Source Water Assessment

A Hydrogeologic Susceptibility and Vulnerability Assessment for the UTDC/Tok Community Center Drinking Water System, Tok, Alaska

PWSID # 380078.001

July 2004

DRINKING WATER PROTECTION PROGRAM REPORT 1388
Alaska Department of Environmental Conservation

Source Water Assessment for the UTDC/Tok Community Center Drinking Water System Tok, Alaska

PWSID # 380078.001

DRINKING WATER PROTECTION PROGRAM REPORT 1388

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

TABLES

APPENDICES

Source Water Assessment for UTDC/Tok Community Center Source of Public Drinking Water, Tok, Alaska

Drinking Water Protection Program
Alaska Department of Environmental Conservation

EXECUTIVE SUMMARY

The UTDC/Tok Community Center has one Public Water System (PWS) well. The well (PWS No. 380078.001) has been used as a drinking water source since it was completed in April of 1974.

The well is a Class A (community and non-transient non-community) water system located in the UTDC/Tok Community Center at the intersection of Jon Summar Way and Tok Senior Center Road in Tok , Alaska. Available records indicate that the system has a secondary storage of 40 gallons, and that the drinking water source is untreated. This system operates year round and serves approximately 75 non-residents. The wellhead received a susceptibility rating of **Low** and the aquifer received a susceptibility rating of **High.** Combining these two ratings produce a **Low** rating for the natural susceptibility of the well.

Identified potential and current sources of contaminants for the public drinking water source include: large-capacity septic systems, pit toilets, individual septic systems, residential and nonresidential heating oil tanks, closed underground nonresidential heating oil tanks, aboveground diesel and gasoline tanks, underground diesel and gasoline tanks, closed underground diesel and gasoline tanks, DEC recognized contaminated sites, petroleum product bulk station/terminals, roads, campgrounds and RV parks, gasoline stations (without repair shops), a gasoline station (with repair shop), a motor/motor vehicle repair shop, domestic wastewater collection systems, a honey bucket disposal area, Injection wells (Class V), lawns and gardens (residential areas), closed underground lubricant or other petroleum product tanks, closed wastewater holding tanks, open leaking underground fuel storage tank (LUST) sites, closed leaking underground fuel storage tank (LUST) sites, and electric power generation. An inventory of potential or existing contamination sources can be found in Appendix B, Table 1. These identified potential and existing sources of contamination are considered 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 well received a vulnerability rating of **High** for bacteria and viruses, nitrates and nitrites, volatile organic chemicals, heavy metals, cyanide and other inorganic chemicals, and other organic chemicals, and a vulnerability rating of **Medium** for synthetic organic chemicals.

PUBLIC DRINKING WATER SYSTEM

The UTDC/Tok Community Center well is a Class A (community/non-transient/non-community) public water system. The system is located in the UTDC/Tok Community Center at the intersection of Jon Summar Way and Tok Senior Center Road in Tok, Alaska. (Sec. 18, T018N, R013E, Copper River Meridian, see Map A of Appendix A). The community of Tok is located at the junction of the Alaska Highway and the Tok cutoff to the Glenn Highway, 200 miles southeast of Fairbanks. The community has a population of 1435 (ADCED, 2003). Average annual precipitation in Tok is 11 inches including 33 inches of snow. Temperatures can be as extreme as -71 to 99°F.

The community of Tok obtains most of their water from individual wells. The schools operate individual systems. The majority of the occupied households have individual septic tanks (ADCED, 2003). Tok receives electrical power from Alaska Power & Telephone Company; power-generating facilities are diesel powered. A private firm, J.D. Refuse Service, provides household refuse collection and disposal at the landfill located at mile 120.5 of the Glenn Highway (ADCED, 2003).

According to information supplied by ADEC for the UTDC/Tok Community Center PWS, the depth of the well is 90 feet below the ground surface. Based on available well construction details, the well is assumed to be completed in an unconfined aquifer and is screened. The well is not located within a floodplain.

Information acquired from a June 2003 sanitary survey for the public water system indicated that the land surface was 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 grouted according to ADEC regulations. Proper grouting provides added protection against contaminants traveling along the well casing annulus and into source waters.

Tok and the surrounding areas are in the eastern reaches of the Tanana-Kuskokwim Lowland, a broad depression bordering the Alaska Range on the north. Coalescing alluvial fans composed of moderately well sorted silt, sand, and gravel are the principal surficial deposits in the Tok area. The thickness of the unconsolidated material is estimated to be as much as 760 meters. Not all of this thickness is alluvium, however, because alluvial deposits are typically not deposited below sea level. It is likely that deep sediments in the area are poorly sorted lacustrine, glacial, or marine sediments of low permeability. The area was glaciated in at least three episodes, which is evidenced by the presence of terminal moraines in the Delta and Gerstle River valleys and in the valleys of several small creeks draining the north face of the Alaska Range. Five major soil types exist in the Big Delta area: Salchaket, Jarvis, Nenana, Chena, and Tanana. These soils range in drainage from the somewhat poorly drained Salchaket to well drained Chena. The area lies in the discontinuous permafrost zone (Nelson, 1995).

