	6.75E-09	1.80E-07	1.80E-07	8760
1TAIL8	1.39E-05	1.35E-05	1.35E-05	1.95E-06	6.80E-07	6.80E-07	7.13E-08	7.13E-08	7.13E-08	1.57E-08	1.57E-08	1.93E-08	1.93E-08	6.39E-09	6.39E-09	2.10E-08	2.10E-08	6.75E-09	6.75E-09	1.80E-07	1.80E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
1TAIL9	1.39E-05	1.35E-05	1.35E-05	1.95E-06	6.80E-07	6.80E-07	7.13E-08	7.13E-08	7.13E-08	1.57E-08	1.57E-08	1.93E-08	1.93E-08	6.39E-09	6.39E-09	2.10E-08	2.10E-08	6.75E-09	6.75E-09	1.80E-07	1.80E-07	8760
2TAIL1	1.33E-05	1.29E-05	1.29E-05	1.87E-06	6.49E-07	6.49E-07	6.81E-08	6.81E-08	6.81E-08	1.50E-08	1.50E-08	1.85E-08	1.85E-08	6.11E-09	6.11E-09	2.01E-08	2.01E-08	6.45E-09	6.45E-09	1.72E-07	1.72E-07	8760
2TAIL2	1.33E-05	1.29E-05	1.29E-05	1.87E-06	6.49E-07	6.49E-07	6.81E-08	6.81E-08	6.81E-08	1.50E-08	1.50E-08	1.85E-08	1.85E-08	6.11E-09	6.11E-09	2.01E-08	2.01E-08	6.45E-09	6.45E-09	1.72E-07	1.72E-07	8760
2TAIL3	1.33E-05	1.29E-05	1.29E-05	1.87E-06	6.49E-07	6.49E-07	6.81E-08	6.81E-08	6.81E-08	1.50E-08	1.50E-08	1.85E-08	1.85E-08	6.11E-09	6.11E-09	2.01E-08	2.01E-08	6.45E-09	6.45E-09	1.72E-07	1.72E-07	8760
2TAIL4	1.33E-05	1.29E-05	1.29E-05	1.87E-06	6.49E-07	6.49E-07	6.81E-08	6.81E-08	6.81E-08	1.50E-08	1.50E-08	1.85E-08	1.85E-08	6.11E-09	6.11E-09	2.01E-08	2.01E-08	6.45E-09	6.45E-09	1.72E-07	1.72E-07	8760
2TAIL5	1.33E-05	1.29E-05	1.29E-05	1.87E-06	6.49E-07	6.49E-07	6.81E-08	6.81E-08	6.81E-08	1.50E-08	1.50E-08	1.85E-08	1.85E-08	6.11E-09	6.11E-09	2.01E-08	2.01E-08	6.45E-09	6.45E-09	1.72E-07	1.72E-07	8760
2TAIL6	1.33E-05	1.29E-05	1.29E-05	1.87E-06	6.49E-07	6.49E-07	6.81E-08	6.81E-08	6.81E-08	1.50E-08	1.50E-08	1.85E-08	1.85E-08	6.11E-09	6.11E-09	2.01E-08	2.01E-08	6.45E-09	6.45E-09	1.72E-07	1.72E-07	8760
3TAIL1	9.69E-06	9.79E-06	9.79E-06	1.29E-06	4.64E-07	4.64E-07	5.31E-08	5.31E-08	5.31E-08	1.08E-08	1.08E-08	1.34E-08	1.34E-08	4.43E-09	4.43E-09	1.45E-08	1.45E-08	4.77E-09	4.77E-09	1.23E-07	1.23E-07	8760
3TAIL2	9.69E-06	9.79E-06	9.79E-06	1.29E-06	4.64E-07	4.64E-07	5.31E-08	5.31E-08	5.31E-08	1.08E-08	1.08E-08	1.34E-08	1.34E-08	4.43E-09	4.43E-09	1.45E-08	1.45E-08	4.77E-09	4.77E-09	1.23E-07	1.23E-07	8760
3TAIL3	9.69E-06	9.79E-06	9.79E-06	1.29E-06	4.64E-07	4.64E-07	5.31E-08	5.31E-08	5.31E-08	1.08E-08	1.08E-08	1.34E-08	1.34E-08	4.43E-09	4.43E-09	1.45E-08	1.45E-08	4.77E-09	4.77E-09	1.23E-07	1.23E-07	8760
3TAIL4	9.69E-06	9.79E-06	9.79E-06	1.29E-06	4.64E-07	4.64E-07	5.31E-08	5.31E-08	5.31E-08	1.08E-08	1.08E-08	1.34E-08	1.34E-08	4.43E-09	4.43E-09	1.45E-08	1.45E-08	4.77E-09	4.77E-09	1.23E-07	1.23E-07	8760
3TAIL5	9.69E-06	9.79E-06	9.79E-06	1.29E-06	4.64E-07	4.64E-07	5.31E-08	5.31E-08	5.31E-08	1.08E-08	1.08E-08	1.34E-08	1.34E-08	4.43E-09	4.43E-09	1.45E-08	1.45E-08	4.77E-09	4.77E-09	1.23E-07	1.23E-07	8760
3TAIL6	9.69E-06	9.79E-06	9.79E-06	1.29E-06	4.64E-07	4.64E-07	5.31E-08	5.31E-08	5.31E-08	1.08E-08	1.08E-08	1.34E-08	1.34E-08	4.43E-09	4.43E-09	1.45E-08	1.45E-08	4.77E-09	4.77E-09	1.23E-07	1.23E-07	8760
3TAIL7	8.17E-06	7.94E-06	7.94E-06	1.03E-06	3.76E-07	3.76E-07	4.24E-08	4.24E-08	4.24E-08	9.00E-09	9.00E-09	1.09E-08	1.09E-08	3.65E-09	3.65E-09	1.18E-08	1.18E-08	3.88E-09	3.88E-09	1.02E-07	1.02E-07	8760
5TAIL1	9.69E-06	9.79E-06	9.79E-06	1.29E-06	4.64E-07	4.64E-07	5.13E-08	5.31E-08	5.31E-08	1.08E-08	1.08E-08	1.34E-08	1.34E-08	4.43E-09	4.43E-09	1.45E-08	1.45E-08	4.77E-09	4.77E-09	1.23E-07	1.23E-07	8760
5TAIL2	9.69E-06	9.79E-06	9.79E-06	1.29E-06	4.64E-07	4.64E-07	5.13E-08	5.31E-08	5.31E-08	1.08E-08	1.08E-08	1.34E-08	1.34E-08	4.43E-09	4.43E-09	1.45E-08	1.45E-08	4.77E-09	4.77E-09	1.23E-07	1.23E-07	8760
5TAIL3	9.69E-06	9.79E-06	9.79E-06	1.29E-06	4.64E-07	4.64E-07	5.13E-08	5.31E-08	5.31E-08	1.08E-08	1.08E-08	1.34E-08	1.34E-08	4.43E-09	4.43E-09	1.45E-08	1.45E-08	4.77E-09	4.77E-09	1.23E-07	1.23E-07	8760
