



Source Water Assessment

A Hydrogeologic Susceptibility and Vulnerability Assessment for The Fort Yukon Drinking Water System, Fort Yukon, Alaska

PWSID # 360256.001

June 2004

DRINKING WATER PROTECTION PROGRAM REPORT 1342 Alaska Department of Environmental Conservation

Source Water Assessment for The Fort Yukon Drinking Water System Fort Yukon, Alaska

PWSID # 360256.001

DRINKING WATER PROTECTION PROGRAM REPORT 1342

The Drinking Water Protection Program (DWPP) is producing Source Water Assessments in compliance with the Safe Drinking Water Act Amendments of 1996. Each assessment includes a delineation of the source water area, an inventory of potential and existing contaminant sources that may impact the water, a risk ranking for each of these contaminants, and an evaluation of the potential vulnerability of these drinking water sources.

These assessments are intended to provide public water systems owners/operators, communities, and local governments with the best available information that may be used to protect the quality of their drinking water. The assessments combine information obtained from various sources, including the U.S. Environmental Protection Agency, Alaska Department of Environmental Conservation (ADEC), public water system owners/operators, and other public information sources. The results of this assessment are subject to change if additional data becomes available. It is anticipated this assessment will be updated every five years to reflect any changes in the vulnerability and/or susceptibility of public drinking water source. If you have any additional information that may affect the results of this assessment, please contact the Program Coordinator of DWPP, (907) 269-7521.

CONTENTS

EXECUTIVE SUMMARY......1 PUBLIC DRINKING WATER SYSTEM1 DRINKING WATER PROTECTION AREA......1

| INVENTORY OF POTENTIAL AND EXISTING | |
|-------------------------------------|---|
| CONTAMINANT SOURCES | 2 |
| RANKING OF CONTAMINANT RISKS | 2 |
| VULNERABILITY OF DRINKING WATER | |
| SYSTEM | 3 |

TABLES

| Table 1. | Definition of Zones | 2 |
|----------|-----------------------|---|
| | Susceptibility | |
| Table 3. | Contaminant Risks | 3 |
| Table 4. | Overall Vulnerability | 4 |

APPENDICES

APPENDIX

DIX A. Fort Yukon Drinking Water Protection Area (Map A)

- B. Contaminant Source Inventory for Fort Yukon (Table 1) Contaminant Source Inventory and Risk Ranking for Fort Yukon – Bacteria and Viruses (Table 2)
 Contaminant Source Inventory and Risk Ranking for Fort Yukon – Nitrates/Nitrites (Table 3)
 Contaminant Source Inventory and Risk Ranking for Fort Yukon – Volatile Organic
 Chemicals (Table 4)
 Contaminant Source Inventory and Risk Ranking for Fort Yukon – Heavy Metals, Cyanide and Other Inorganic Chemicals (Table 5)
 Contaminant Source Inventory and Risk Ranking for Fort Yukon – Synthetic Organic
 Chemicals (Table 6)
 Contaminant Source Inventory and Risk Ranking for Fort Yukon – Other Organic Chemicals (Table 7)
- C. Fort Yukon Drinking Water Protection Area and Potential and Existing Contaminant Sources (Map C)
- D. Vulnerability Analysis for Contaminant Source Inventory and Risk Ranking for the Fort Yukon Public Drinking Water Source (Charts 1 14)

Source Water Assessment for the Fort Yukon Source of Public Drinking Water, Fort Yukon, Alaska

Drinking Water Protection Program Alaska Department of Environmental Conservation

EXECUTIVE SUMMARY

The community of Fort Yukon has one Public Water System (PWS) well. The well (PWS No. 360256.001) has been used as a drinking water source since it was drilled in 1978.

The well is a Class A (community and non-transient non-community) water system located on the north bank of the Yukon River. Available records indicate that there is secondary storage of drinking water, with a capacity of 120,000-gallons, and that the drinking water source is treated with calcium hypochlorite. This system operates year round and serves approximately 650 residents through 260 service connections. The wellhead received a susceptibility rating of **Very High** and the aquifer received a susceptibility rating of **High**. Combining these two ratings produce a **Very High** rating for the natural susceptibility of the well.

Identified potential and current sources of contaminants for the public drinking water source include water treatment facilities, fuel tanks, cemeteries, ADEC recognized contaminated sites, landfills, airports, power generation facilities, and bulk fuel facilities. A detailed inventory is located on Table 1 of Appendix B. These identified potential and existing sources of contamination are considered as sources of bacteria and viruses, nitrates and/or nitrites, volatile organic chemicals, heavy metals, cyanide and other inorganic chemicals, synthetic organic chemicals, and other organic chemicals contaminant categories.

Overall, the water well received a vulnerability rating of **Very High** for the bacteria and viruses, nitrates and nitrites, volatile organic chemicals, heavy metals, cyanide and other inorganic chemicals, synthetic organic chemicals, and other organic chemicals.

PUBLIC DRINKING WATER SYSTEM

The Fort Yukon well is a Class A (community/nontransient/non-community) public water system. The system located on the north bank of the Yukon River just north of Yllota Slough in Fort Yukon, Alaska (Sec. 18, T020N, R012E, Fairbanks Meridian; see Map A of Appendix A). Fort Yukon is located approximately 145 air miles northeast of Fairbanks. Fort Yukon has a population of 574 (ADCED, 2003). Average annual precipitation in Fort Yukon is 6.58 inches, including approximately 43.4 inches of snowfall. Temperatures range from the 65-72's°F in summer and -0°F in the winter.

Piped water and sewer are provided to most of the community, and the remaining residents have individual wells, haul water and use honeybuckets or septic tanks (ADCED, 2003). Fort Yukon receives electrical power from the Gwitchyaa Zhee Utility. Power generating facilities are fueled by diesel. Refuse is collected by the City and disposed of by the City and Military operated landfill (ADCED, 2003).

According to information supplied by ADEC for the Fort Yukon PWS, the depth of the well is 60 feet below the ground surface. Well construction details were not available in ADEC records, however it is assumed that the well is completed in a confined aquifer, is not screened and is located within a floodplain.

Information acquired from a January 2001 sanitary survey for the public water system indicated that the land surface was not sloped away from the well. Generally, land surfaces that slope away from the wellhead promote surface water drainage, which reduces the potential of contaminant migration down the well casing annulus. The sanitary survey indicates that the well is not grouted according to ADEC regulations. Proper grouting provides added protection against contaminants traveling along the well casing annulus and into source waters.

Fort Yukon lies within the Yukon Flats of the intermountain plateau physiographic province. The region is characterized by shallow lakes, broad valleys, oxbow lakes, meander scars, and lowland basins floored with alluvial deposits. Fort Yukon is located on the north side of the Yukon River, east of the Porcupine River. Alluvial soils up to several hundred feet thick may overlie bedrock in this area. This area is underlain by discontinuous permafrost.

The soils generally consist of organic silt overlying a gravelly, clayey, silty fine sand (Shannon & Wilson, 1992).

DRINKING WATER PROTECTION AREA

In order to evaluate whether a drinking water source is at risk, we must first evaluate what are the most likely pathways for surface contamination to reach the groundwater. These areas are determined by looking at the characteristics of the soil, groundwater, aquifer, and well.

The most probable area for contamination to reach the drinking water well is the area that contributes water to the well, the groundwater recharge area. This area is designated as the drinking water protection area (DWPA). Because releases of contaminants within the protection area are most likely to impact the drinking water well, this area will serve as the focus for voluntary protection efforts. An analytical calculation was used to determine the size and shape of the DWPA for the Fort Yukon PWS. The input parameters describing the attributes of the aquifer in this calculation were adopted from Groundwater (Freeze and Cherry, 1979). Available geology and groundwater contours were also considered to take into account any uncertainties in groundwater flow and aquifer characteristics to arrive at a meaningful protection area.

The protection areas established for wells by the ADEC are usually separated into four zones, limited by the watershed. These zones correspond to differences in the time-of-travel (TOT) of the water moving through the aquifer to the well (Please refer to the Guidance Manual for Class A Public Water Systems for additional information).

The time of travel for contaminants within the water varies and is dependent on the physical and chemical characteristics of each contaminant. The following is a summary of the four protection area zones for wells and the calculated time -of-travel for each:

Table 1. Definition of Zones

| Zone | Definition |
|------|--|
| А | ¹ / ₄ the distance for the 2-yr. time -of-travel |
| В | Less than the 2 year time-of-travel |
| С | Less Than the 5 year time -of-travel |
| D | Less than the 10 year time -of-travel |

The DWPA for the Fort Yukon PWS was determined using an analytical calculation and includes Zones A,

and D to the boundary of the watershed (See Map A of Appendix A).

INVENTORY OF POTENTIAL AND EXISTING CONTAMINANT SOURCES

The Drinking Water Protection Program has completed an inventory of potential and existing sources of contamination within the Fort Yukon DWPA. This inventory was completed through a search of agency records and other publicly available information. Potential sources of contamination to the drinking water aquifer include a wide range of categories and types. Potential drinking water contaminants are found within agricultural, residential, commercial, and industrial areas, but can also occur within areas that have little or no development.

For the basis of all Class A public water system assessments, six categories of drinking water contaminants were inventoried. They include:

- Bacteria and viruses,
- Nitrates and/or nitrites,
- Volatile organic chemicals,
- Heavy metals, cyanide and other inorganic chemicals,
- Synthetic organic chemicals,
- Other organic chemicals.

The sources are displayed on Map C of Appendix C and summarized in Table 1 of Appendix B.

RANKING OF CONTAMINANT RISKS

Once the potential and existing sources of contamination have been identified, they are assigned a ranking according to what type and level of risk they represent. Ranking of contaminant risks for a "potential" or "existing" source of contamination is a function of toxicity and volumes of specific contaminants associated with that source. Rankings include:

- Low,
- Medium,
- High, and
- Very High.

The time-of-travel for contaminants within the water varies and is dependent on the physical and chemical characteristics of each contaminant. Bacteria and Viruses are only inventoried in Zones A and B because of their short life span. Only "Very High" and "High" rankings are inventoried within the outer Zone D due to the probability of contaminant dilution by the time the contaminants get to the well. Tables 2 through 7 in Appendix B contain the ranking of potential and existing sources of contamination with respect to bacteria and viruses, nitrates and/or nitrites, volatile organic chemicals, heavy metals, cyanide and other inorganic chemicals, synthetic organic chemicals, and other organic chemicals.

VULNERABILITY OF THE DRINKING WATER SYSTEM

Vulnerability of a drinking water source to contamination is a combination of two factors:

- Natural susceptibility, and
- Contaminant risks.

Appendix D contains fourteen charts, which together form the 'Vulnerability Analysis' for a source water assessment for a public drinking water source. Chart 1 analyzes the 'Susceptibility of the Wellhead' to contamination by looking at the construction of the well and its surrounding area. Chart 2 analyzes the 'Susceptibility of the Aquifer' to contamination by looking at the naturally occurring attributes of the water source and influences on the groundwater system that might lead to contamination. Chart 3 analyzes 'Contaminant Risks' for the drinking water source with respect to bacteria and viruses. The 'Contaminant Risks' portion of the analysis considers potential sources of contaminants as well as a review of contamination that has or may have occurred, but has not arrived or been detected at the well. Chart 4 contains the 'Vulnerability Analysis for Bacteria and Viruses'. Charts 5 through 14 contain the Contaminant Risks and Vulnerability Analyses for nitrates and nitrites, volatile organic chemicals, heavy metals, cyanide and other inorganic chemicals, synthetic organic chemicals, and other organic chemicals, respectively.

A score for the Natural Susceptibility is reached by considering the properties of the well and the aquifer. Susceptibility of the Wellhead (0 – 25 Points) (Chart 1 of Appendix D)

Susceptibility of the Aquifer (0 – 25 Points) (Chart 2 of Appendix D)

+

Natural Susceptibility (Susceptibility of the Well) (0 – 50 Points)

=

A ranking is assigned for the Natural Susceptibility according to the point score:

| Natural Susceptibility Ratings | | | | |
|--------------------------------|-----------|--|--|--|
| 40 to 50 pts | Very High | | | |
| 30 to < 40 pts | High | | | |
| 20 to < 30 pts | Medium | | | |
| < 20 pts | Low | | | |

Fort Yukon's water well is assumed to be completed in a confined aquifer. Confined aquifers are less susceptible to potential groundwater quality impacts posed by the migration of surface water contaminants downward from the surface. Table 2 shows the susceptibility scores and ratings for this PWS.

Table 2. Susceptibility

| - | | |
|------------------------|-------|-----------|
| | Score | Rating |
| Susceptibility of the | 25 | Very High |
| Wellhead | | |
| Susceptibility of the | 19 | High |
| Aquifer | | |
| Natural Susceptibility | 44 | Very High |
| | | |

Contaminant risks to a drinking water source depend on the type, number or density, and distribution of contaminant sources. This score has been derived from an examination of existing and historical contamination that has been detected at the drinking water source through routine sampling. It also evaluates potential sources of contamination. Flow charts are used to assign a point score, and ratings are assigned in the same way as for the natural susceptibility:

Table 3 summarizes the Contaminant Risks for each category of drinking water contaminants.

| Contaminant Risk Ratings | | | | | |
|--------------------------|-----------|--|--|--|--|
| 40 to 50 pts | Very High | | | | |
| 30 to < 40 pts | High | | | | |
| 20 to < 30 pts | Medium | | | | |
| < 20 pts | Low | | | | |

Table 3.Contaminant Risks

| Category | Score | Rating |
|--------------------------|--------|-----------|
| Bacteria and Viruses | 50 | Very High |
| Nitrates and/or Nitrites | 50 | Very High |
| Volatile Organic Chemica | ls 50 | Very High |
| Heavy Metals, Cyanide an | nd | |
| Other Inorganic Chemical | s 50 | Very High |
| Synthetic Organic Chemic | als 50 | Very High |
| Other Organic Chemicals | 50 | Very High |
| | | |

Finally, an overall vulnerability score is assigned for each water system by combining each of the contaminant risk scores with the natural susceptibility score:

Natural Susceptibility (0 – 50 points)

Contaminant Risks (0 - 50 points)

=

Vulnerability of the Drinking Water Source to Contamination (0 – 100).

Again, rankings are assigned according to a point score:

| Overall Vulnerability Ratings | | | | | |
|-------------------------------|-----------|--|--|--|--|
| 80 to 100 pts | Very High | | | | |
| 60 to < 80 pts | High | | | | |
| 40 to < 60 pts | Medium | | | | |
| < 40 pts | Low | | | | |

Table 4 contains the overall vulnerability scores (0 – 100) and ratings for each of the six categories of drinking water contaminants. Note: scores are rounded off to the nearest five.

