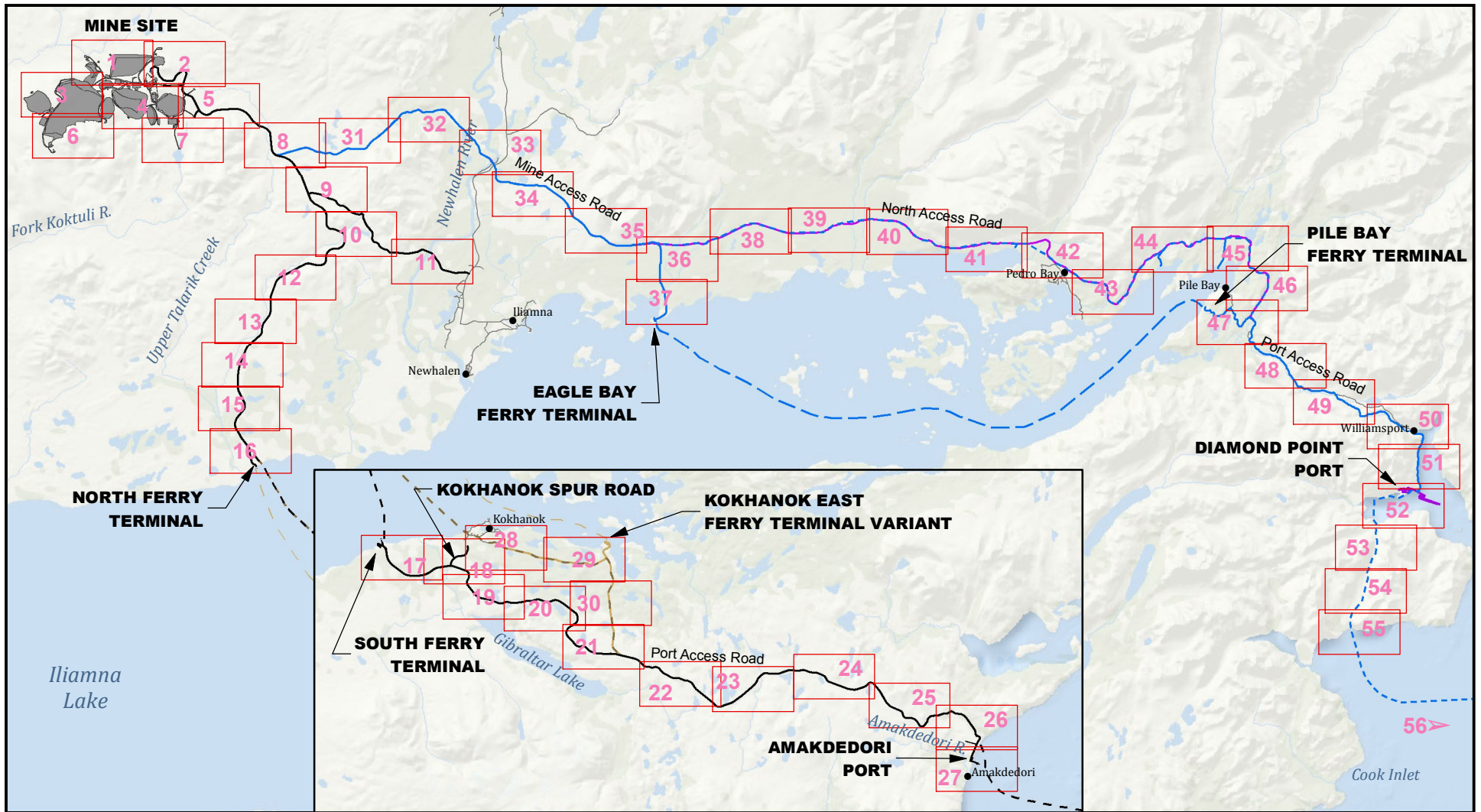


## **K4.22 WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

### **4.22.1 Wetlands and Other Waters Map Series**

Appendix K4.22 comprises the Wetlands and Other Waters Map Series, which includes an Index Sheet followed by Figure K4.22-1 through Figure K4.22-56.



Sources: PLP 2018



US Army Corps of Engineers

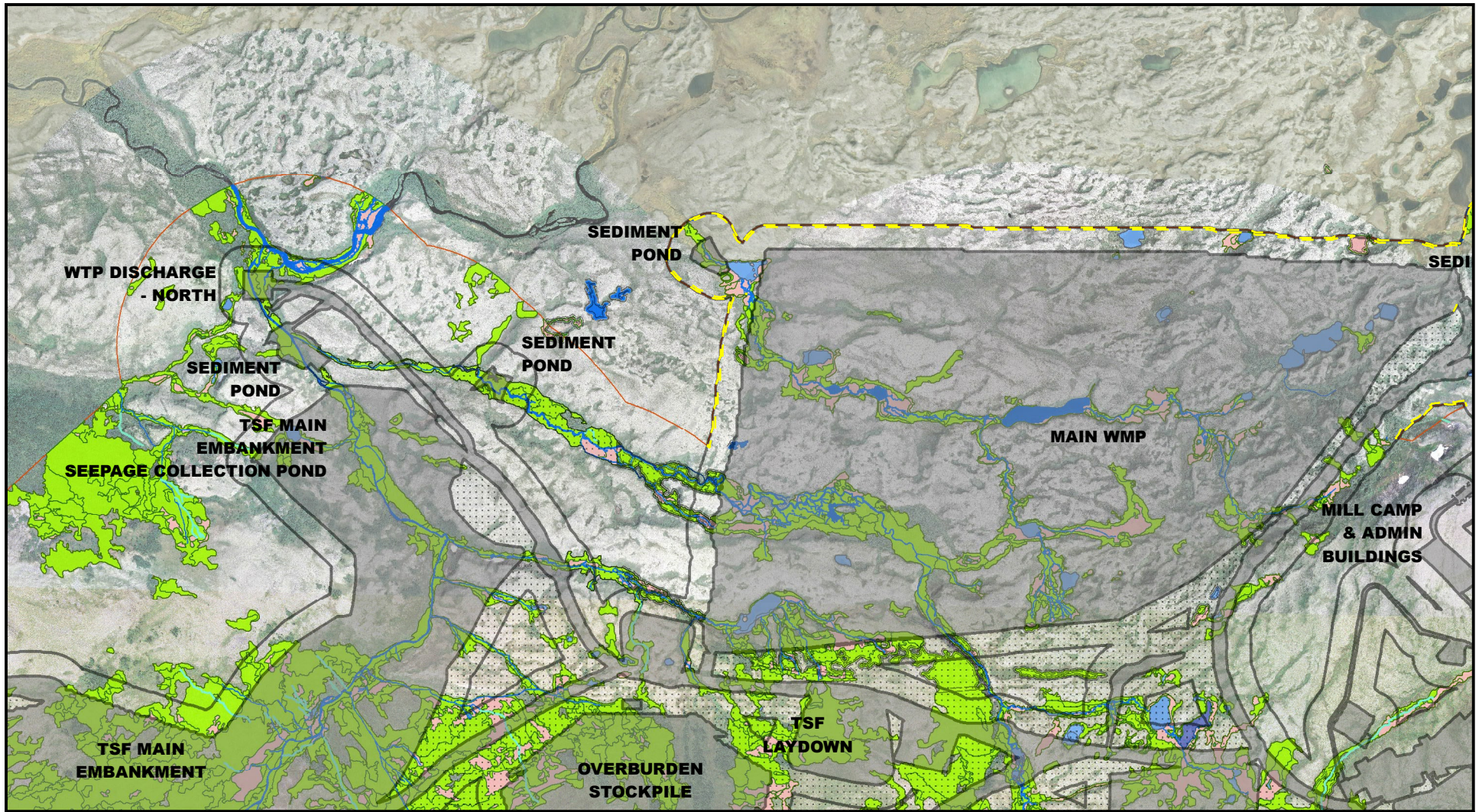


- |   |   |  |  |
|---|---|--|--|
| <span style="border: 1px solid red; display: inline-block; width: 15px; height: 10px;"></span> K4.22 Page Number  | <span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Transportation Corridor | <span style="border-bottom: 1px solid blue; width: 20px; display: inline-block;"></span> Transportation Corridor | <span style="border-bottom: 1px dashed black; width: 20px; display: inline-block;"></span> Natural Gas Pipeline    |
| <span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Transportation Corridor | <span style="border-bottom: 1px dashed black; width: 20px; display: inline-block;"></span> Ferry Route            | <span style="border-bottom: 1px dashed blue; width: 20px; display: inline-block;"></span> Ferry Route            | <span style="background-color: purple; width: 10px; height: 10px; display: inline-block;"></span> Port Site        |
| <span style="background-color: black; width: 10px; height: 10px; display: inline-block;"></span> Ferry/Port Site  | <span style="background-color: brown; width: 10px; height: 10px; display: inline-block;"></span> Ferry Terminal   | <span style="background-color: blue; width: 10px; height: 10px; display: inline-block;"></span> Ferry Site       | <span style="border-bottom: 1px solid purple; width: 20px; display: inline-block;"></span> Transportation Corridor |
| <span style="background-color: grey; width: 10px; height: 10px; display: inline-block;"></span> Mine Site         |   |  |  |


WETLANDS AND OTHER WATERS MAP SERIES

PEBBLE PROJECT EIS



FIGURE K4.22 INDEX SHEET



Sources: Pebble 2018; HDR; USFWS; UAF

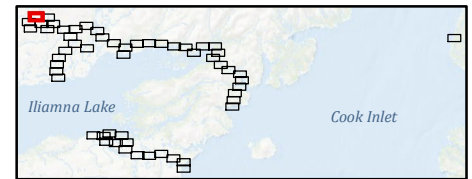


**US Army Corps of Engineers**

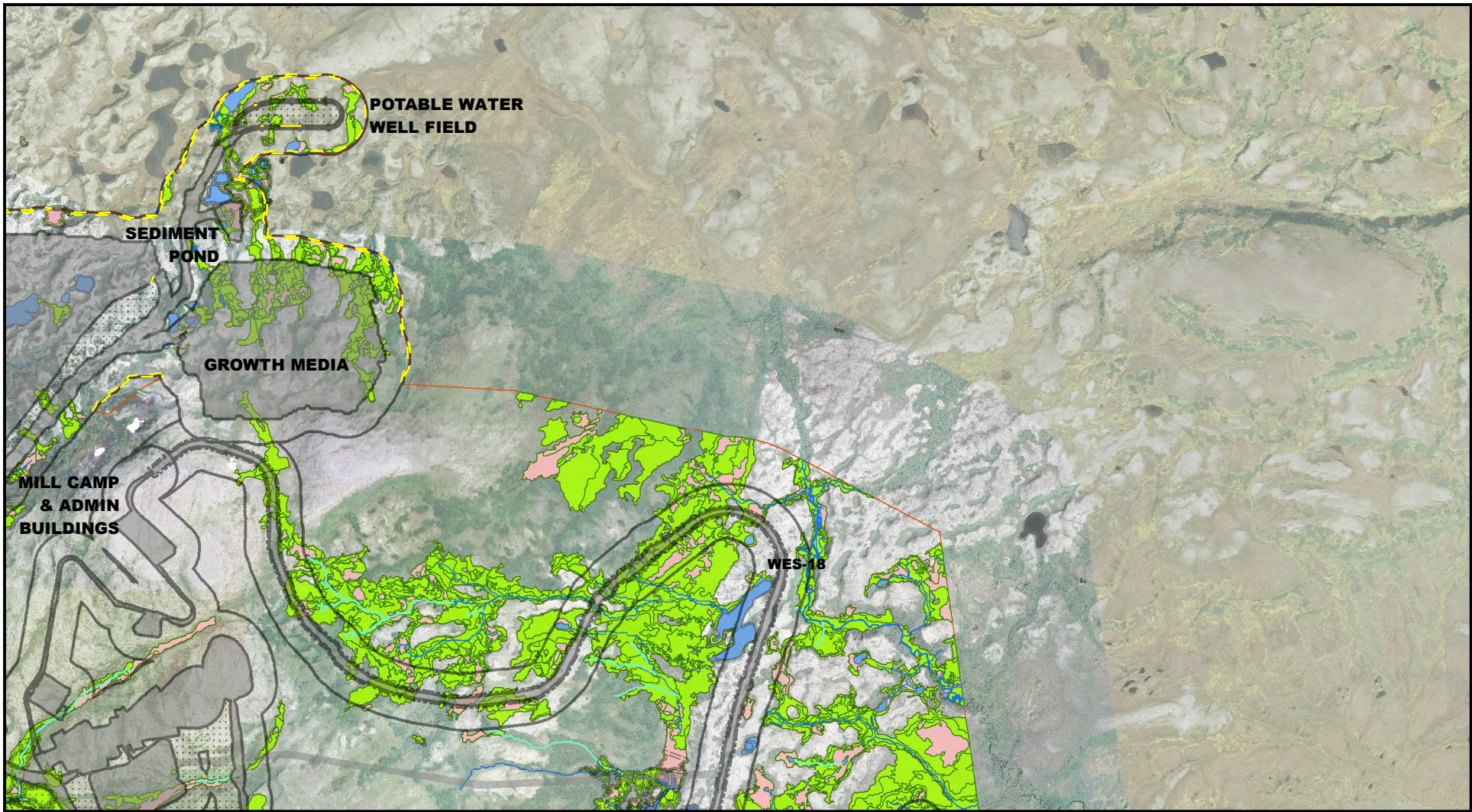



1,000 0 1,000 2,000  
Feet

Impact Type	NWI Classes		USFWS NWI Mapping Areas
Permanent	Aquatic Bed	Lakes	USFWS NWI Mapping Areas
Temporary	Broad Leaved Deciduous Shrubs	Ponds	
Fragmentation	Herbaceous	Rivers/Streams (Intermittent)	
Dust		Rivers/Streams (Perennial)	
Dewatering		Upland	



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



**Impact Type**

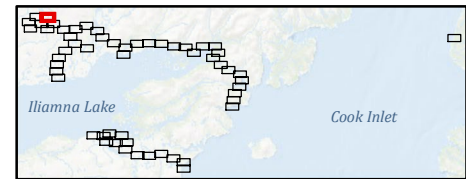
- Permanent
- Temporary
- Fragmentation
- Dust
- Dewatering

**NWI Classes**

- Aquatic Bed
- Broad Leaved Deciduous Shrubs
- Herbaceous

- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

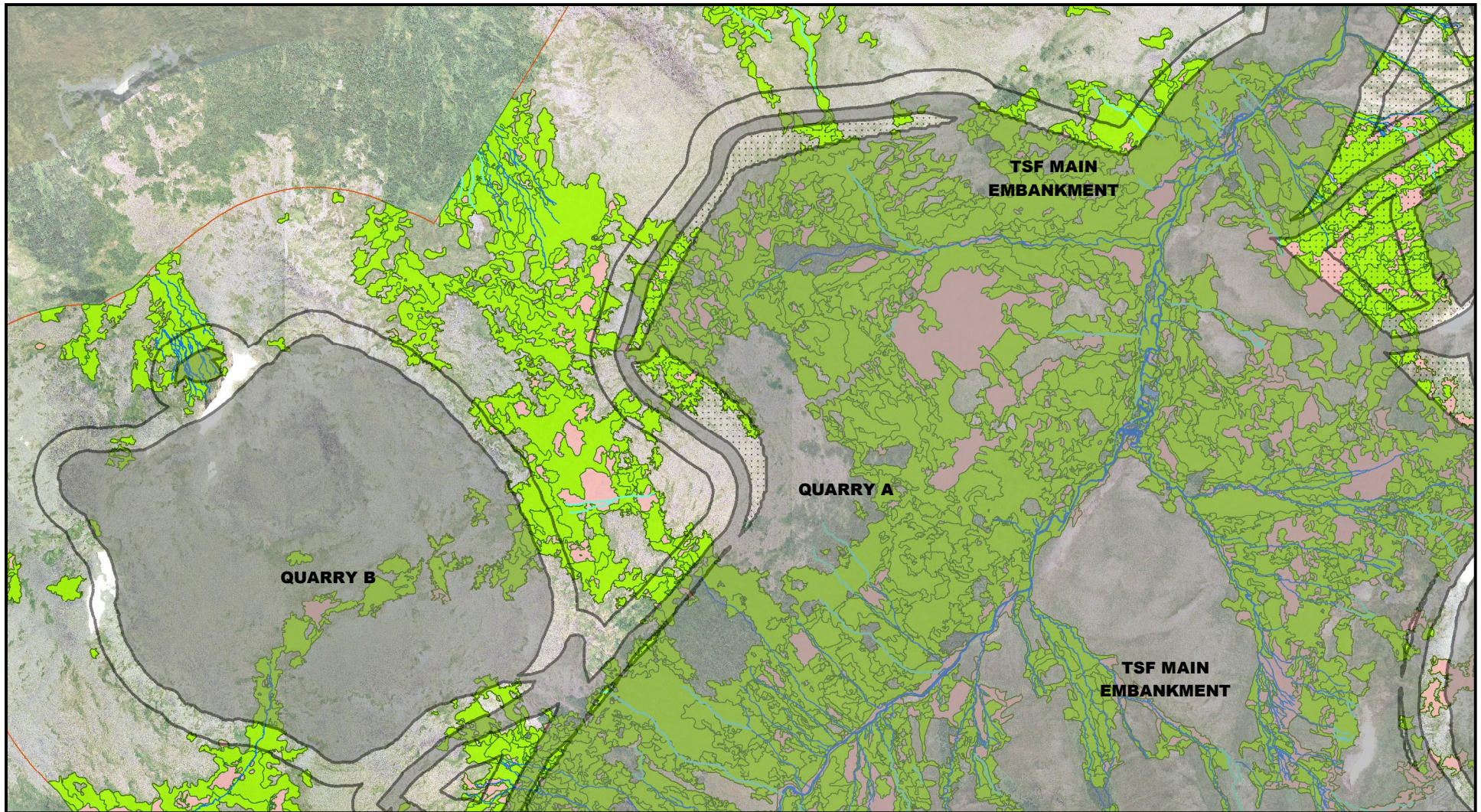
USFWS NWI Mapping Areas



**PEBBLE PROJECT EIS**

**WETLANDS AND OTHER WATERS MAP SERIES**

**FIGURE K4.22-2 of 56**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



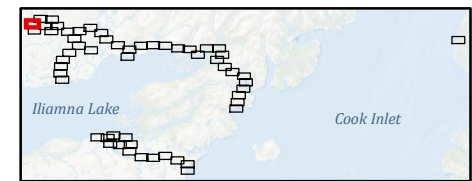
**Impact Type**

- Permanent
- Fragmentation
- Dust

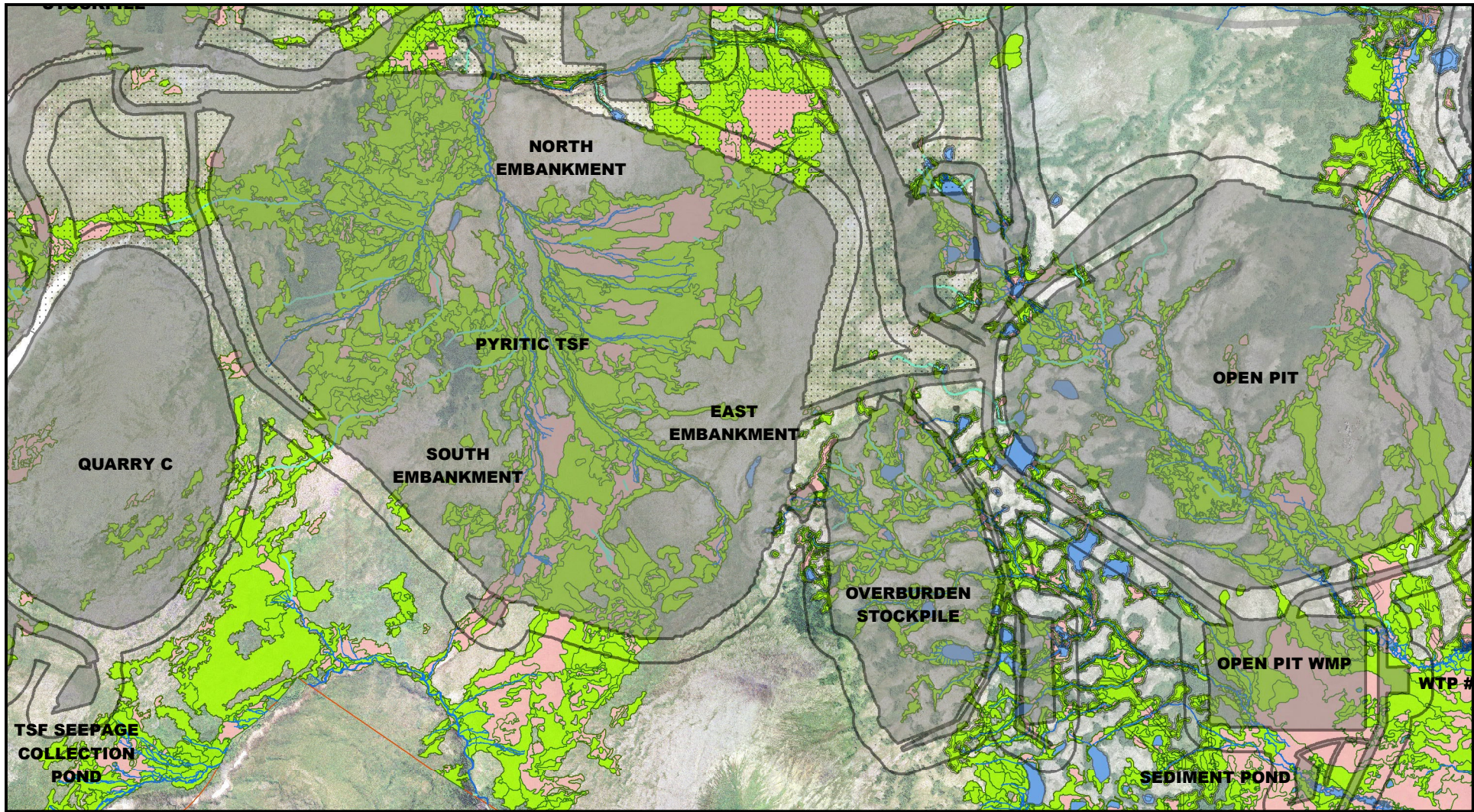
**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Herbaceous

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers



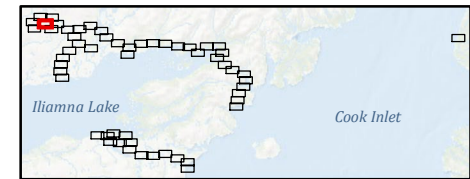
**Impact Type**

- Permanent
- Temporary
- Fragmentation
- Dust
- Dewatering

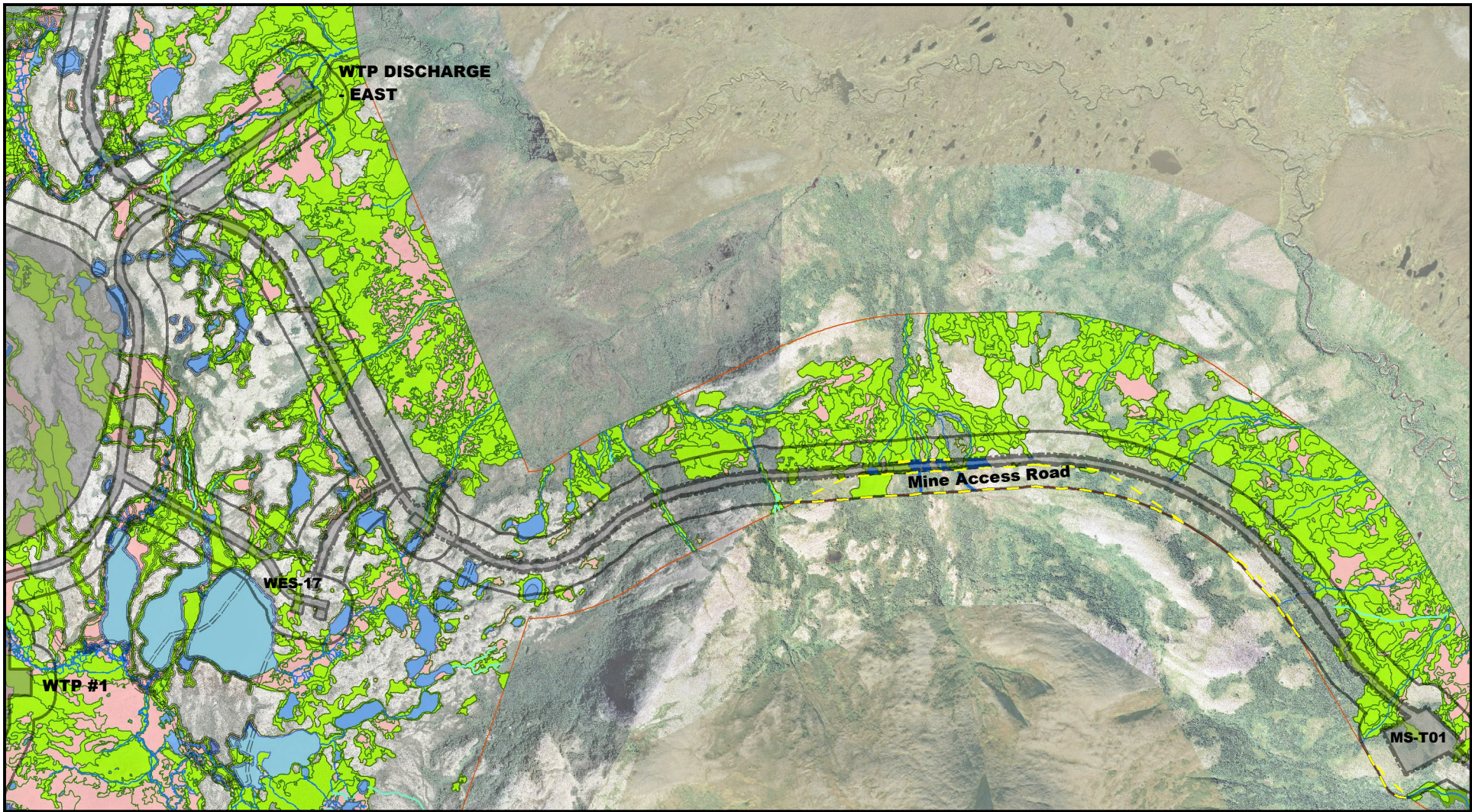
**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Herbaceous

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers



**Impact Type**

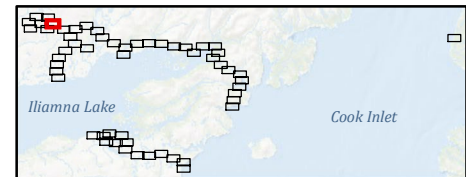
- Permanent
- Temporary
- Dust
- Dewatering