5TAIL4	9.69E-06	9.79E-06	9.79E-06	1.29E-06	4.64E-07	4.64E-07	5.13E-08	5.31E-08	5.31E-08	1.08E-08	1.08E-08	1.34E-08	1.34E-08	4.43E-09	4.43E-09	1.45E-08	1.45E-08	4.77E-09	4.77E-09	1.23E-07	1.23E-07	8760
5TAIL5	9.69E-06	9.79E-06	9.79E-06	1.29E-06	4.64E-07	4.64E-07	5.13E-08	5.31E-08	5.31E-08	1.08E-08	1.08E-08	1.34E-08	1.34E-08	4.43E-09	4.43E-09	1.45E-08	1.45E-08	4.77E-09	4.77E-09	1.23E-07	1.23E-07	8760
5TAIL6	9.69E-06	9.79E-06	9.79E-06	1.29E-06	4.64E-07	4.64E-07	5.13E-08	5.31E-08	5.31E-08	1.08E-08	1.08E-08	1.34E-08	1.34E-08	4.43E-09	4.43E-09	1.45E-08	1.45E-08	4.77E-09	4.77E-09	1.23E-07	1.23E-07	8760
5TAIL7	9.69E-06	9.79E-06	9.79E-06	1.29E-06	4.64E-07	4.64E-07	5.13E-08	5.31E-08	5.31E-08	1.08E-08	1.08E-08	1.34E-08	1.34E-08	4.43E-09	4.43E-09	1.45E-08	1.45E-08	4.77E-09	4.77E-09	1.23E-07	1.23E-07	8760
WOCTAIL1	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL2	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL3	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL4	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCTAIL5	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL6	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL7	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL8	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL9	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL10	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL11	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL12	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL13	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL14	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL15	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL16	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL17	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL18	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL19	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL20	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL21	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL22	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL23	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL24	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL25	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL26	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL27	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL28	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL29	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCTAIL30	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL31	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL32	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
WOCTAIL33	1.21E-05	1.17E-05	1.17E-05	1.69E-06	5.89E-07	5.89E-07	6.18E-08	6.18E-08	6.18E-08	1.36E-08	1.36E-08	1.68E-08	1.68E-08	5.54E-09	5.54E-09	1.83E-08	1.83E-08	5.85E-09	5.85E-09	1.56E-07	1.56E-07	8760
AIRTAIL1	1.03E-05	1.04E-05	1.04E-05	1.37E-06	4.91E-07	4.91E-07	5.62E-08	5.62E-08	5.62E-08	1.15E-08	1.15E-08	1.42E-08	1.42E-08	4.69E-09	4.69E-09	1.54E-08	1.54E-08	5.05E-09	5.05E-09	1.31E-07	1.31E-07	8760
AIRTAIL2	1.03E-05	1.04E-05	1.04E-05	1.37E-06	4.91E-07	4.91E-07	5.62E-08	5.62E-08	5.62E-08	1.15E-08	1.15E-08	1.42E-08	1.42E-08	4.69E-09	4.69E-09	1.54E-08	1.54E-08	5.05E-09	5.05E-09	1.31E-07	1.31E-07	8760
AIRTAIL3	1.03E-05	1.04E-05	1.04E-05	1.37E-06	4.91E-07	4.91E-07	5.62E-08	5.62E-08	5.62E-08	1.15E-08	1.15E-08	1.42E-08	1.42E-08	4.69E-09	4.69E-09	1.54E-08	1.54E-08	5.05E-09	5.05E-09	1.31E-07	1.31E-07	8760
AIRTAIL4	1.03E-05	1.04E-05	1.04E-05	1.37E-06	4.91E-07	4.91E-07	5.62E-08	5.62E-08	5.62E-08	1.15E-08	1.15E-08	1.42E-08	1.42E-08	4.69E-09	4.69E-09	1.54E-08	1.54E-08	5.05E-09	5.05E-09	1.31E-07	1.31E-07	8760
AIRTAIL5	1.03E-05	1.04E-05	1.04E-05	1.37E-06	4.91E-07	4.91E-07	5.62E-08	5.62E-08	5.62E-08	1.15E-08	1.15E-08	1.42E-08	1.42E-08	4.69E-09	4.69E-09	1.54E-08	1.54E-08	5.05E-09	5.05E-09	1.31E-07	1.31E-07	8760