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 UTDC/Tok Community Center Public Water System 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
A	¼ the distance for the 2-yr. time-of-travel
B	Less than the 2 year time-of-travel
C	Less Than the 5 year time-of-travel
D	Less than the 10 year time-of-travel

The DWPA for the UTDC/Tok Community Center PWS was determined using an analytical calculation and includes Zones A, B, C, and D (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 UTDC/Tok Community Center 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, and

- Other organic chemicals.

The sources are displayed on Map C2 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 4 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

The UTDC/Tok Community Center water well is assumed to be in an unconfined aquifer. Unconfined aquifers are more 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 Wellhead	0	Low
Susceptibility of the Aquifer	18	High
Natural Susceptibility	18	Low

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:

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

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

Table 3. Contaminant Risks

Category	Score	Rating
Bacteria and Viruses	50	Very High
Nitrates and/or Nitrites	50	Very High
Volatile Organic Chemicals	50	Very High
Heavy Metals, Cyanide and Other Inorganic Chemicals	50	Very High
Synthetic Organic Chemicals	25	Medium
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	70	High
Nitrates and Nitrites	70	High
Volatile Organic Chemicals	70	High
Heavy Metals, Cyanide and Other Inorganic Chemicals	70	High
Synthetic Organic Chemicals	45	Medium
Other Organic Chemicals	70	High

Bacteria and Viruses

The contaminant risk for bacteria and viruses is **Very High**. The risk is primarily attributed to the presence of large-capacity septic systems, and a honey bucket disposal area in Zones A and B. Numerous other potential contaminant sources are also found 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, 2003). Positive samples increase the overall vulnerability of the drinking water source, indicating that the source is susceptible to bacteria and virus contamination.

No positive bacteria counts have 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 **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 large-capacity septic systems, and a honey bucket disposal area in Zones A and B. Numerous other potential

contaminant sources are also found 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 nitrates have been detected in recent sampling events, however they did not exceed the MCL of 10mg/L (See Chart 5 - Contaminant Risks for Nitrates and/or Nitrites in Appendix D).

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 **High.**

Volatile Organic Chemicals

The contaminant risk for volatile organic chemicals is **Very High**. The risk is primarily attributed to the presence of petroleum product bulk station/terminals, in Zones A and B. Numerous other potential contaminant sources are also found within the protection area (see Table 4 – Appendix B).

The sampling history for this well indicates that volatile organic chemicals have not been detected in recent sampling events (See Chart 7 – Contaminant Risks for Volatile Organic Chemicals 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.

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 **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 injection wells in Zone B. Numerous other potential contaminant sources are also found within the protection area (see Table 5 – Appendix B).

Based on review of recent sampling records for this public water system, high levels of lead and copper have been detected. Copper has exceeded its MCL of 1.3 mg/L (see Chart 9 – Contaminant Risks for Heavy Metals, Cyanide, and Other Inorganic Chemicals in Appendix D).

The reported concentrations of lead and copper are likely attributed to the water treatment/conveyance system, however risk points were assigned since copper met 100% of the MCL in 2001.

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 **High**.

Synthetic Organic Chemicals

The contaminant risk for synthetic organic chemicals is **Medium**. The risk is primarily attributed to the significant number of low risk contaminant sources Zones A and B. Numerous other potential contaminant sources are also found within the protection area (see Table 6 – Appendix B).

No recent sampling data was available in ADEC records for the UTDC/Tok Community Center (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 **Medium**.

Other Organic Chemicals

The contaminant risk for other organic chemicals is **Very High**. The risk is primarily attributed to the presence of petroleum product bulk station/terminals, and electric power generation in Zones A and B. Numerous other potential contaminant sources are also found within the protection area (see Table 7 – Appendix B).

No recent sampling data was available in ADEC records for the UTDC/Tok Community Center (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 **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 UTDC/Tok Community Center and the community of Tok 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: http://www.dced.state.ak.us/cbd/commdb/CF_COMDB.htm

Alaska Department of Environmental Conservation, Contaminated Sites Database, 2003 [WWW database], URL http://www.state.ak.us/dec/dspar/csites/cs_search.htm

Alaska Department of Environmental Conservation, Leaking Underground Storage Tank Database, 2003 [WWW database], URL http://www.dec.state.ak.us/spar/stp/ust/search/fac_search.asp

Freeze, R. A., and Cherry, J.A. 1979, Groundwater, Prentice-Hall, Englewood Cliffs, New Jersey