**NWI Classes**

- Aquatic Bed
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Herbaceous

- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

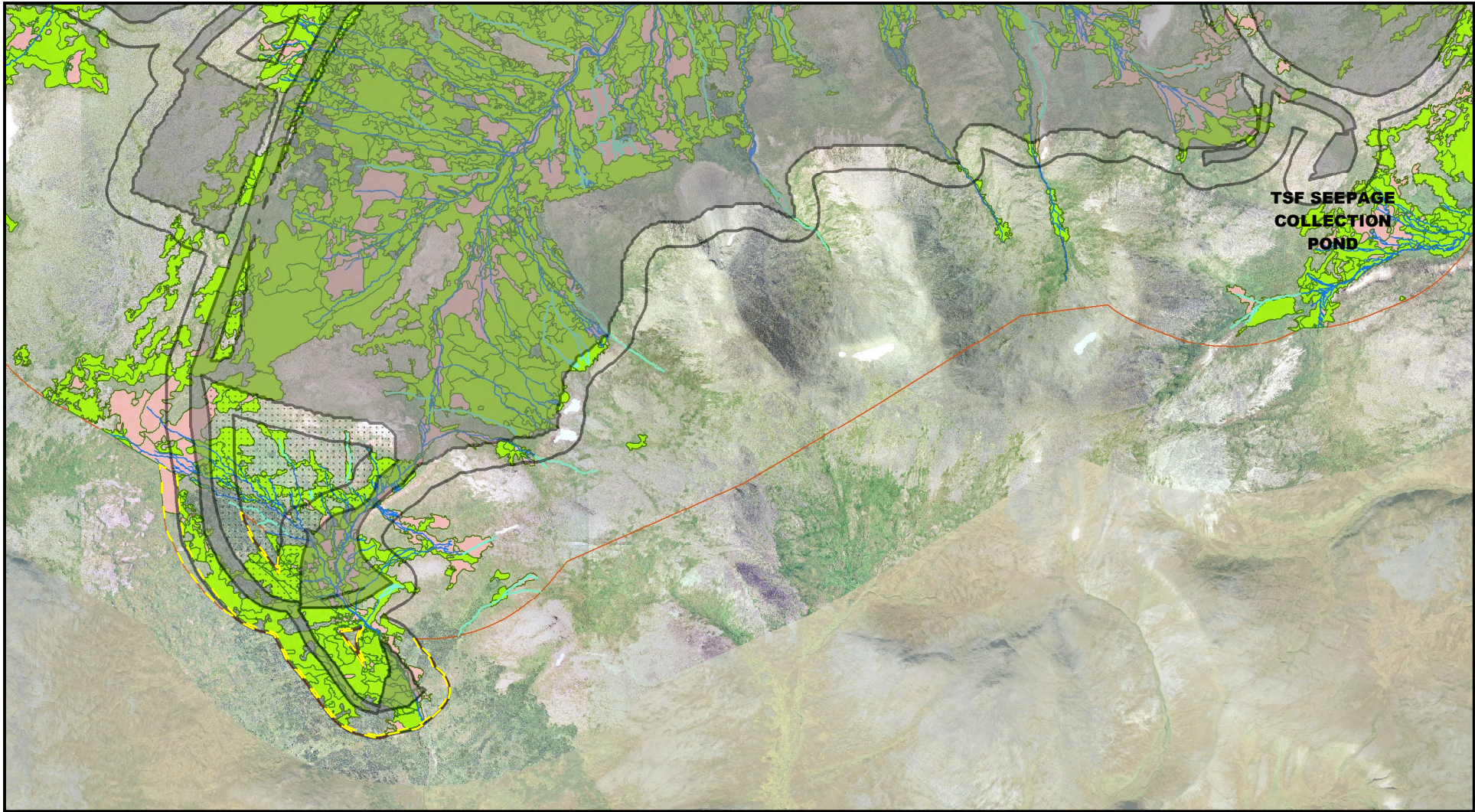
USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**

PEBBLE PROJECT EIS

FIGURE K4.22-5 of 56



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

- Permanent
- Fragmentation
- Dust

**NWI Classes**

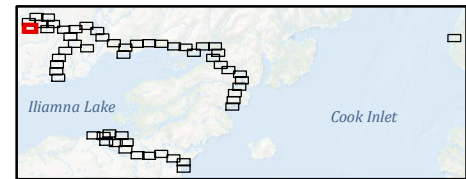
- Broad Leaved Deciduous Shrubs
- Herbaceous

**Water Features**

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

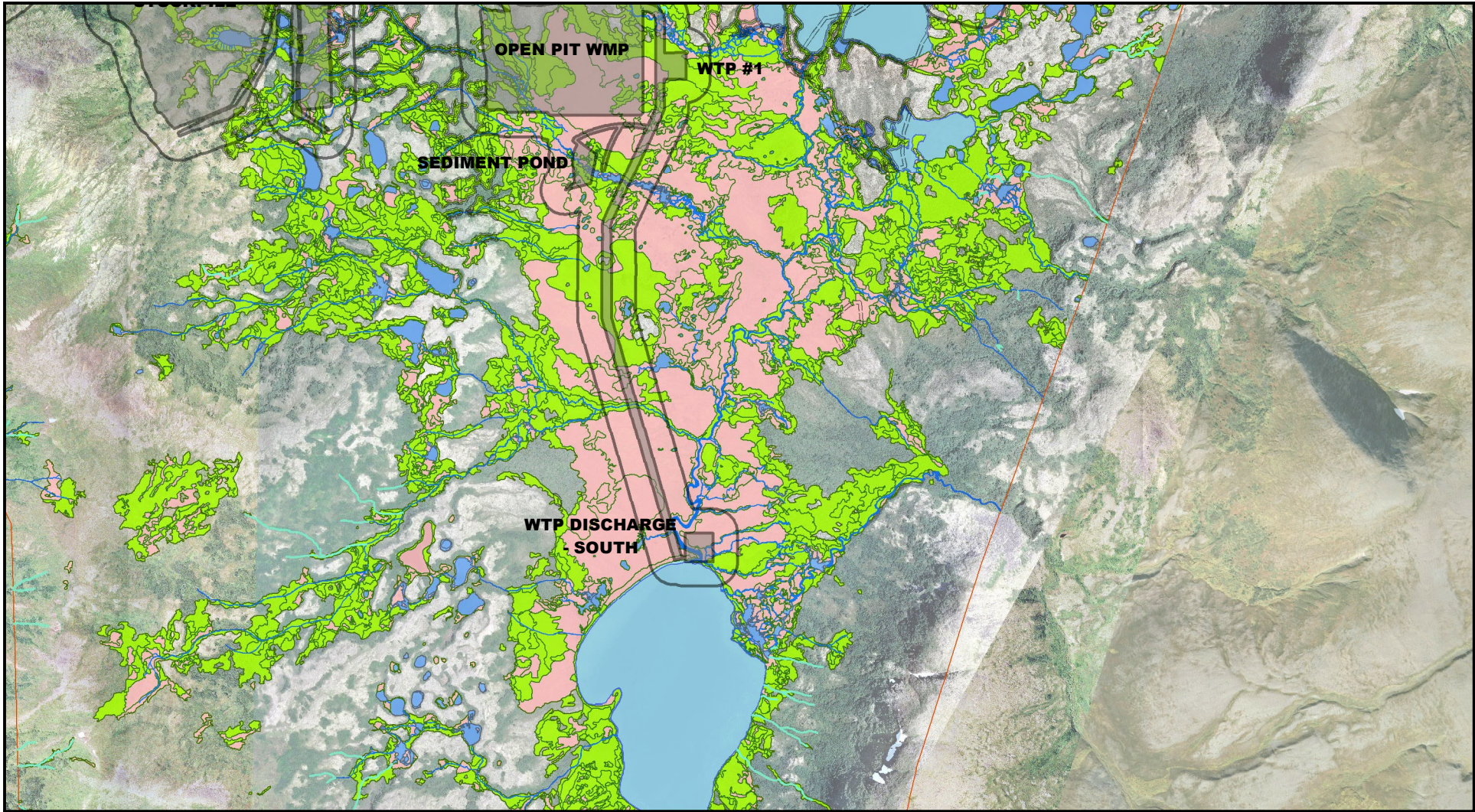
**Other Features**

- USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**





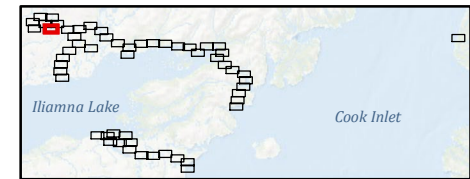
Sources: Pebble 2018; HDR; USFWS; UAF



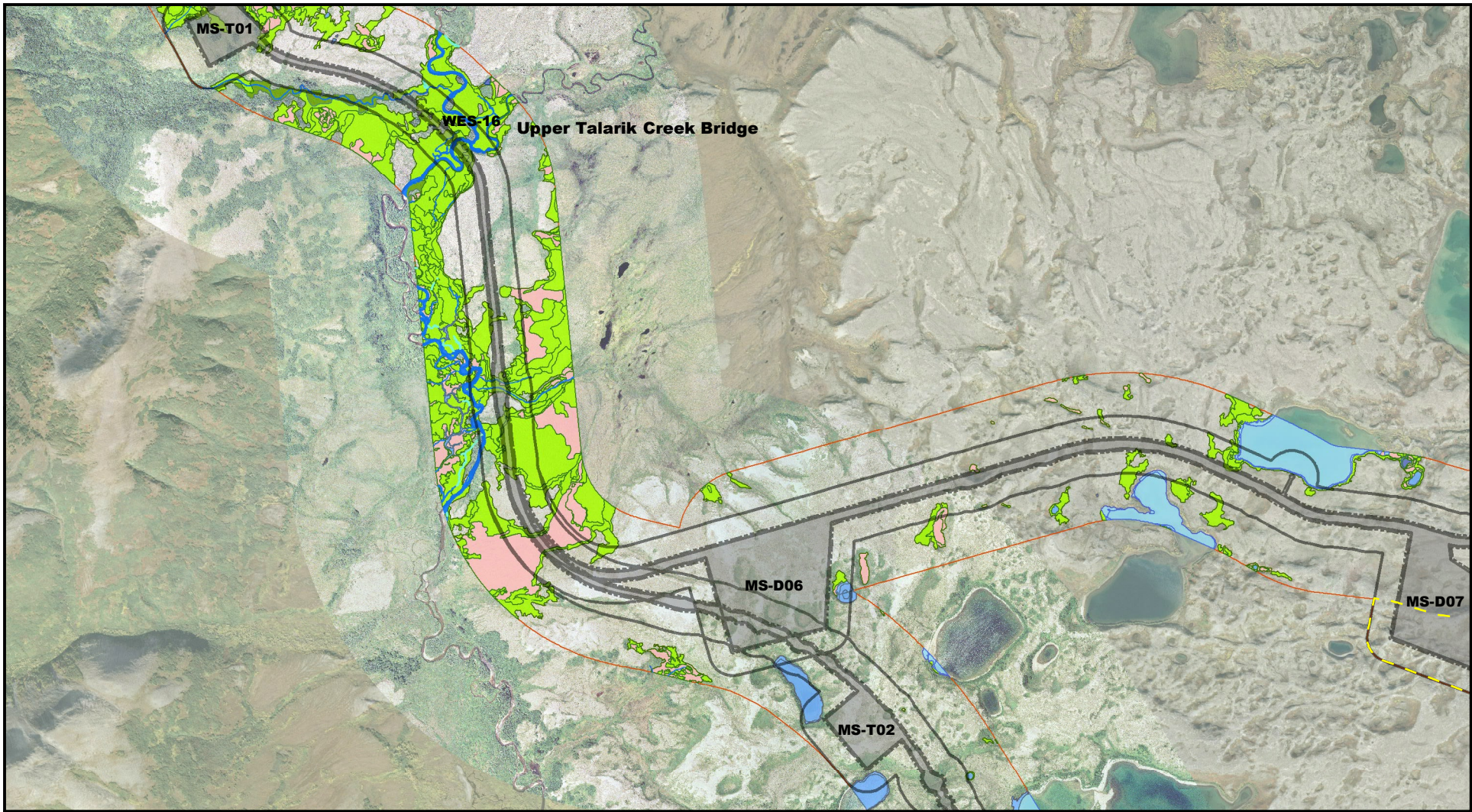
US Army Corps of Engineers®



Impact Type	NWI Classes	
Permanent	Aquatic Bed	Lakes
Dust	Broad Leaved Deciduous Shrubs	Ponds
Dewatering	Herbaceous	Rivers/Streams (Intermittent)
		Rivers/Streams (Perennial)
		Upland



WETLANDS AND OTHER WATERS MAP SERIES



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

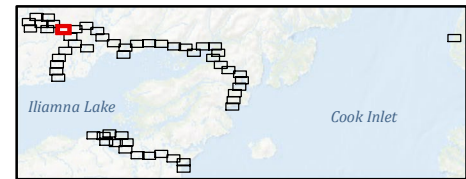
- Permanent
- Temporary
- Dust

**NWI Classes**

- Aquatic Bed
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Herbaceous

- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

- Permanent
- Temporary
- Dust

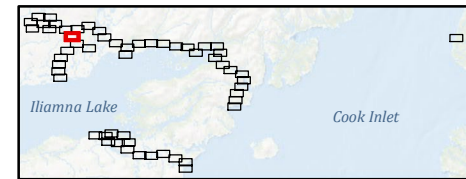
**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Herbaceous

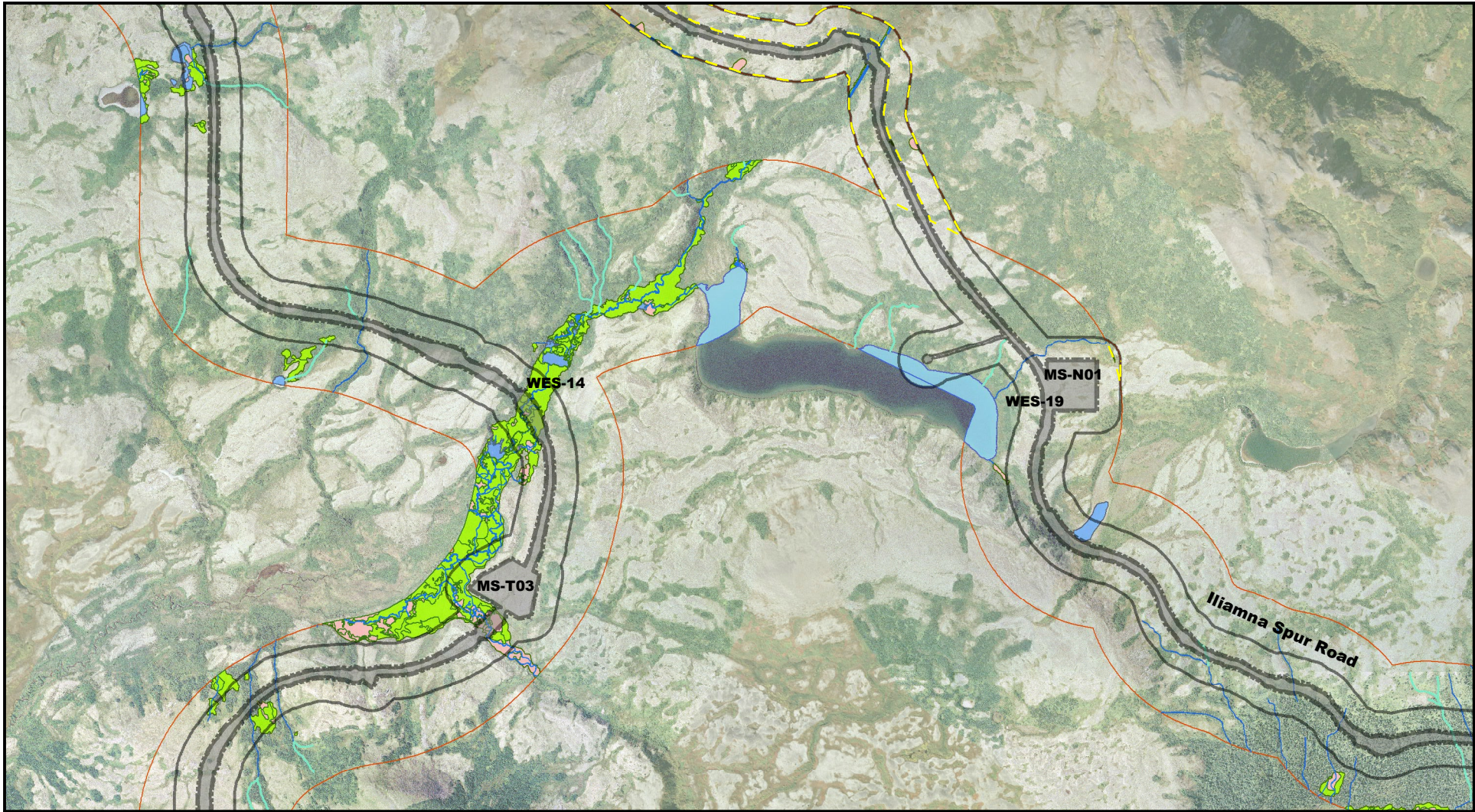
**Lakes**

- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

- Permanent
- - - Temporary
- Dust

**NWI Classes**

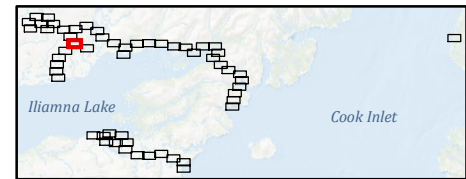
- Broad Leaved Deciduous Shrubs
- Herbaceous
- Lakes

**Water Features**

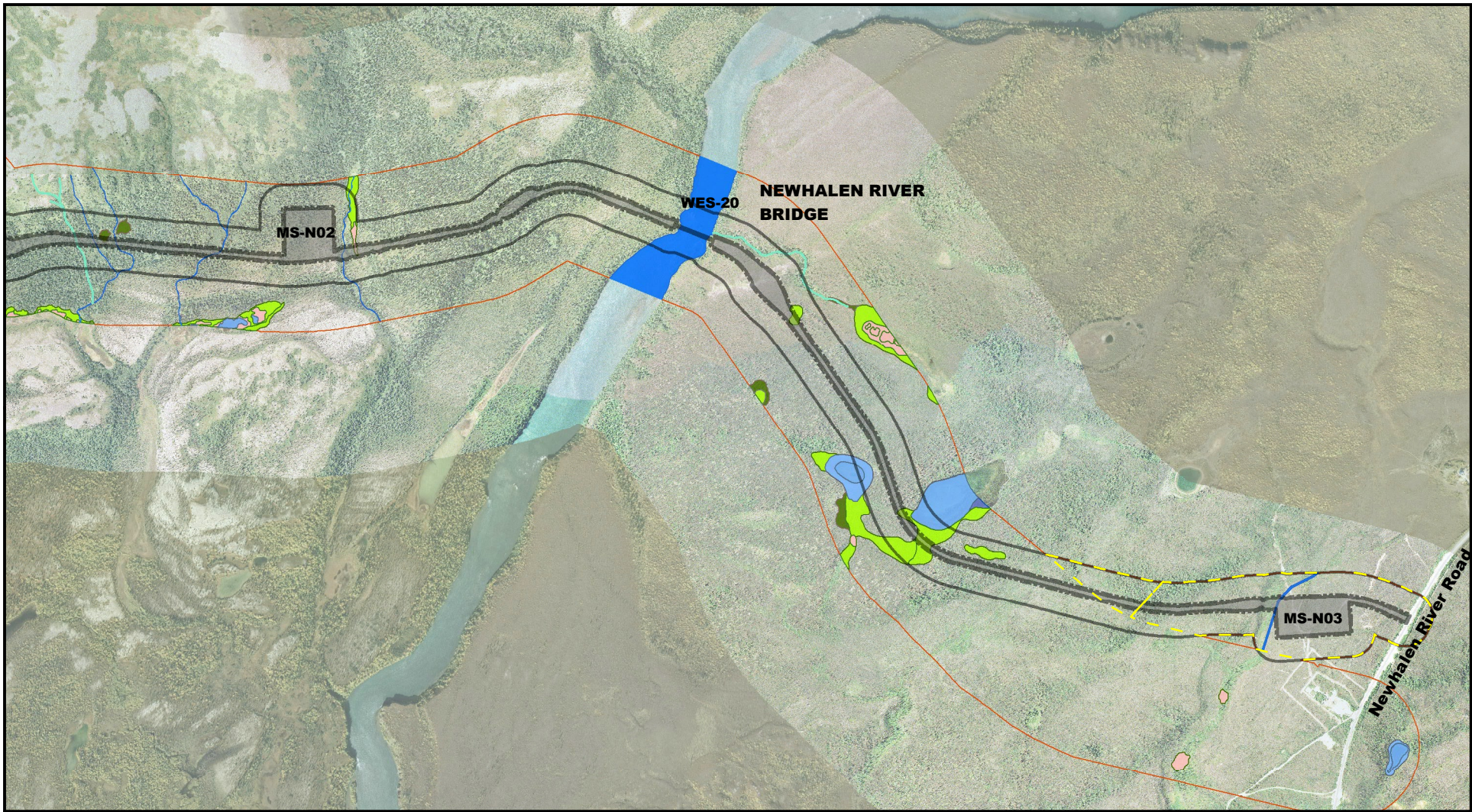
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

**USFWS NWI Mapping Areas**


- USFWS NWI Mapping Areas





**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF

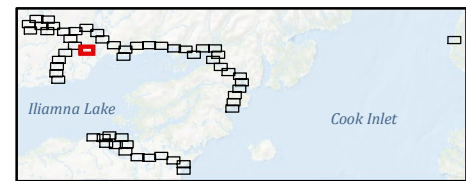


**US Army Corps of Engineers**

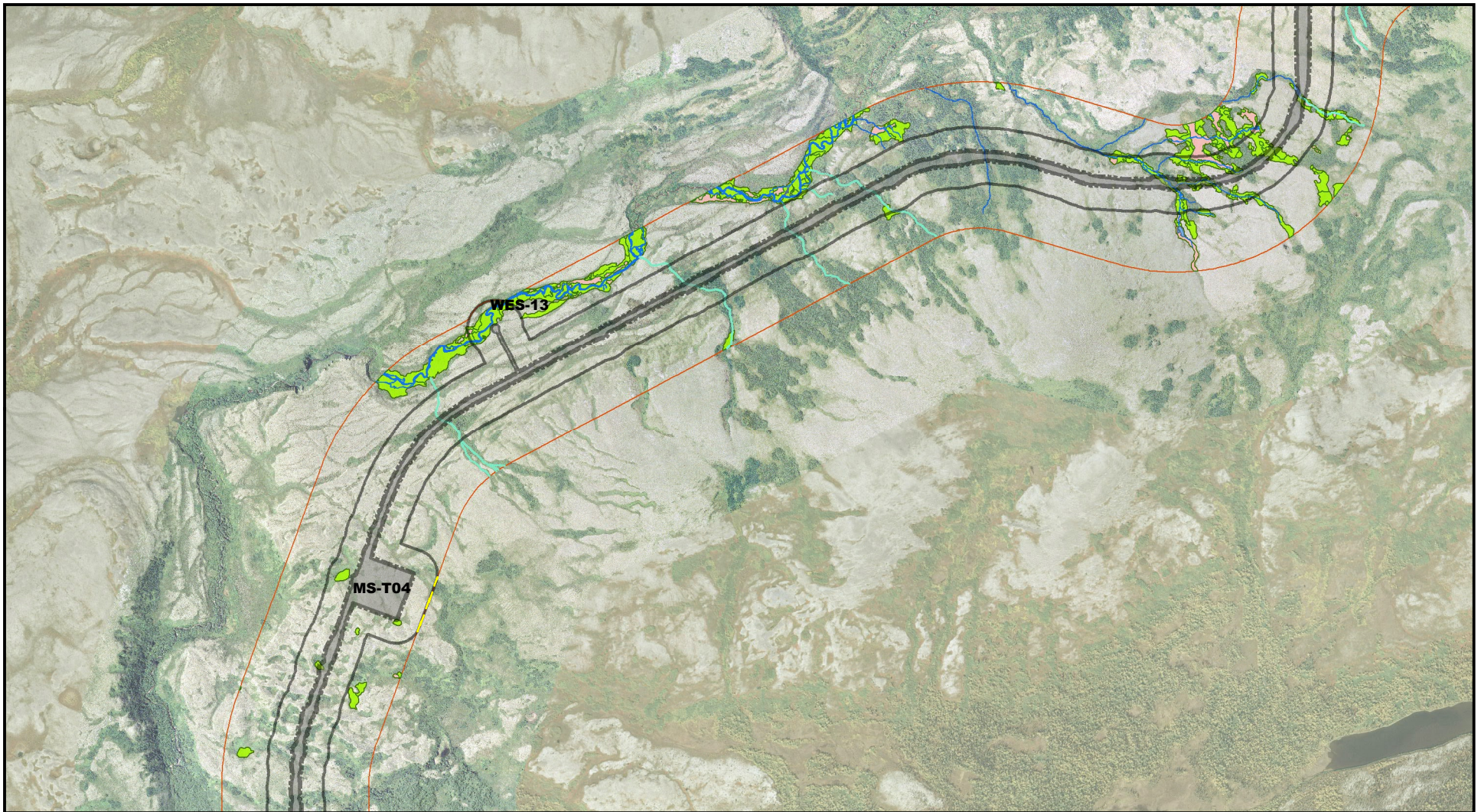



Feet

Impact Type	NWI Classes		
Permanent	Aquatic Bed	Herbaceous	USFWS NWI Mapping Areas
Temporary	Broad Leaved Deciduous Shrubs	Ponds	
Dust	Evergreen Shrubs	Rivers/Streams (Intermittent)	
		Rivers/Streams (Perennial)	
		Upland	



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

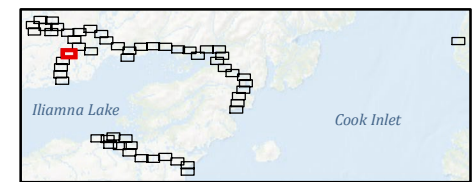
- Permanent
- Temporary
- Dust

**NWI Classes**

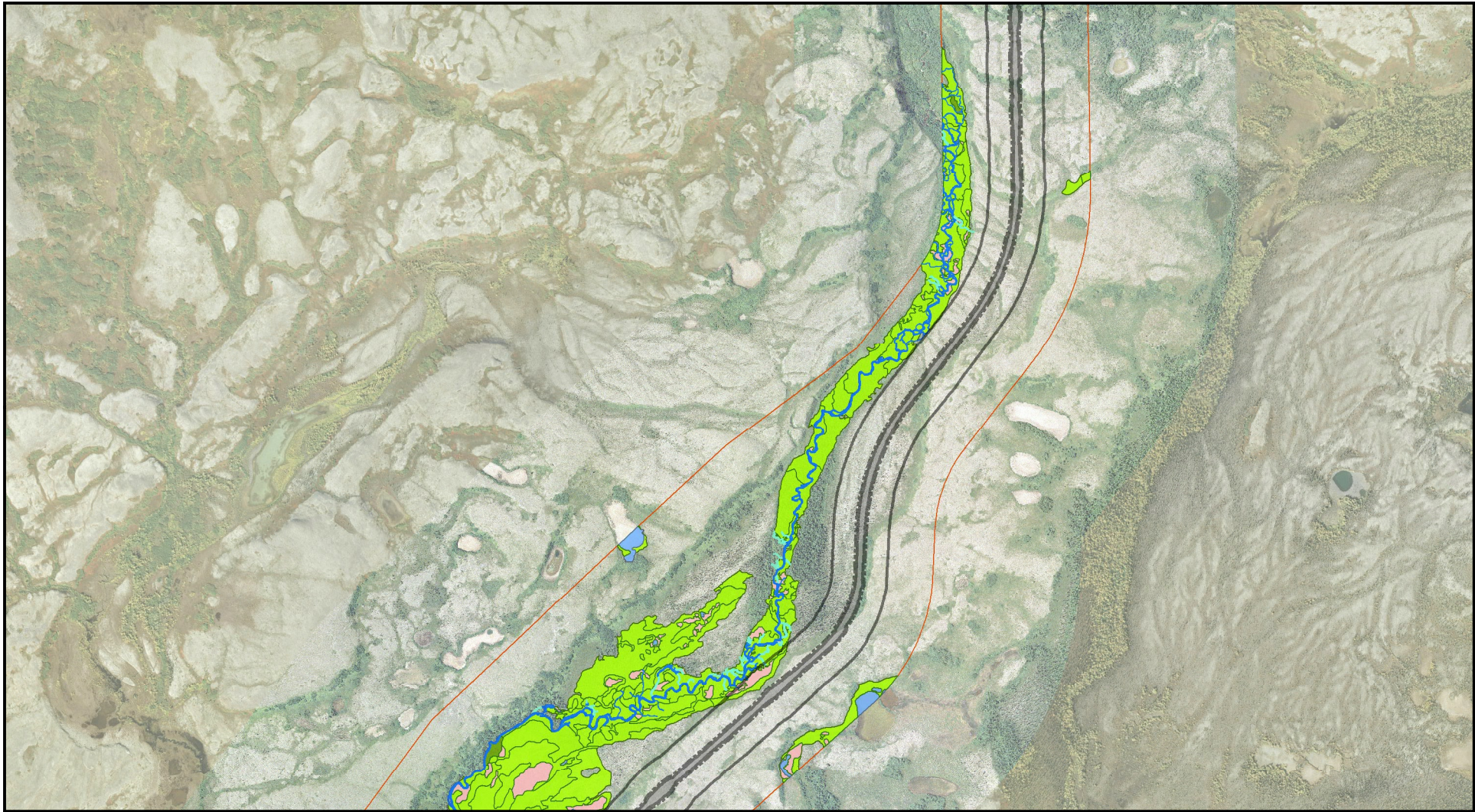
- Broad Leaved Deciduous Shrubs
- Herbaceous