AIRTAIL6	1.03E-05	1.04E-05	1.04E-05	1.37E-06	4.91E-07	4.91E-07	5.62E-08	5.62E-08	5.62E-08	1.15E-08	1.15E-08	1.42E-08	1.42E-08	4.69E-09	4.69E-09	1.54E-08	1.54E-08	5.05E-09	5.05E-09	1.31E-07	1.31E-07	8760
AIRTAIL7	1.03E-05	1.04E-05	1.04E-05	1.37E-06	4.91E-07	4.91E-07	5.62E-08	5.62E-08	5.62E-08	1.15E-08	1.15E-08	1.42E-08	1.42E-08	4.69E-09	4.69E-09	1.54E-08	1.54E-08	5.05E-09	5.05E-09	1.31E-07	1.31E-07	8760
WCFTAIL1	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL2	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL3	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL4	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL5	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL6	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL7	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL8	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL9	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL10	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL11	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL12	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL13	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL14	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WCFTAIL15	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL16	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL17	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL18	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
WCFTAIL19	1.51E-05	1.47E-05	1.47E-05	2.12E-06	7.38E-07	7.38E-07	7.75E-07	7.75E-07	7.75E-07	1.71E-08	1.71E-08	2.10E-08	2.10E-08	6.95E-09	6.95E-09	2.29E-08	2.29E-08	7.33E-09	7.33E-09	1.95E-07	1.95E-07	8760
1MFUGD1	0.00E+00	0.00E+00	0.00E+00	4.91E-03	4.79E-04	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD2	0.00E+00	0.00E+00	0.00E+00	4.91E-03	4.79E-04	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD3	0.00E+00	0.00E+00	0.00E+00	4.91E-03	4.79E-04	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD4	0.00E+00	0.00E+00	0.00E+00	4.91E-03	4.79E-04	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD5	0.00E+00	0.00E+00	0.00E+00	4.91E-03	4.79E-04	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD6	0.00E+00	0.00E+00	0.00E+00	4.91E-03	4.79E-04	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD7	0.00E+00	0.00E+00	0.00E+00	4.91E-03	4.79E-04	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD8	0.00E+00	0.00E+00	0.00E+00	4.91E-03	4.79E-04	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
1MFUGD9	0.00E+00	0.00E+00	0.00E+00	4.91E-03	4.79E-04	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD1	0.00E+00	0.00E+00	0.00E+00	4.69E-03	4.57E-04	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD2	0.00E+00	0.00E+00	0.00E+00	4.69E-03	4.57E-04	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD3	0.00E+00	0.00E+00	0.00E+00	4.69E-03	4.57E-04	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD4	0.00E+00	0.00E+00	0.00E+00	4.69E-03	4.57E-04	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD5	0.00E+00	0.00E+00	0.00E+00	4.69E-03	4.57E-04	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
2MFUGD6	0.00E+00	0.00E+00	0.00E+00	4.69E-03	4.57E-04	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.24E-04	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.24E-04	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.24E-04	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.24E-04	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.24E-04	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
3MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.24E-04	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