Table 4. Overall Vulnerability

| Category | Score | Rating |
|-----------------------------|-------|-----------|
| Bacteria and Viruses | 95 | Very High |
| Nitrates and Nitrites | 95 | Very High |
| Volatile Organic Chemicals | 95 | Very High |
| Heavy Metals, Cyanide and | | |
| Other Inorganic Chemicals | 95 | Very High |
| Synthetic Organic Chemicals | 95 | Very High |
| Other Organic Chemicals | 95 | Very High |
| | | |

Bacteria and Viruses

The contaminant risk for bacteria and viruses is **Very High**. The risk is primarily attributed to the presence of a sewage lagoon and landfill located in Zone A. Numerous other potential contamantant sources are also located within the protection area (see Table 2 – Appendix B).

Coliforms (a bacteria) are found naturally in the environment and although they aren't necessarily a health threat, they are an indicator of other potentially harmful bacteria in the water, more specifically, fecal coliforms and E. coli, which only come from human and animal fecal waste. Harmful bacteria can cause diarrhea, cramps, nausea, headaches, or other symptoms (EPA, 2002). Positive samples increase the overall vulnerability of the drinking water source, indicating that the source is susceptible to bacteria and virus contamination.

Positive bacteria counts have not been reported in recent (within five years) sampling events (See Chart 3 – Contaminant Risks for Bacteria and Viruses in Appendix D). Only a small amount of bacteria and viruses are required to endanger public health.

After combining the contaminant risk for bacteria and viruses with the natural susceptibility of the well, the overall vulnerability of the well to contamination is **Very High**.

Nitrates and Nitrites

The contaminant risk for nitrates and nitrites is **Very High.** The risk to this source of public drinking water is primarily attributed to the presence of a sewage lagoon, abandoned well and landfill located in Zone A. Numerous other potential contamantant sources are also located within the protection area (see Table 3 – Appendix B).

Nitrates are very mobile, moving at approximately the same rate as water. The sampling history for this well indicates that low levels of nitrates have been detected in recent sampling events, however have not exceeded the MCL of 10 mg/L. Nitrate concentrations in uncontaminated groundwater are typically less than 2 mg/L; therefore, nitrate concentrations above 2 mg/L may be indicative of man-made sources (See Chart 5 - Contaminant Risks for Nitrates and/or Nitrites in Appendix D).

Nitrate levels are often derived from the decomposition of organic matter in soils. Although the nitrate source is unknown, such occurrences may be attributed to septic systems or other sources as listed in Table 3 of Appendix B. After combining the contaminant risk for nitrates and nitrites with the natural susceptibility of the well, the overall vulnerability of the well to nitrate and nitrite contamination is **Very High**

Volatile Organic Chemicals

The contaminant risk for volatile organic chemicals is **Very High**. The risk is primarily attributed to the presence of a landfill, bulk fuel facilities and ADEC recognized contaminated sites located in Zone A (see Table 4 – Appendix B).

Recent sampling data for VOC's indicated the presence of total trihalomethanes (TTHM's). TTHM's are generally a byproduct of water treatment and are not indicative of source water conditions. Risk points were not assigned due to the TTHM's not exceeding the MCL in the most recent sampling events for Fort Yukon (See Chart 7 – Contaminant Risks for Volatile Organic Chemicals in Appendix D).

Possible sources of VOC's include facilities with automobiles, residential areas, fuel tanks, and roads. See Table 4 in Appendix B for a complete listing.

After combining the contaminant risk for volatile organic chemicals with the natural susceptibility of the well, the overall vulnerability of the well to contamination is **Very High**

Heavy Metals, Cyanide and Other Inorganic Chemicals

The contaminant risk for heavy metals, cyanide and other inorganic chemicals is **Very High**. The risk is primarily attributed to the presence of lead and copper in recent sampling events and a landfill and an abandoned well located in Zone A (see Table 5 – Appendix B).

Based on review of recent sampling records for this public water system, high levels of copper and lead have been detected in recent sampling events and have exceeded their respective MCL's of 1.3 and 0.015 mg/L (see Chart 8 – Contaminant Risks for Heavy Metals, Cyanide, and Other Inorganic Chemicals in Appendix D).

The reported concentrations of copper and lead are likely attributable to the water

distribution/conveyance system and are not likely indicative of source water conditions. Risk points were retained due to the MCL being exceeded in recent sampling events. After combining the contaminant risk for heavy metals, cyanide and other inorganic chemicals with the natural susceptibility of the well, the overall vulnerability of the well to contamination is **Very High.**

Synthetic Organic Chemicals

The contaminant risk for synthetic organic chemicals is **Very High**. The risk is primarily attributed to the presence of a landfill in Zone A (see Table 6 – Appendix B).

No recent sampling data was available in ADEC records for the Fort Yukon (See Chart 11 – Contaminant Risks for Synthetic Organic Chemicals in Appendix D).

After combining the contaminant risk for synthetic organic chemicals with the natural susceptibility of the well, the overall vulnerability of the well to contamination is **Very High**

Other Organic Chemicals

The contaminant risk for other organic chemicals is **Very High**. The risk is primarily attributed to the presence of a landfill in Zone A (see Table 7 – Appendix B).

No recent sampling data was available in ADEC records for the Fort Yukon (See Chart 13 – Contaminant Risks for Other Organic Chemicals in Appendix D).

After combining the contaminant risk for other organic chemicals with the natural susceptibility of the well, the overall vulnerability of the well to contamination is **Very High**

Using the Source Water Assessment

This assessment of contaminant risks can be used as a foundation for local voluntary protection efforts as well as a basis for the continuous efforts on the part of the community of Fort Yukon to protect public health. It is anticipated that Source Water Assessments will be updated every five years to reflect any changes in the vulnerability and/or susceptibility of the drinking water source.

REFERENCES

- Alaska Department of Community and Economic Development (ADCED), 2003 [WWW document]. URL: <u>http://www.dced.state.ak.us/cbd/commdb/CF_COMDB.htm</u>
- Alaska Department of Environmental Conservation, Contaminated Sites Database, 2003 [WWW database], URL <u>http://www.state.ak.us/dec/dspar/csites/cs_search.htm</u>
- Alaska Department of Environmental Conservation, Leaking Underground Storage Tank Database, 2003 [WWW database], URL <u>http://www.dec.state.ak.us/spar/stp/ust/search/fac_search.asp</u>
- Freeze, R. A., and Cherry, J.A. 1979, Groundwater, Prentice-Hall, Englewood Cliffs, New Jersey
- Shannon & Wilson, 1992. Information from Geotechnical Studies, Proposed Sewage Lagoon, Fort Yukon, Alaska, by Shannon & Wilson, Inc. dated July 1992.
- United States Environmental Protection Agency (EPA), 2002 [WWW document]. URL <u>http://www.epa.gov/safewater/mcl.html</u>.

APPENDIX A

Drinking Water Protection Area Location Map (Map A)

APPENDIX B

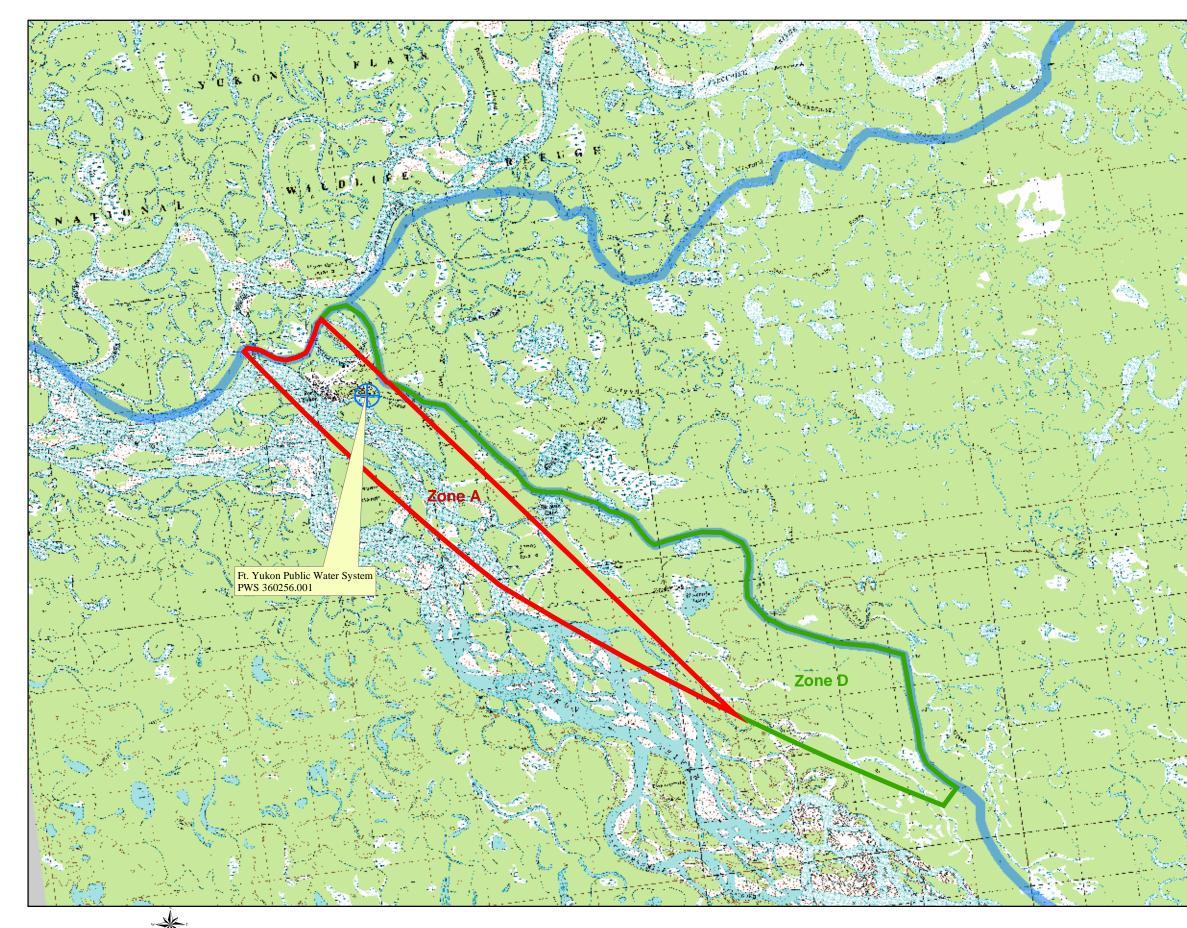
Contaminant Source Inventory and Risk Ranking (Tables 1-7)

APPENDIX C

Drinking Water Protection Area and Potential and Existing Contaminant Sources (Map C)

APPENDIX D

Vulnerability Analysis for Public Drinking Water Source (Charts 1-14)



| LE | <u>GEND</u> |
|------------|---|
| ÷ | Public Water System Well |
| <u>Hya</u> | rography/Physical |
| | Parcels |
| \sim | Stream |
| | Lake or Pond |
| \sim | Contours |
| \frown | Watershed Boundary |
| Tra | ansportation |
| _ | Primary Route (Class 1) |
| _ | Secondary Route (Class 2) |
| _ | — Road (Class 3) |
| | Road (Class 4) |
| | Road (Class 5, Four-wheel drive) |
| <u>G</u> r | oundwater Protection Zones |
| | Zone A Protection Area– Several Months Travel Time |
| | Zone D Protection Area– 10 Years Travel Time |
| | or watershed boundary |
| | |
| | |
| | |
| | |
| | |
| | |
| Data | a Sources: |
| | taminant Sources, Public Water System Wells, Contours |
| Ald | ska Department of Environmental Conservation (ADEC) |
| | other data: ed States Geological Survey (USGS) |
| Drir | king Water Protection Areas based on "Alaska Drinking |
| Wat | er Protection Program - Guidance Manual for Class A lic Water Systems" published by ADEC |
| | |
| | Corporation does not guarantee the accuracy or dity of the data provided. |
| van | ary of the data provided. |
| 01 - | |
| Inset | |
| and a | Area of Map 1 |
| ene | ie |
| 0 | |
| | Chalkyitsik |
| ंःह | ort Yukon |
| ÷ | |
| 3.5 | a start and a start |
| Birch | Creek |
| | AL MARKED AND AND AND AND AND AND AND AND AND AN |
| | and the second sec |
| | |
| | Circ |
| | Circ |
| | Circ * 3 |

Ft. Yukon Public Water System PWS 360256.001 **Appendix A Map A**

Contaminant Source Inventory for *Ft. Yukon Public Water System*

PWSID 360256.001

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Map Number | Comments |
|--|--------------------------|-----------|------|------------|---|
| Laundromats without dry cleaning | C22 | C22-01 | А | С | |
| Laundromats without dry cleaning | C22 | C22-02 | А | С | Washeteria |
| Motor /motor vehicle repair shops | C31 | C31-01 | А | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-02 | А | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-03 | А | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-04 | А | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-05 | А | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-06 | А | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-08 | А | С | |
| Domestic wastewater treatment plant disposal ponds/lagoons | D02 | D02-01 | А | С | Sewage Lagoon |
| Incinerators (municipal wastes) | D21 | D21-01 | А | С | Two composite soil samples collected found around |
| Landfills (municipal; Class III) | D51 | D51-01 | А | С | Landfill/Incinerator |
| Tanks, diesel (above ground) | T06 | T06-01 | А | С | Generator |
| Tanks, diesel (above ground) | T06 | T06-02 | А | С | Generator |
| Tanks, diesel (underground) | T08 | T08-01 | А | С | |
| Tanks, diesel (underground) | T08 | T08-02 | А | С | |
| Closed tanks, diesel (underground) | T09 | T09-01 | А | С | Not Listed |
| Tanks, gasoline (underground) | T12 | T12-01 | А | С | |
| Tanks, gasoline (underground) | T12 | T12-02 | А | С | |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-01 | А | С | Power Generation Facility |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-02 | А | С | Radio Transmitter |

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Map Number | Comments |
|---|--------------------------|-----------|------|------------|---|
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-03 | А | С | Store |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-04 | А | С | Telephone |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-05 | А | С | Church |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-06 | А | С | Church |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-07 | А | С | Church |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-08 | А | С | Community Hall |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-09 | А | С | National Guard |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-10 | А | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-11 | А | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-12 | А | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-13 | А | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-14 | А | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-15 | А | С | Police Station |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-16 | А | С | Post Office |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-17 | А | С | Satellite |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-18 | А | С | Satellite |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-19 | А | С | Satellite |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-20 | А | С | School |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-21 | А | С | School |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-22 | А | С | School |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-23 | А | С | Senior Center |
| Tanks, heating oil, nonresidential (underground) | T16 | T16-01 | А | С | |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-01 | А | С | Fort Yukon Federal Scout Armory. Petroleum contamination in soil. |