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

- USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

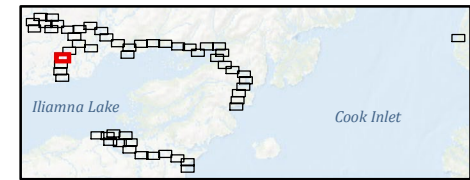
- Permanent
- Temporary
- Dust

**NWI Classes**

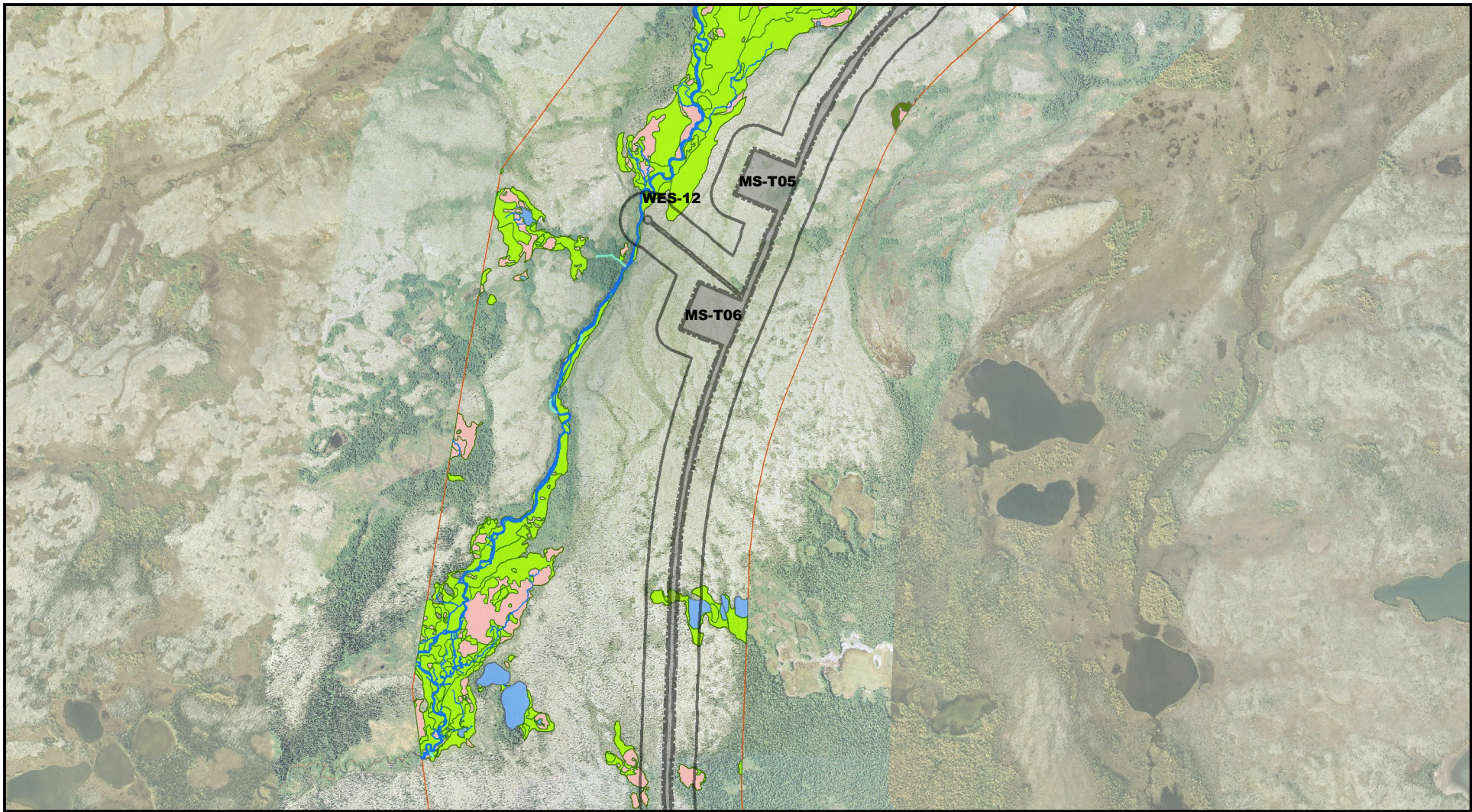
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Herbaceous

**Other Features**

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland



**WETLANDS AND OTHER WATERS MAP SERIES**



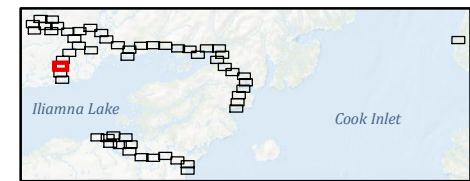
Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers

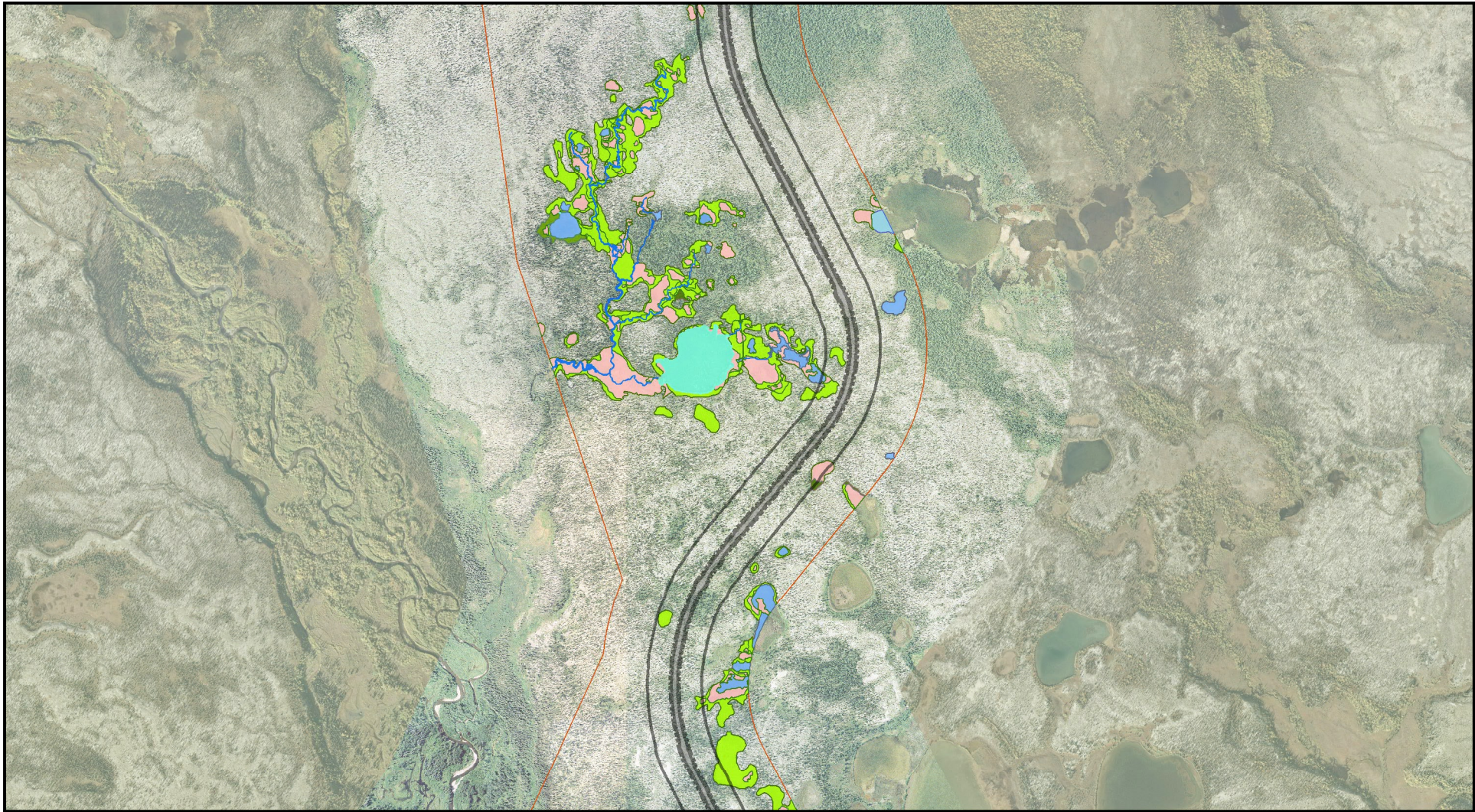


Impact Type	NWI Classes	
Permanent	Broad Leaved Deciduous Shrubs	Herbageous
Temporary	Deciduous Forest	Ponds
Dust	Evergreen Shrubs	Rivers/Streams (Intermittent)
		Rivers/Streams (Perennial)
		Upland



**WETLANDS AND OTHER WATERS MAP SERIES**





Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

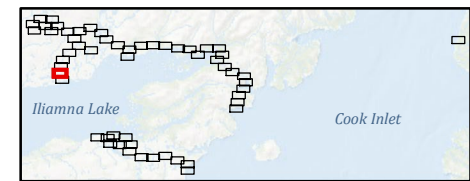
- Permanent
- Temporary
- Dust

**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs
- Herbaceous

**Water Features**

- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



**Impact Type**

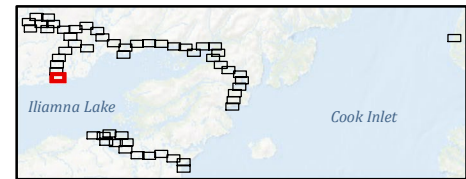
- Permanent
- Temporary
- Dust

**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Herbaceous

- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**

PEBBLE PROJECT EIS

FIGURE K4.22-16 of 56



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

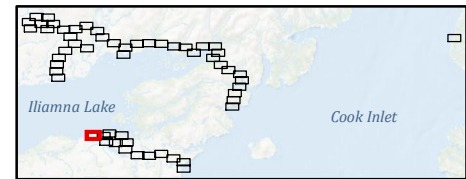
- Permanent
- Temporary
- Dust

**NWI Classes**

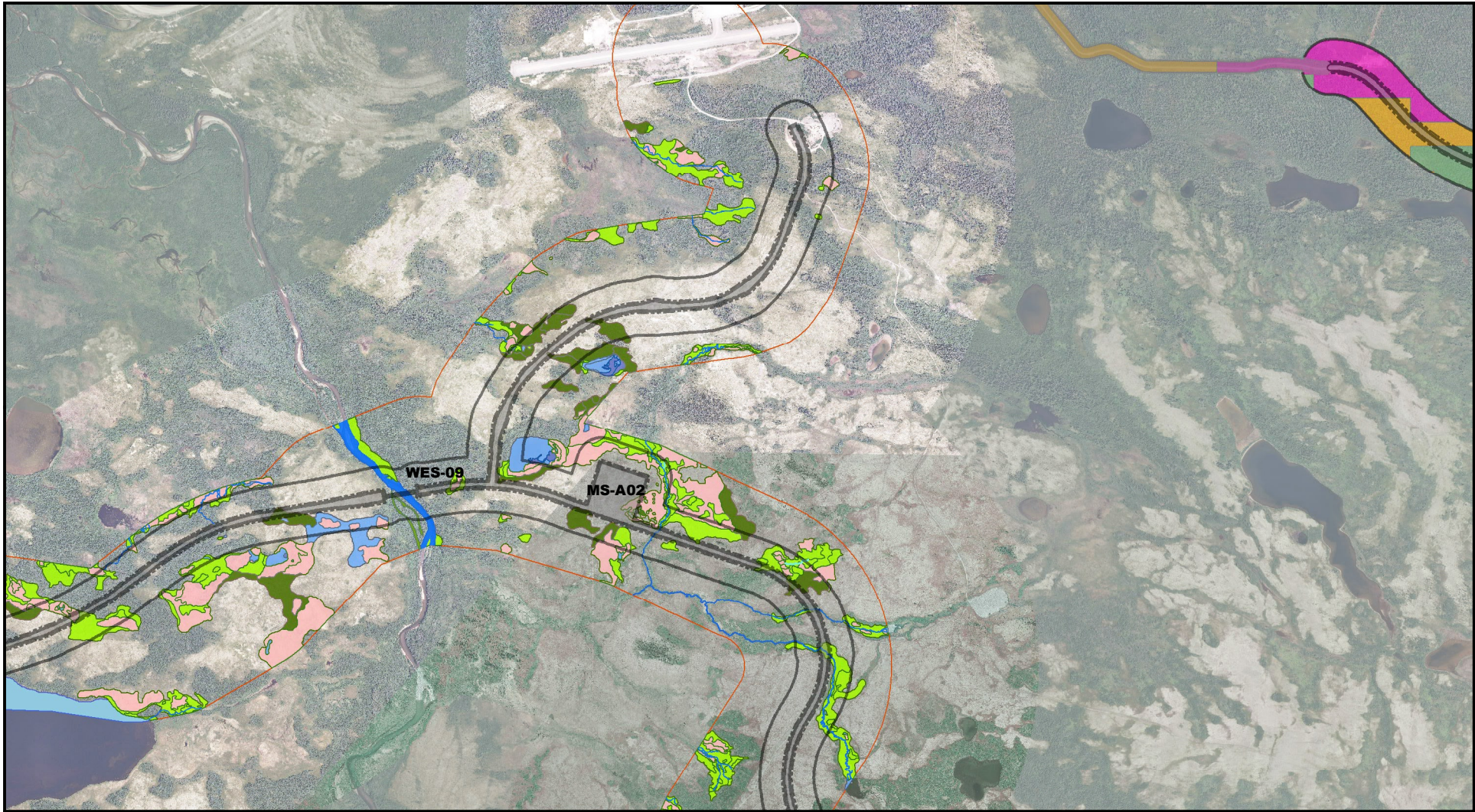
- Aquatic Bed
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers



**Impact Type**

- Permanent
- Temporary
- Dust

**NWI Classes**

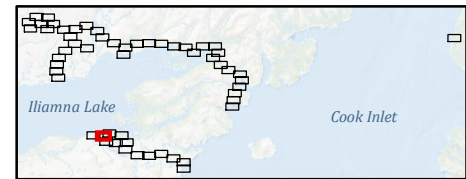
- Aquatic Bed
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

**UAF Data**

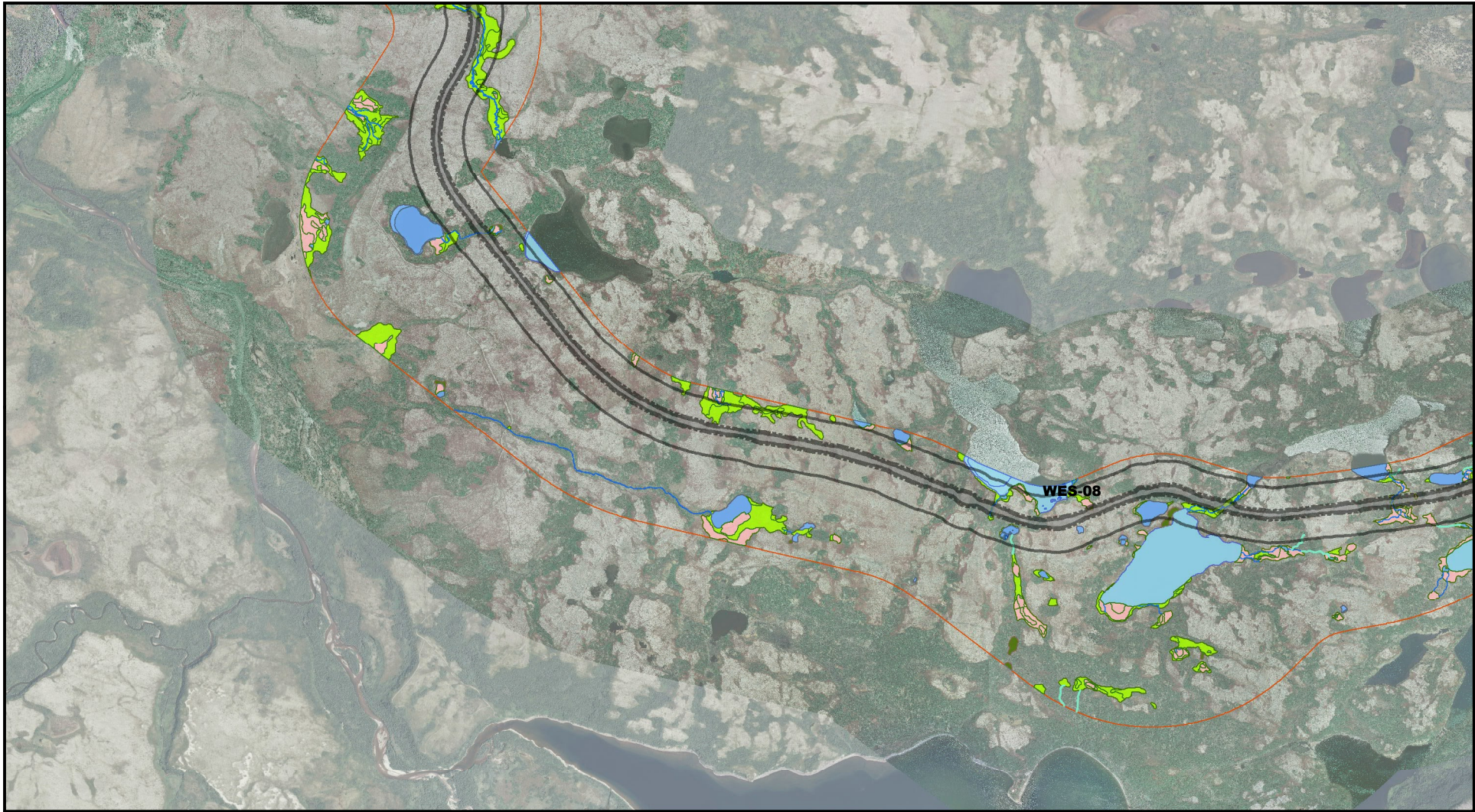
- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

**UAF Data**

- Wetland
- Non-wetland
- No Data



**WETLANDS AND OTHER WATERS MAP SERIES**



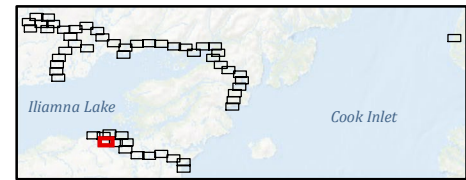
Sources: Pebble 2018; HDR; USFWS; UAF



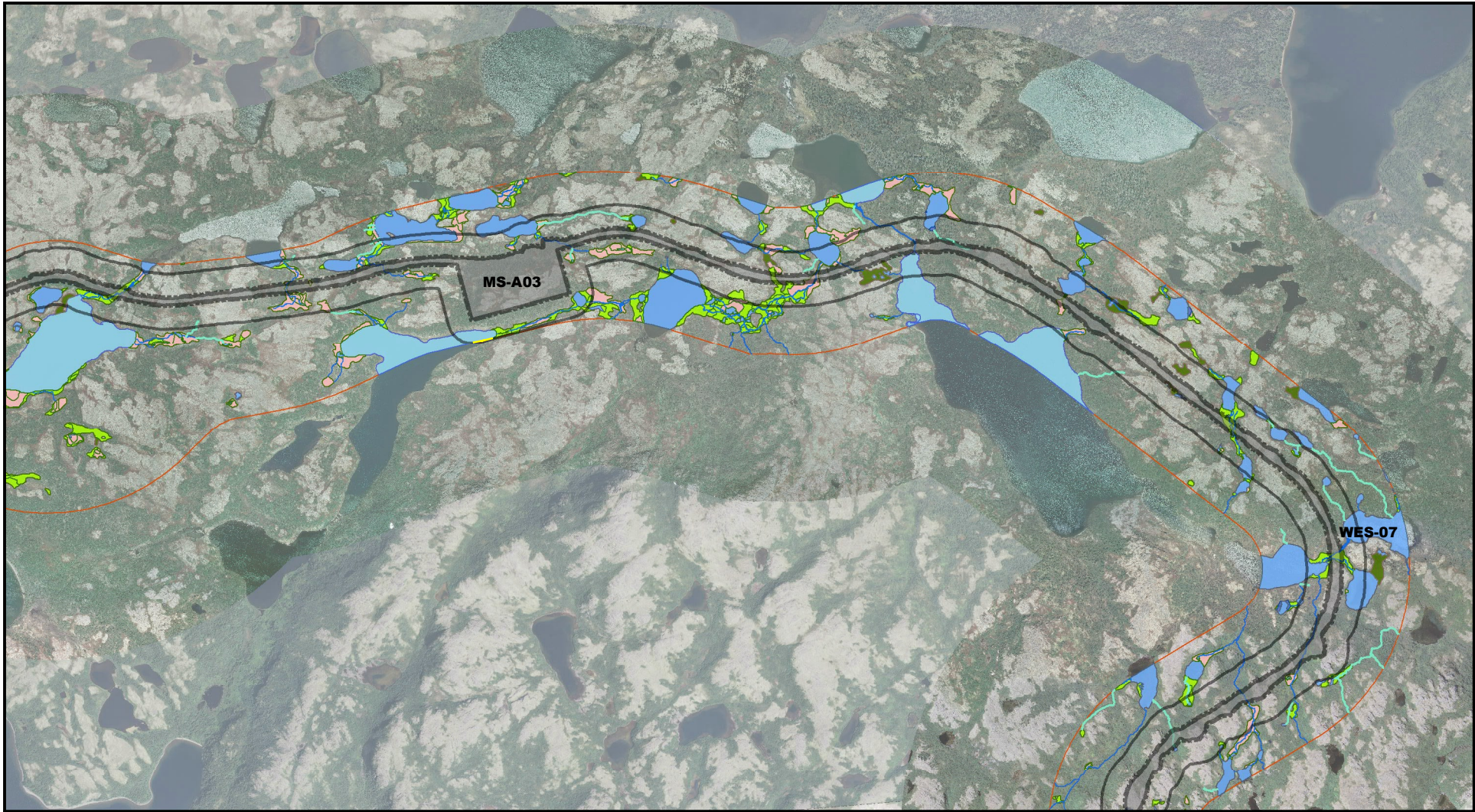
US Army Corps of Engineers®



Impact Type	NWI Classes	
Permanent	Aquatic Bed	Lakes
Temporary	Broad Leaved Deciduous Shrubs	Ponds
Dust	Evergreen Shrubs	Rivers/Streams (Intermittent)
	Herbaceous	Rivers/Streams (Perennial)
		Upland



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers



**Impact Type**

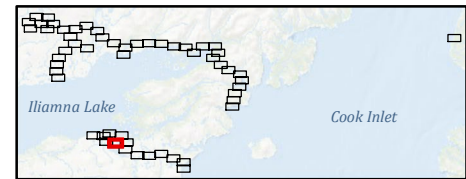
- Permanent
- Temporary
- Dust

**NWI Classes**

- Aquatic Bed
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs
- Herbaceous

- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

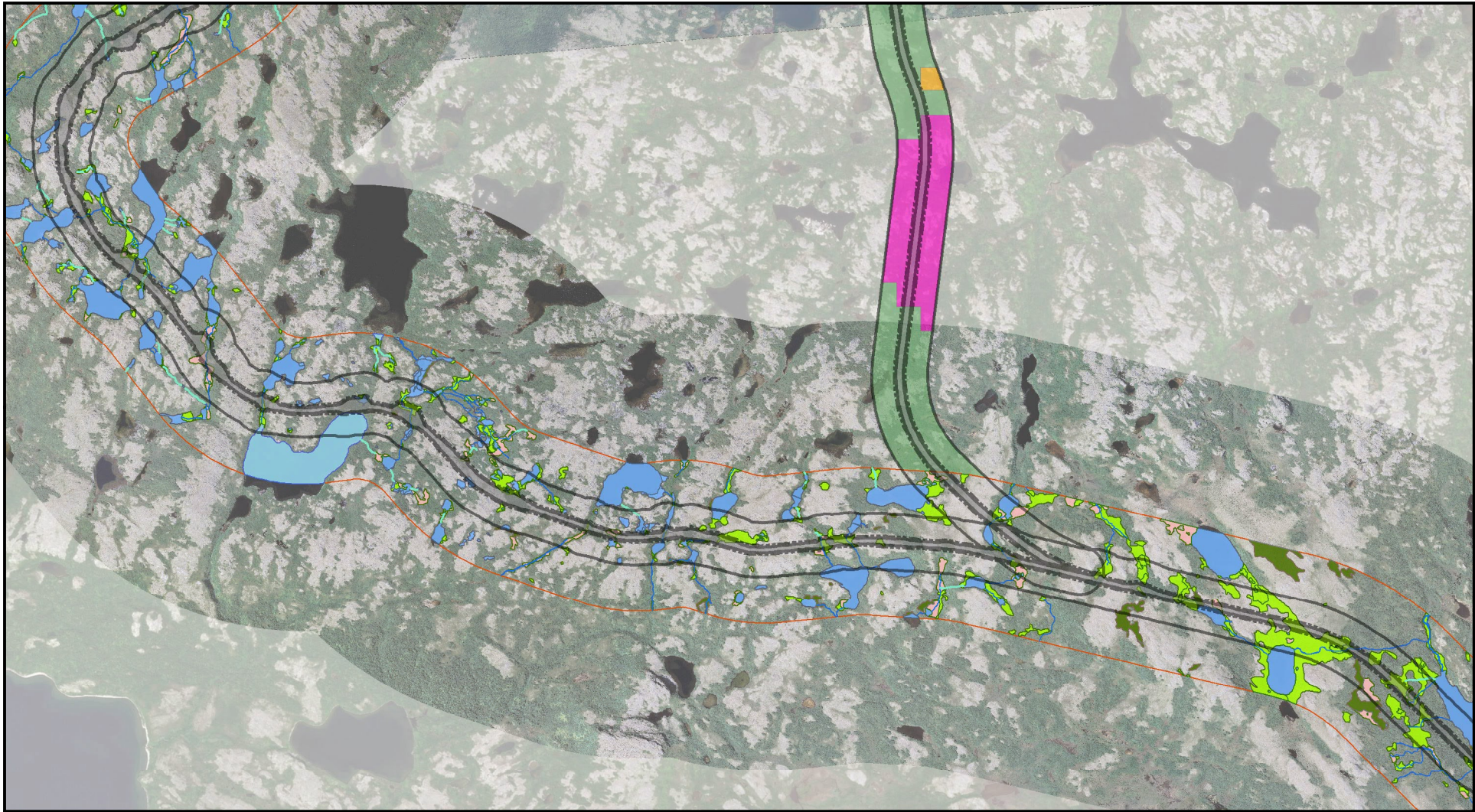
USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**