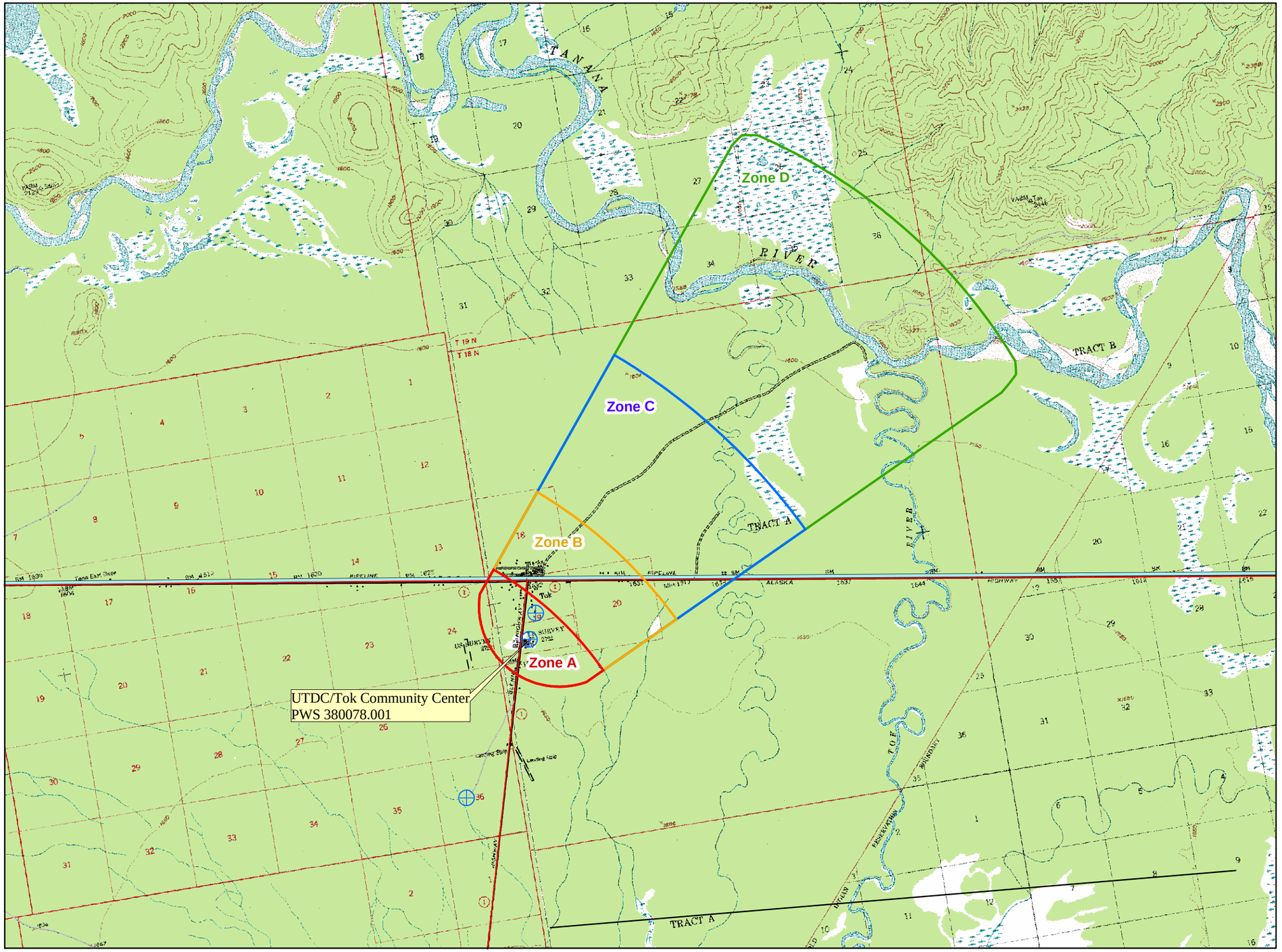
Nelson, Gordon L. 1995. Overview of Environmental and Hydrogeologic Conditions near Big Delta, Alaska. U.S. Geological Survey Open File Report 95-180 (prepared in cooperation with the FAA).

United States Environmental Protection Agency (EPA), 2002 [WWW document]. URL http://www.epa.gov/safewater/mcl.html.

APPENDIX A

Drinking Water Protection Area Location Map
(Map A)

Public Water Well System for PWS #380078.001 UTDC/Tok Community Center



LEGEND

Public Water System Well

Hydrography/Physical

- Parcels
- Stream
- Lake or Pond
- Contours

Transportation

- Primary Route (Class 1)
- Secondary Route (Class 2)
- Road (Class 3)
- Road (Class 4)
- Road (Class 5, Four-wheel drive)