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Map Number | Comments |
|---|--------------------------|-----------|------|------------|---|
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-02 | А | С | FAA Facility Incinerator. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-03 | А | С | FAA Fort Yukon Utility Bldg. 601. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-04 | А | С | FAA Fort Yukon Shop Bldg. 300. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-05 | А | С | FAA Fort Yukon H Marker Fac. Reckey: 1992310928405. Status: Active. Soil samples indicated contamination as elevated levels of PAHs. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-06 | А | С | Fort Yukon LRRS LUST - (.26) (SS06). Reckey: 199131X024803. Status: Closed. 6000 gallon Mogas tank was removed. Contamination was detected via EPA method 8100 EPH at 156 ppm. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-07 | А | С | Fort Yukon LRRS -White Alice (OT05). Reckey: 198931X902528. Status: Closed. Waste oils which may have been mixed with fuel, chlorinated solvents, PCBs, and pesticides were reportedly applied to facility roads for dust control. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-08 | А | С | Fort Yukon LRRS -Waste Accum (SS01). Reckey: 198931X102526. Status: Closed. POL contaminated soils. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-09 | А | С | Fort Yukon LRRS -Power Plant (SS03). Reckey: 198931X102527. Status: Active. Pipeline and 10,000 gallon tank also suspected as source of extensive POL soil (10,000 - 25,000 mg/Kg) and groundwater contamination (120 mg/L). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-10 | А | С | Fort Yukon LRRS -Road Oiling (OT04). Reckey: 198931X902527. Status: Closed. Contaminants of concern include waste oil, fuel, chlorinated solvents, PCBs, and pesticides(DDT). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-11 | А | С | Alaska Commercial Company - Marina. Reckey: 1994310132602. Status: Closed. Approximately 175 cubic yards of diesel contaminated soil with maximum concentration of 2200 ppm. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-12 | А | С | City of Fort Yukon Water Supply. Reckey: 1982310115301. Status: Inactive. 1974 diesel spill estimated at 2500 gallons contaminated infiltration gallery. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-13 | А | С | City of Fort Yukon Water Supply. Reckey: 1982310115301. Status: Inactive. 1974 diesel spill estimated at 2500 gallons contaminated infiltration gallery. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-14 | А | С | Fort Yukon LRRS -Waste Accum (SS01). Reckey: 198931X102526. Status: Closed. POL contaminated soils. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-15 | А | С | Fort Yukon LRRS -Power Plant (SS03). Reckey: 198931X102527. Status: Active. Pipeline and 10,000 gallon tank also suspected as source of extensive POL soil (10,000 - 25,000 mg/Kg) and groundwater contamination (120 mg/L). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-16 | А | С | Fort Yukon LRRS (All Sites) |

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Map Number | Comments |
|---|--------------------------|-----------|------|------------|---|
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-17 | А | С | Fort Yukon LRRS -Road Oiling (OT04). Reckey: 198931X902527. Status: Closed. Contaminants of concern include waste oil, fuel, chlorinated solvents, PCBs, and pesticides(DDT). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-18 | А | С | Fort Yukon LRRS -Landfill #1 (LF02). Reckey: 198931X902529. Status: Closed. 2 acre landfill may contain paints, lead, oils, and other wastes. Subsequent investigations established background concentrations of lead in both soils and groundwater. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-19 | А | С | FAA Fort Yukon VORTAC. Reckey: 1991310120101. Status: Active. Abandoned 1100 gallon diesel tank and associated contaminated soil. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-20 | А | С | Fort Yukon LRRS LUST - (.26) (SS06). Reckey: 199131X024803. Status: Closed. 6000 gallon Mogas tank was removed. Contamination was detected via EPA method 8100 EPH at 156 ppm. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-21 | А | С | FAA Fort Yukon Quarters Facility. Reckey: 1992310128401. Status: Active. Bld 300 contamination (lead & DRPH) of floor drain and (PAHs) from drum storage area and stained soils. Bld 601 DRO, GRO, TPH, GRPH, DRPH, BTEX and PAHs found in soil samples. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-22 | А | С | Alaska Village In. Old Warehouse. Reckey: 1994310132601. Status: Inactive. Diesel and possibly solvent-contaminated soils at Marina and Old Warehouse revealed in SA1 and SA2. Extent of contamination unknown at both, but appears limited. |
| Open Leaking Underground Fuel Storage Tank (LUST) Sites | U07 | U07-01 | А | С | |
| Open Leaking Underground Fuel Storage Tank (LUST) Sites | U07 | U07-02 | А | С | |
| Closed Leaking Underground Fuel Storage Tank (LUST) Sites | U08 | U08-01 | А | С | On 9/5/91 a 6000 gal. Mogas tank was removed. Con |
| Closed Leaking Underground Fuel Storage Tank (LUST) Sites | U08 | U08-02 | А | С | Two 3,000-gal. jet fuel USTs floated to surface i |
| Abandoned wells | W01 | W01-01 | А | С | |
| Water supply wells | W09 | W09-01 | А | С | |
| Cemeteries | X01 | X01-01 | А | С | Cemetery |
| Cemeteries | X01 | X01-02 | А | С | Cemetery |
| Cemeteries | X01 | X01-03 | А | С | |
| Municipal or city parks (with green areas) | X04 | X04-01 | А | С | Park |
| Petroleum product bulk station/terminals | X11 | X01-04 | А | С | |
| | | | | | |

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Map Number | Comments |
|---|--------------------------|-----------|------|------------|-----------------------------------|
| Petroleum product bulk station/terminals | X11 | X11-01 | А | С | Fuel Storage Tanks (>500gal) |
| Airports | X14 | X14-01 | А | С | FORT YUKON MUNICIPAL |
| Airports | X14 | X14-02 | А | С | Airport |
| Boat yards and marinas | X15 | X15-01 | А | С | Harbor/Dock/Port |
| Highways and roads, paved (cement or asphalt) | X20 | X20-01 | А | С | Assume 1-20 roads in Zone A |
| Electric power generation (fossil fuels) | X36 | X36-01 | А | С | Power Generation Facility |
| Electric power generation (fossil fuels) | X36 | X36-02 | А | С | |
| Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes) | X40 | X40-02 | А | С | |
| Motor /motor vehicle repair shops | C31 | C31-07 | D | С | Service/Maintenance Shop |
| Landfills (municipal; Class III) | D51 | D51-01 | D | С | Ft. Yukon AFS White Alice Station |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-24 | D | С | Hospital/Clinic/ER |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-25 | D | С | Radio Transmitter |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-26 | D | С | Store |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-27 | D | С | Teachers Quarters |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-28 | D | С | School |
| Highways and roads, paved (cement or asphalt) | X20 | X20-02 | D | С | Assume 1-20 roads in Zone D |
| Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes) | X40 | X40-01 | D | С | Hospital/Clinic/ER |

Contaminant Source Inventory and Risk Ranking for

Ft. Yukon Public Water System Sources of Bacteria and Viruses

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|---|--------------------------|-----------|------|------------------------------|---------------|---|
| Laundromats without dry cleaning | C22 | C22-01 | А | Low | С | |
| Laundromats without dry cleaning | C22 | C22-02 | А | Low | С | Washeteria |
| Domestic wastewater treatment plant disposal ponds/lagoons | D02 | D02-01 | А | High | С | Sewage Lagoon |
| Incinerators (municipal wastes) | D21 | D21-01 | А | Medium | С | Two composite soil samples collected found around |
| Landfills (municipal; Class III) | D51 | D51-01 | А | High | С | Landfill/Incinerator |
| Closed Leaking Underground Fuel Storage Tank (LUST) Sites | U08 | U08-01 | А | Low | С | On 9/5/91 a 6000 gal. Mogas tank was removed. Con |
| Closed Leaking Underground Fuel Storage Tank (LUST) Sites | U08 | U08-02 | А | Low | С | Two 3,000-gal. jet fuel USTs floated to surface i |
| Abandoned wells | W01 | W01-01 | А | Medium | С | |
| Municipal or city parks (with green areas) | X04 | X04-01 | А | Medium | С | Park |
| Highways and roads, paved (cement or asphalt) | X20 | X20-01 | А | Low | С | Assume 1-20 roads in Zone A |
| Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes) | X40 | X40-02 | А | Medium | С | |

Contaminant Source Inventory and Risk Ranking for

PWSID 360256.001

Ft. Yukon Public Water System Sources of Nitrates/Nitrites

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|---|--------------------------|-----------|------|------------------------------|---------------|---|
| Laundromats without dry cleaning | C22 | C22-01 | А | Low | С | |
| Laundromats without dry cleaning | C22 | C22-02 | А | Low | С | Washeteria |
| Domestic wastewater treatment plant disposal ponds/lagoons | D02 | D02-01 | А | High | С | Sewage Lagoon |
| Incinerators (municipal wastes) | D21 | D21-01 | А | Low | С | Two composite soil samples collected found around |
| Landfills (municipal; Class III) | D51 | D51-01 | А | Very High | С | Landfill/Incinerator |
| Closed Leaking Underground Fuel Storage Tank (LUST) Sites | U08 | U08-01 | А | Low | С | On 9/5/91 a 6000 gal. Mogas tank was removed. Con |
| Closed Leaking Underground Fuel Storage Tank (LUST) Sites | U08 | U08-02 | А | Low | С | Two 3,000-gal. jet fuel USTs floated to surface i |
| Abandoned wells | W01 | W01-01 | А | High | С | |
| Cemeteries | X01 | X01-01 | А | Medium | С | Cemetery |
| Cemeteries | X01 | X01-02 | А | Medium | С | Cemetery |
| Cemeteries | X01 | X01-03 | А | Medium | С | |
| Municipal or city parks (with green areas) | X04 | X04-01 | А | Medium | С | Park |
| Airports | X14 | X14-01 | А | Low | С | FORT YUKON MUNICIPAL |
| Airports | X14 | X14-02 | А | Low | С | Airport |
| Highways and roads, paved (cement or asphalt) | X20 | X20-01 | А | Low | С | Assume 1-20 roads in Zone A |
| Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes) | X40 | X40-02 | А | Low | С | |
| Landfills (municipal; Class III) | D51 | D51-01 | D | Very High | С | Ft. Yukon AFS White Alice Station |

Contaminant Source Inventory and Risk Ranking for

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|--|--------------------------|-----------|------|------------------------------|---------------|---|
| Laundromats without dry cleaning | C22 | C22-01 | А | Low | С | |
| Laundromats without dry cleaning | C22 | C22-02 | А | Low | С | Washeteria |
| Motor /motor vehicle repair shops | C31 | C31-01 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-02 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-03 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-04 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-05 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-06 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-08 | А | Medium | С | |
| Domestic wastewater treatment plant disposal ponds/lagoons | D02 | D02-01 | А | Low | С | Sewage Lagoon |
| Incinerators (municipal wastes) | D21 | D21-01 | А | Low | С | Two composite soil samples collected found around |
| Landfills (municipal; Class III) | D51 | D51-01 | А | High | С | Landfill/Incinerator |
| Tanks, diesel (above ground) | T06 | T06-01 | А | Medium | С | Generator |
| Tanks, diesel (above ground) | T06 | T06-02 | А | Medium | С | Generator |
| Tanks, diesel (underground) | T08 | T08-01 | А | High | С | |
| Tanks, diesel (underground) | T08 | T08-02 | А | High | С | |
| Closed tanks, diesel (underground) | T09 | T09-01 | А | Medium | С | Not Listed |
| Tanks, gasoline (underground) | T12 | T12-01 | А | High | С | |
| Tanks, gasoline (underground) | T12 | T12-02 | А | High | С | |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-01 | А | Low | С | Power Generation Facility |

Contaminant Source Inventory and Risk Ranking for

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|--|--------------------------|-----------|------|------------------------------|---------------|-------------------|
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-02 | А | Low | С | Radio Transmitter |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-03 | А | Low | С | Store |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-04 | А | Low | С | Telephone |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-05 | А | Low | С | Church |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-06 | А | Low | С | Church |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-07 | А | Low | С | Church |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-08 | А | Low | С | Community Hall |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-09 | А | Low | С | National Guard |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-10 | А | Low | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-11 | А | Low | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-12 | А | Low | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-13 | А | Low | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-14 | А | Low | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-15 | А | Low | С | Police Station |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-16 | А | Low | С | Post Office |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-17 | А | Low | С | Satellite |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-18 | А | Low | С | Satellite |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-19 | А | Low | С | Satellite |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-20 | А | Low | С | School |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-21 | А | Low | С | School |

Contaminant Source Inventory and Risk Ranking for

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|---|--------------------------|-----------|------|------------------------------|---------------|--|
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-22 | А | Low | С | School |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-23 | А | Low | С | Senior Center |
| Tanks, heating oil, nonresidential (underground) | T16 | T16-01 | А | Low | С | |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-01 | А | High | С | Fort Yukon Federal Scout Armory. Petroleum contamination in soil. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-02 | А | High | С | FAA Facility Incinerator. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-03 | А | High | С | FAA Fort Yukon Utility Bldg. 601. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-04 | А | High | С | FAA Fort Yukon Shop Bldg. 300. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-05 | А | High | С | FAA Fort Yukon H Marker Fac. Reckey: 1992310928405. Status: Active. Soil samples indicated contamination as elevated levels of PAHs. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-06 | А | High | С | Fort Yukon LRRS LUST - (.26) (SS06). Reckey: 199131X024803. Status: Closed. 6000 gallon Mogas tank was removed. Contamination was detected via EPA method 8100 EPH at 156 ppm. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-07 | А | High | С | Fort Yukon LRRS -White Alice (OT05). Reckey: 198931X902528. Status: Closed. Waste oils which may have been mixed with fuel, chlorinated solvents, PCBs, and pesticides were reportedly applied to facility roads for dust control. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-08 | А | High | С | Fort Yukon LRRS -Waste Accum (SS01). Reckey: 198931X102526. Status: Closed. POL contaminated soils. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-09 | А | High | С | Fort Yukon LRRS -Power Plant (SS03). Reckey: 198931X102527. Status: Active. Pipeline and 10,000 gallon tank also suspected as source of extensive POL soil (10,000 - 25,000 mg/Kg) and groundwater contamination (120 mg/L). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-10 | А | High | С | Fort Yukon LRRS -Road Oiling (OT04). Reckey: 198931X902527. Status: Closed. Contaminants of concern include waste oil, fuel, chlorinated solvents, PCBs, and pesticides(DDT). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-11 | А | High | С | Alaska Commercial Company - Marina. Reckey: 1994310132602. Status: Closed. Approximately 175 cubic yards of diesel contaminated soil with maximum concentration of 2200 ppm. |