PEBBLE PROJECT EIS

FIGURE K4.22-20 of 56



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

- Permanent
- Temporary
- Dust

**NWI Classes**

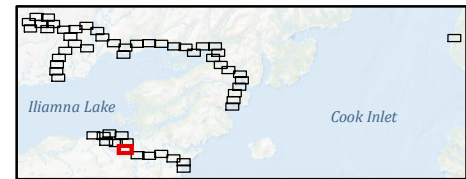
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs
- Herbaceous

**Waters**

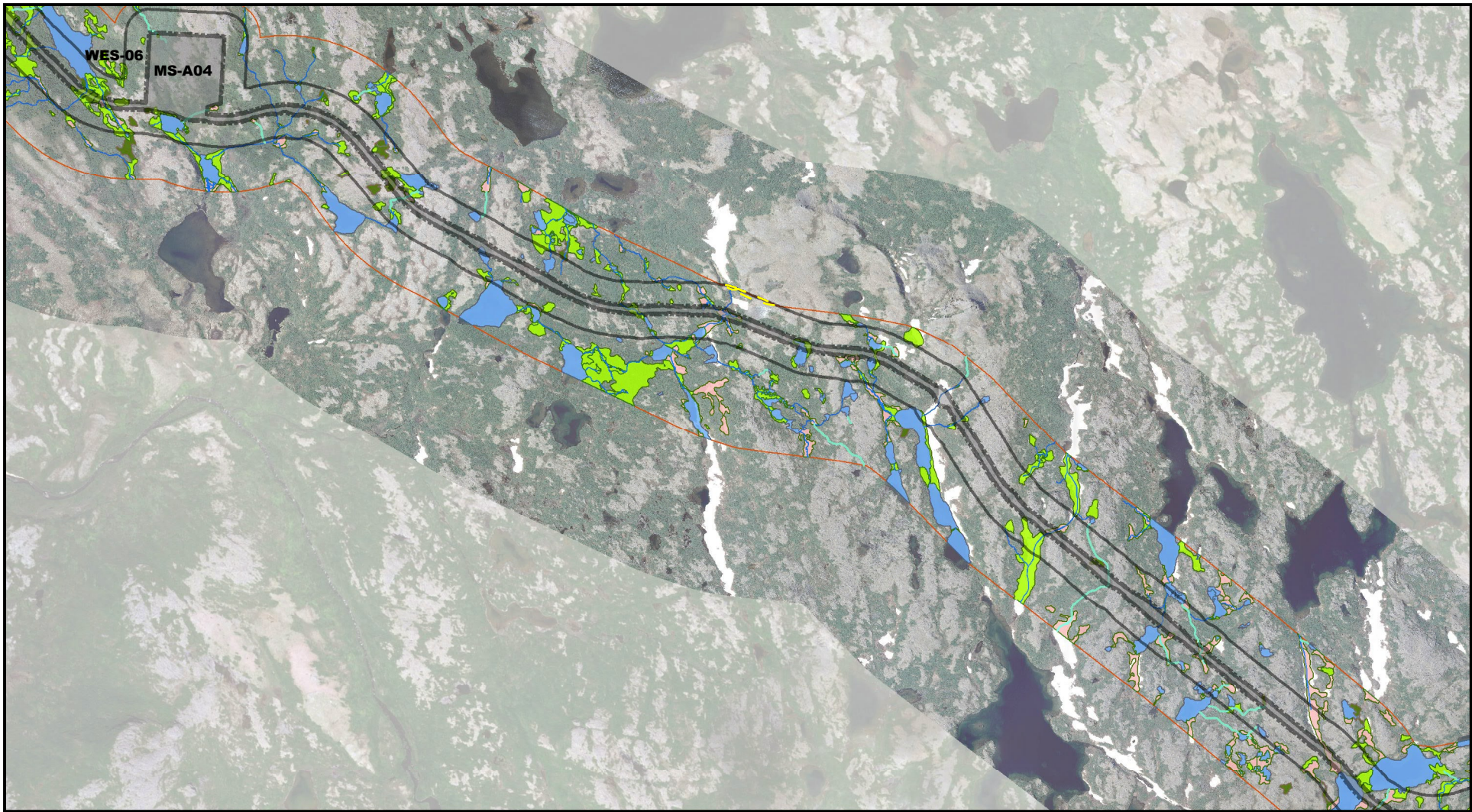
- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

**UAF Data**

- Wetland
- Non-wetland
- No Data



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

- Permanent
- Temporary
- Dust

**NWI Classes**

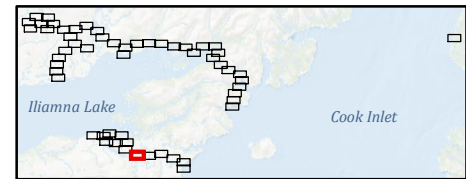
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs
- Herbaceous

**Water Features**

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

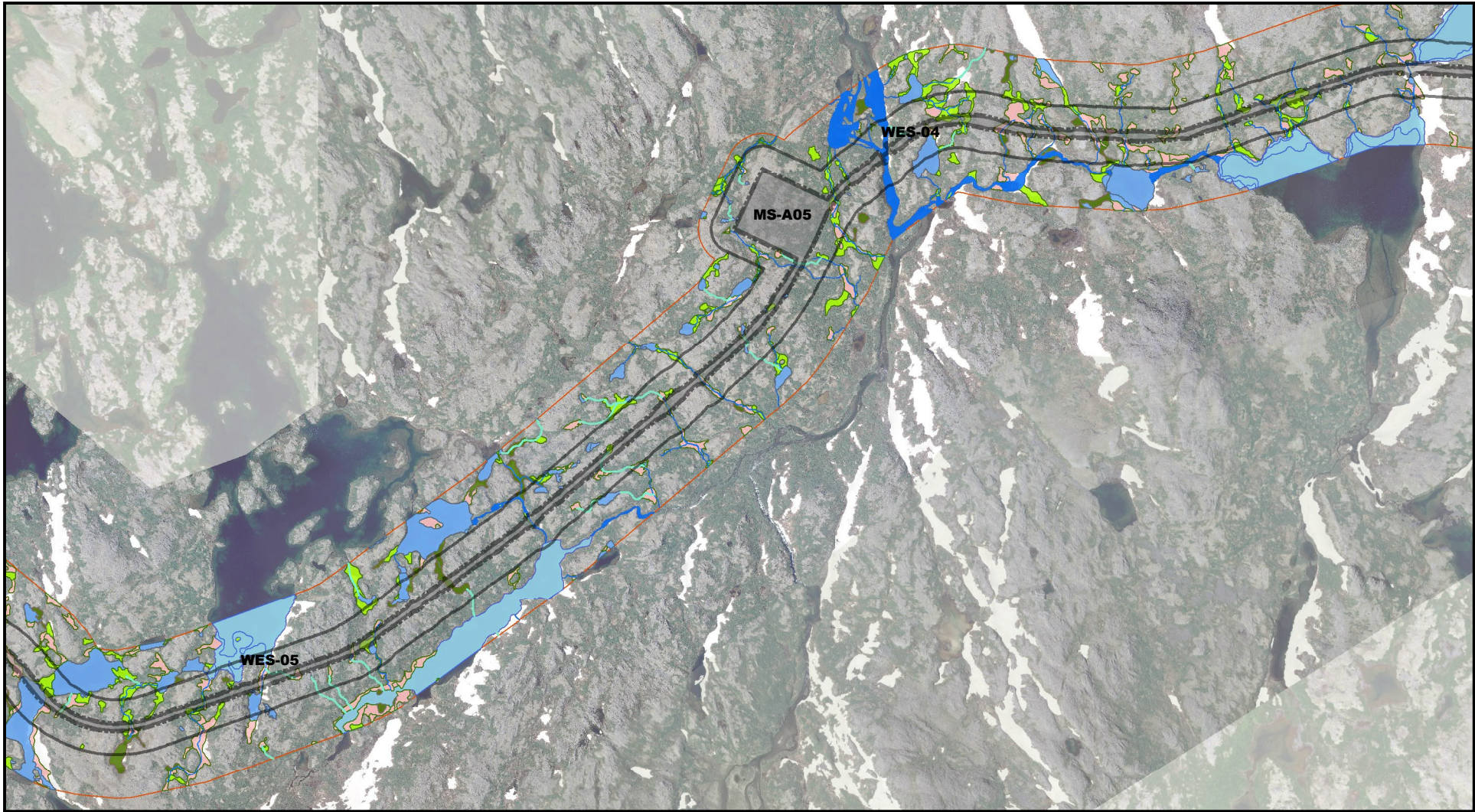
**USFWS NWI Mapping Areas**

- USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**





Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



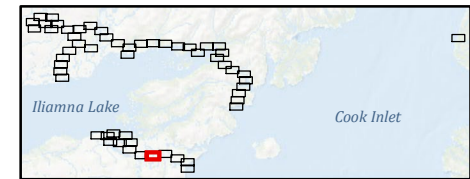
**Impact Type**

- Permanent
- Temporary
- Dust

**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs
- Herbaceous

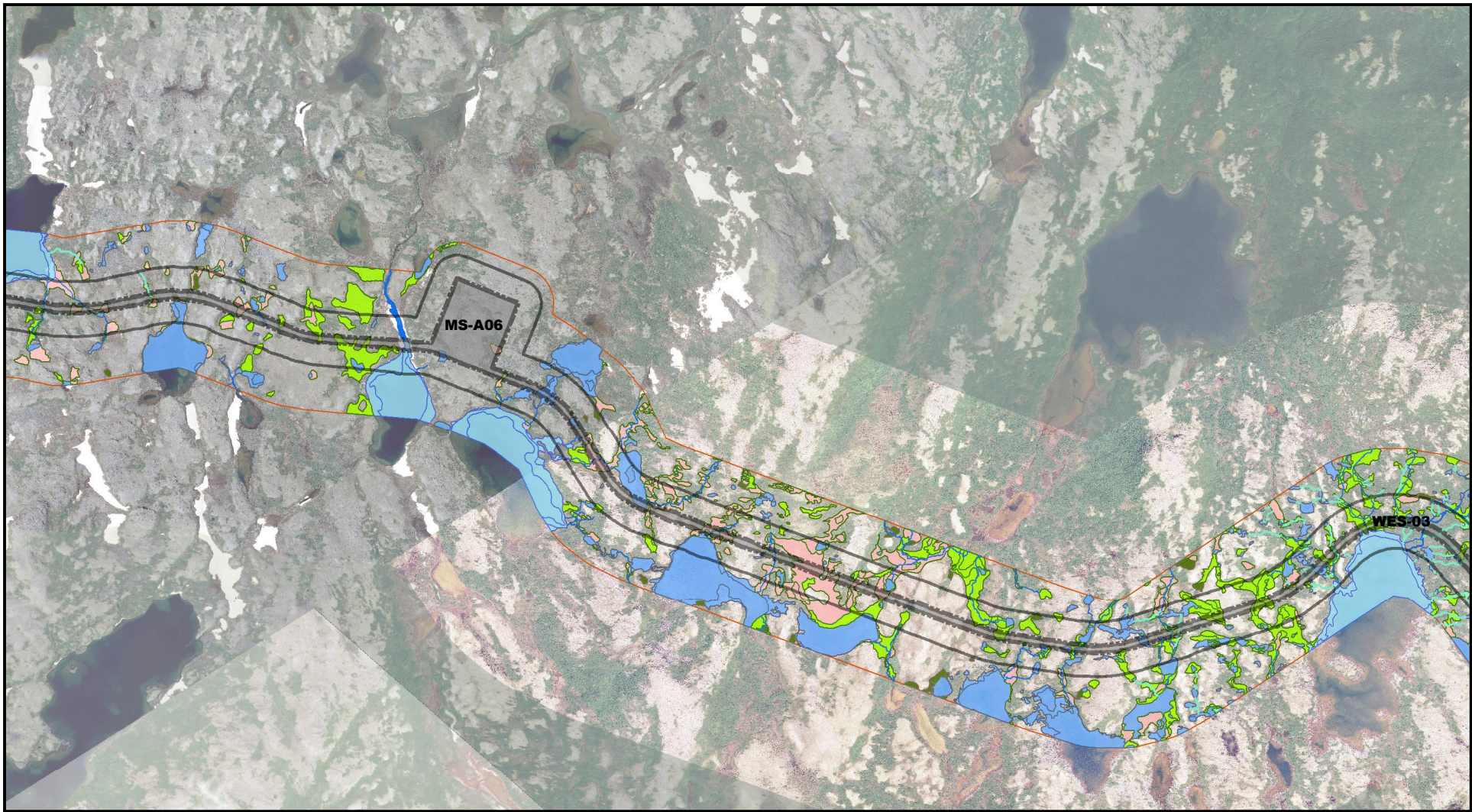
- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland



**WETLANDS AND OTHER WATERS MAP SERIES**

PEBBLE PROJECT EIS

FIGURE K4.22-23 of 56



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



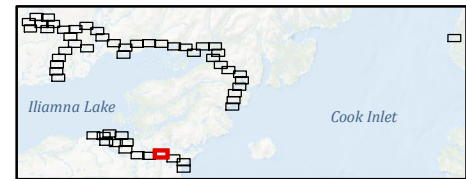
**Impact Type**

- Permanent
- Temporary
- Dust

**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs
- Herbaceous

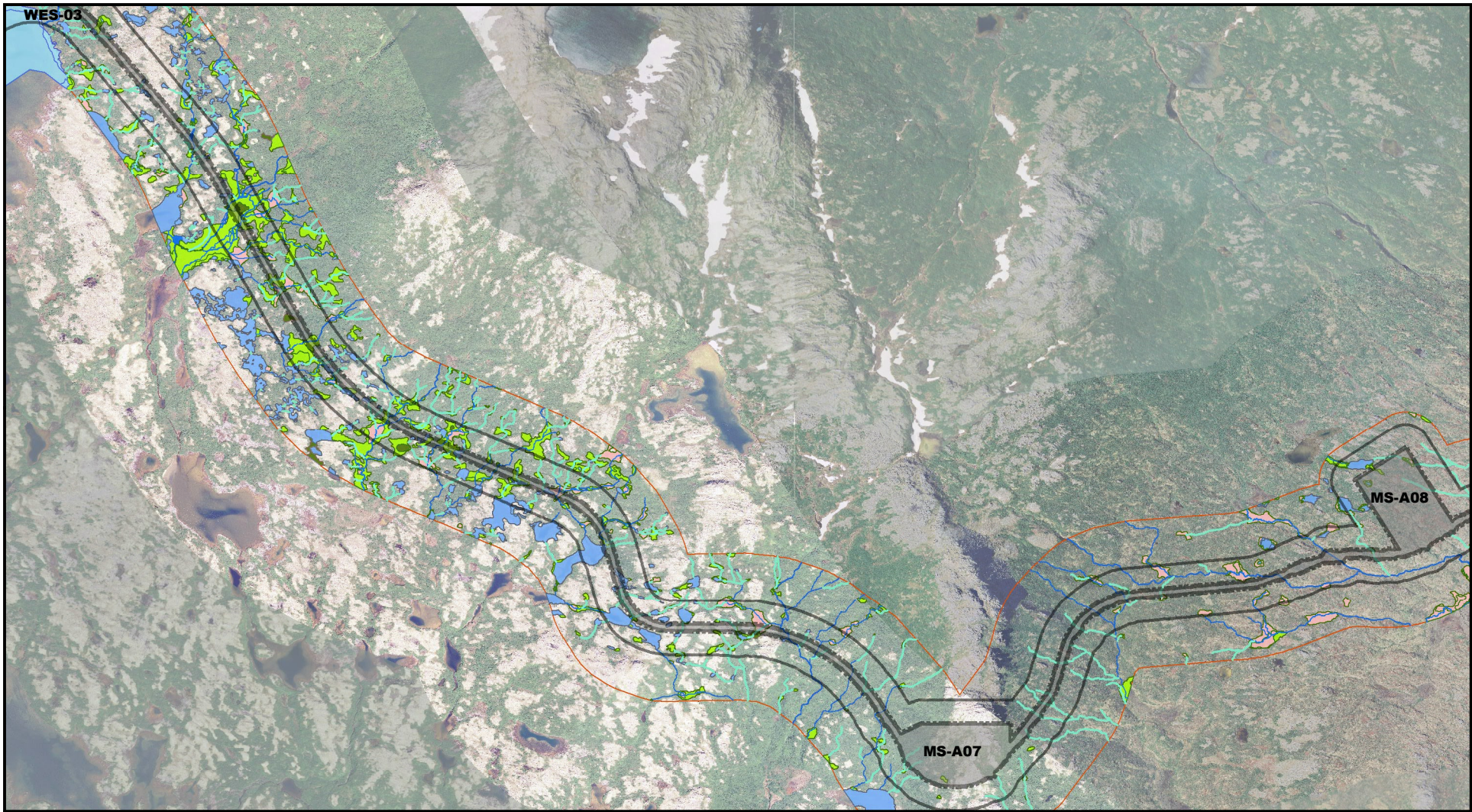
- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland



**WETLANDS AND OTHER WATERS MAP SERIES**

PEBBLE PROJECT EIS

FIGURE K4.22-24 of 56



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



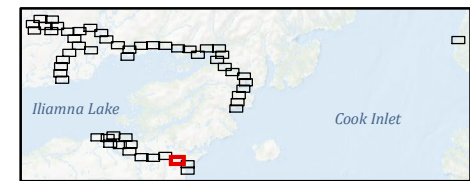
**Impact Type**

- Permanent
- Temporary
- Dust

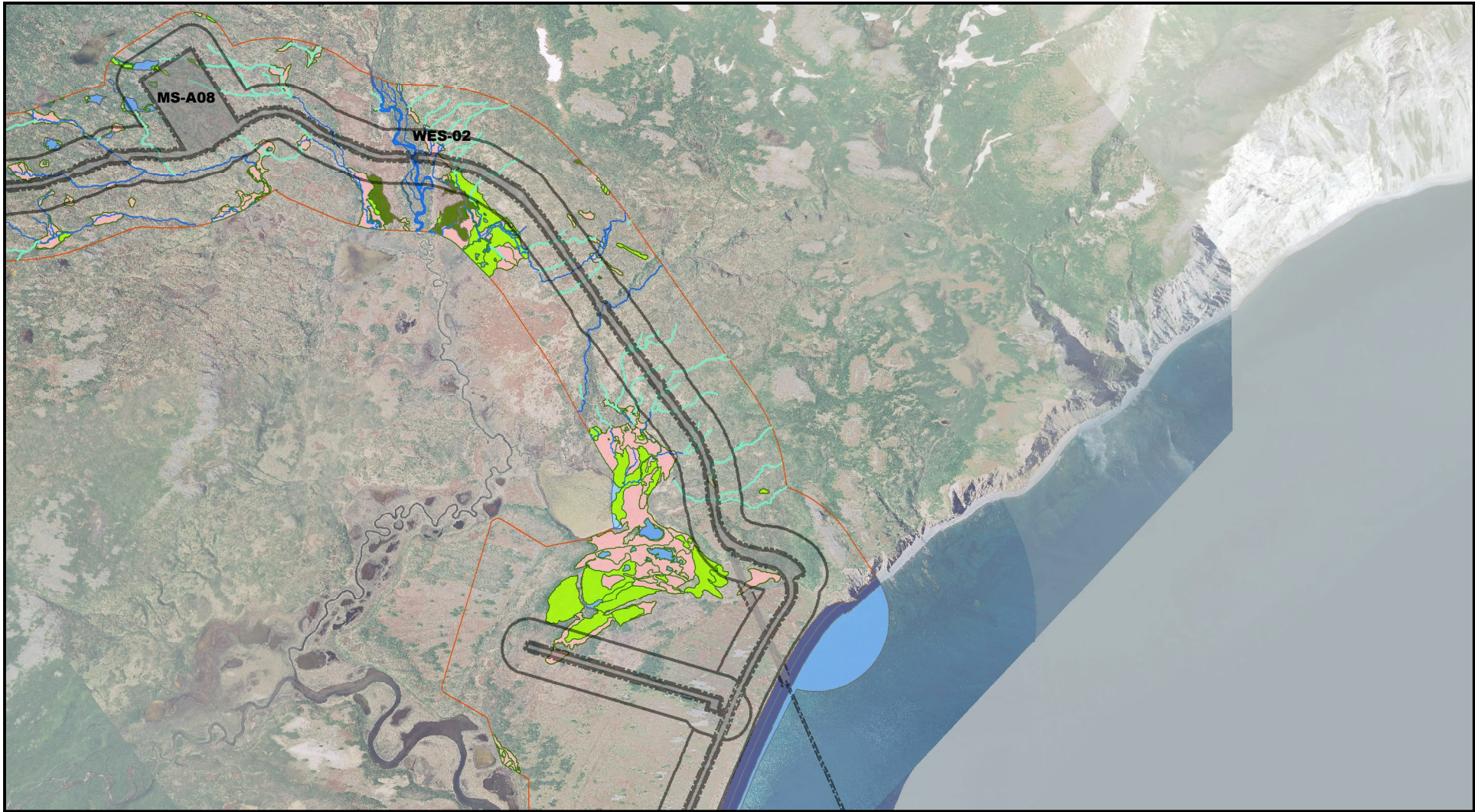
**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs
- Herbaceous

- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland



**WETLANDS AND OTHER WATERS MAP SERIES**



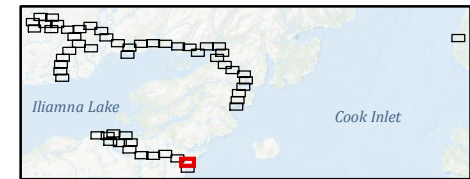
Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



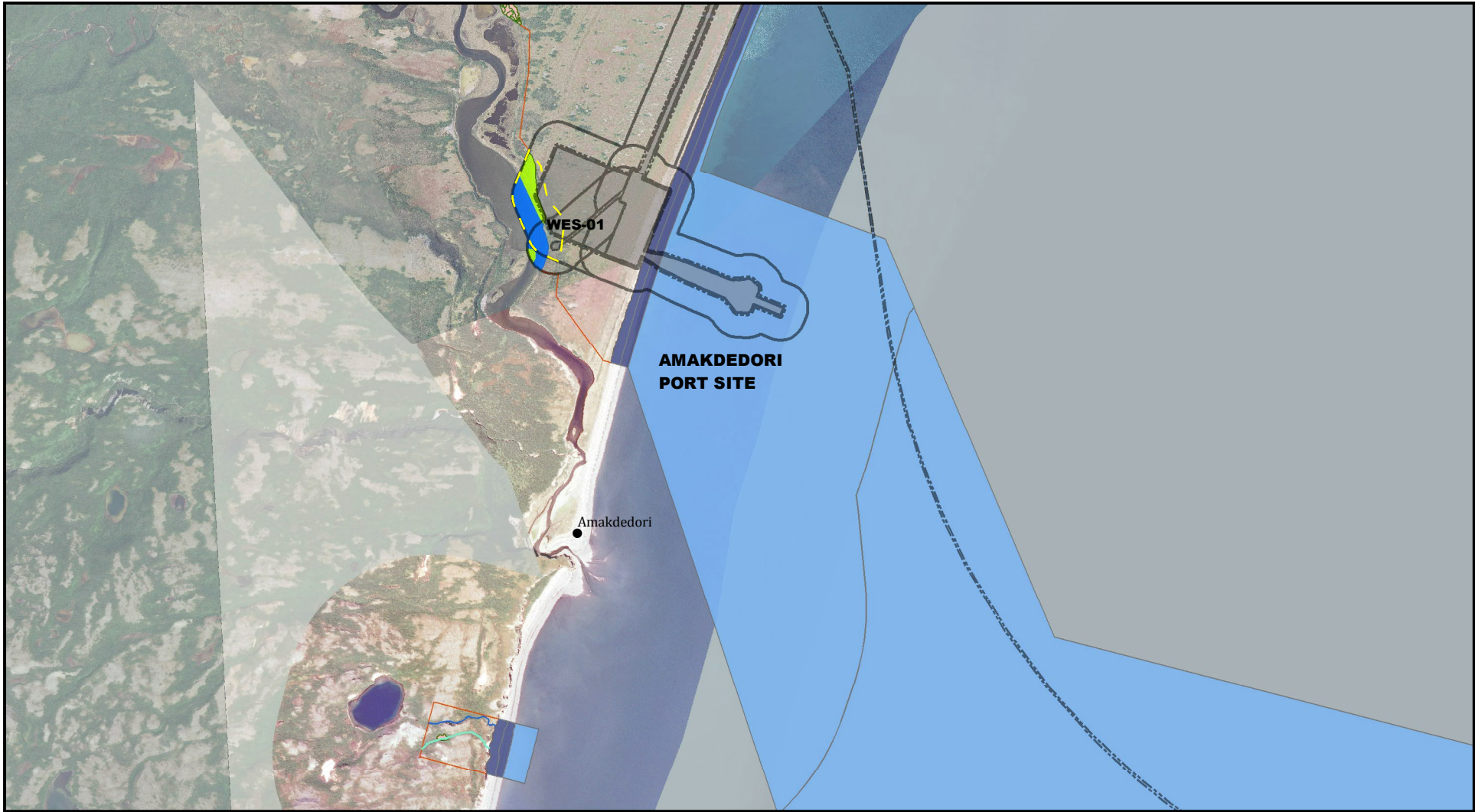
Impact Type	NWI Classes	
Permanent	Broad Leaved Deciduous Shrubs	Marine (Intertidal)
Temporary	Evergreen Shrubs	Marine (Subtidal)
Dust	Herbaceous	Ponds
	Lakes	Rivers/Streams (Intermittent)
		Rivers/Streams (Perennial)
		Upland



**WETLANDS AND OTHER WATERS MAP SERIES**

PEBBLE PROJECT EIS

FIGURE K4.22-26 of 56



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

- Permanent
- Temporary
- Dust

**NWI Classes**

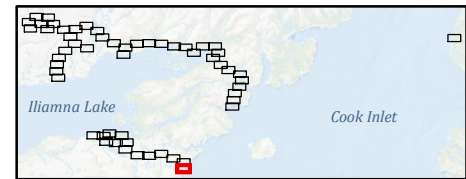
- Broad Leaved Deciduous Shrubs
- Herbaceous
- Marine (Intertidal)