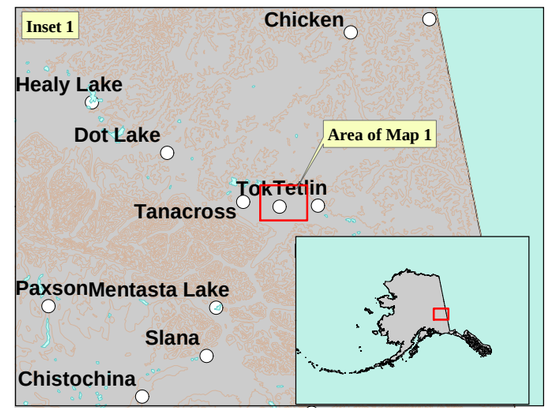
Protection Zones

- Zone A Protection Area– Several Months Travel Time
- Zone B Protection Area– 2 Years Travel Time
- Zone C Protection Area– 5 Years Travel Time
- Zone D Protection Area– 10 Years Travel Time

Data Sources:
- Contaminant Sources, Public Water System Wells, Contours Alaska Department of Environmental Conservation (ADEC)
- Critical Facilities, Federal Emergency Management Agency (FEMA)

All other data:
- United States Geological Survey (USGS)
- Drinking Water Protection Areas based on "Alaska Drinking Water Protection Program - Guidance Manual for Class A Public Water Systems" published by ADEC

URS Corporation does not guarantee the accuracy or validity of the data provided.



UTDC/Tok Community Center
PWS 380078.001
Appendix A Map A

APPENDIX B

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

Table 1

Contaminant Source Inventory for

UTDC / Tok Community Center

PWSID 380078.001

Contaminant Source Type	*Contaminant Source ID*	*CS ID tag*	*Zone*	*Map Number*	*Comments*
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	A	C	GOLDEN BEAR CAMPER PARK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	A	C	GOLDEN BEAR MOTEL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	A	C	TOK-LODGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-04	A	C	TUNDRA LODGE-MAIN LODGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-05	A	C	VALLEY BAKERY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-06	A	C	AKGATEWAY SD-TOK SCHOOL FLD
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-07	A	C	AKGATEWAY SD-TOK SCHOOLS
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-08	A	C	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-09	A	C	
Pit toilets (open hole), nonresidential (one or more)	D16	D16-01	A	C	Assume 50 or less pit toilets/outhouses in Zone A
Septic systems (serves one single-family home)	R02	R02-01	A	C	Assume 75 or less individual septic systems in Zone A
Tanks, heating oil, residential (above ground)	R08	R08-01	A	C	Assume 75 or less residential heating oil tanks in Zone A
Tanks, diesel (above ground)	T06	T06-01	A	C	
Tanks, diesel (above ground)	T06	T06-02	A	C	
Tanks, gasoline (above ground)	T10	T10-01	A	C	
Tanks, heating oil, nonresidential (aboveground)	T14	T14-01	A	C	
Tanks, heating oil, nonresidential (aboveground)	T14	T14-02	A	C	

Contaminant Source Type	*Contaminant Source ID*	*CS ID tag*	*Zone*	*Map Number*	*Comments*
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-01	A	C	Tundra Lodge and RV Park. Reckey: 1990330116301. Status: No Further Remedial Action Planned. 2 leaking 10,000-gallon heating oil tanks. Groundwater @ 60 ft. is contaminated.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-02	A	C	ADOT&PF Northway Maintenance Camp. Reckey: 1988330111101. Status: Inactive. Undetermined amount of fuel spilled during operation of pipeline contaminated the groundwater supply.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-03	A	C	Walter Northway School. Reckey: 1988330121801. Status: No Further Remedial Action Planned. Broken fuel line between above ground tank battery and school resulted in unquantified loss of #1 heating oil in 1988.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-04	A	C	Tok River Wayside Campground. Reckey: 1988330129108. Status: Inactive. Well at campground found to contain benzene in 1983. Possible source is 1976 heating oil contamination of well at USCG LORAN station.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-05	A	C	USCG Tok Loran Station. Reckey: 1988330129120. Status: Inactive. Well casing filled by mistake with fuel in early 1980s.1986 spill of oil and possibly solvents and glycol from cracked 100 gallon sump.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-06	A	C	Tundra Lodge and RV Park. Reckey: 1990330116301. Status: No Further Remedial Action Planned. 2 leaking 10,000-gallon heating oil tanks. Groundwater @ 60 ft. is contaminated.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-07	A	C	FDIC 40-Mile Roadhouse, Tetlin Jct. Reckey: 1990330914501. Status: Inactive. 5 USTs located on the property; leaking drums on property may contain "cutback" asphalt and other substances.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-08	A	C	Alaska Power & Telephone. Reckey: 1991330131202. Status: Closed. Diesel fuel leak from day tank inside of building.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-09	A	C	Tok Tesoro. Reckey: 1991330931201. Status: Inactive. Leaking UST storing leaded, unleaded gas and/or diesel. Also surface spills from overfilling of bulk tanks.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-10	A	C	ADOT/PF Tok HOT 234-3G. Reckey: 1992330934901. Status: Inactive. Closure of HOT which failed Tracer Tight (TT) leak test indicates contamination as great as 9000 ppm at depth of 11 feet. 70 cubic yards of soil has been stockpiled on site.
Petroleum product bulk station/terminals	X11	X11-01	A	C	Assume two petroleum product bulk station/terminals in Zone A
Highways and roads, dirt/gravel	X24	X24-01	A	C	Assume 1-20 roads in Zone A
Campgrounds and RV Parks	X35	X35-01	A	C	Tundra Lodge and RV Park
Gasoline stations (without repair shop)	C15	C15-01	B	C	NORTHERN ENERGY CORP.
Gasoline stations (without repair shop)	C15	C15-02	B	C	TOK SAVEWAY