Contaminant Source Inventory and Risk Ranking for

PWSID 360256.001

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|---|--------------------------|-----------|------|------------------------------|---------------|---|
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-12 | А | High | С | City of Fort Yukon Water Supply. Reckey: 1982310115301. Status: Inactive. 1974 diesel spill estimated at 2500 gallons contaminated infiltration gallery. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-13 | А | High | С | City of Fort Yukon Water Supply. Reckey: 1982310115301. Status: Inactive. 1974 diesel spill estimated at 2500 gallons contaminated infiltration gallery. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-14 | А | High | С | Fort Yukon LRRS -Waste Accum (SS01). Reckey: 198931X102526. Status: Closed. POL contaminated soils. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-15 | А | High | С | Fort Yukon LRRS -Power Plant (SS03). Reckey: 198931X102527. Status: Active. Pipeline and 10,000 gallon tank also suspected as source of extensive POL soil (10,000 - 25,000 mg/Kg) and groundwater contamination (120 mg/L). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-16 | А | High | С | Fort Yukon LRRS (All Sites) |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-17 | А | High | С | Fort Yukon LRRS -Road Oiling (OT04). Reckey: 198931X902527. Status: Closed. Contaminants of concern include waste oil, fuel, chlorinated solvents, PCBs, and pesticides(DDT). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-18 | А | High | С | Fort Yukon LRRS -Landfill #1 (LF02). Reckey: 198931X902529. Status: Closed. 2 acre landfill may contain paints, lead, oils, and other wastes. Subsequent investigations established background concentrations of lead in both soils and groundwater. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-19 | А | High | С | FAA Fort Yukon VORTAC. Reckey: 1991310120101. Status: Active. Abandoned 1100 gallon diesel tank and associated contaminated soil. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-20 | А | High | С | Fort Yukon LRRS LUST - (.26) (SS06). Reckey: 199131X024803. Status: Closed. 6000 gallon Mogas tank was removed. Contamination was detected via EPA method 8100 EPH at 156 ppm. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-21 | А | High | С | FAA Fort Yukon Quarters Facility. Reckey: 1992310128401. Status: Active. Bld 300 contamination (lead & DRPH) of floor drain and (PAHs) from drum storage area and stained soils. Bld 601 DRO, GRO, TPH, GRPH, DRPH, BTEX and PAHs found in soil samples. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-22 | A | High | С | Alaska Village In. Old Warehouse. Reckey: 1994310132601. Status: Inactive. Diesel and possibly solvent-contaminated soils at Marina and Old Warehouse revealed in SA1 and SA2. Extent of contamination unknown at both, but appears limited. |
| Open Leaking Underground Fuel Storage Tank (LUST) Sites | U07 | U07-01 | А | High | С | |

Contaminant Source Inventory and Risk Ranking for

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|--|--------------------------|-----------|------|------------------------------|---------------|---|
| Open Leaking Underground Fuel Storage Tank (LUST) Sites | U07 | U07-02 | А | High | С | |
| Closed Leaking Underground Fuel Storage Tank (LUST) Sites | U08 | U08-01 | А | High | С | On 9/5/91 a 6000 gal. Mogas tank was removed. Con |
| Closed Leaking Underground Fuel Storage Tank (LUST) Sites | U08 | U08-02 | А | High | С | Two 3,000-gal. jet fuel USTs floated to surface i |
| Abandoned wells | W01 | W01-01 | А | High | С | |
| Petroleum product bulk station/terminals | X11 | X01-04 | А | Very High | С | |
| Petroleum product bulk station/terminals | X11 | X11-01 | А | Very High | С | Fuel Storage Tanks (>500gal) |
| Airports | X14 | X14-01 | А | High | С | FORT YUKON MUNICIPAL |
| Airports | X14 | X14-02 | А | High | С | Airport |
| Boat yards and marinas | X15 | X15-01 | А | Low | С | Harbor/Dock/Port |
| Highways and roads, paved (cement or asphalt) | X20 | X20-01 | А | Low | С | Assume 1-20 roads in Zone A |
| Electric power generation (fossil fuels) | X36 | X36-01 | А | Medium | С | Power Generation Facility |
| Electric power generation (fossil fuels) | X36 | X36-02 | А | Medium | С | |
| Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes) | X40 | X40-02 | А | Low | С | |
| Landfills (municipal; Class III) | D51 | D51-01 | D | High | С | Ft. Yukon AFS White Alice Station |

Contaminant Source Inventory and Risk Ranking for

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|---|--------------------------|-----------|------|------------------------------|---------------|---|
| Motor /motor vehicle repair shops | C31 | C31-01 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-02 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-03 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-04 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-05 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-06 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-08 | А | Medium | С | |
| Domestic wastewater treatment plant disposal ponds/lagoons | D02 | D02-01 | А | Low | С | Sewage Lagoon |
| Incinerators (municipal wastes) | D21 | D21-01 | А | High | С | Two composite soil samples collected found around |
| Landfills (municipal; Class III) | D51 | D51-01 | А | High | С | Landfill/Incinerator |
| Tanks, gasoline (underground) | T12 | T12-01 | А | Medium | С | |
| Tanks, gasoline (underground) | T12 | T12-02 | А | Medium | С | |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-01 | А | Low | С | Power Generation Facility |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-02 | А | Low | С | Radio Transmitter |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-03 | А | Low | С | Store |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-04 | А | Low | С | Telephone |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-05 | А | Low | С | Church |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-06 | А | Low | С | Church |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-07 | А | Low | С | Church |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-08 | А | Low | С | Community Hall |

Contaminant Source Inventory and Risk Ranking for

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|---|--------------------------|-----------|------|------------------------------|---------------|---|
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-09 | А | Low | С | National Guard |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-10 | А | Low | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-11 | А | Low | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-12 | А | Low | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-13 | А | Low | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-14 | А | Low | С | Offices |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-15 | А | Low | С | Police Station |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-16 | А | Low | С | Post Office |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-17 | А | Low | С | Satellite |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-18 | А | Low | С | Satellite |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-19 | А | Low | С | Satellite |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-20 | А | Low | С | School |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-21 | А | Low | С | School |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-22 | А | Low | С | School |
| Tanks, heating oil, nonresidential (aboveground) | T14 | T14-23 | А | Low | С | Senior Center |
| Tanks, heating oil, nonresidential (underground) | T16 | T16-01 | А | Low | С | |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-01 | А | Low | С | Fort Yukon Federal Scout Armory. Petroleum contamination in soil. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-02 | А | Low | С | FAA Facility Incinerator. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-03 | А | Low | С | FAA Fort Yukon Utility Bldg. 601. |

Contaminant Source Inventory and Risk Ranking for

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|---|--------------------------|-----------|------|------------------------------|---------------|--|
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-04 | А | Low | С | FAA Fort Yukon Shop Bldg. 300. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-05 | А | Low | С | FAA Fort Yukon H Marker Fac. Reckey: 1992310928405. Status: Active. Soil samples indicated contamination as elevated levels of PAHs. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-06 | А | Low | С | Fort Yukon LRRS LUST - (.26) (SS06). Reckey: 199131X024803. Status: Closed. 6000 gallon Mogas tank was removed. Contamination was detected via EPA method 8100 EPH at 156 ppm. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-07 | А | Low | С | Fort Yukon LRRS -White Alice (OT05). Reckey: 198931X902528. Status: Closed. Waste oils which may have been mixed with fuel, chlorinated solvents, PCBs, and pesticides were reportedly applied to facility roads for dust control. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-08 | А | Low | С | Fort Yukon LRRS -Waste Accum (SS01). Reckey: 198931X102526. Status: Closed. POL contaminated soils. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-09 | А | Low | С | Fort Yukon LRRS -Power Plant (SS03). Reckey: 198931X102527. Status: Active. Pipeline and 10,000 gallon tank also suspected as source of extensive POL soil (10,000 - 25,000 mg/Kg) and groundwater contamination (120 mg/L). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-10 | А | Low | С | Fort Yukon LRRS -Road Oiling (OT04). Reckey: 198931X902527. Status: Closed. Contaminants of concern include waste oil, fuel, chlorinated solvents, PCBs, and pesticides(DDT). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-11 | А | Low | С | Alaska Commercial Company - Marina. Reckey: 1994310132602. Status: Closed. Approximately 175 cubic yards of diesel contaminated soil with maximum concentration of 2200 ppm. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-12 | А | Low | С | City of Fort Yukon Water Supply. Reckey: 1982310115301. Status: Inactive. 1974 diesel spill estimated at 2500 gallons contaminated infiltration gallery. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-13 | А | Low | С | City of Fort Yukon Water Supply. Reckey: 1982310115301. Status: Inactive. 1974 diesel spill estimated at 2500 gallons contaminated infiltration gallery. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-14 | А | Low | С | Fort Yukon LRRS -Waste Accum (SS01). Reckey: 198931X102526. Status: Closed. POL contaminated soils. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-15 | А | Low | С | Fort Yukon LRRS -Power Plant (SS03). Reckey: 198931X102527. Status: Active. Pipeline and 10,000 gallon tank also suspected as source of extensive POL soil (10,000 - 25,000 mg/Kg) and groundwater contamination (120 mg/L). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-16 | А | Low | С | Fort Yukon LRRS (All Sites) |

Contaminant Source Inventory and Risk Ranking for

Ft. Yukon Public Water System

Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|--|--------------------------|-----------|------|------------------------------|---------------|---|
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-17 | А | Low | С | Fort Yukon LRRS -Road Oiling (OT04). Reckey: 198931X902527. Status: Closed. Contaminants of concern include waste oil, fuel, chlorinated solvents, PCBs, and pesticides(DDT). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-18 | А | Low | С | Fort Yukon LRRS -Landfill #1 (LF02). Reckey: 198931X902529. Status: Closed. 2 acre landfill may contain paints, lead, oils, and other wastes. Subsequent investigations established background concentrations of lead in both soils and groundwater. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-19 | А | Low | С | FAA Fort Yukon VORTAC. Reckey: 1991310120101. Status: Active. Abandoned 1100 gallon diesel tank and associated contaminated soil. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-20 | А | Low | С | Fort Yukon LRRS LUST - (.26) (SS06). Reckey: 199131X024803. Status: Closed. 6000 gallon Mogas tank was removed. Contamination was detected via EPA method 8100 EPH at 156 ppm. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-21 | А | Low | С | FAA Fort Yukon Quarters Facility. Reckey: 1992310128401. Status: Active. Bld 300 contamination (lead & DRPH) of floor drain and (PAHs) from drum storage area and stained soils. Bld 601 DRO, GRO, TPH, GRPH, DRPH, BTEX and PAHs found in soil samples. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-22 | А | Low | С | Alaska Village In. Old Warehouse. Reckey: 1994310132601. Status: Inactive. Diesel and possibly solvent-contaminated soils at Marina and Old Warehouse revealed in SA1 and SA2. Extent of contamination unknown at both, but appears limited. |
| Closed Leaking Underground Fuel Storage Tank (LUST) Sites | U08 | U08-01 | А | Low | С | On 9/5/91 a 6000 gal. Mogas tank was removed. Con |
| Closed Leaking Underground Fuel Storage Tank (LUST) Sites | U08 | U08-02 | А | Low | С | Two 3,000-gal. jet fuel USTs floated to surface i |
| Abandoned wells | W01 | W01-01 | А | Very High | С | |
| Cemeteries | X01 | X01-01 | А | Low | С | Cemetery |
| Cemeteries | X01 | X01-02 | А | Low | С | Cemetery |
| Cemeteries | X01 | X01-03 | А | Low | С | |
| Petroleum product bulk station/terminals | X11 | X01-04 | А | Low | С | |
| Municipal or city parks (with green areas) | X04 | X04-01 | А | Low | С | Park |

Contaminant Source Inventory and Risk Ranking for

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|---|--------------------------|-----------|------|------------------------------|---------------|-----------------------------------|
| Petroleum product bulk station/terminals | X11 | X11-01 | А | Low | С | Fuel Storage Tanks (>500gal) |
| Airports | X14 | X14-01 | А | Low | С | FORT YUKON MUNICIPAL |
| Airports | X14 | X14-02 | А | Low | С | Airport |
| Boat yards and marinas | X15 | X15-01 | А | Low | С | Harbor/Dock/Port |
| Highways and roads, paved (cement or asphalt) | X20 | X20-01 | А | Low | С | Assume 1-20 roads in Zone A |
| Electric power generation (fossil fuels) | X36 | X36-01 | А | Medium | С | Power Generation Facility |
| Electric power generation (fossil fuels) | X36 | X36-02 | А | Medium | С | |
| Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes) | X40 | X40-02 | А | Low | С | |
| Landfills (municipal; Class III) | D51 | D51-01 | D | High | С | Ft. Yukon AFS White Alice Station |

Contaminant Source Inventory and Risk Ranking for

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|--|--------------------------|-----------|------|------------------------------|---------------|--|
| Domestic wastewater treatment plant disposal ponds/lagoons | D02 | D02-01 | А | Low | С | Sewage Lagoon |
| Incinerators (municipal wastes) | D21 | D21-01 | А | Medium | С | Two composite soil samples collected found around |
| Landfills (municipal; Class III) | D51 | D51-01 | А | Very High | С | Landfill/Incinerator |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-01 | А | Low | С | Fort Yukon Federal Scout Armory. Petroleum contamination in soil. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-02 | А | Low | С | FAA Facility Incinerator. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-03 | А | Low | С | FAA Fort Yukon Utility Bldg. 601. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-04 | А | Low | С | FAA Fort Yukon Shop Bldg. 300. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-05 | А | Low | С | FAA Fort Yukon H Marker Fac. Reckey: 1992310928405. Status: Active. Soil samples indicated contamination as elevated levels of PAHs. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-06 | А | Low | С | Fort Yukon LRRS LUST - (.26) (SS06). Reckey: 199131X024803. Status: Closed. 6000 gallon Mogas tank was removed. Contamination was detected via EPA method 8100 EPH at 156 ppm. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-07 | А | Low | С | Fort Yukon LRRS -White Alice (OT05). Reckey: 198931X902528. Status: Closed. Waste oils which may have been mixed with fuel, chlorinated solvents, PCBs, and pesticides were reportedly applied to facility roads for dust control. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-08 | А | Low | С | Fort Yukon LRRS -Waste Accum (SS01). Reckey: 198931X102526. Status: Closed. POL contaminated soils. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-09 | А | Low | С | Fort Yukon LRRS -Power Plant (SS03). Reckey: 198931X102527. Status: Active. Pipeline and 10,000 gallon tank also suspected as source of extensive POL soil (10,000 - 25,000 mg/Kg) and groundwater contamination (120 mg/L). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-10 | А | Low | С | Fort Yukon LRRS -Road Oiling (OT04). Reckey: 198931X902527. Status: Closed. Contaminants of concern include waste oil, fuel, chlorinated solvents, PCBs, and pesticides(DDT). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-11 | А | Low | С | Alaska Commercial Company - Marina. Reckey: 1994310132602. Status: Closed. Approximately 175 cubic yards of diesel contaminated soil with maximum concentration of 2200 ppm. |