**Other Waters**

- Marine (Subtidal)
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

**USFWS NWI Mapping Areas**

- USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

- Permanent
- Temporary
- Dust

**NWI Classes**

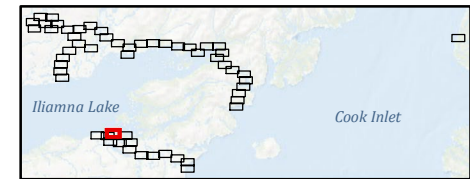
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

**Herbaceous**

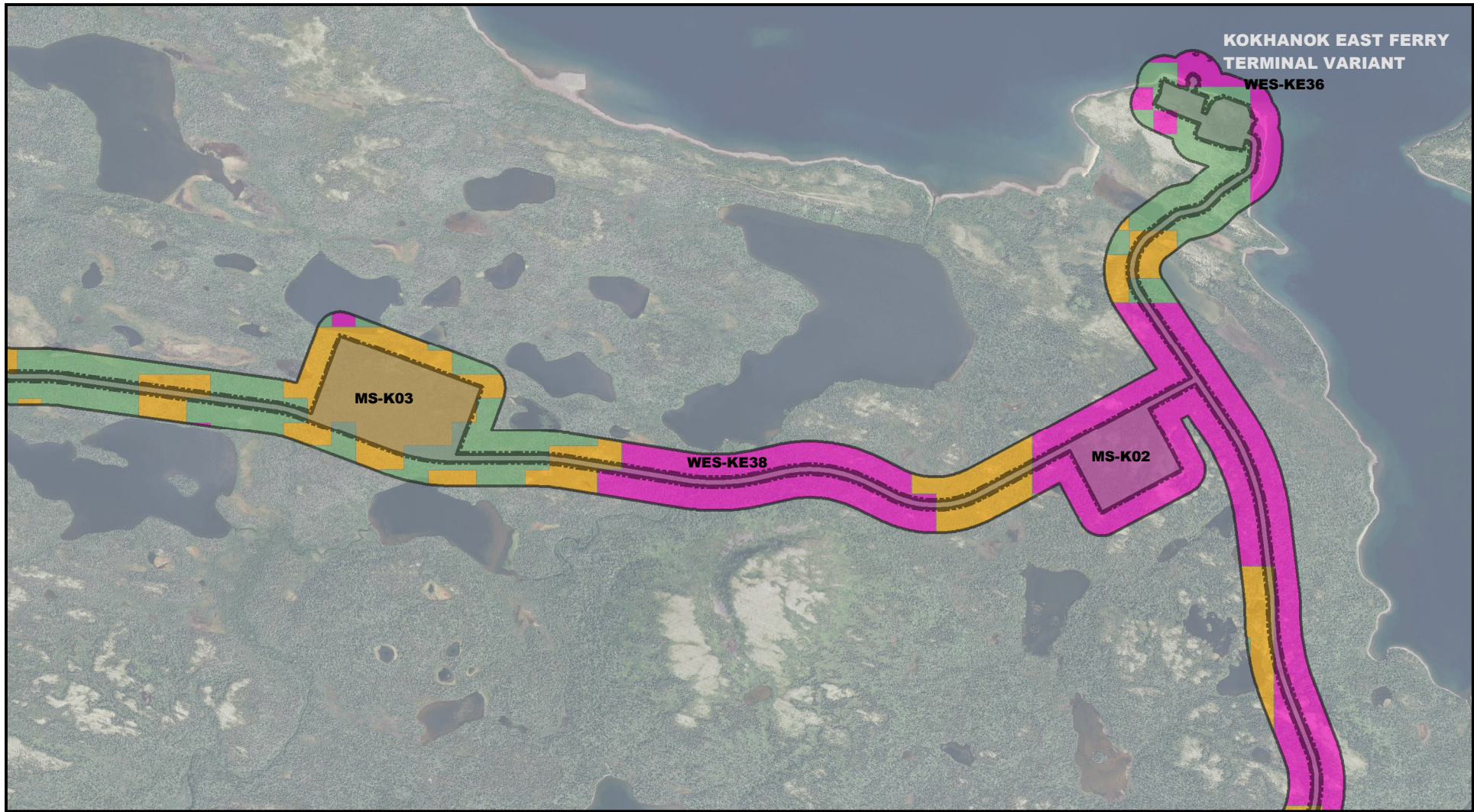
- Herbaceous
- Rivers/Streams (Perennial)
- Upland

**UAF Data**

- Wetland
- Non-wetland
- No Data



**WETLANDS AND OTHER WATERS MAP SERIES**



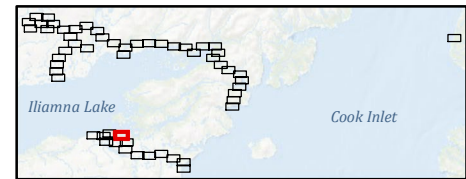
Sources: Pebble 2018; HDR; USFWS; UAF



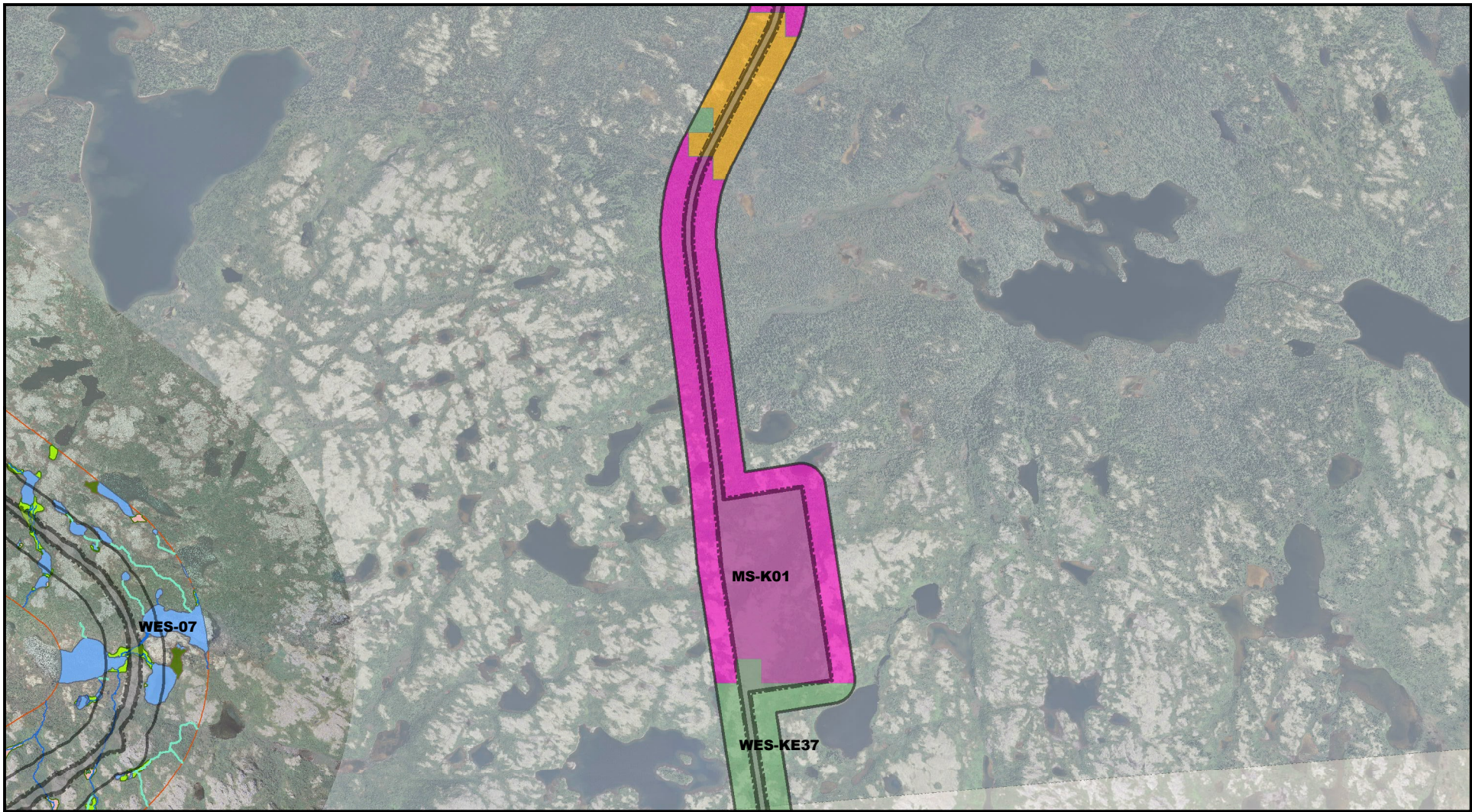
US Army Corps of Engineers®



Impact Type	UAF Data
Permanent	Wetland
Temporary	Non-wetland
Dust	No Data
Upland	



WETLANDS AND OTHER WATERS MAP SERIES



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

- Permanent
- Temporary
- Dust

**NWI Classes**

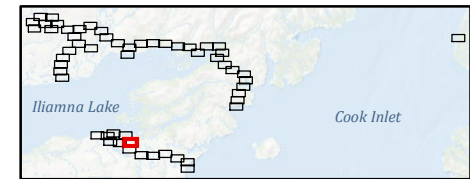
- Aquatic Bed
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

**UAF Data**

- Herbaceous
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

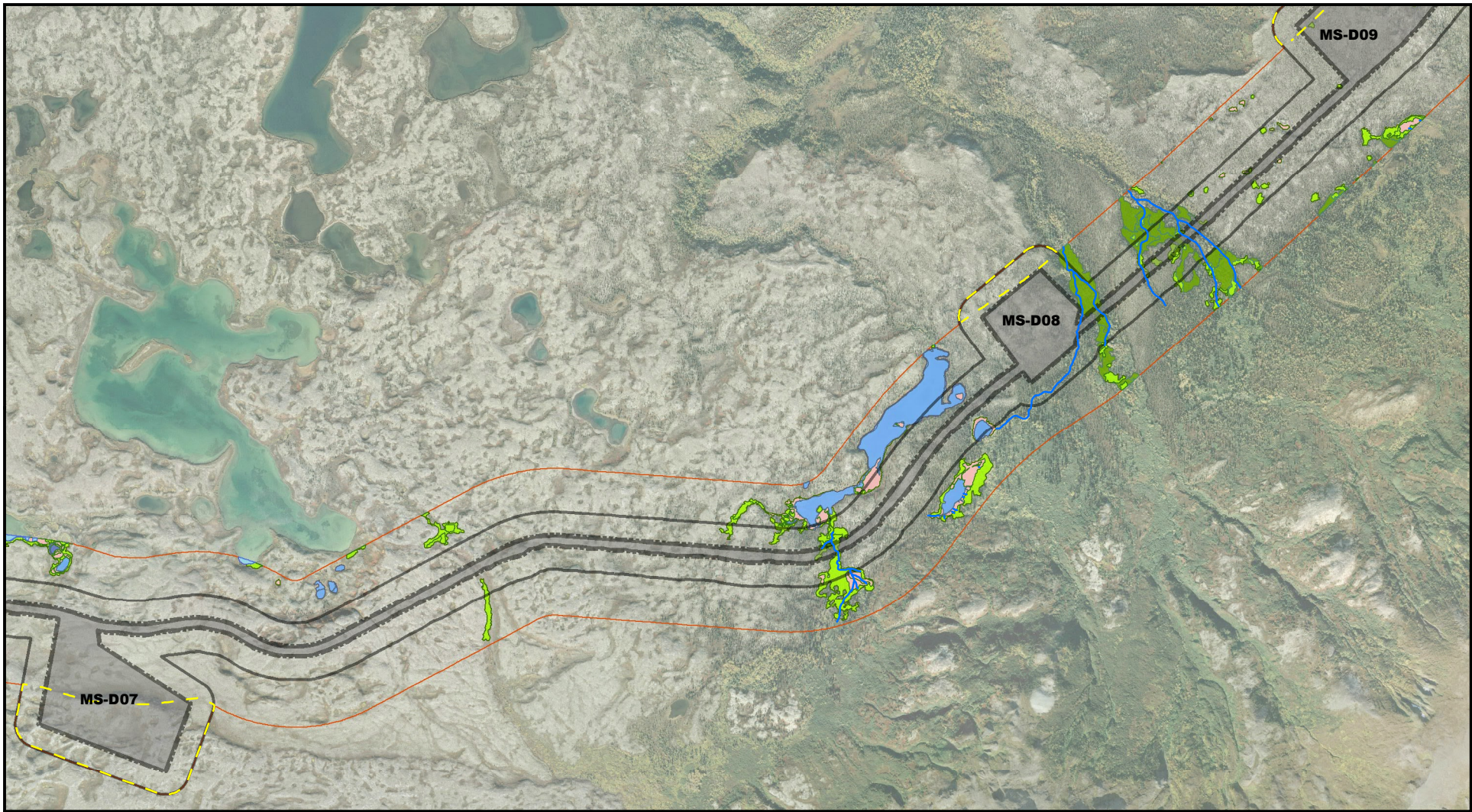
**UAF Data**

- Wetland
- Non-wetland
- No Data



**WETLANDS AND OTHER WATERS MAP SERIES**





Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

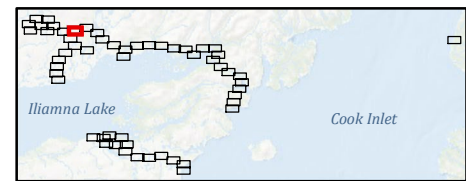
- Permanent
- Temporary
- Dust

**NWI Classes**

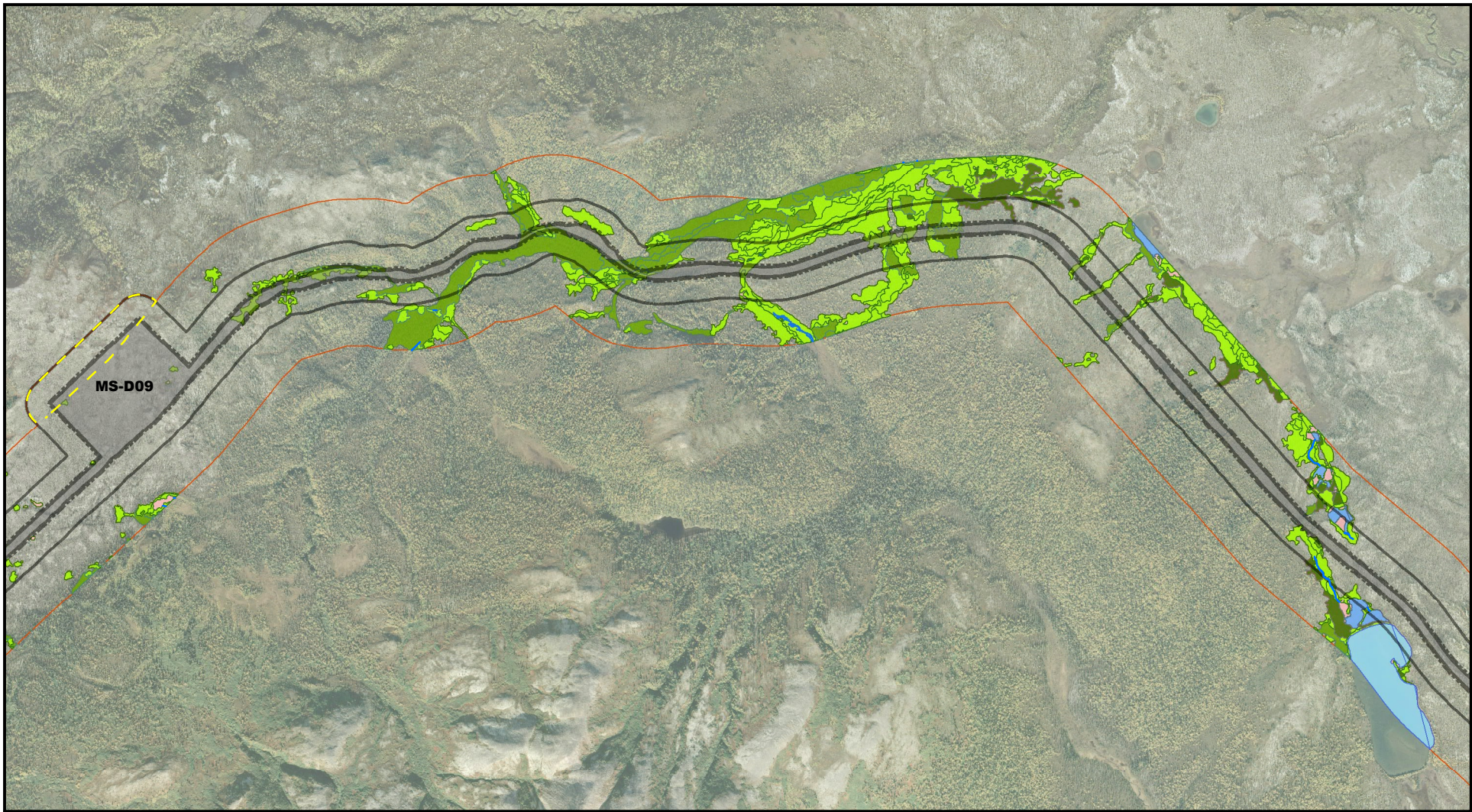
- Aquatic Bed
- Broad Leaved Deciduous Shrubs
- Deciduous Forest

- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland


USFWS NWI Mapping Areas





**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF

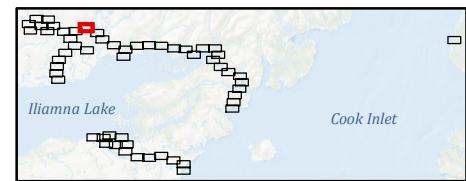


**US Army Corps of Engineers**

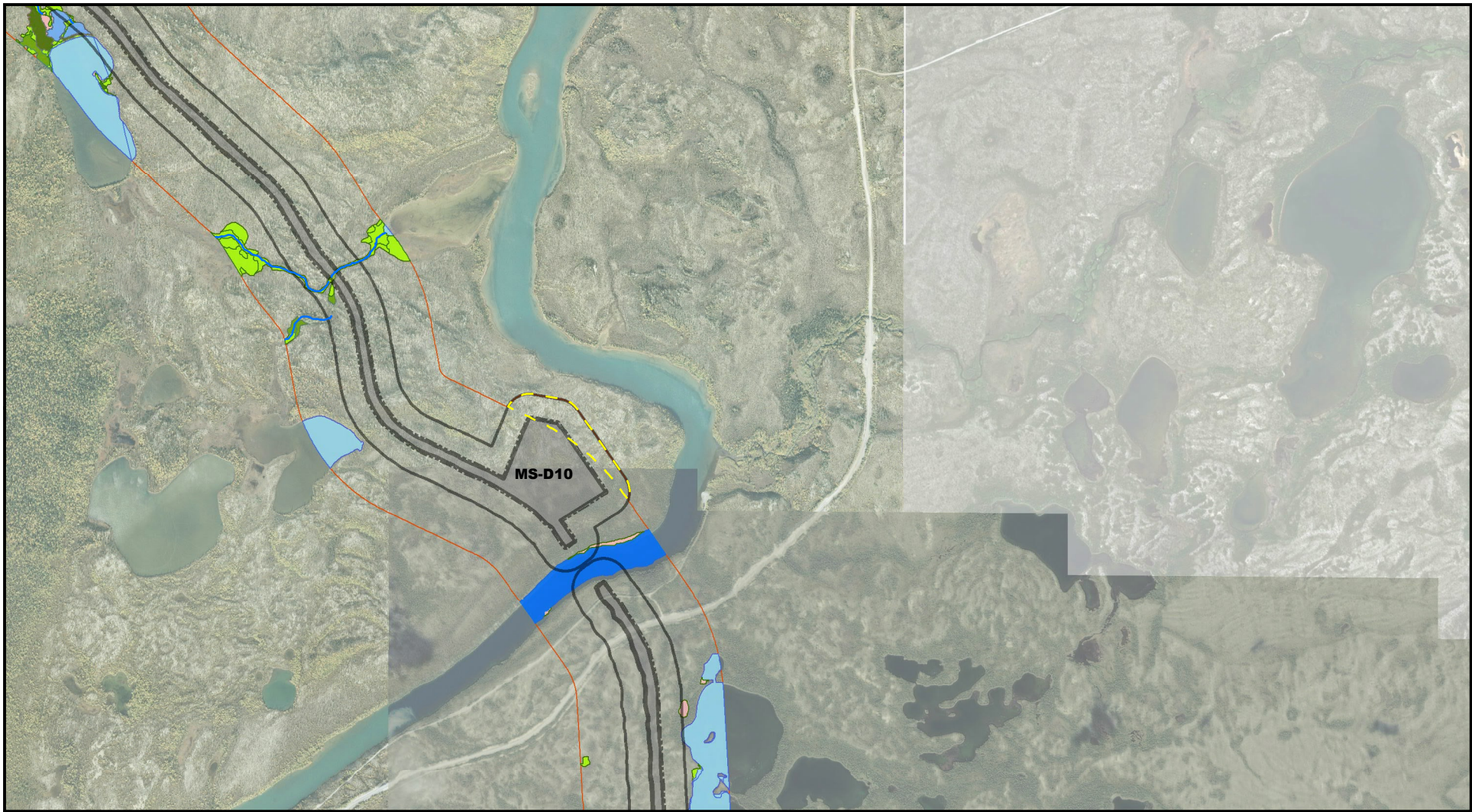



1,000 0 1,000 2,000  
Feet

Impact Type	NWI Classes		USFWS NWI Mapping Areas
Permanent	Broad Leaved Deciduous Shrubs	Herbaceous	USFWS NWI Mapping Areas
Temporary	Deciduous Forest	Lakes	
Dust	Evergreen Shrubs	Ponds	
		Rivers/Streams (Perennial)	
		Upland	



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

- Permanent
- Temporary
- Dust

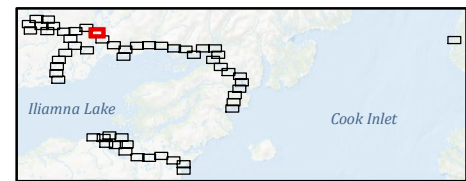
**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

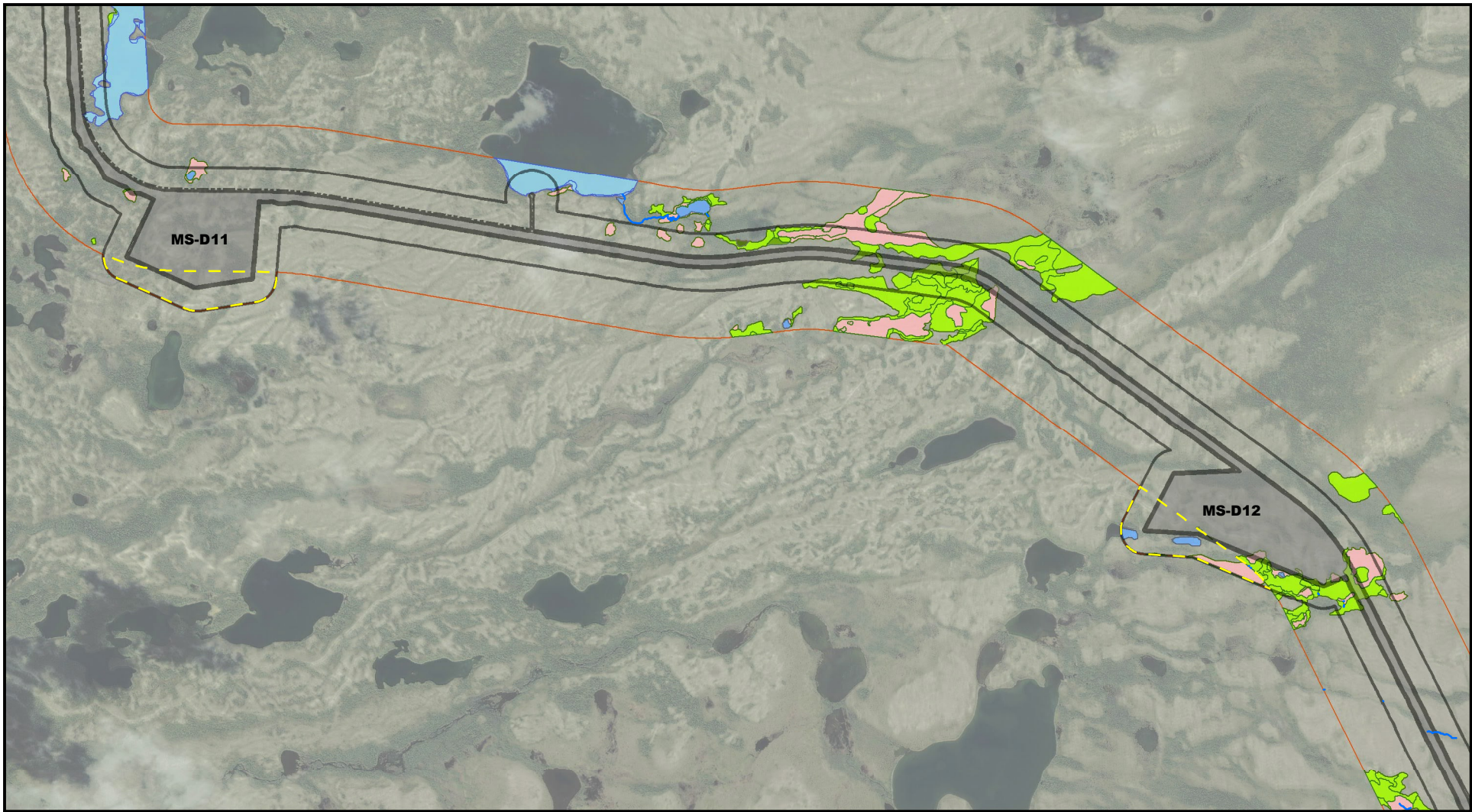
Herbaceous

- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



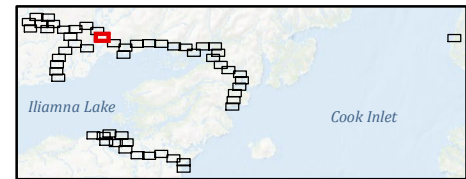
Sources: Pebble 2018; HDR; USFWS; UAF



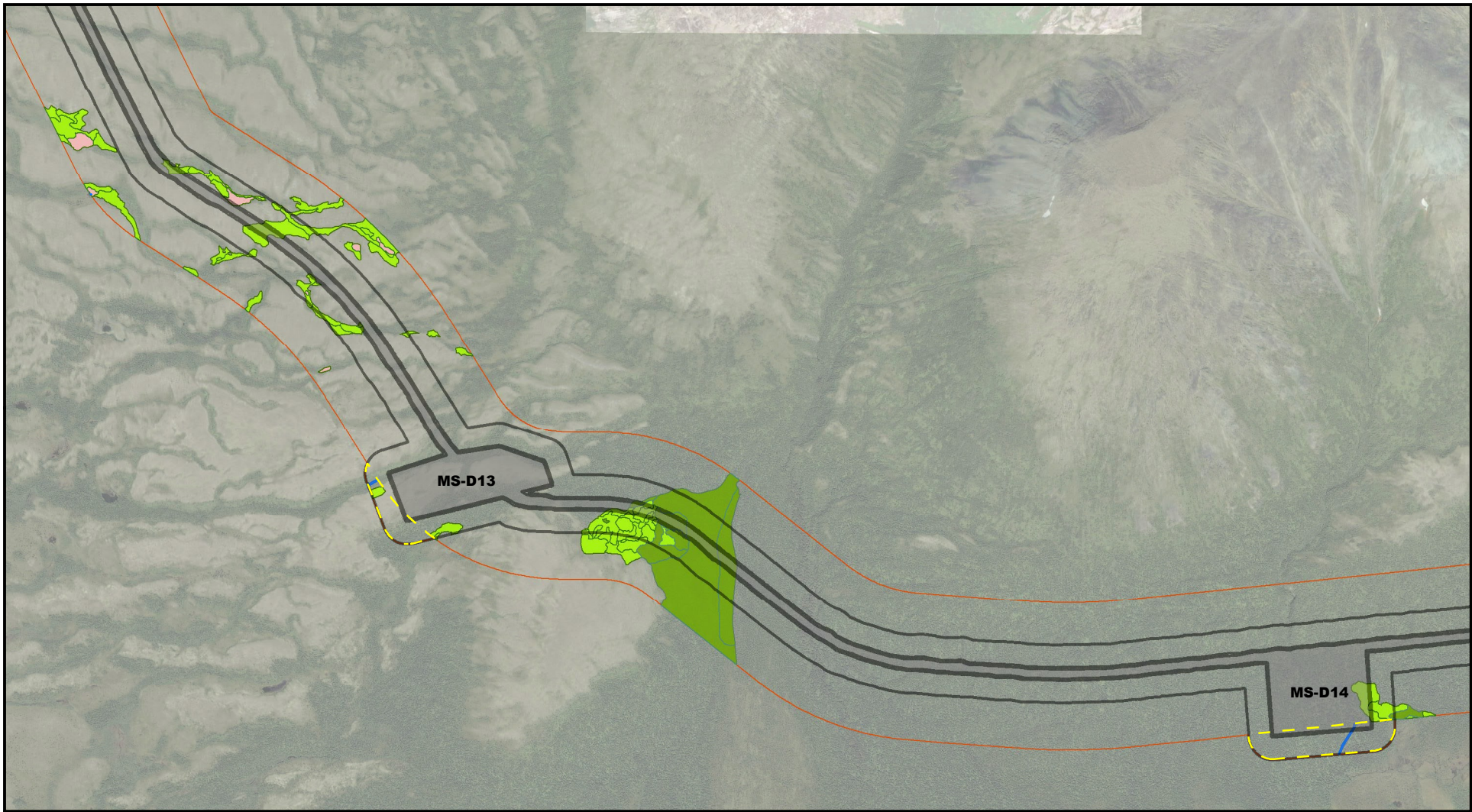
US Army Corps of Engineers®



Impact Type	NWI Classes	Other Features	USFWS NWI Mapping Areas
Permanent	Broad Leaved Deciduous Shrubs	Herbaceous	USFWS NWI Mapping Areas
Temporary	Deciduous Forest	Lakes	
Dust	Evergreen Shrubs	Ponds	
		Upland	