Contaminant Source Type	*Contaminant Source ID*	*CS ID tag*	*Zone*	*Map Number*	*Comments*
Gasoline stations (without repair shop)	C15	C15-03	B	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Gasoline stations (with repair shop)	C16	C16-01	B	C	YOUNG'S CHEVRON
Motor /motor vehicle repair shops	C31	C31-01	B	C	WILLARD'S AUTO, ELEC, & GAS
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D01-01	B	C	
Honey bucket disposal areas (community)	D07	D07-01	B	C	Assume one honey bucket disposal area in Zone B
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-10	B	C	MI OIL CO, INC./10-20 CB
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-11	B	C	BLM-40 MI RESOURCE/TOK WELL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-12	B	C	BLM-WALKER FORK CAMPGROUND
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-13	B	C	GATEWAY SALMON BAKE/KRANENBURG
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-14	B	C	SHEFFIELD TOK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-15	B	C	SHEN BIBLE CAMP
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-16	B	C	TOK-COMBINED FAC
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-17	B	C	TOK-COMMUNITY CENTER
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-18	B	C	TOK-LODGE MOTEL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-19	B	C	TOK-LODGE QUICK STOP
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-20	B	C	TOK-RV PARK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-21	B	C	WADSWORTH CAMPER CITY/CABANA
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-22	B	C	YOUNGS CAF+

Contaminant Source Type	*Contaminant Source ID*	*CS ID tag*	*Zone*	*Map Number*	*Comments*
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-23	B	C	HUSKY LOUNGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-24	B	C	1260 INN
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-25	B	C	IRON DOG OUTFITTERS
Pit toilets (open hole), nonresidential (one or more)	D16	D16-02	B	C	Assume 150 or less pit toilets/outhouses in Zone B
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-01	B	C	YOUNG'S CHEVRON
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-02	B	C	ADOTPF MAINTENANCE STATION
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-03	B	C	VILLAGE TEXACO
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-04	B	C	WADSWORTH TEXACO
Residential Areas	R01	R01-01	B	C	lawns and gardens
Septic systems (serves one single-family home)	R02	R02-02	B	C	Assume 225 or less individual septic systems in Zone B
Tanks, heating oil, residential (above ground)	R08	R08-02	B	C	Assume 225 or less residential heating oil tanks in Zone B
Tanks, diesel (underground)	T08	T08-01	B	C	KNOB RIDGE MICROWAVE REPEATER
Tanks, diesel (underground)	T08	T08-02	B	C	CATHEDRAL MICROWAVE REPEATER
Tanks, diesel (underground)	T08	T08-03	B	C	BEAVER CREEK MICROWAVE REPEATER
Tanks, diesel (underground)	T08	T08-04	B	C	NORTHERN ENERGY CORP.
Tanks, diesel (underground)	T08	T08-05	B	C	YOUNG'S CHEVRON
Tanks, diesel (underground)	T08	T08-06	B	C	US BORDER STATIONTok
Tanks, diesel (underground)	T08	T08-07	B	C	US BORDER STATIONTok
Tanks, diesel (underground)	T08	T08-08	B	C	ADOTPF - TOK MAINTENANCE
Tanks, diesel (underground)	T08	T08-09	B	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Closed tanks, diesel (underground)	T09	T09-01	B	C	YOUNG'S CHEVRON
Closed tanks, diesel (underground)	T09	T09-02	B	C	WESTMARK INN (TUNDRA LODGE)

Contaminant Source Type	*Contaminant Source ID*	*CS ID tag*	*Zone*	*Map Number*	*Comments*
Closed tanks, diesel (underground)	T09	T09-03	B	C	TOK POWER PLANT
Closed tanks, diesel (underground)	T09	T09-04	B	C	CARSON TURBO HELICOPTERS
Closed tanks, diesel (underground)	T09	T09-05	B	C	CARSON TURBO HELICOPTERS
Closed tanks, diesel (underground)	T09	T09-06	B	C	ADOTPF - Tok Maintenance Station
Closed tanks, diesel (underground)	T09	T09-07	B	C	ADOTPF - Tok Maintenance Station
Closed tanks, diesel (underground)	T09	T09-08	B	C	ADOTPF - Tok Maintenance Station
Closed tanks, diesel (underground)	T09	T09-09	B	C	ADOTPF - TOK MAINTENANCE
Tanks, gasoline (above ground)	T10	T10-02	B	C	
Tanks, gasoline (underground)	T12	T12-01	B	C	NORTHERN ENERGY CORP.
Tanks, gasoline (underground)	T12	T12-02	B	C	NORTHERN ENERGY CORP.
Tanks, gasoline (underground)	T12	T12-03	B	C	TOK SAVEWAY
Tanks, gasoline (underground)	T12	T12-04	B	C	YOUNG'S CHEVRON
Tanks, gasoline (underground)	T12	T12-05	B	C	YOUNG'S CHEVRON
Tanks, gasoline (underground)	T12	T12-06	B	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Tanks, gasoline (underground)	T12	T12-07	B	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Closed tanks, gasoline (underground)	T13	T13-01	B	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Closed tanks, gasoline (underground)	T13	T13-02	B	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-03	B	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-04	B	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-05	B	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-06	B	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-07	B	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-08	B	C	YOUNG'S CHEVRON