Contaminant Source Inventory and Risk Ranking for

PWSID 360256.001

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|--|--------------------------|-----------|------|------------------------------|---------------|---|
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-12 | А | Low | С | City of Fort Yukon Water Supply. Reckey: 1982310115301. Status: Inactive. 1974 diesel spill estimated at 2500 gallons contaminated infiltration gallery. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-13 | А | Low | С | City of Fort Yukon Water Supply. Reckey: 1982310115301. Status: Inactive. 1974 diesel spill estimated at 2500 gallons contaminated infiltration gallery. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-14 | А | Low | С | Fort Yukon LRRS -Waste Accum (SS01). Reckey: 198931X102526. Status: Closed. POL contaminated soils. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-15 | А | Low | С | Fort Yukon LRRS -Power Plant (SS03). Reckey: 198931X102527. Status: Active. Pipeline and 10,000 gallon tank also suspected as source of extensive POL soil (10,000 - 25,000 mg/Kg) and groundwater contamination (120 mg/L). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-16 | А | Low | С | Fort Yukon LRRS (All Sites) |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-17 | А | Low | С | Fort Yukon LRRS -Road Oiling (OT04). Reckey: 198931X902527. Status: Closed. Contaminants of concern include waste oil, fuel, chlorinated solvents, PCBs, and pesticides(DDT). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-18 | А | Low | С | Fort Yukon LRRS -Landfill #1 (LF02). Reckey: 198931X902529. Status: Closed. 2 acre landfill may contain paints, lead, oils, and other wastes. Subsequent investigations established background concentrations of lead in both soils and groundwater. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-19 | А | Low | С | FAA Fort Yukon VORTAC. Reckey: 1991310120101. Status: Active. Abandoned 1100 gallon diesel tank and associated contaminated soil. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-20 | А | Low | С | Fort Yukon LRRS LUST - (.26) (SS06). Reckey: 199131X024803. Status: Closed. 6000 gallon Mogas tank was removed. Contamination was detected via EPA method 8100 EPH at 156 ppm. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-21 | А | Low | С | FAA Fort Yukon Quarters Facility. Reckey: 1992310128401. Status: Active. Bld 300 contamination (lead & DRPH) of floor drain and (PAHs) from drum storage area and stained soils. Bld 601 DRO, GRO, TPH, GRPH, DRPH, BTEX and PAHs found in soil samples. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-22 | А | Low | С | Alaska Village In. Old Warehouse. Reckey: 1994310132601. Status: Inactive. Diesel and possibly solvent-contaminated soils at Marina and Old Warehouse revealed in SA1 and SA2. Extent of contamination unknown at both, but appears limited. |
| Open Leaking Underground Fuel Storage Tank (LUST) Sites | U07 | U07-01 | А | Low | С | |

Contaminant Source Inventory and Risk Ranking for

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|--|--------------------------|-----------|------|------------------------------|---------------|---|
| Open Leaking Underground Fuel Storage Tank (LUST) Sites | U07 | U07-02 | А | Low | С | |
| Closed Leaking Underground Fuel Storage Tank (LUST) Sites | U08 | U08-01 | А | Low | С | On 9/5/91 a 6000 gal. Mogas tank was removed. Con |
| Closed Leaking Underground Fuel Storage Tank (LUST) Sites | U08 | U08-02 | А | Low | С | Two 3,000-gal. jet fuel USTs floated to surface i |
| Abandoned wells | W01 | W01-01 | А | High | С | |
| Cemeteries | X01 | X01-01 | А | Medium | С | Cemetery |
| Cemeteries | X01 | X01-02 | А | Medium | С | Cemetery |
| Cemeteries | X01 | X01-03 | А | Medium | С | |
| Petroleum product bulk station/terminals | X11 | X01-04 | А | Low | С | |
| Municipal or city parks (with green areas) | X04 | X04-01 | А | Low | С | Park |
| Petroleum product bulk station/terminals | X11 | X11-01 | А | Low | С | Fuel Storage Tanks (>500gal) |
| Airports | X14 | X14-01 | А | Medium | С | FORT YUKON MUNICIPAL |
| Airports | X14 | X14-02 | А | Medium | С | Airport |
| Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes) | X40 | X40-02 | А | Low | С | |
| Landfills (municipal; Class III) | D51 | D51-01 | D | Very High | С | Ft. Yukon AFS White Alice Station |

Contaminant Source Inventory and Risk Ranking for

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|---|--------------------------|-----------|------|------------------------------|---------------|--|
| Motor /motor vehicle repair shops | C31 | C31-01 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-02 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-03 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-04 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-05 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-06 | А | Medium | С | Service/Maintenance Shop |
| Motor /motor vehicle repair shops | C31 | C31-08 | А | Medium | С | |
| Domestic wastewater treatment plant disposal ponds/lagoons | D02 | D02-01 | А | Low | С | Sewage Lagoon |
| Incinerators (municipal wastes) | D21 | D21-01 | А | Very High | С | Two composite soil samples collected found around |
| Landfills (municipal; Class III) | D51 | D51-01 | А | Very High | С | Landfill/Incinerator |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-01 | А | Low | С | Fort Yukon Federal Scout Armory. Petroleum contamination in soil. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-02 | А | Low | С | FAA Facility Incinerator. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-03 | А | Low | С | FAA Fort Yukon Utility Bldg. 601. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-04 | А | Low | С | FAA Fort Yukon Shop Bldg. 300. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-05 | А | Low | С | FAA Fort Yukon H Marker Fac. Reckey: 1992310928405. Status: Active. Soil samples indicated contamination as elevated levels of PAHs. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-06 | А | Low | С | Fort Yukon LRRS LUST - (.26) (SS06). Reckey: 199131X024803. Status: Closed. 6000 gallon Mogas tank was removed. Contamination was detected via EPA method 8100 EPH at 156 ppm. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-07 | А | Low | С | Fort Yukon LRRS -White Alice (OT05). Reckey: 198931X902528. Status: Closed. Waste oils which may have been mixed with fuel, chlorinated solvents, PCBs, and pesticides were reportedly applied to facility roads for dust control. |

Contaminant Source Inventory and Risk Ranking for

PWSID 360256.001

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|---|--------------------------|-----------|------|------------------------------|---------------|---|
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-08 | А | Low | С | Fort Yukon LRRS -Waste Accum (SS01). Reckey: 198931X102526. Status: Closed. POL contaminated soils. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-09 | А | Low | С | Fort Yukon LRRS -Power Plant (SS03). Reckey: 198931X102527. Status: Active. Pipeline and 10,000 gallon tank also suspected as source of extensive POL soil (10,000 - 25,000 mg/Kg) and groundwater contamination (120 mg/L). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-10 | А | Low | С | Fort Yukon LRRS -Road Oiling (OT04). Reckey: 198931X902527. Status: Closed. Contaminants of concern include waste oil, fuel, chlorinated solvents, PCBs, and pesticides(DDT). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-11 | А | Low | С | Alaska Commercial Company - Marina. Reckey: 1994310132602. Status: Closed. Approximately 175 cubic yards of diesel contaminated soil with maximum concentration of 2200 ppm. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-12 | А | Low | С | City of Fort Yukon Water Supply. Reckey: 1982310115301. Status: Inactive. 1974 diesel spill estimated at 2500 gallons contaminated infiltration gallery. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-13 | А | Low | С | City of Fort Yukon Water Supply. Reckey: 1982310115301. Status: Inactive. 1974 diesel spill estimated at 2500 gallons contaminated infiltration gallery. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-14 | А | Low | С | Fort Yukon LRRS -Waste Accum (SS01). Reckey: 198931X102526. Status: Closed. POL contaminated soils. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-15 | А | Low | С | Fort Yukon LRRS -Power Plant (SS03). Reckey: 198931X102527. Status: Active. Pipeline and 10,000 gallon tank also suspected as source of extensive POL soil (10,000 - 25,000 mg/Kg) and groundwater contamination (120 mg/L). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-16 | А | Low | С | Fort Yukon LRRS (All Sites) |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-17 | А | Low | С | Fort Yukon LRRS -Road Oiling (OT04). Reckey: 198931X902527. Status: Closed. Contaminants of concern include waste oil, fuel, chlorinated solvents, PCBs, and pesticides(DDT). |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-18 | А | Low | С | Fort Yukon LRRS -Landfill #1 (LF02). Reckey: 198931X902529. Status: Closed. 2 acre landfill may contain paints, lead, oils, and other wastes. Subsequent investigations established background concentrations of lead in both soils and groundwater. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-19 | А | Low | С | FAA Fort Yukon VORTAC. Reckey: 1991310120101. Status: Active. Abandoned 1100 gallon diesel tank and associated contaminated soil. |

Table 7 (continued)

Contaminant Source Inventory and Risk Ranking for

PWSID 360256.001

Ft. Yukon Public Water System Sources of Other Organic Chemicals

| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|--|--------------------------|-----------|------|------------------------------|---------------|---|
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-20 | А | Low | С | Fort Yukon LRRS LUST - (.26) (SS06). Reckey: 199131X024803. Status: Closed. 6000 gallon Mogas tank was removed. Contamination was detected via EPA method 8100 EPH at 156 ppm. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-21 | А | Low | С | FAA Fort Yukon Quarters Facility. Reckey: 1992310128401. Status: Active. Bld 300 contamination (lead & DRPH) of floor drain and (PAHs) from drum storage area and stained soils. Bld 601 DRO, GRO, TPH, GRPH, DRPH, BTEX and PAHs found in soil samples. |
| Contaminated sites, DEC recognized, non-Superfund, non-RCRA | U04 | U04-22 | А | Low | С | Alaska Village In. Old Warehouse. Reckey: 1994310132601. Status: Inactive. Diesel and possibly solvent-contaminated soils at Marina and Old Warehouse revealed in SA1 and SA2. Extent of contamination unknown at both, but appears limited. |
| Open Leaking Underground Fuel Storage Tank (LUST) Sites | U07 | U07-01 | А | Low | С | |
| Open Leaking Underground Fuel Storage Tank (LUST) Sites | U07 | U07-02 | А | Low | С | |
| Closed Leaking Underground Fuel Storage Tank (LUST) Sites | U08 | U08-01 | А | Low | С | On 9/5/91 a 6000 gal. Mogas tank was removed. Con |
| Closed Leaking Underground Fuel Storage Tank (LUST) Sites | U08 | U08-02 | А | Low | С | Two 3,000-gal. jet fuel USTs floated to surface i |
| Abandoned wells | W01 | W01-01 | А | High | С | |
| Petroleum product bulk station/terminals | X11 | X01-04 | А | High | С | |
| Petroleum product bulk station/terminals | X11 | X11-01 | А | High | С | Fuel Storage Tanks (>500gal) |
| Airports | X14 | X14-01 | А | Medium | С | FORT YUKON MUNICIPAL |
| Airports | X14 | X14-02 | А | Medium | С | Airport |
| Boat yards and marinas | X15 | X15-01 | А | Low | С | Harbor/Dock/Port |
| Highways and roads, paved (cement or asphalt) | X20 | X20-01 | А | Low | С | Assume 1-20 roads in Zone A |
| Electric power generation (fossil fuels) | X36 | X36-01 | А | High | С | Power Generation Facility |
| Electric power generation (fossil fuels) | X36 | X36-02 | А | High | С | |

Table 7 (continued)

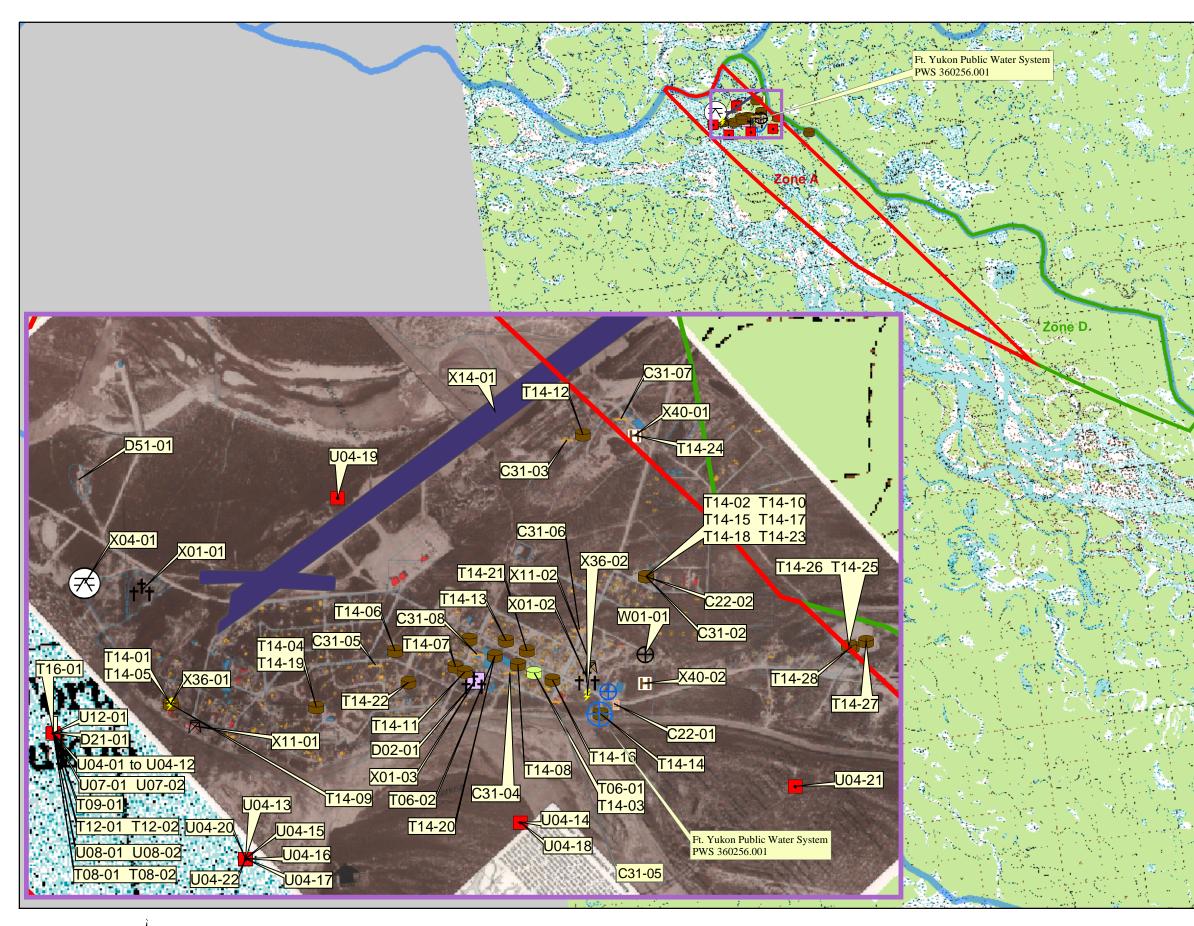
Contaminant Source Inventory and Risk Ranking for