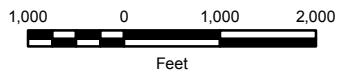
**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers



**Impact Type**

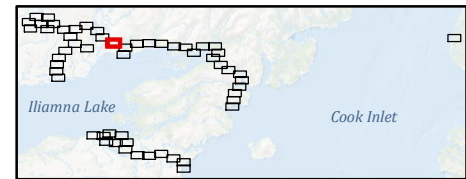
- Permanent
- Temporary
- Dust

**NWI Classes**

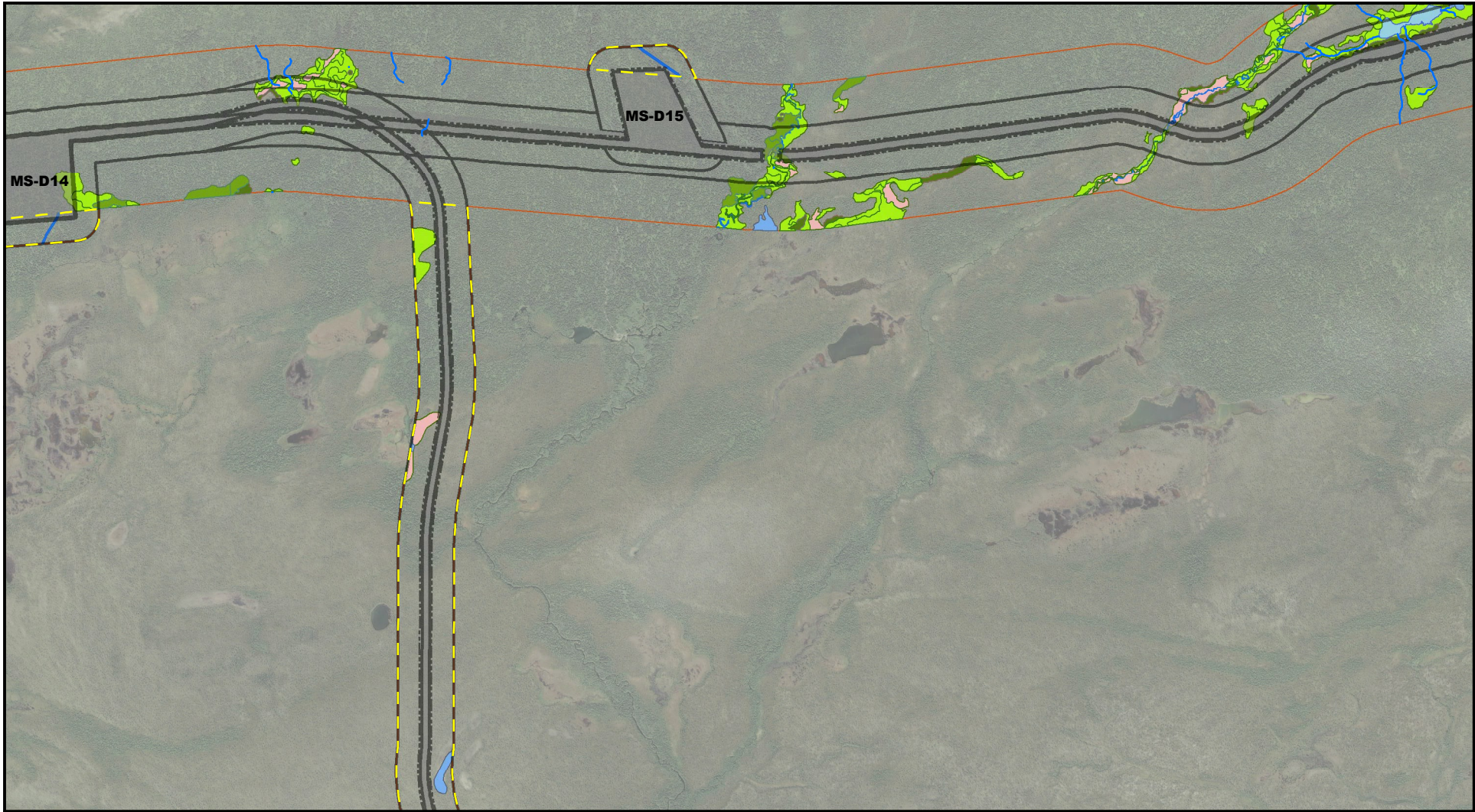
- Broad Leaved Deciduous Shrubs
- Deciduous Forest

- Herbaceous
- Ponds
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

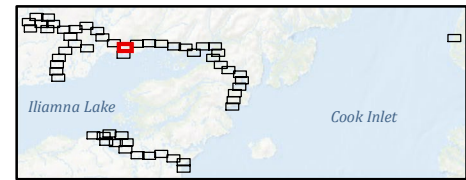
- Permanent
- Temporary
- Dust

**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

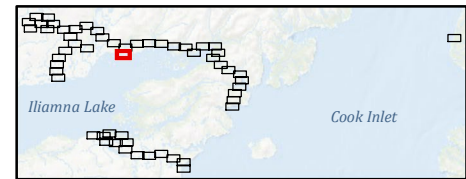
- Permanent
- Temporary
- Dust

**NWI Classes**

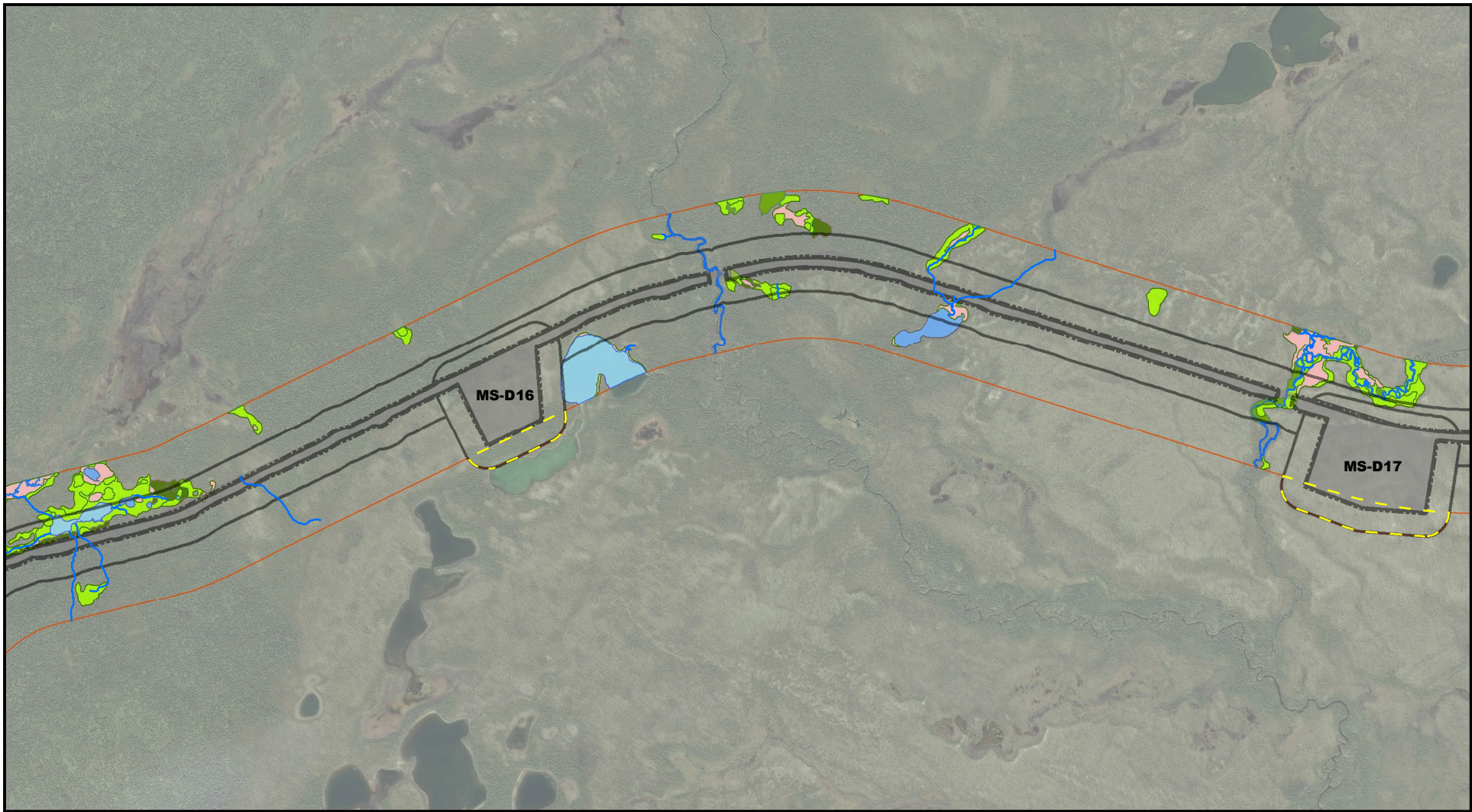
- Broad Leaved Deciduous Shrubs
- Herbaceous

- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland

- USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

- Permanent
- Temporary
- Dust

**NWI Classes**

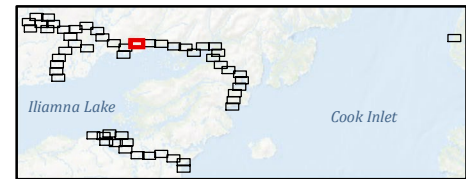
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

**Other Features**

- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland

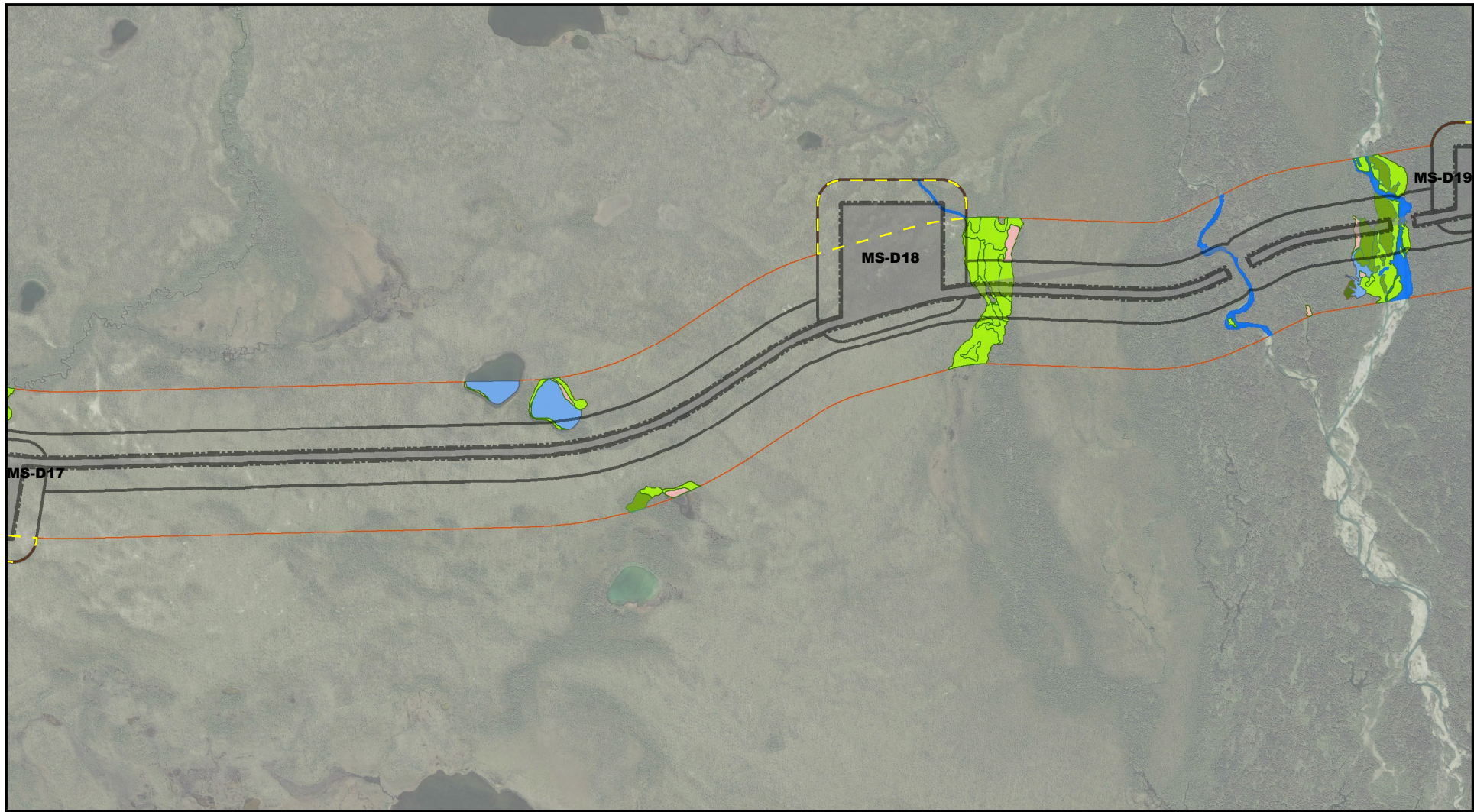
**USFWS NWI Mapping Areas**

- USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**





Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

- Permanent
- Temporary
- Dust

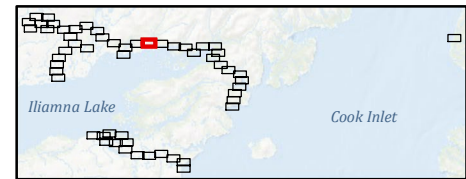
**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

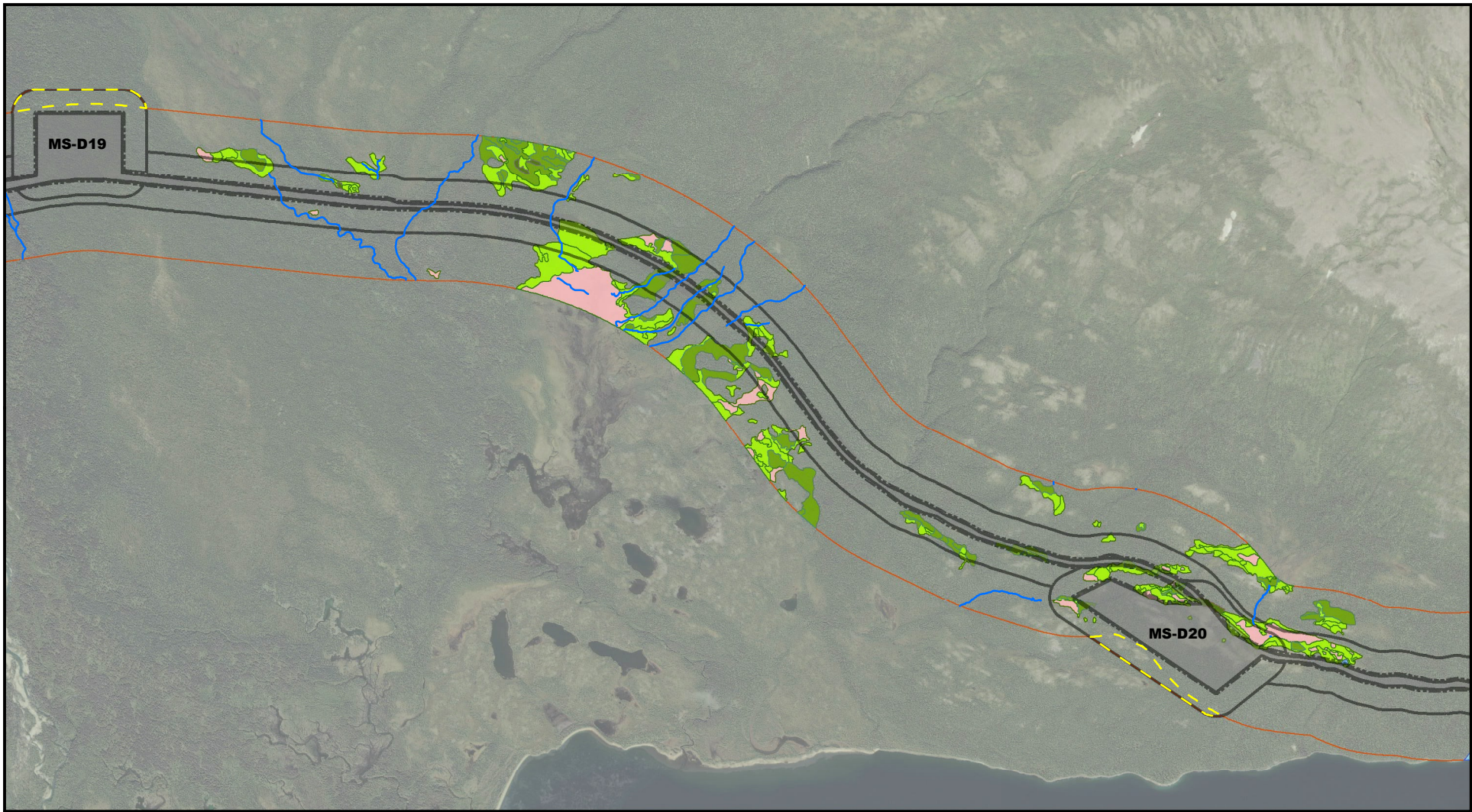
Herbaceous

- Ponds
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas



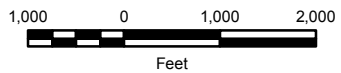
**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

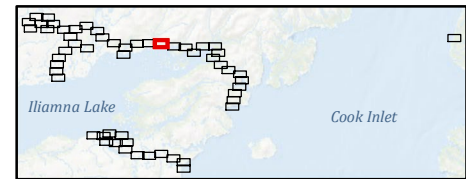
- Permanent
- Temporary
- Dust

**NWI Classes**

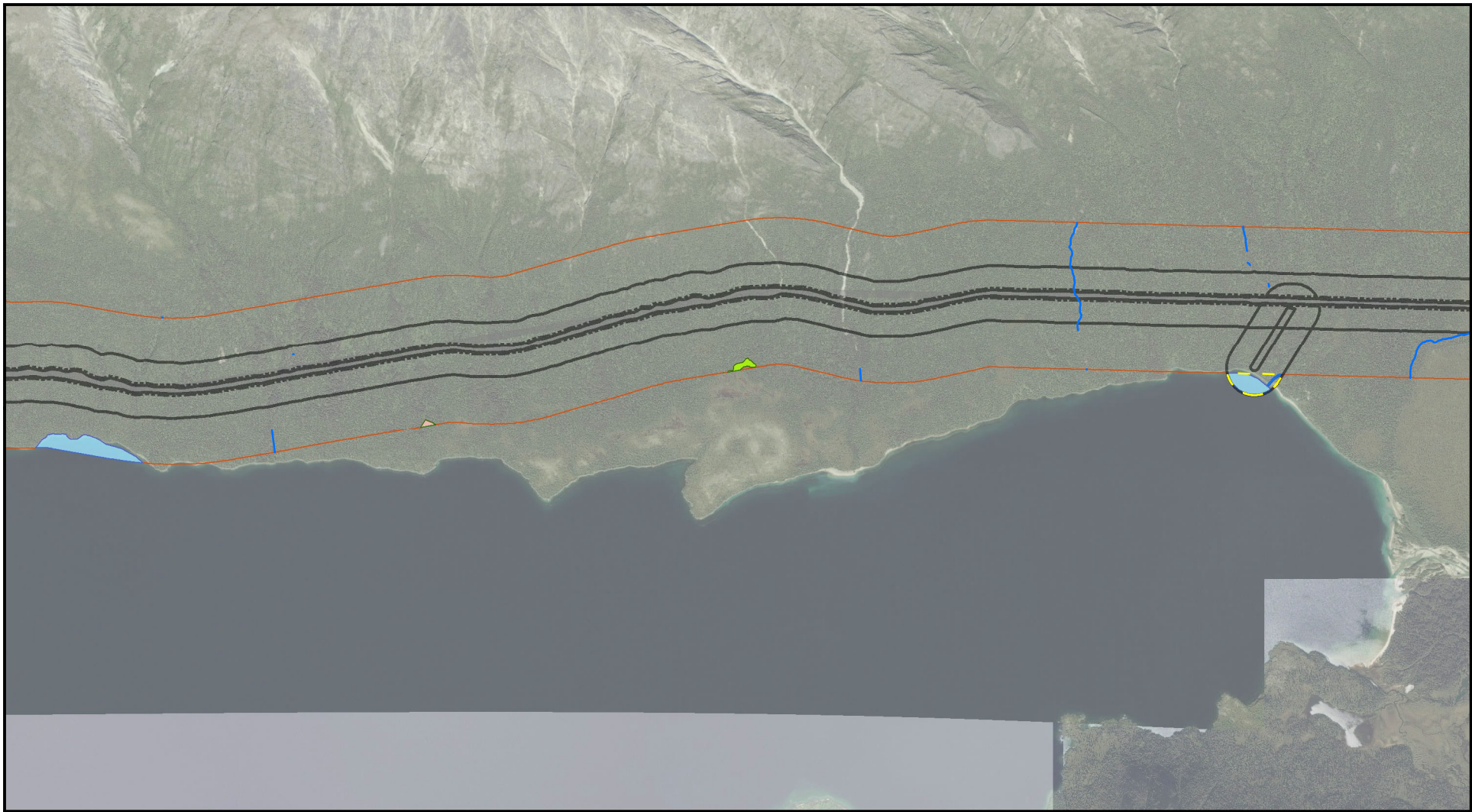
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Herbaceous
- Lakes
- Ponds
- Upland

- USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers



**Impact Type**

- Permanent
- Temporary
- Dust

**NWI Classes**

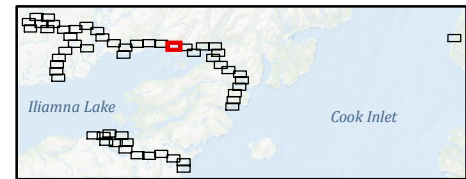
- Broad Leaved Deciduous Shrubs
- Herbaceous

**Other Features**

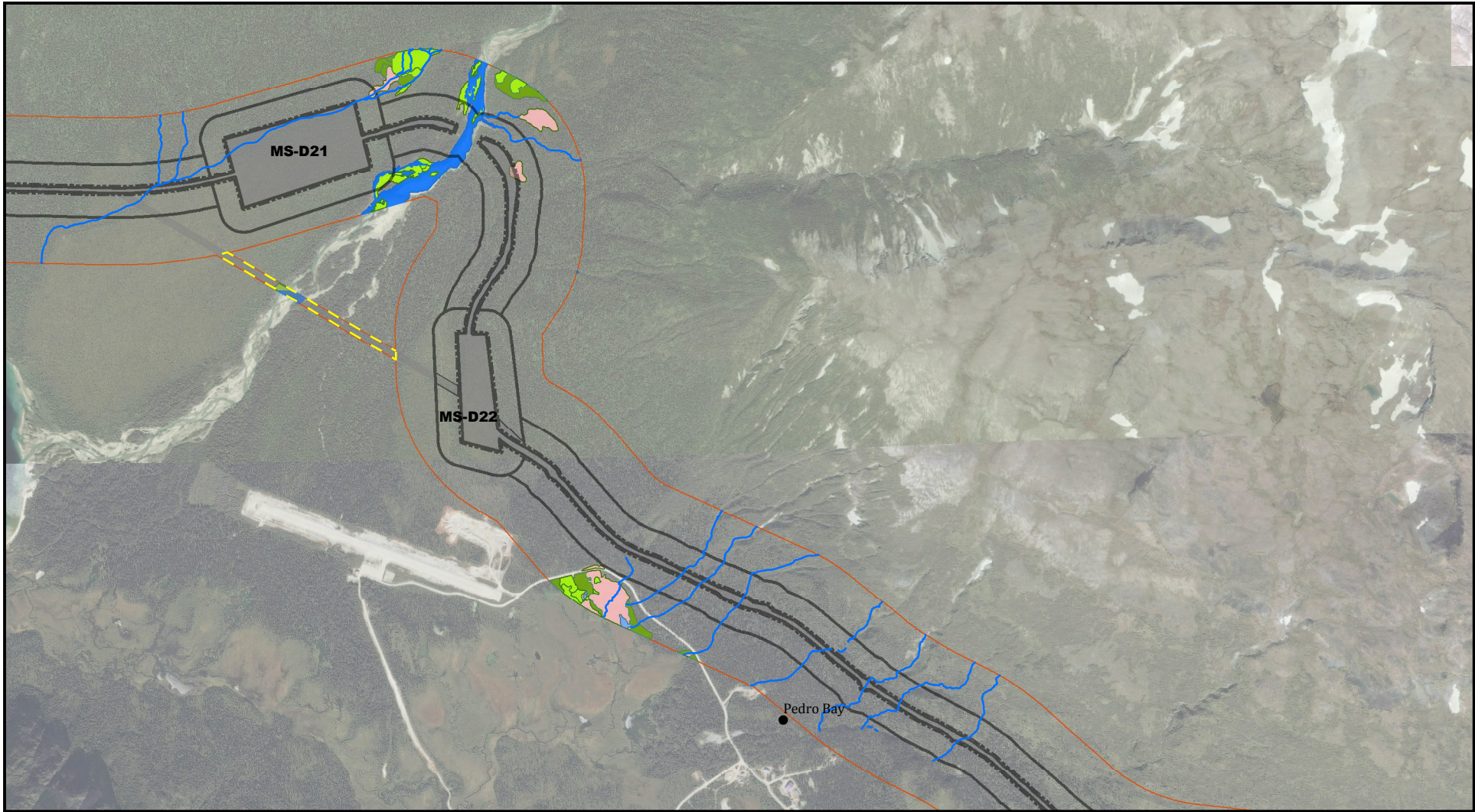
- Lakes
- Rivers/Streams (Perennial)
- Upland