3MFUGD7	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.24E-04	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD1	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.24E-04	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD2	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.24E-04	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD3	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.24E-04	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD4	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.24E-04	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD5	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.24E-04	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD6	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.24E-04	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
5MFUGD7	0.00E+00	0.00E+00	0.00E+00	3.24E-03	3.24E-04	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD1	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD2	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD3	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD4	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD5	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD6	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD7	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD8	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD9	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD10	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD11	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD12	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD13	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD14	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD15	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD16	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WCFMFUGD17	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD18	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WCFMFUGD19	0.00E+00	0.00E+00	0.00E+00	5.34E-03	5.20E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD1	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD2	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD3	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD4	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD5	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD6	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD7	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD8	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD9	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD10	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD11	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD12	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD13	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD14	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD15	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD16	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD17	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD18	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD19	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD20	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD21	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD22	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
WOCMFUGD23	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD24	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD25	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD26	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD27	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD28	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD29	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD30	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD31	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD32	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCMFUGD33	0.00E+00	0.00E+00	0.00E+00	4.26E-03	4.15E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD1	0.00E+00	0.00E+00	0.00E+00	3.43E-03	3.43E-04	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD2	0.00E+00	0.00E+00	0.00E+00	3.43E-03	3.43E-04	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD3	0.00E+00	0.00E+00	0.00E+00	3.43E-03	3.43E-04	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD4	0.00E+00	0.00E+00	0.00E+00	3.43E-03	3.43E-04	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD5	0.00E+00	0.00E+00	0.00E+00	3.43E-03	3.43E-04	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD6	0.00E+00	0.00E+00	0.00E+00	3.43E-03	3.43E-04	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
AIRMFUGD7	0.00E+00	0.00E+00	0.00E+00	3.43E-03	3.43E-04	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4380
WOCTEMPTRB1	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	9.17E-05	9.17E-05	9.93E-04	9.93E-04	2.45E-04	2.45E-04	4.89E-04	4.89E-04	0.00E+00	0.00E+00	1.68E-03	1.68E-03	8760
WOCTEMPTRB2	4.41E-01	4.35E-01	4.35E-01	5.04E-02	5.04E-02	5.04E-02	5.06E-02	5.06E-02	5.06E-02	9.17E-05	9.17E-05	9.93E-04	9.93E-04	2.45E-04	2.45E-04	4.89E-04	4.89E-04	0.00E+00	0.00E+00	1.68E-03	1.68E-03	8760
RFDGMT1	3.50E-01	3.50E-01	2.69E+00	3.50E-01	3.50E-01	1.29E-01	1.67E-01	1.67E-01	1.67E-01	8.87E-03	8.87E-03	3.32E-03	3.32E-03	1.29E-02	1.29E-02	1.51E-02	1.51E-02	6.49E-02	6.49E-02	3.69E-03	3.69E-03	8760
RFDGMT2	4.06E+00	7.21E+00	7.34E-01	4.06E+00	6.44E-01	7.71E-02	1.40E-02	1.40E-02	6.33E-03	4.03E-04	4.03E-04	4.60E-04	4.60E-04	3.16E-04	3.16E-04	5.75E-04	5.75E-04	6.62E-03	6.62E-03	4.03E-04	4.03E-04	8760
RFDGWPDS1	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	3.02E-03	3.02E-03	8.32E-03	8.32E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.81E-01	1.81E-01	5.98E-05	5.98E-05	8760
RFDGWPDS2	1.25E+01	4.25E+00	4.25E+00	2.84E-01	2.84E-01	2.84E-01	3.87E-02	3.87E-02	3.87E-02	3.02E-03	3.02E-03	8.32E-03	8.32E-03	7.37E-02	7.37E-02	1.45E-01	1.45E-01	1.81E-01	1.81E-01	5.98E-05	5.98E-05	8760
RFDCD5	1.82E+00	2.15E+00	2.15E+00	1.27E-01	1.27E-01	1.27E-01	2.70E-01	2.70E-01	2.70E-01	6.26E-02	6.26E-02	2.31E-02	2.31E-02	5.05E-02	5.05E-02	6.60E-02	6.60E-02	2.54E-01	2.54E-01	1.73E-02	1.73E-02	8760

Source ID	Modeled Emission Rates (g/s)																				Annual Hours
	CO	NO_X		PM_{10}	$PM_{2.5}$		SO_2			Benzene		Toluene		E-Benzene		Xylenes		n-Hexane		Formaldehyde	
	1-hr and 8-hr	1-hr	Annual[1]	24-hr	24-hr	Annual[1]	1-hr	24-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	1-hr	Annual[1]	
RFDACF	7.07E+00	4.74E+01	3.90E+00	5.69E-01	5.69E-01	4.68E-02	1.77E+01	1.77E+01	1.45E+00	8.51E-05	8.51E-05	9.22E-04	9.22E-04	2.27E-04	2.27E-04	4.54E-04	4.54E-04	0.00E+00	0.00E+00	5.04E-03	5.04E-03	8760
RFDCD8	1.30E+00	1.56E+00	1.28E-01	1.78E-01	1.06E-01	8.70E-03	5.25E-02	5.25E-02	4.32E-03	1.62E-03	1.62E-03	4.65E-03	4.65E-03	4.11E-02	4.11E-02	8.10E-02	8.10E-02	1.02E-01	1.02E-01	6.43E-05	6.43E-05	8760
RFDNW	1.30E-01	1.56E-01	1.28E-02	1.78E-02	1.06E-02	8.70E-04	5.25E-03	5.25E-03	4.32E-04	1.62E-04	1.62E-04	4.65E-04	4.65E-04	4.11E-03	4.11E-03	8.10E-03	8.10E-03	1.02E-02	1.02E-02	6.43E-06	6.43E-06	8760
RFDCD1EXP	9.33E-01	6.65E-01	5.47E-02	4.97E-02	4.73E-02	3.89E-03	2.94E-03	2.94E-03	2.42E-04	3.59E-05	3.59E-05	1.82E-05	1.82E-05	4.94E-08	4.94E-08	9.31E-06	9.31E-06	0.00E+00	0.00E+00	5.67E-05	5.67E-05	8760
RFDCD4EXP	1.08E+00	1.96E+00	1.61E-01	1.63E-01	1.25E-01	1.03E-02	2.97E-02	2.97E-02	2.44E-03	1.11E-03	1.11E-03	2.71E-03	2.71E-03	8.42E-05	8.42E-05	3.90E-02	3.90E-02	4.84E-02	4.84E-02	3.73E-03	3.73E-03	8760

1. Annual emission rate calculations are based on the number of actual daily operating hours provided in the EI. If actual daily operating hour timeframes were not known, 8760 hours were assumed.