PWSID 360256.001

Ft. Yukon Public Water System Sources of Other Organic Chemicals

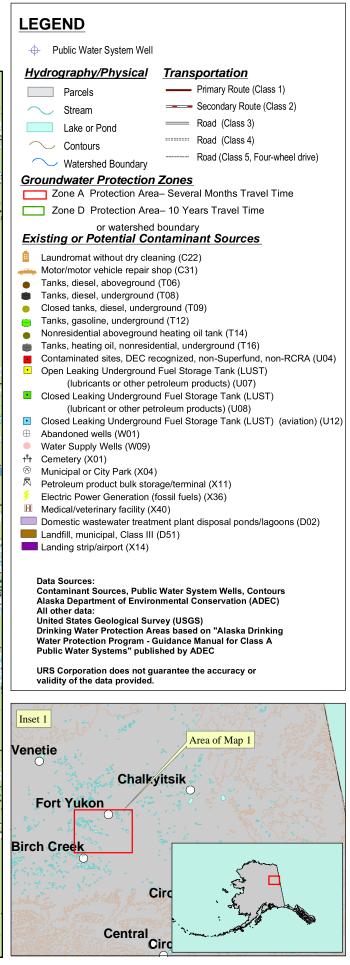
| Contaminant Source Type | Contaminant Source ID | CS ID tag | Zone | Risk Ranking for Analysis | Map Number | Comments |
|----------------------------------|--------------------------|-----------|------|------------------------------|---------------|-----------------------------------|
| Landfills (municipal; Class III) | D51 | D51-01 | D | Very High | С | Ft. Yukon AFS White Alice Station |

Public Water Well System for PWS #360256.001 Ft. Yukon Public Water System Showing Sources of Potential and Existing Contamination



12

16 Miles



Ft. Yukon Public Water System PWS 360256.001 Appendix C Map C

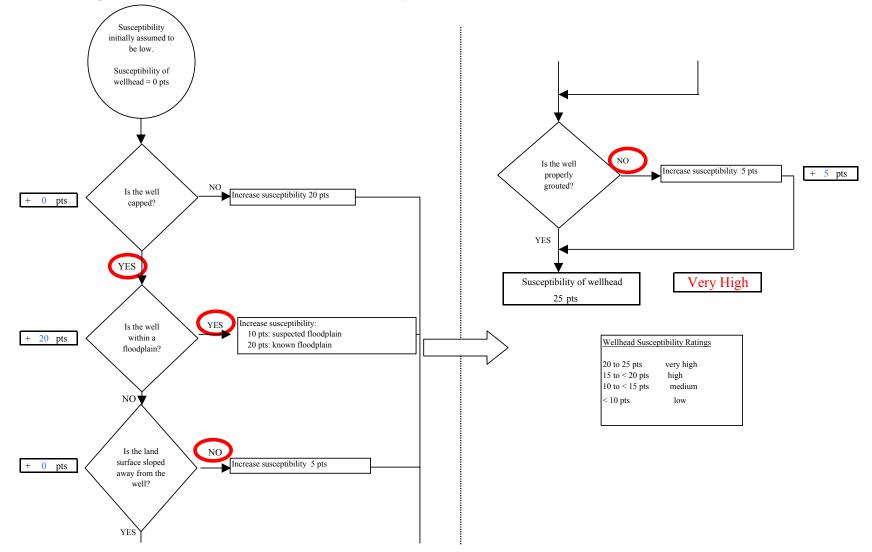


Chart 1. Susceptibility of the wellhead - Ft. Yukon Public Water System (PWS No. 360256.001)

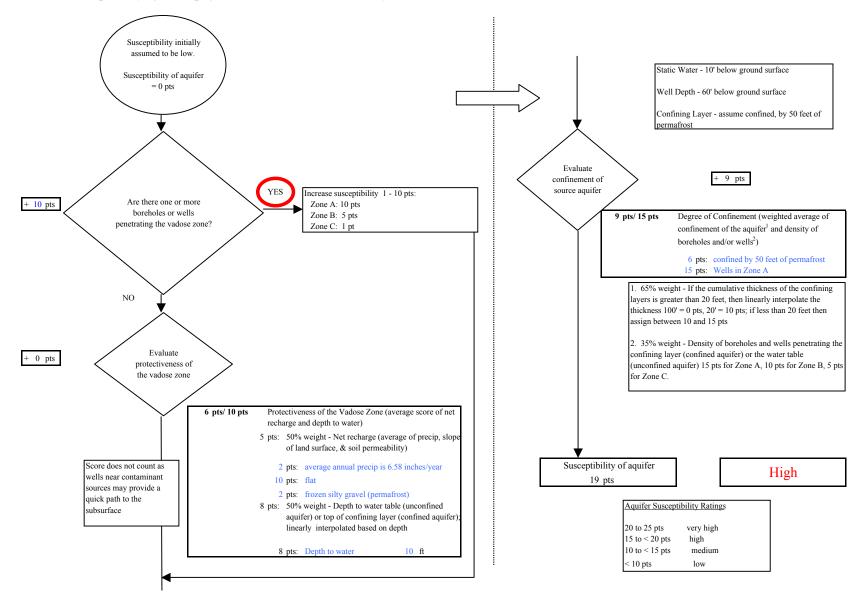


Chart 2. Susceptibility of the aquifer Ft. Yukon Public Water System (PWS No. 360256.001)

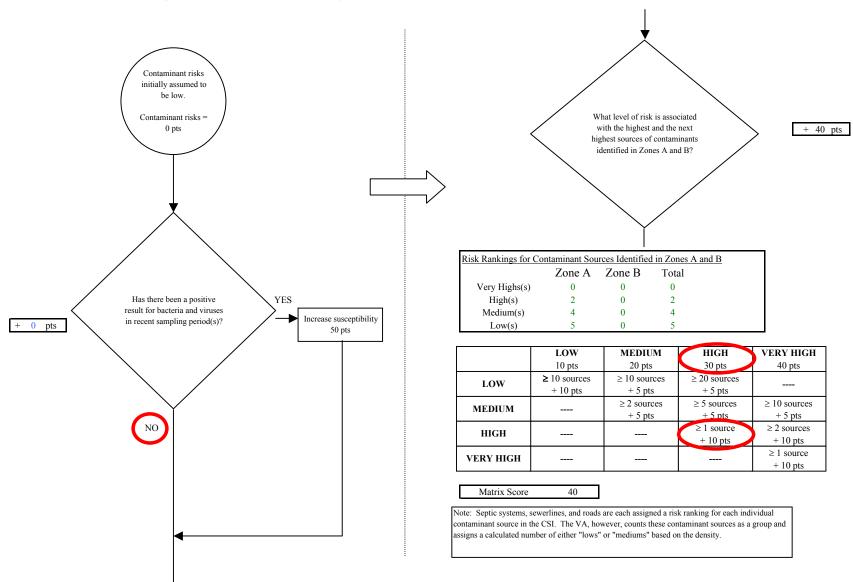


Chart 3. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Bacteria & Viruses

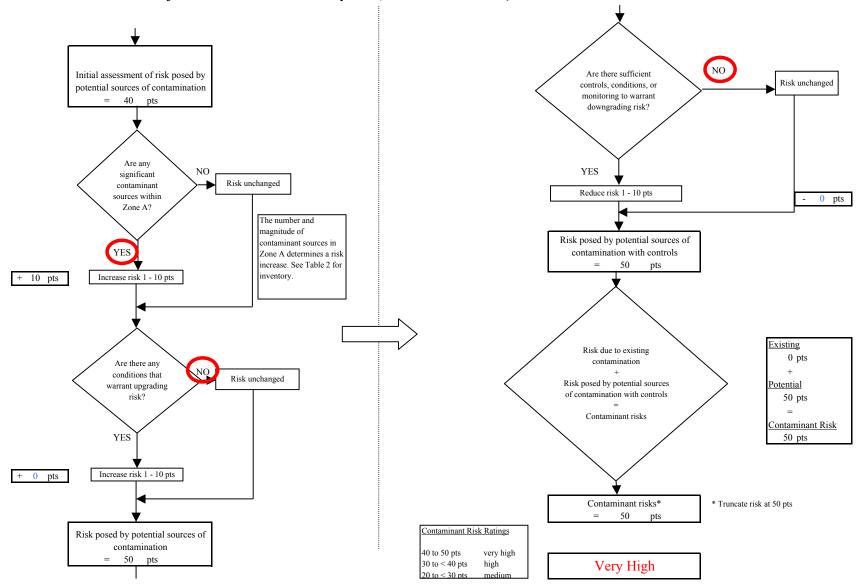


Chart 3. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Bacteria & Viruses

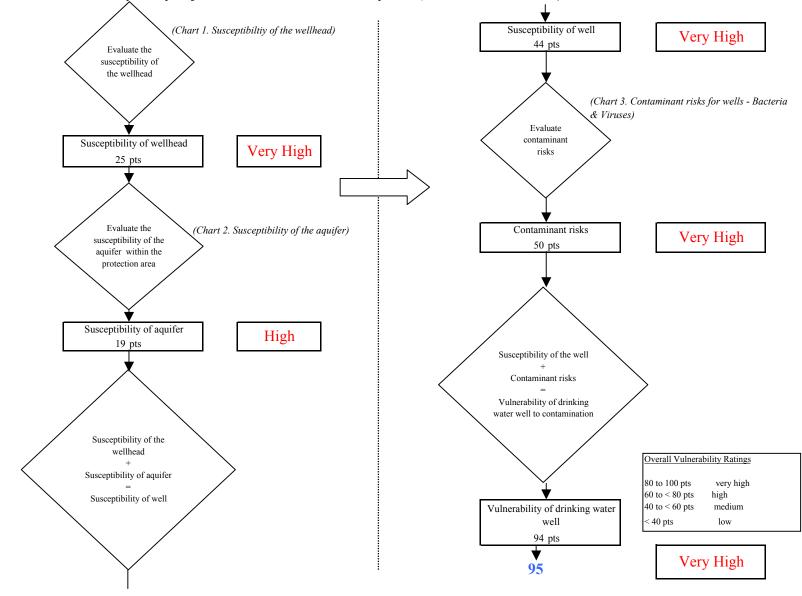


Chart 4. Vulnerability analysis for Ft. Yukon Public Water System (PWS No. 360256.001) - Bacteria & Viruses

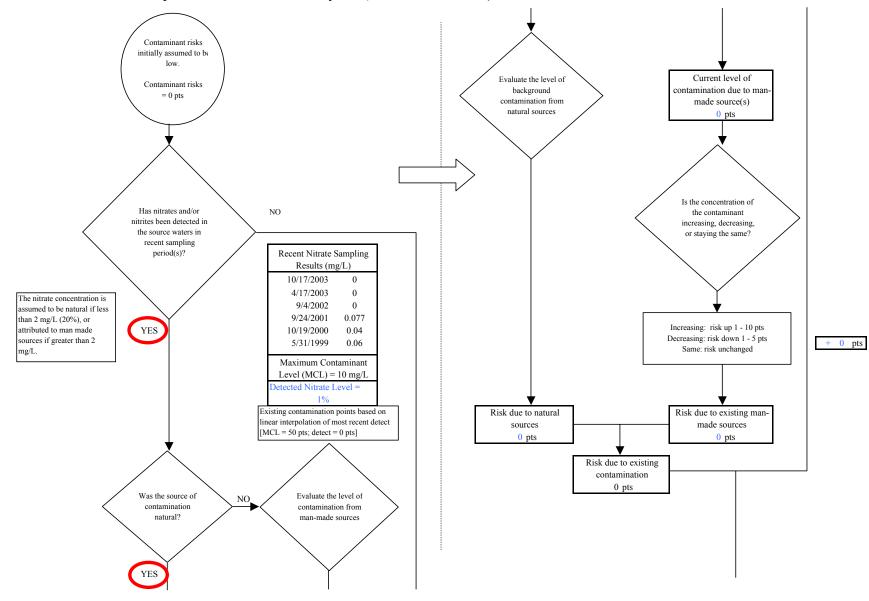


Chart 5. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Nitrates and Nitrites

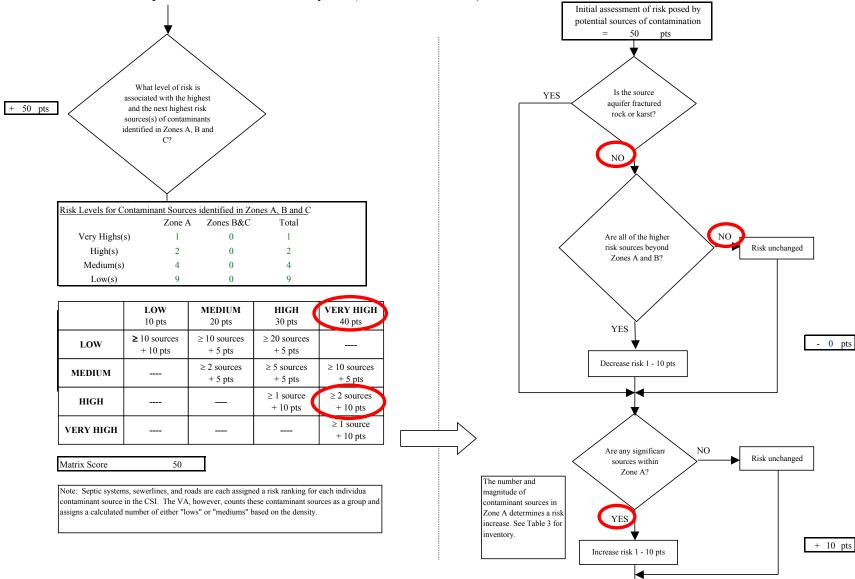


Chart 5. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Nitrates and Nitrites