**USFWS NWI Mapping Areas**

- USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers



**Impact Type**

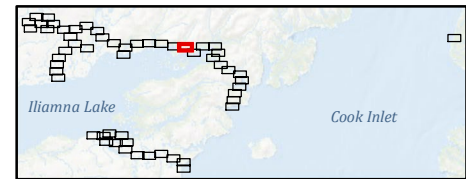
- Permanent
- Temporary
- Dust

**NWI Classes**

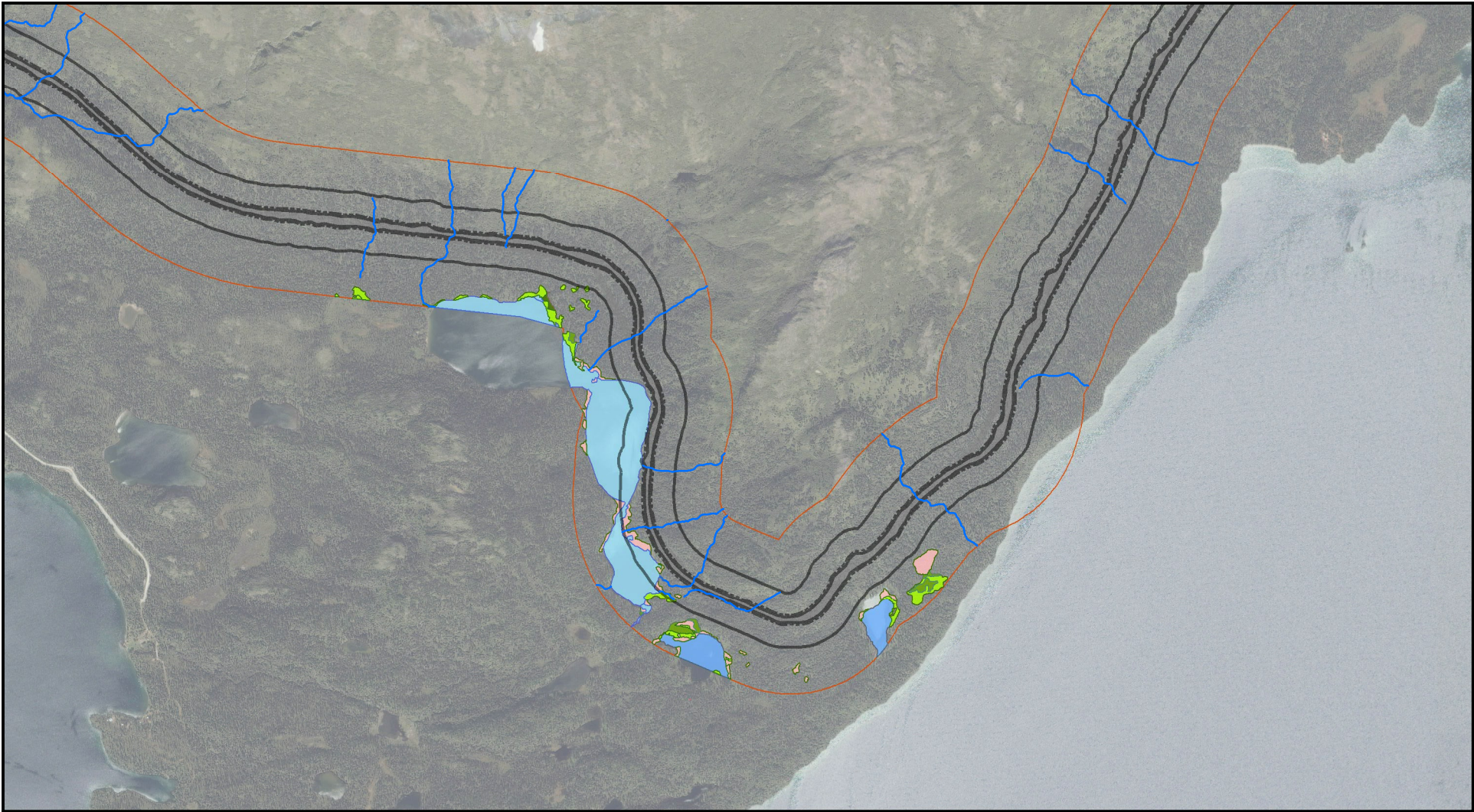
- Broad Leaved Deciduous Shrubs
- Deciduous Forest

- Herbaceous
- Ponds
- Rivers/Streams (Perennial)
- Upland

- USFWS NWI Mapping Areas



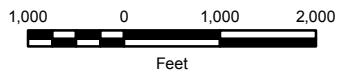
**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

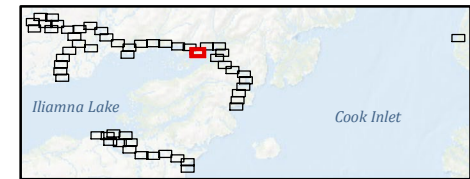
- Permanent
- Temporary
- Dust

**NWI Classes**

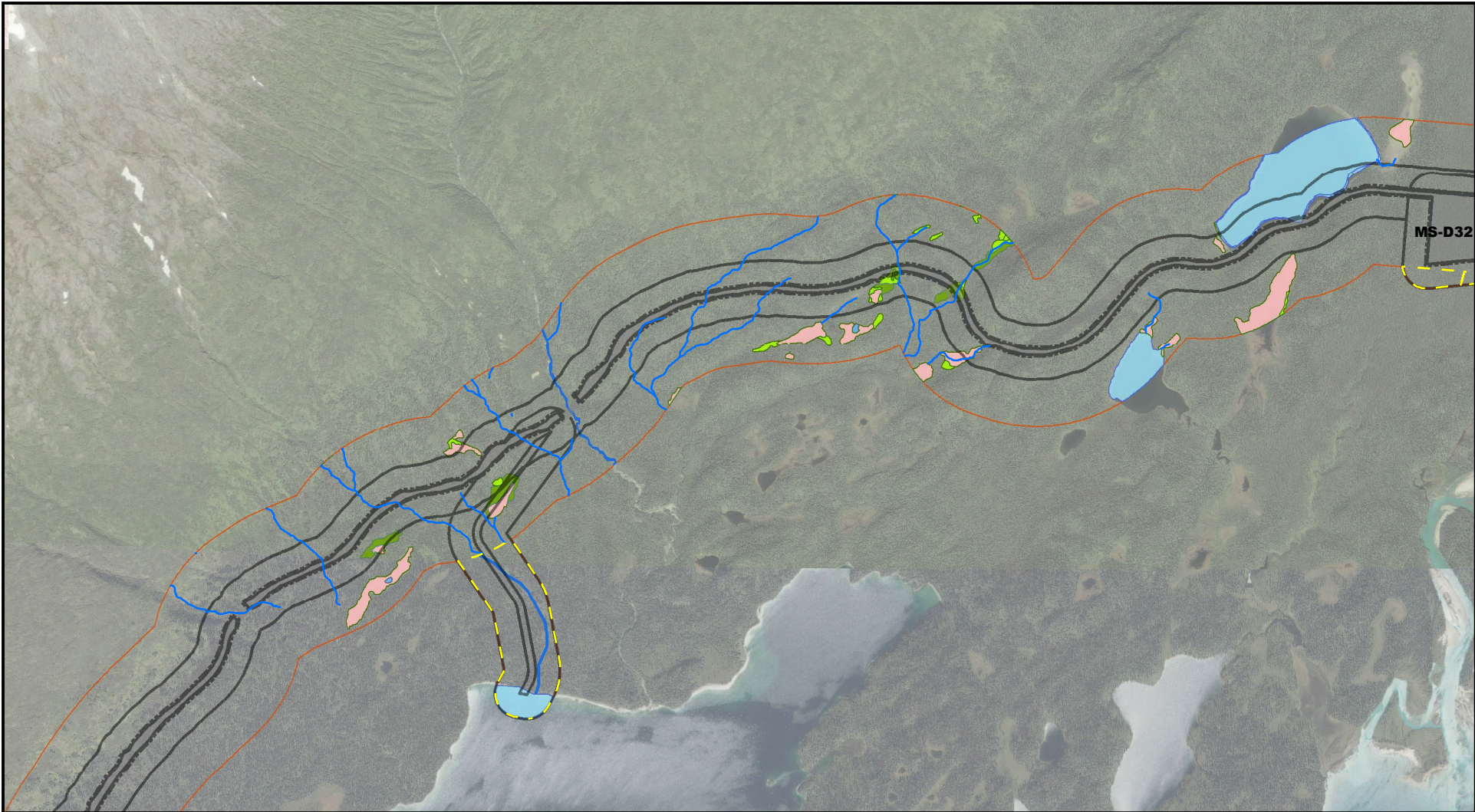
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

**Other Waters**


- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland





**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF

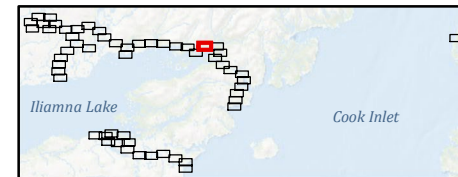


**US Army Corps of Engineers**

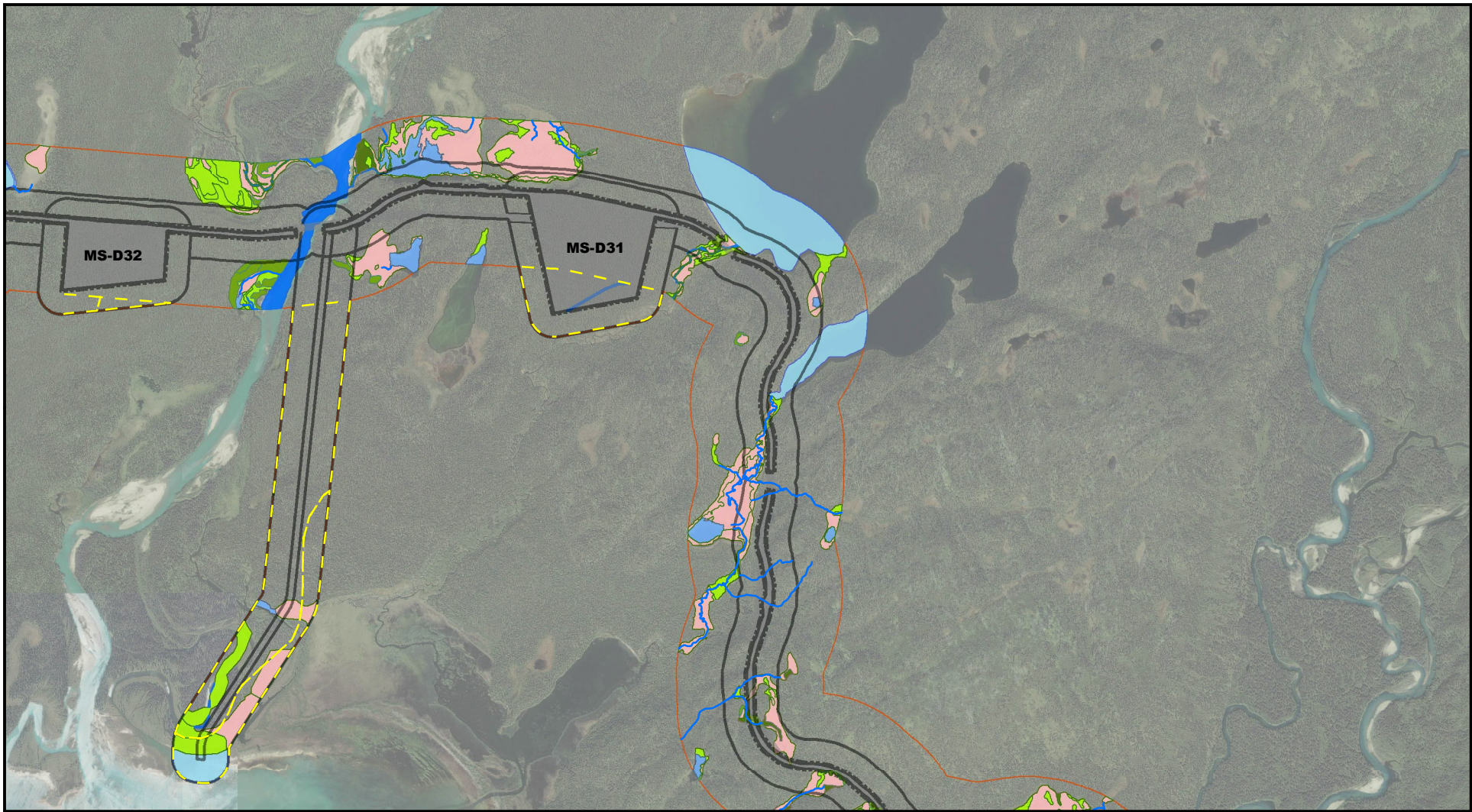



1,000 0 1,000 2,000  
Feet

Impact Type	NWI Classes		USFWS NWI Mapping Areas
Permanent	Broad Leaved Deciduous Shrubs	Lakes	
Temporary	Deciduous Forest	Ponds	
Dust	Herbaceous	Rivers/Streams (Perennial)	
		Upland	



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

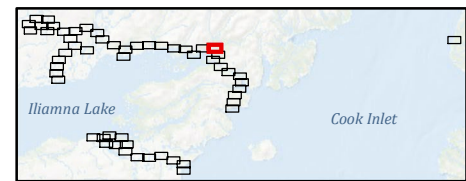
- Permanent
- - - Temporary
- Dust

**NWI Classes**

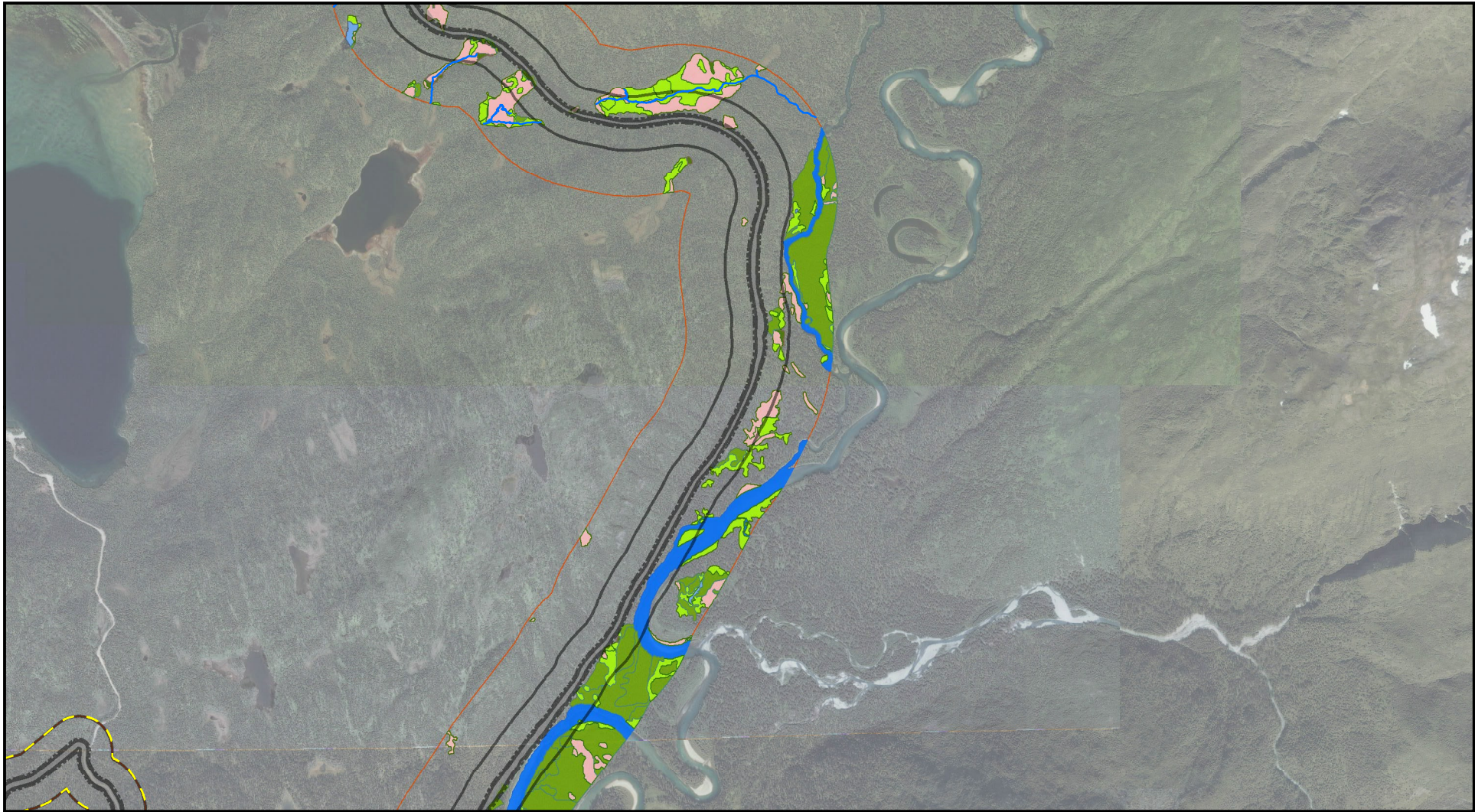
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland

■ USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

- Permanent
- - - Temporary
- Dust

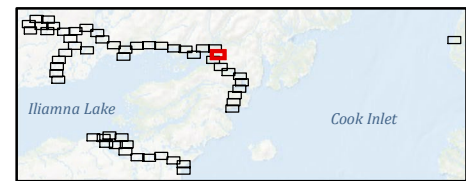
**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

■ Herbaceous

- Ponds
- Rivers/Streams (Perennial)
- Upland

■ USFWS NWI Mapping Areas

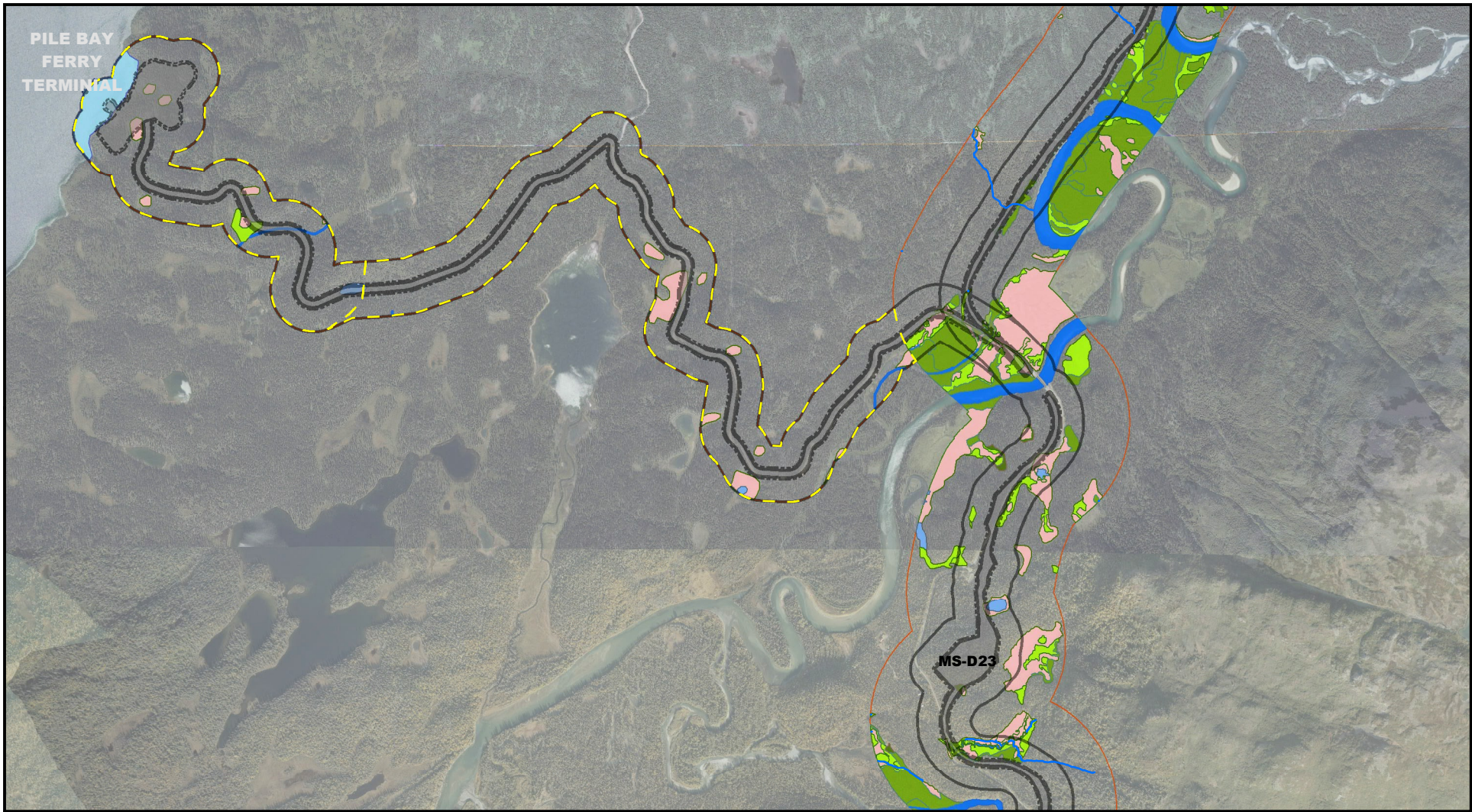


**WETLANDS AND OTHER WATERS MAP SERIES**

PEBBLE PROJECT EIS

FIGURE K4.22-46 of 56





Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

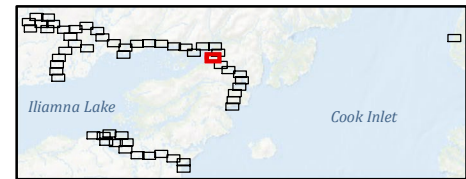
- Permanent
- Temporary
- Dust

**NWI Classes**

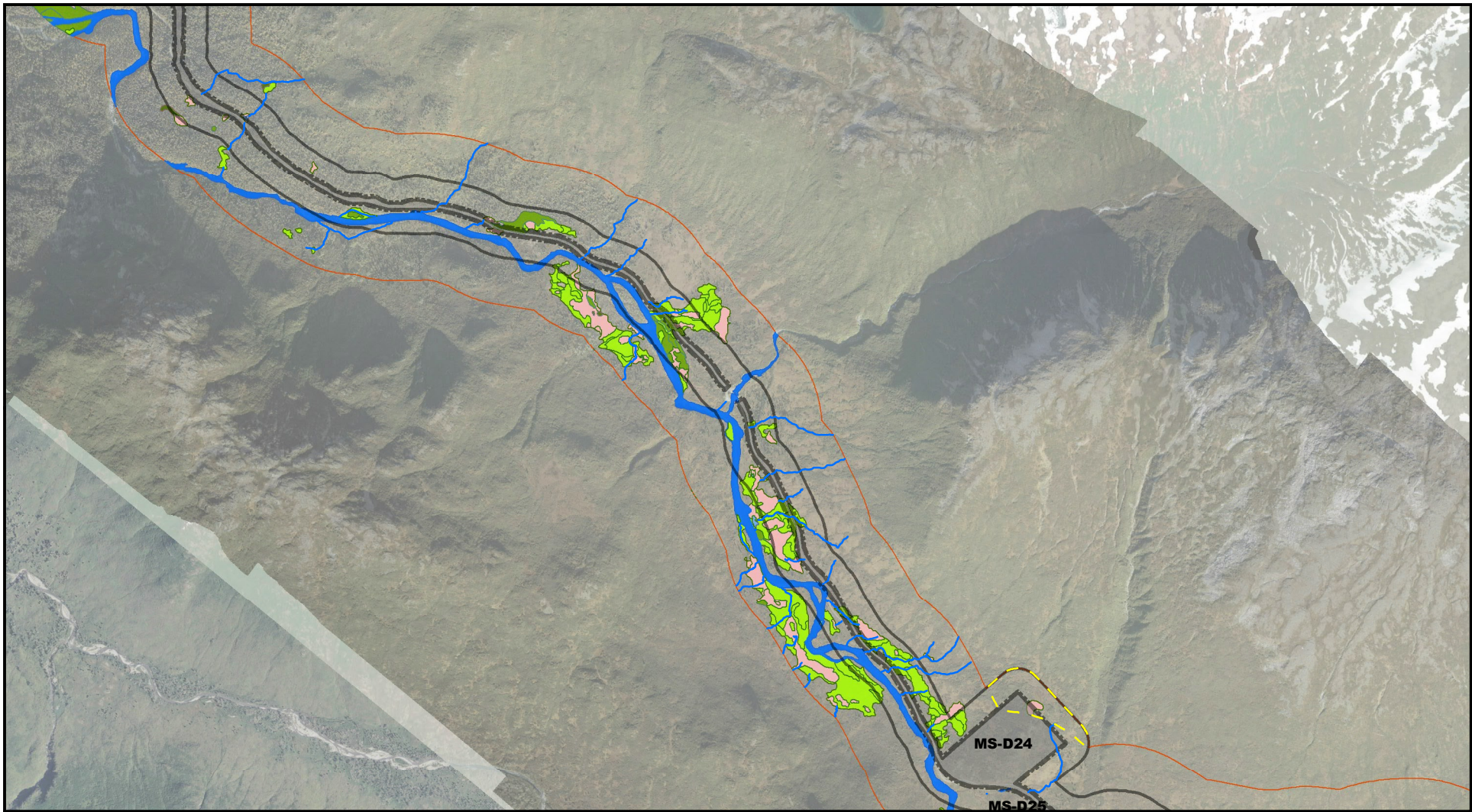
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers



**Impact Type**

- Permanent
- Temporary
- Dust

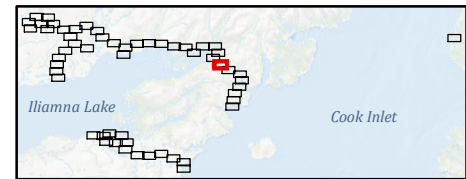
**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