Contaminant Source Type	*Contaminant Source ID*	*CS ID tag*	*Zone*	*Map Number*	*Comments*
Closed tanks, gasoline (underground)	T13	T13-09	B	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-10	B	C	WESTMARK INN (TUNDRA LODGE)
Closed tanks, gasoline (underground)	T13	T13-11	B	C	WESTMARK INN (TUNDRA LODGE)
Closed tanks, gasoline (underground)	T13	T13-12	B	C	ADOTPF - Tok Maintenance Station
Tanks, heating oil, nonresidential (underground)	T16	T16-01	B	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Tanks, heating oil, nonresidential (underground)	T16	T16-02	B	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Tanks, heating oil, nonresidential (underground)	T16	T16-03	B	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Closed tanks, heating oil, nonresidential (underground)	T17	T17-01	B	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Closed tanks, heating oil, nonresidential (underground)	T17	T17-02	B	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Closed tanks, heating oil, nonresidential (underground)	T17	T17-03	B	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Closed tanks, heating oil, nonresidential (underground)	T17	T17-04	B	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Closed tanks, heating oil, nonresidential (underground)	T17	T17-05	B	C	USCG - LORSTA TOK
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-01	B	C	ADOTPF- Tok Maintenance
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-02	B	C	ADOTPF - TOK MAINTENANCE
Closed Wastewater Holding Tank	T23	T23-01	B	C	ADOTPF - TOK
Closed Wastewater Holding Tank	T23	T23-02	B	C	ADOTPF - TOK
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-11	B	C	Alaska Power & Telephone. Reckey: 1991330131202. Status: Closed. Diesel fuel leak from day tank inside of building.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-12	B	C	USCG Tok Loran Station. Reckey: 1988330129120. Status: Inactive. Well casing filled by mistake with fuel in early 1980s.1986 spill of oil and possibly solvents and glycol from cracked 100 gallon sump.
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-01	B	C	ADOTPF - O'BRIEN CREEK
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-02	B	C	NORTHERN ENERGY CORP.
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-03	B	C	FORMER VETERAN'S AIR SERVICE INC
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-04	B	C	ADFG -

Contaminant Source Type	*Contaminant Source ID*	*CS ID tag*	*Zone*	*Map Number*	*Comments*
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-05	B	C	YOUNG'S CHEVRON
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-06	B	C	US BORDER STATIONTok
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-07	B	C	WILLARD'S AUTO, ELEC, & GAS
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-08	B	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-09	B	C	CROZIER INVESTMENTS
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-10	B	C	Tanacross Administrative Site
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-11	B	C	Tanacross Airfield
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-01	B	C	KNOB RIDGE MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-02	B	C	CATHEDRAL MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-03	B	C	BEAVER CREEK MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-04	B	C	40 - MILE AIR LTD.
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-05	B	C	WESTMARK INN (TUNDRA LODGE)
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-06	B	C	USCG - LORSTA TOK
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-07	B	C	PARKER HOUSE
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-08	B	C	THREE BEARS
Petroleum product bulk station/terminals	X11	X11-02	B	C	Assume two petroleum product bulk station/terminals in Zone B
Highways and roads, dirt/gravel	X24	X24-02	B	C	Assume 1-20 roads in Zone B
Campgrounds and RV Parks	X35	X35-01	B	C	WESTMARK INN (TUNDRA LODGE)
Electric power generation (fossil fuels)	X36	X36-01	B	C	Alaska Power & Telephone

Table 2

Contaminant Source Inventory and Risk Ranking for UTDC / Tok Community Center Sources of Bacteria and Viruses