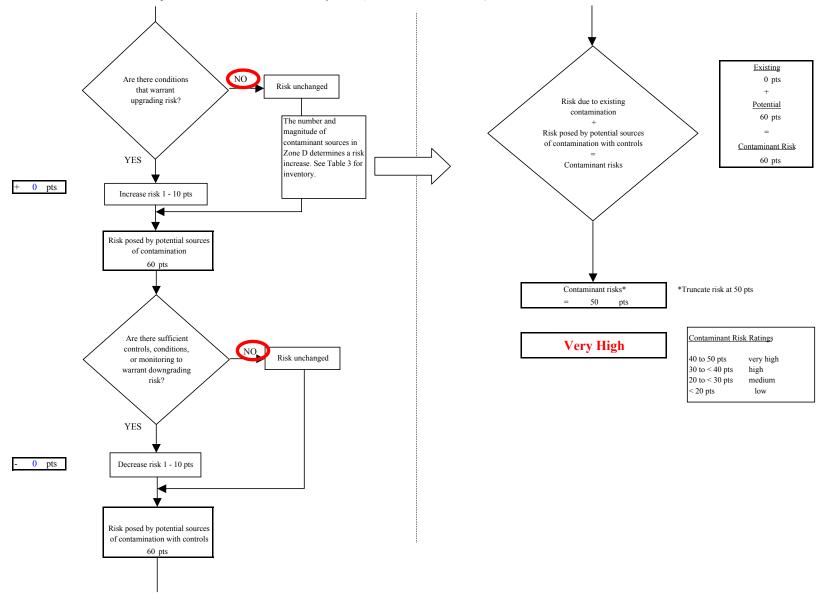


Chart 5. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Nitrates and Nitrites

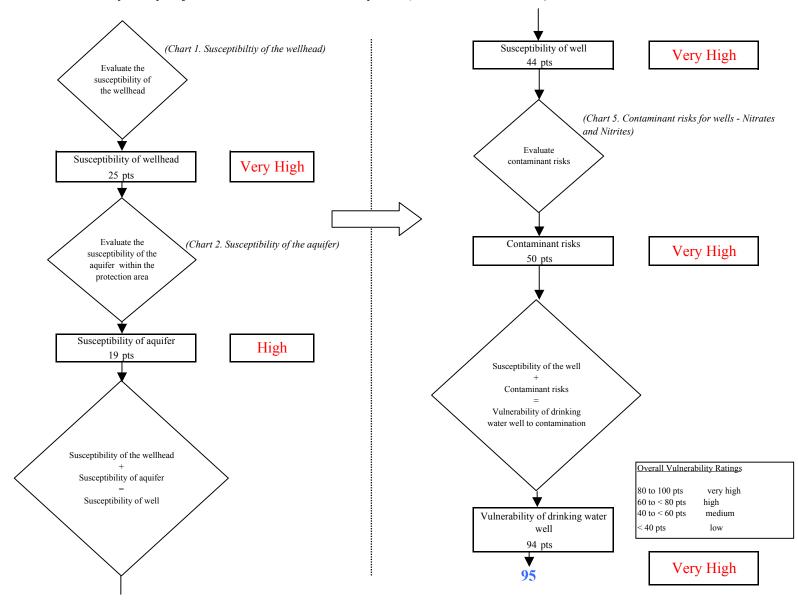


Chart 6. Vulnerability analysis for Ft. Yukon Public Water System (PWS No. 360256.001) - Nitrates and Nitrites

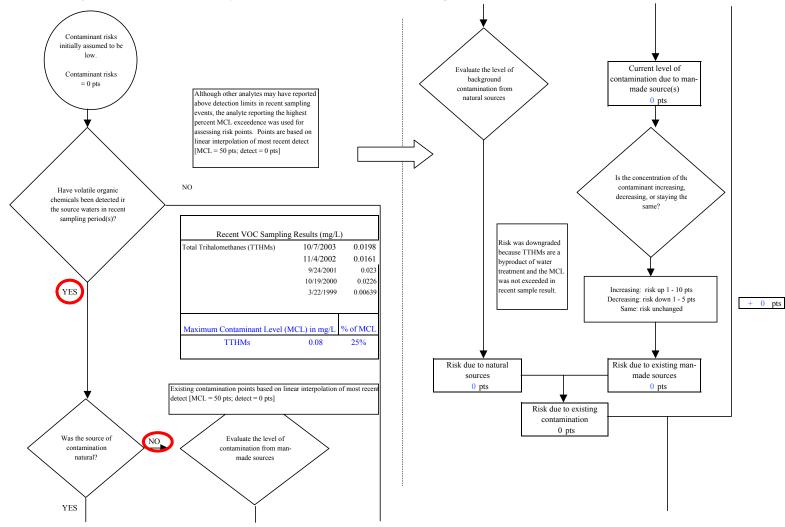


Chart 7. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Volatile Organic Chemicals

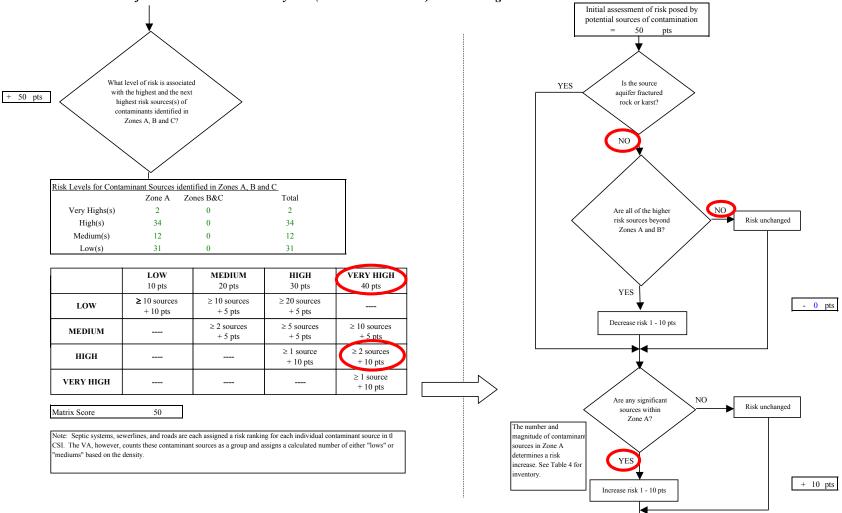


Chart 7. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Volatile Organic Chemicals

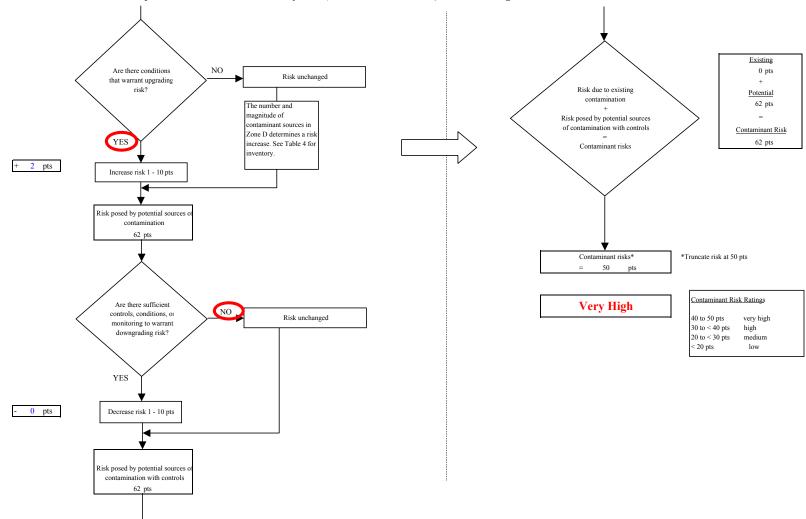


Chart 7. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Volatile Organic Chemicals

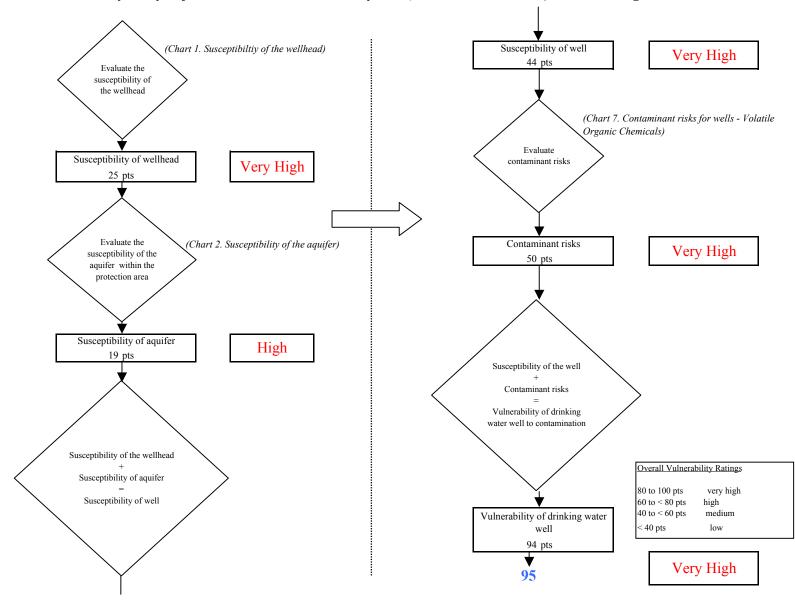


Chart 8. Vulnerability analysis for Ft. Yukon Public Water System (PWS No. 360256.001) - Volatile Organic Chemicals

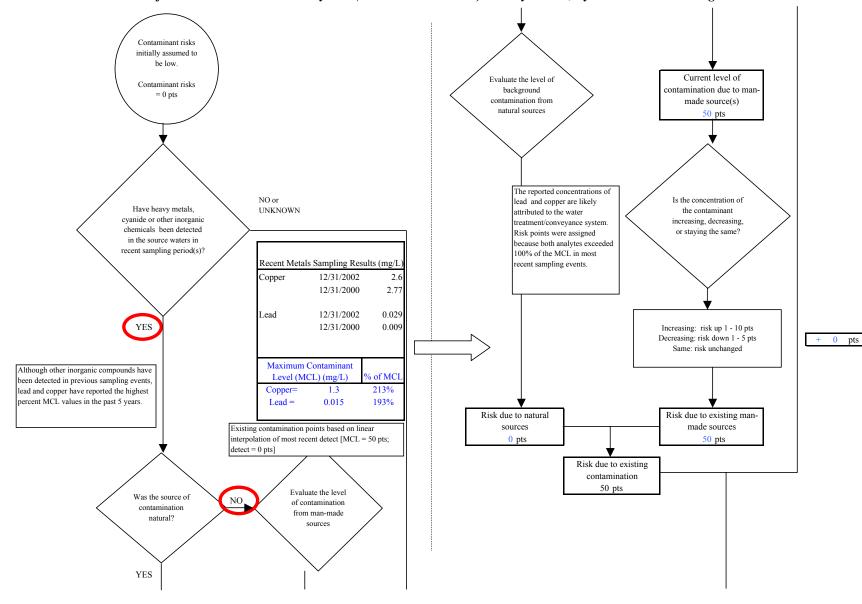


Chart 9. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Heavy Metals, Cyanide and Other Inorganic Chemicals

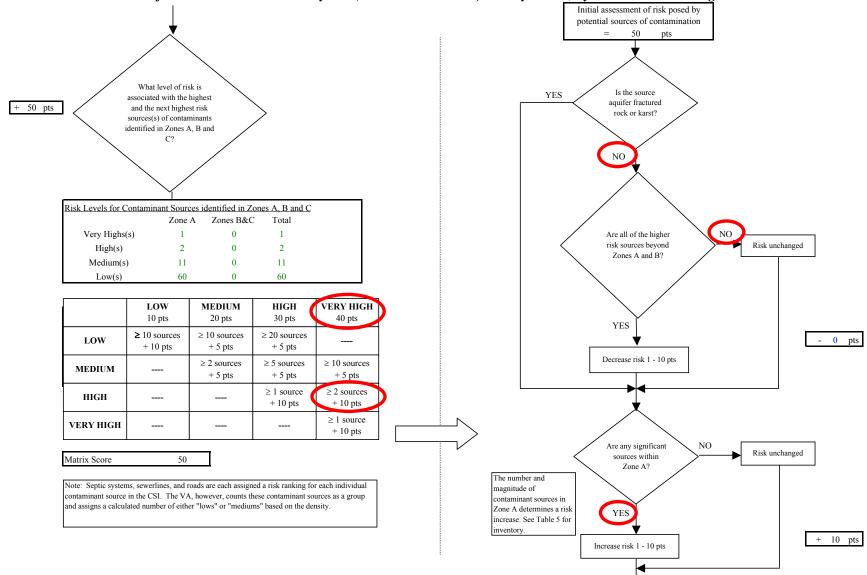


Chart 9. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Heavy Metals, Cyanide and Other Inorganic Chemicals

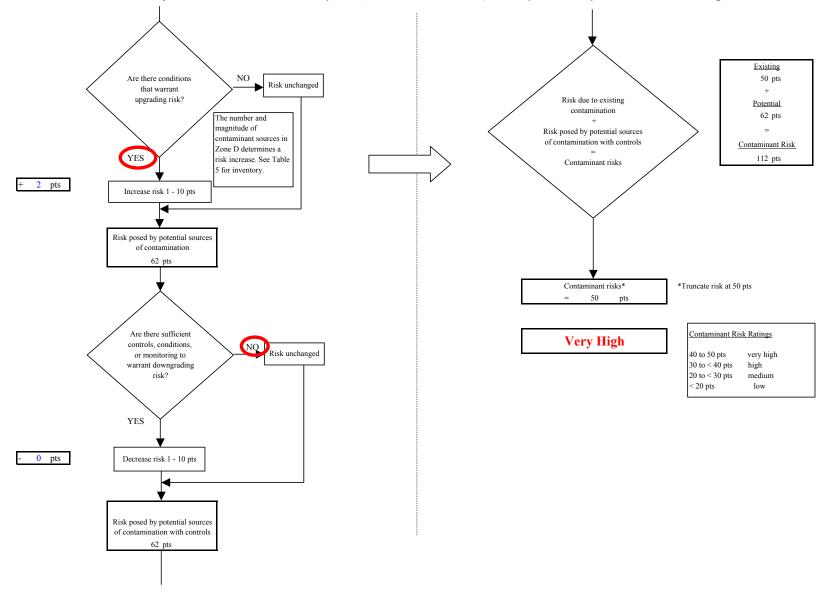


Chart 9. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Heavy Metals, Cyanide and Other Inorganic Chemicals