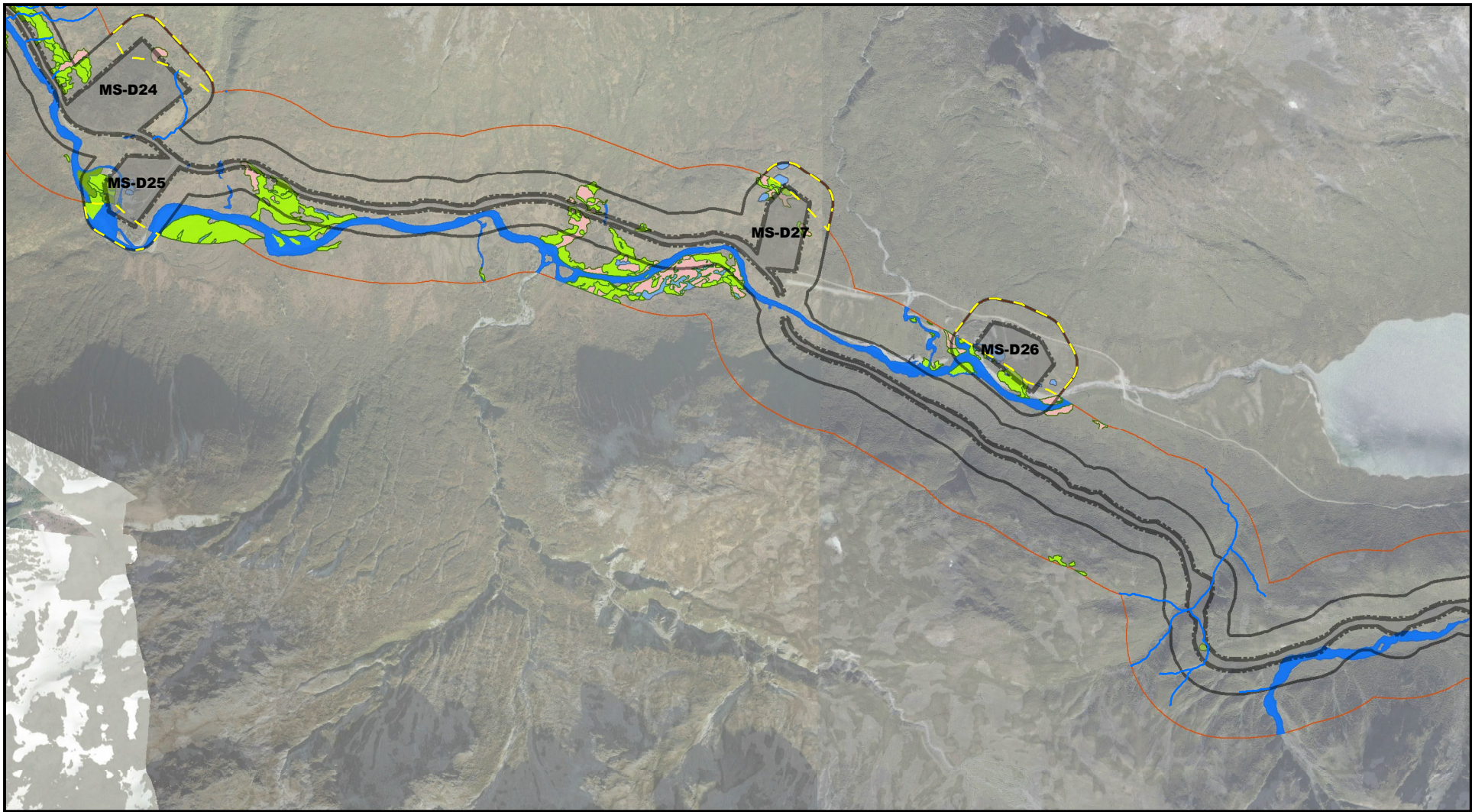
Herbaceous

- Ponds
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



**Impact Type**

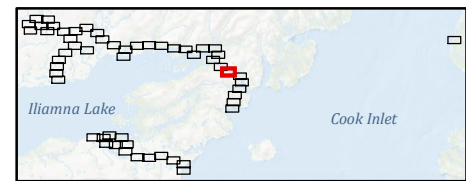
- Permanent
- Temporary
- Dust

**NWI Classes**

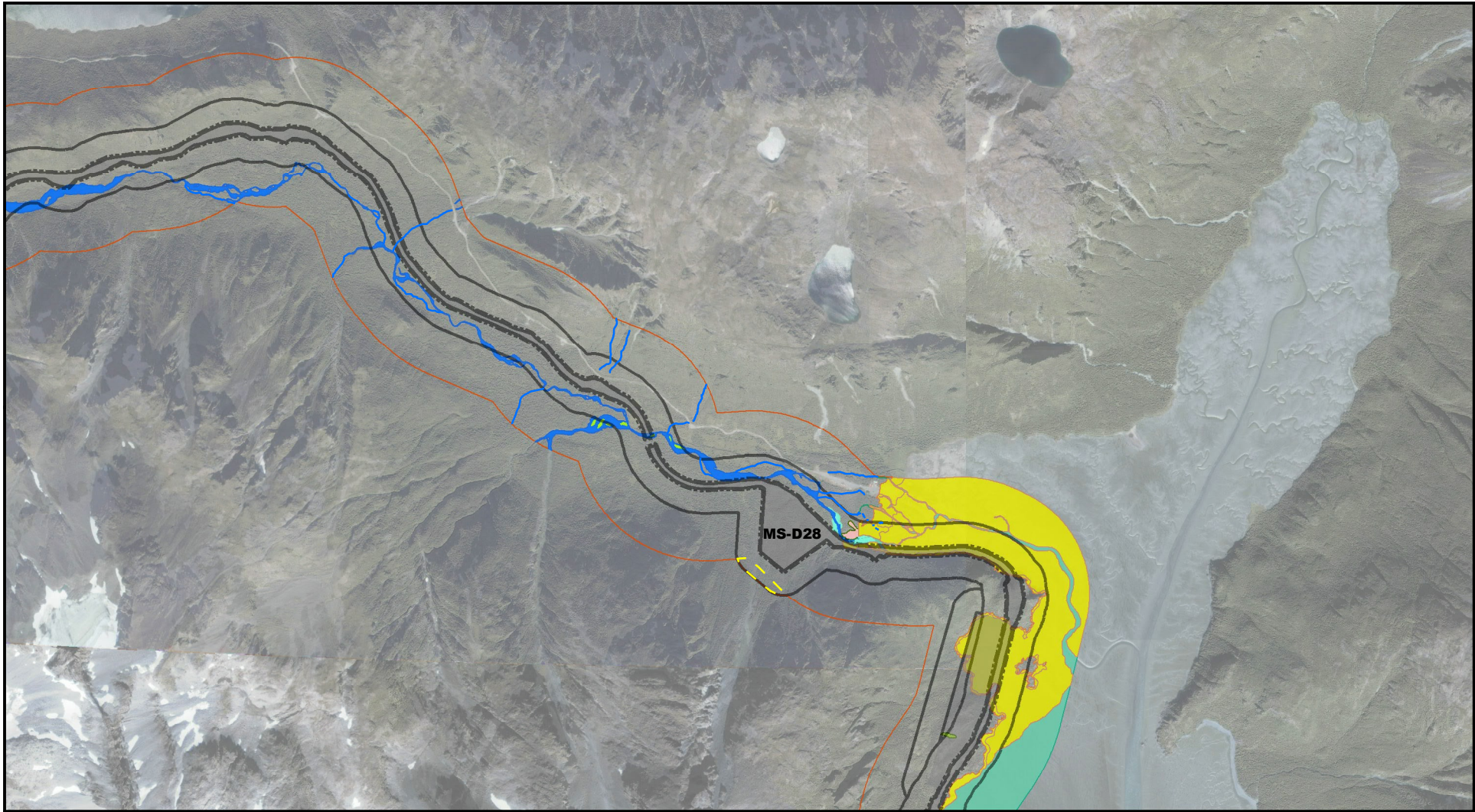
- Broad Leaved Deciduous Shrubs
- Deciduous Forest

- Herbaceous
- Ponds
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers



**Impact Type**

- Permanent
- Temporary
- Dust

**NWI Classes**

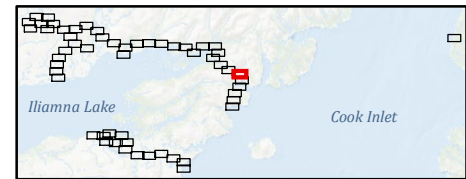
- Broad Leaved Deciduous Shrubs
- Estuarine (Intertidal)
- Estuarine (Subtidal)

**Herbaceous**

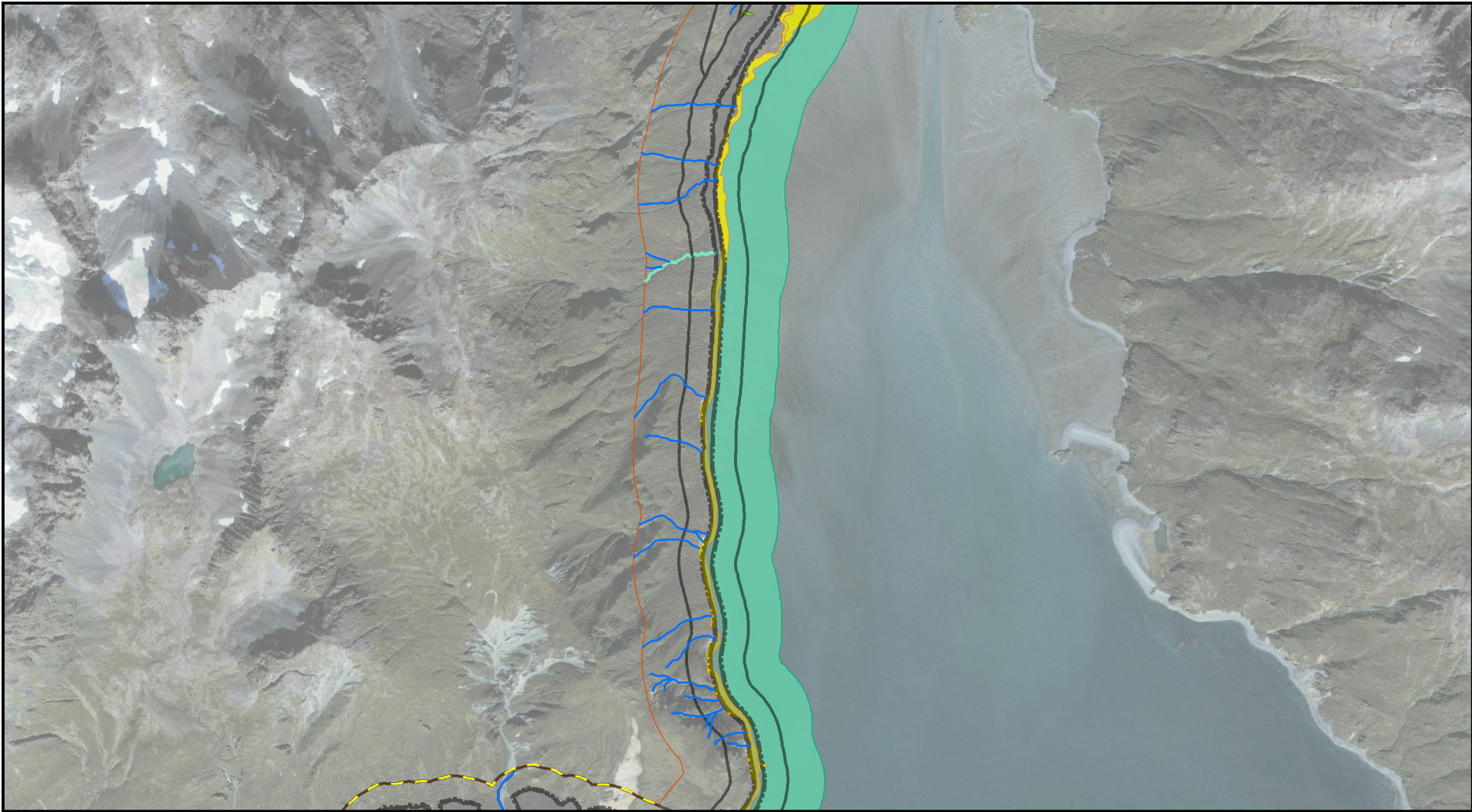
- Herbaceous
- Rivers/Streams (Perennial)
- Rivers/Streams (Tidal)
- Upland

**USFWS NWI Mapping Areas**

- USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers®



**Impact Type**

- Permanent
- Temporary
- Dust

**NWI Classes**

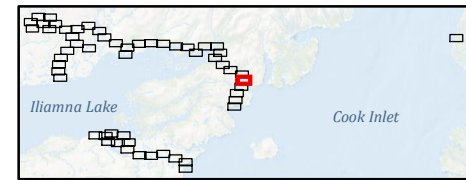
- Broad Leaved Deciduous Shrubs
- Estuarine (Intertidal)

**Waters**

- Estuarine (Subtidal)
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

**Other Features**

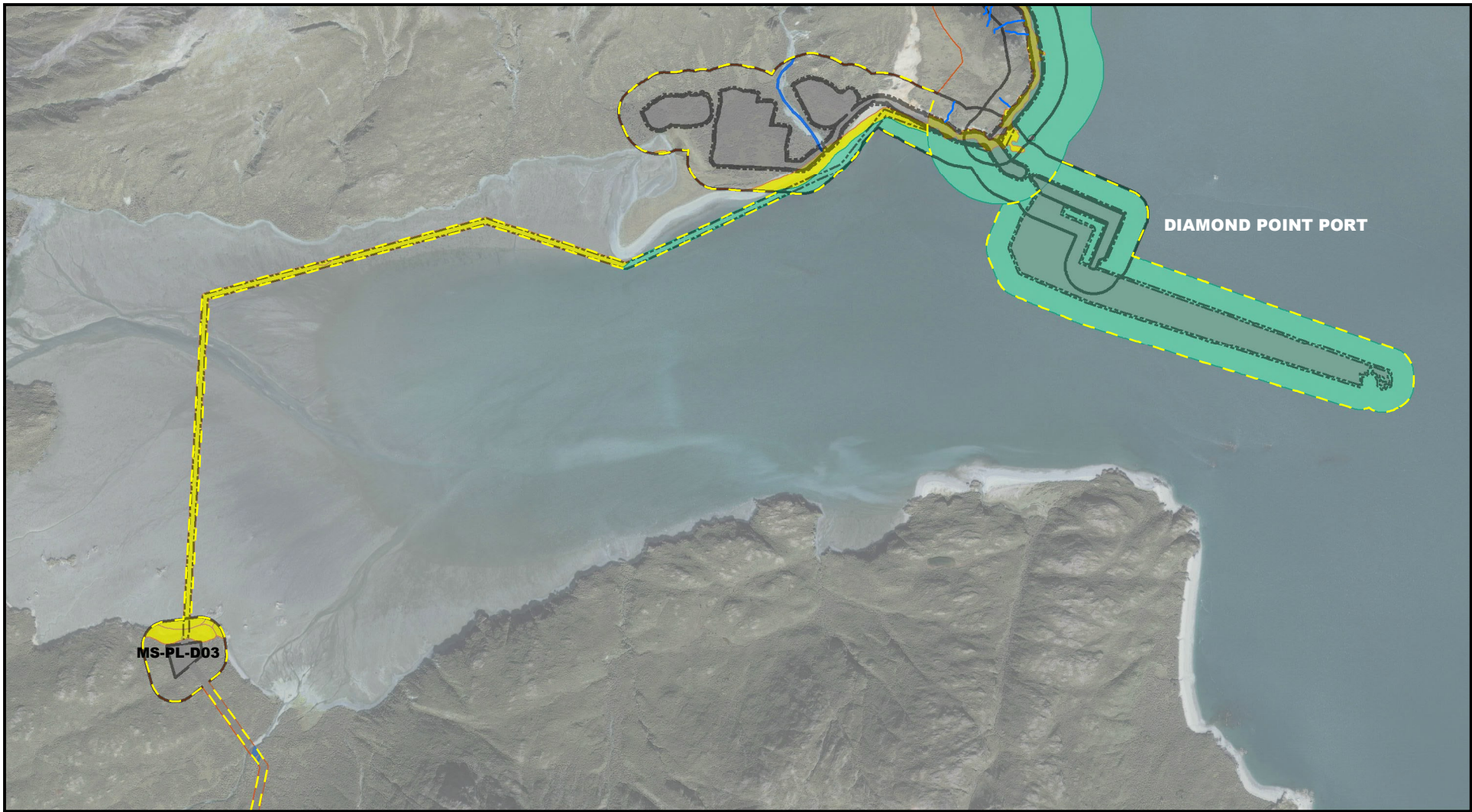
- USFWS NWI Mapping Areas




**WETLANDS AND OTHER WATERS MAP SERIES**

PEBBLE PROJECT EIS



FIGURE K4.22-51 of 56



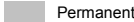






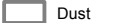
Sources: Pebble 2018; HDR; USFWS; UAF

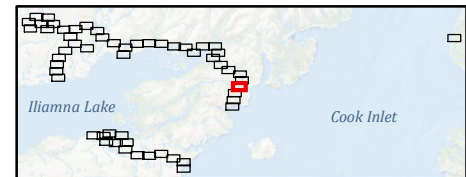


**US Army Corps of Engineers**

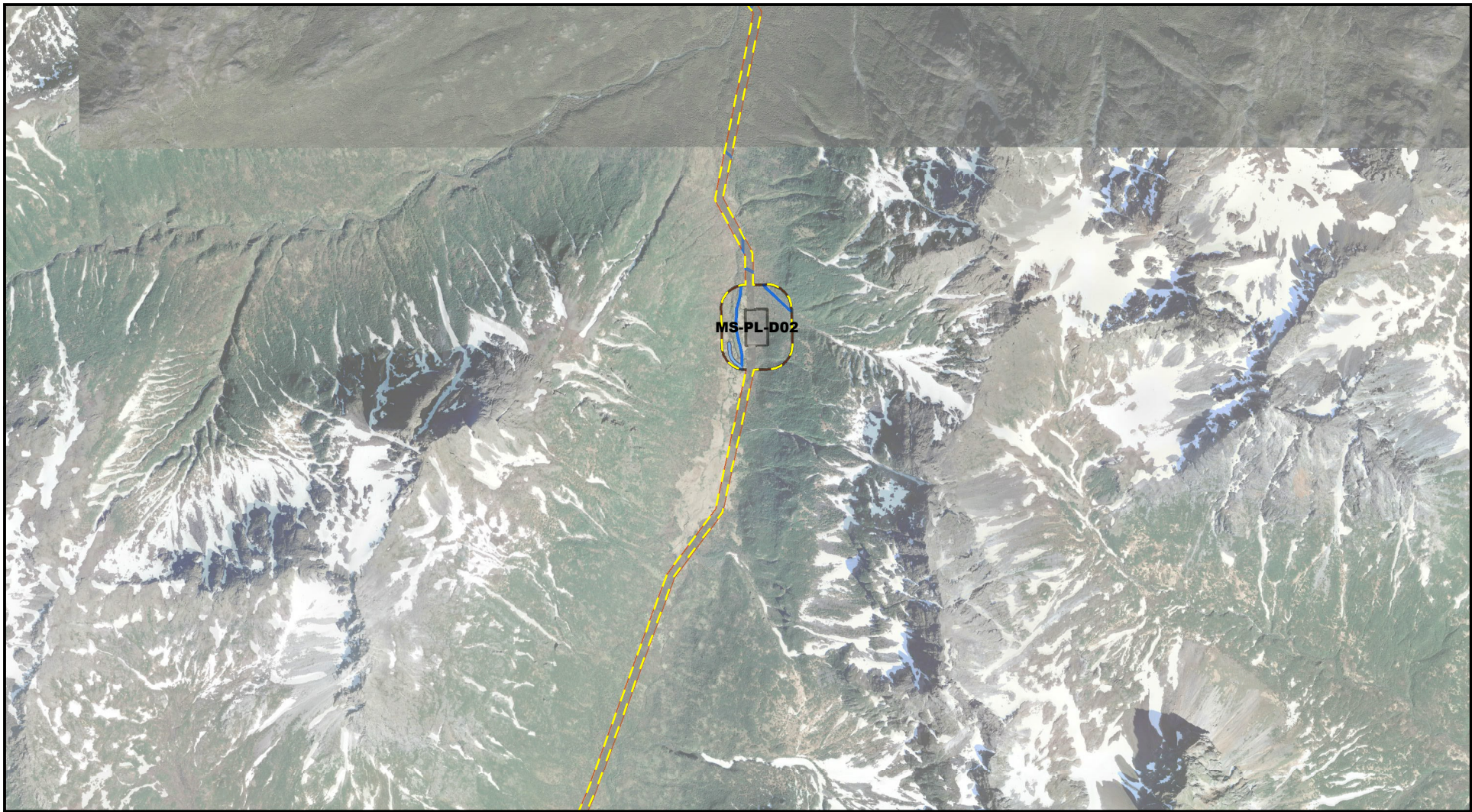



Feet


Impact Type	NWI Classes		
 Permanent	 Estuarine (Intertidal)	 Estuarine (Subtidal)	 USFWS NWI Mapping Areas
 Temporary	 Rivers/Streams (Perennial)	 Upland	
 Dust			





**WETLANDS AND OTHER WATERS MAP SERIES**









Sources: Pebble 2018; HDR; USFWS; UAF

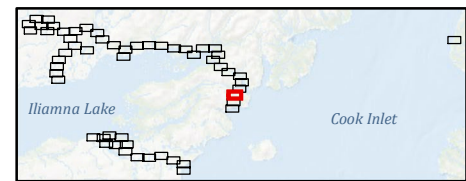


**US Army Corps of Engineers**

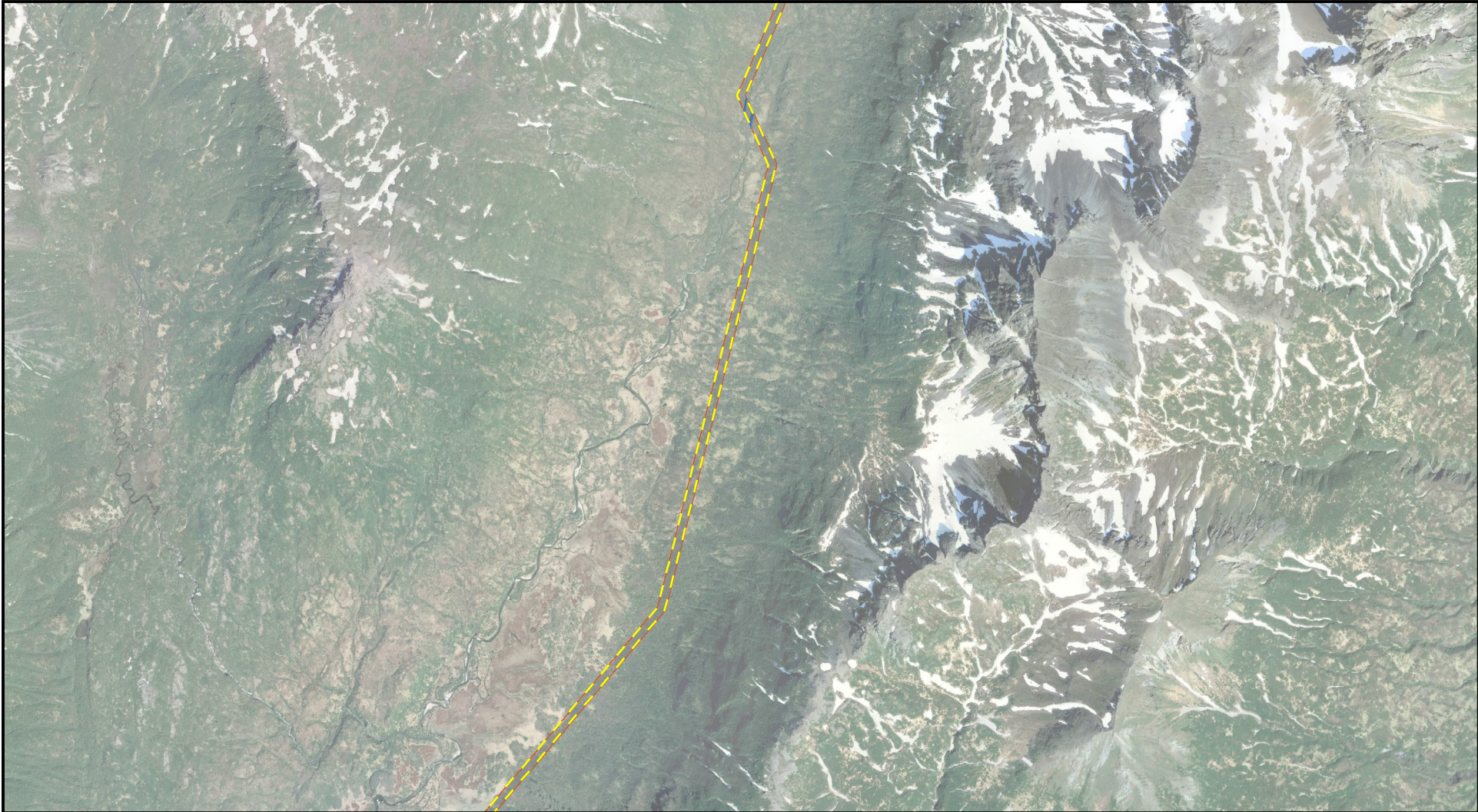



Feet

- |   |   |  |   |
|---|---|--|---|
| <b>Impact Type</b>  | <b>NWI Classes</b>  |  Rivers/Streams (Perennial) |  USFWS NWI Mapping Areas |
|  Permanent |  Ponds |  Upland                     |   |
|  Dust      |   |  |   |



**WETLANDS AND OTHER WATERS MAP SERIES**

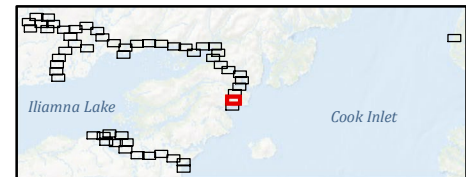


Sources: Pebble 2018; HDR; USFWS; UAF

- |                    |                               |                            |                         |
|--------------------|-------------------------------|----------------------------|-------------------------|
| <b>Impact Type</b> | <b>NWI Classes</b>            | Rivers/Streams (Perennial) | USFWS NWI Mapping Areas |
| Permanent          | Broad Leaved Deciduous Shrubs | Upland                     |                         |



US Army Corps of Engineers®



**WETLANDS AND OTHER WATERS MAP SERIES**

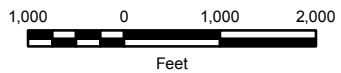




Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers



**Impact Type**

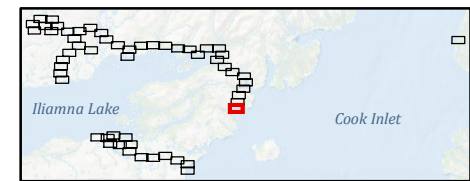
- Permanent
- Temporary
- Dust

**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Marine (Intertidal)

- Marine (Subtidal)
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas



**WETLANDS AND OTHER WATERS MAP SERIES**



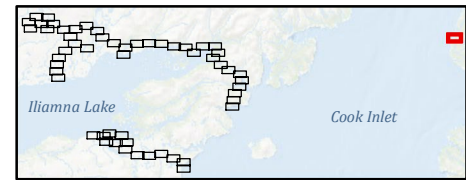
Sources: Pebble 2018; HDR; USFWS; UAF



US Army Corps of Engineers



Impact Type	NWI Classes	
Permanent	Broad Leaved Deciduous Shrubs	Marine (Intertidal)
Temporary	Evergreen Shrubs	Marine (Subtidal)
		Upland



WETLANDS AND OTHER WATERS MAP SERIES