PWSID 380078.001

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	A	High	C	GOLDEN BEAR CAMPER PARK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	A	High	C	GOLDEN BEAR MOTEL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	A	High	C	TOK-LODGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-04	A	High	C	TUNDRA LODGE-MAIN LODGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-05	A	High	C	VALLEY BAKERY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-06	A	High	C	AKGATEWAY SD-TOK SCHOOL FLD
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-07	A	High	C	AKGATEWAY SD-TOK SCHOOLS
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-08	A	High	C	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-09	A	High	C	
Pit toilets (open hole), nonresidential (one or more)	D16	D16-01	A	Medium	C	Assume 50 or less pit toilets/outhouses in Zone A
Septic systems (serves one single-family home)	R02	R02-01	A	Low	C	Assume 75 or less individual septic systems in Zone A
Highways and roads, dirt/gravel	X24	X24-01	A	Low	C	Assume 1-20 roads in Zone A
Campgrounds and RV Parks	X35	X35-01	A	Low	C	Tundra Lodge and RV Park
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D01-01	B	Medium	C	
Honey bucket disposal areas (community)	D07	D07-01	B	High	C	Assume one honey bucket disposal area in Zone B
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-10	B	High	C	MI OIL CO, INC./10-20 CB

Table 2 (continued)

Contaminant Source Inventory and Risk Ranking for UTDC / Tok Community Center Sources of Bacteria and Viruses

Contaminant Source Type	*Contaminant Source ID*	*CS ID tag*	*Zone*	*Risk Ranking for Analysis*	*Map Number*	*Comments*
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-11	B	High	C	BLM-40 MI RESOURCE/TOK WELL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-12	B	High	C	BLM-WALKER FORK CAMPGROUND
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-13	B	High	C	GATEWAY SALMON BAKE/KRANENBURG
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-14	B	High	C	SHEFFIELD TOK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-15	B	High	C	SHEN BIBLE CAMP
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-16	B	High	C	TOK-COMBINED FAC
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-17	B	High	C	TOK-COMMUNITY CENTER
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-18	B	High	C	TOK-LODGE MOTEL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-19	B	High	C	TOK-LODGE QUICK STOP
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-20	B	High	C	TOK-RV PARK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-21	B	High	C	WADSWORTH CAMPER CITY/CABANA
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-22	B	High	C	YOUNGS CAF+
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-23	B	High	C	HUSKY LOUNGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-24	B	High	C	1260 INN
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-25	B	High	C	IRON DOG OUTFITTERS

Table 2 (continued)

Contaminant Source Inventory and Risk Ranking for UTDC / Tok Community Center Sources of Bacteria and Viruses

PWSID 380078.001

Contaminant Source Type	*Contaminant Source ID*	*CS ID tag*	*Zone*	*Risk Ranking for Analysis*	*Map Number*	*Comments*
Pit toilets (open hole), nonresidential (one or more)	D16	D16-02	B	Medium	C	Assume 150 or less pit toilets/outhouses in Zone B
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-01	B	Low	C	YOUNG'S CHEVRON
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-02	B	Low	C	ADOTPF MAINTENANCE STATION
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-03	B	Low	C	VILLAGE TEXACO
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-04	B	Low	C	WADSWORTH TEXACO
Residential Areas	R01	R01-01	B	Low	C	lawns and gardens
Septic systems (serves one single-family home)	R02	R02-02	B	Low	C	Assume 225 or less individual septic systems in Zone B
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-01	B	Low	C	KNOB RIDGE MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-02	B	Low	C	CATHEDRAL MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-03	B	Low	C	BEAVER CREEK MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-04	B	Low	C	40 - MILE AIR LTD.
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-05	B	Low	C	WESTMARK INN (TUNDRA LODGE)
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-06	B	Low	C	USCG - LORSTA TOK
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-07	B	Low	C	PARKER HOUSE
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-08	B	Low	C	THREE BEARS
Highways and roads, dirt/gravel	X24	X24-02	B	Low	C	Assume 1-20 roads in Zone B

Table 2 (continued)

Contaminant Source Inventory and Risk Ranking for
UTDC / Tok Community Center
Sources of Bacteria and Viruses

PWSID 380078.001

Contaminant Source Type	*Contaminant Source ID*	*CS ID tag*	*Zone*	*Risk Ranking for Analysis*	*Map Number*	*Comments*
Campgrounds and RV Parks	X35	X35-01	B	Low	C	WESTMARK INN (TUNDRA LODGE)

Table 3

Contaminant Source Inventory and Risk Ranking for UTDC / Tok Community Center Sources of Nitrates/Nitrites

PWSID 380078.001

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	A	High	C	GOLDEN BEAR CAMPER PARK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	A	High	C	GOLDEN BEAR MOTEL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	A	High	C	TOK-LODGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-04	A	High	C	TUNDRA LODGE-MAIN LODGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-05	A	High	C	VALLEY BAKERY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-06	A	High	C	AKGATEWAY SD-TOK SCHOOL FLD
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-07	A	High	C	AKGATEWAY SD-TOK SCHOOLS
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-08	A	High	C	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-09	A	High	C	
Pit toilets (open hole), nonresidential (one or more)	D16	D16-01	A	Medium	C	Assume 50 or less pit toilets/outhouses in Zone A
Septic systems (serves one single-family home)	R02	R02-01	A	Low	C	Assume 75 or less individual septic systems in Zone A
Highways and roads, dirt/gravel	X24	X24-01	A	Low	C	Assume 1-20 roads in Zone A
Campgrounds and RV Parks	X35	X35-01	A	Low	C	Tundra Lodge and RV Park
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D01-01	B	Medium	C	
Honey bucket disposal areas (community)	D07	D07-01	B	High	C	Assume one honey bucket disposal area in Zone B
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-10	B	High	C	MI OIL CO, INC./10-20 CB