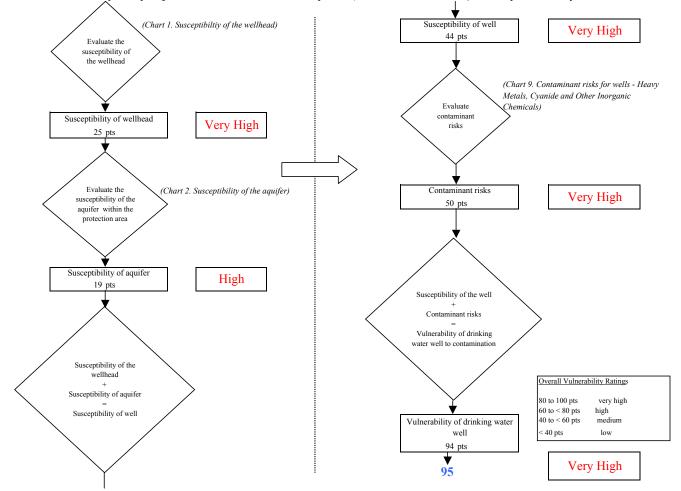


Chart 10. Vulnerability analysis for Ft. Yukon Public Water System (PWS No. 360256.001) - Heavy Metals, Cyanide and Other Inorganic Chemicals

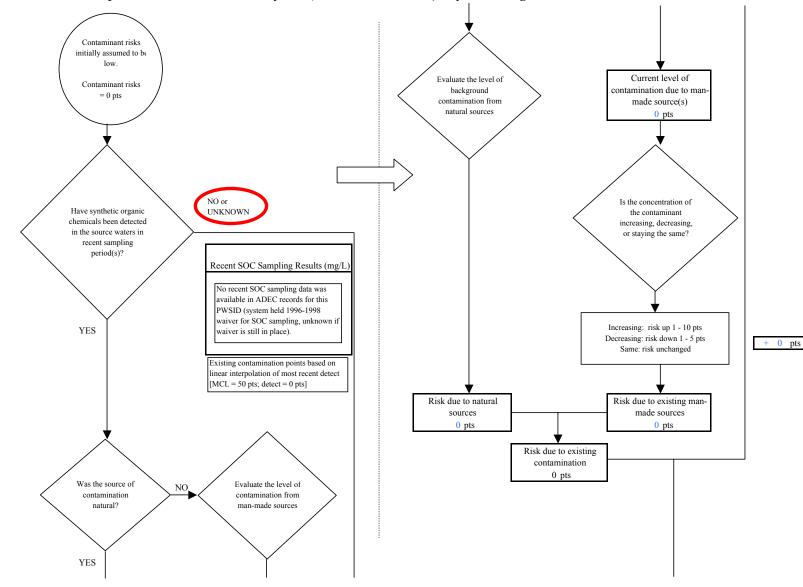


Chart 11. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Synthetic Organic Chemicals

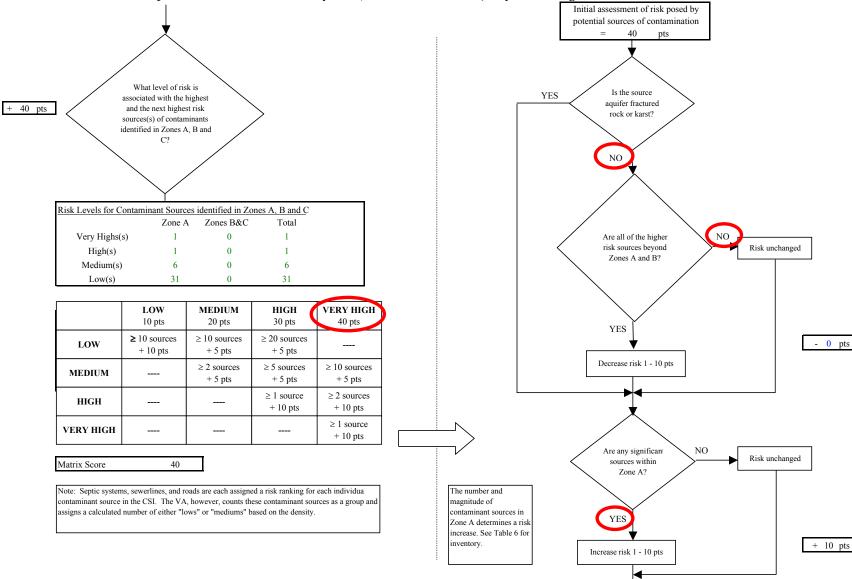


Chart 11. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Synthetic Organic Chemicals

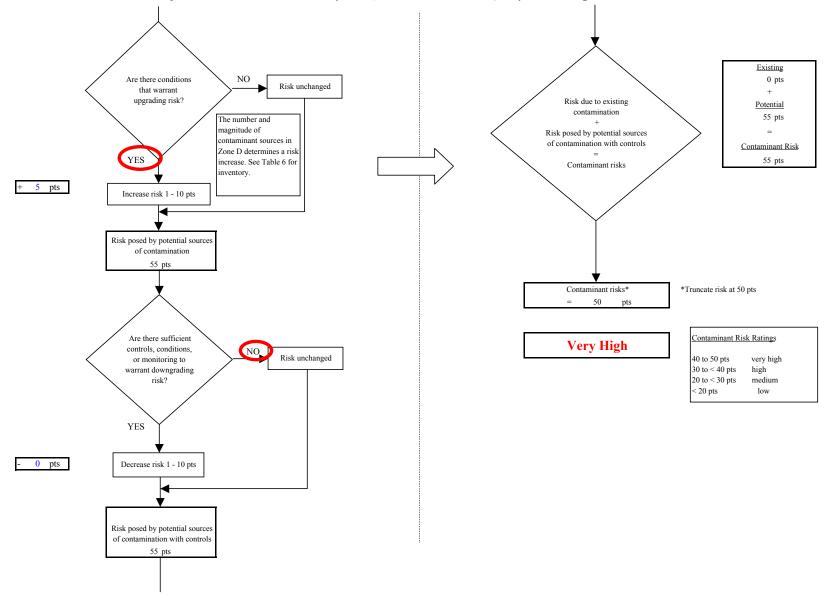


Chart 11. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Synthetic Organic Chemicals

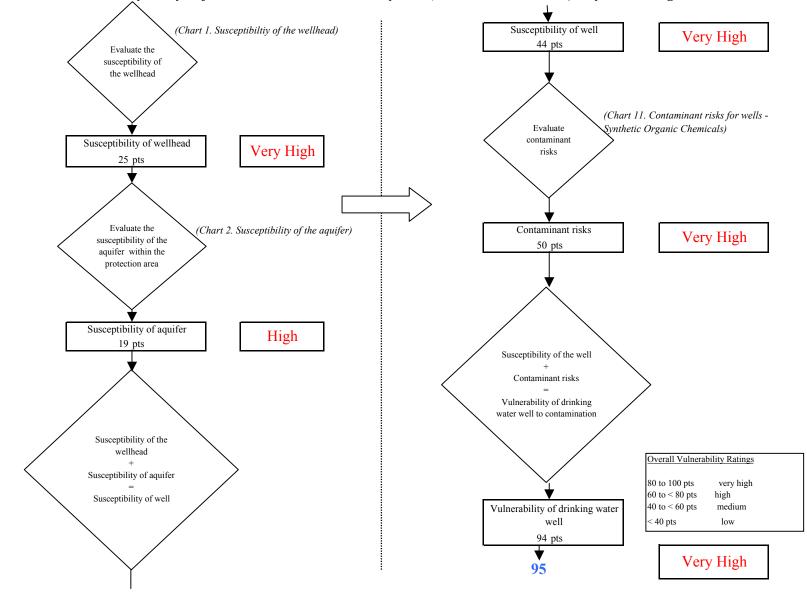


Chart 12. Vulnerability analysis for Ft. Yukon Public Water System (PWS No. 360256.001) - Synthetic Organic Chemicals

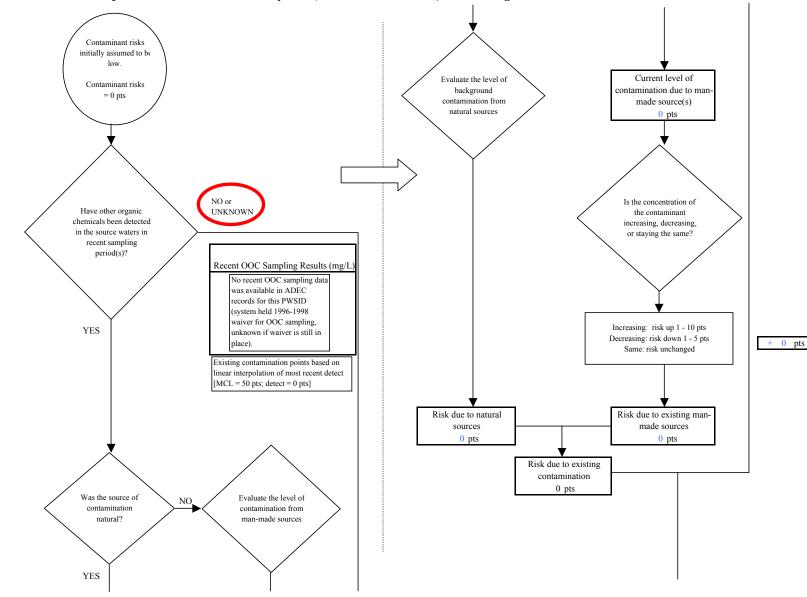


Chart 13. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Other Organic Chemicals

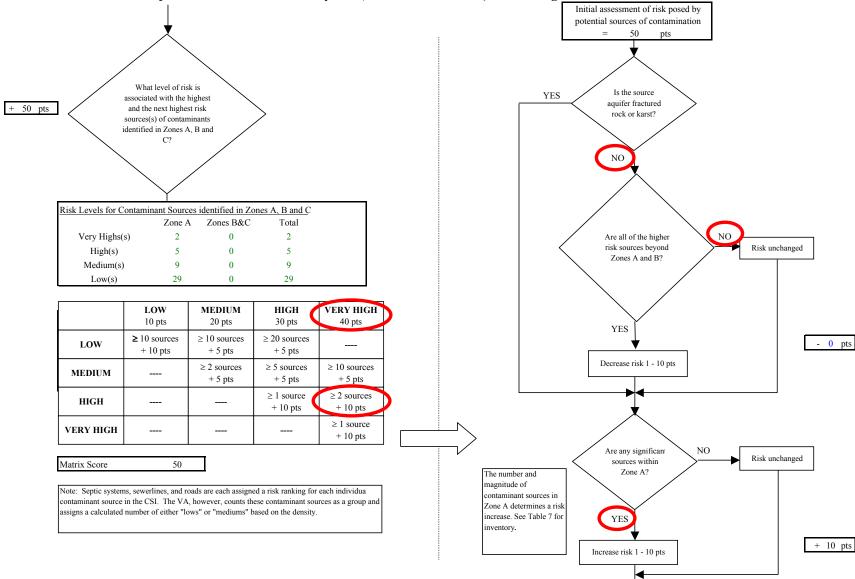


Chart 13. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Other Organic Chemicals

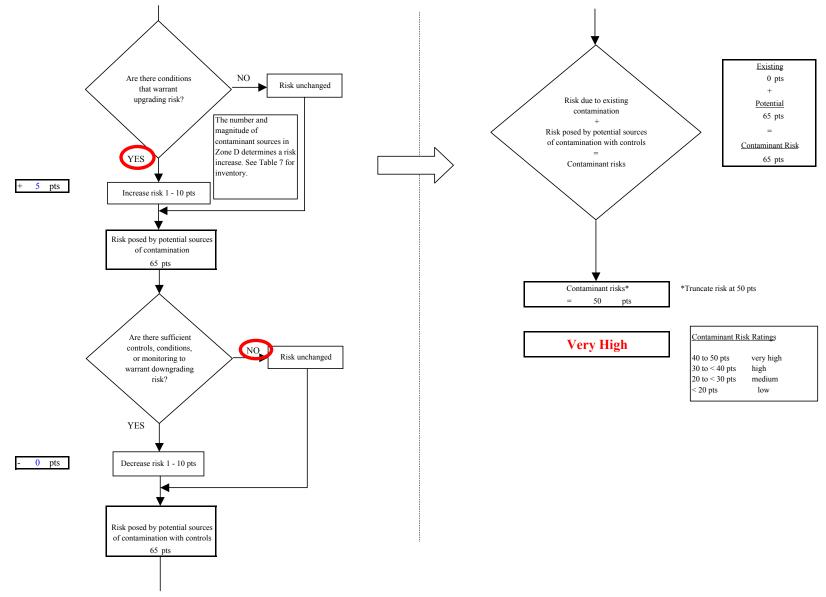


Chart 13. Contaminant risks for Ft. Yukon Public Water System (PWS No. 360256.001) - Other Organic Chemicals

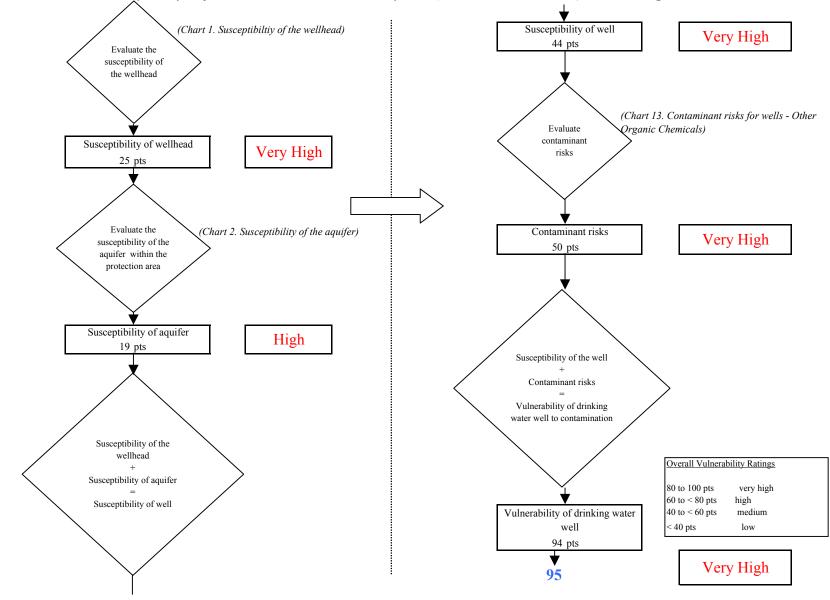


Chart 14. Vulnerability analysis for Ft. Yukon Public Water System (PWS No. 360256.001) - Other Organic Chemicals