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-11	B	High	C	BLM-40 MI RESOURCE/TOK WELL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-12	B	High	C	BLM-WALKER FORK CAMPGROUND
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-13	B	High	C	GATEWAY SALMON BAKE/KRANENBURG
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-14	B	High	C	SHEFFIELD TOK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-15	B	High	C	SHEN BIBLE CAMP
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-16	B	High	C	TOK-COMBINED FAC
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-17	B	High	C	TOK-COMMUNITY CENTER
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-18	B	High	C	TOK-LODGE MOTEL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-19	B	High	C	TOK-LODGE QUICK STOP
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-20	B	High	C	TOK-RV PARK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-21	B	High	C	WADSWORTH CAMPER CITY/CABANA
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-22	B	High	C	YOUNGS CAF+
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-23	B	High	C	HUSKY LOUNGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-24	B	High	C	1260 INN
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-25	B	High	C	IRON DOG OUTFITTERS

Table 3 (continued)

Contaminant Source Inventory and Risk Ranking for
UTDC / Tok Community Center
Sources of Nitrates/Nitrites

PWSID 380078.001

Contaminant Source Type	*Contaminant Source ID*	*CS ID tag*	*Zone*	*Risk Ranking for Analysis*	*Map Number*	*Comments*
Pit toilets (open hole), nonresidential (one or more)	D16	D16-02	B	Medium	C	Assume 150 or less pit toilets/outhouses in Zone B
Residential Areas	R01	R01-01	B	Low	C	lawns and gardens
Septic systems (serves one single-family home)	R02	R02-02	B	Low	C	Assume 225 or less individual septic systems in Zone B
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-01	B	Low	C	KNOB RIDGE MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-02	B	Low	C	CATHEDRAL MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-03	B	Low	C	BEAVER CREEK MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-04	B	Low	C	40 - MILE AIR LTD.
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-05	B	Low	C	WESTMARK INN (TUNDRA LODGE)
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-06	B	Low	C	USCG - LORSTA TOK
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-07	B	Low	C	PARKER HOUSE
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-08	B	Low	C	THREE BEARS
Highways and roads, dirt/gravel	X24	X24-02	B	Low	C	Assume 1-20 roads in Zone B
Campgrounds and RV Parks	X35	X35-01	B	Low	C	WESTMARK INN (TUNDRA LODGE)

Table 4

Contaminant Source Inventory and Risk Ranking for UTDC / Tok Community Center Sources of Volatile Organic Chemicals

PWSID 380078.001

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	A	Low	C	GOLDEN BEAR CAMPER PARK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	A	Low	C	GOLDEN BEAR MOTEL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	A	Low	C	TOK-LODGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-04	A	Low	C	TUNDRA LODGE-MAIN LODGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-05	A	Low	C	VALLEY BAKERY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-06	A	Low	C	AKGATEWAY SD-TOK SCHOOL FLD
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-07	A	Low	C	AKGATEWAY SD-TOK SCHOOLS
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-08	A	Low	C	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-09	A	Low	C	
Pit toilets (open hole), nonresidential (one or more)	D16	D16-01	A	Low	C	Assume 50 or less pit toilets/outhouses in Zone A
Septic systems (serves one single-family home)	R02	R02-01	A	Low	C	Assume 75 or less individual septic systems in Zone A
Tanks, heating oil, residential (above ground)	R08	R08-01	A	Medium	C	Assume 75 or less residential heating oil tanks in Zone A
Tanks, diesel (above ground)	T06	T06-01	A	Medium	C	
Tanks, diesel (above ground)	T06	T06-02	A	Medium	C	
Tanks, diesel (above ground)	T06	T06-02	A	Medium	C	
Tanks, gasoline (above ground)	T10	T10-01	A	Medium	C	
Tanks, heating oil, nonresidential (aboveground)	T14	T14-01	A	Low	C	

Table 4 (continued)

Contaminant Source Inventory and Risk Ranking for UTDC / Tok Community Center Sources of Volatile Organic Chemicals

PWSID 380078.001

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	A	Low	C	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-01	A	High	C	Tundra Lodge and RV Park. Reckey: 1990330116301. Status: No Further Remedial Action Planned. 2 leaking 10,000-gallon heating oil tanks. Groundwater @ 60 ft. is contaminated.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-02	A	High	C	ADOT&PF Northway Maintenance Camp. Reckey: 1988330111101. Status: Inactive. Undetermined amount of fuel spilled during operation of pipeline contaminated the groundwater supply.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-03	A	High	C	Walter Northway School. Reckey: 1988330121801. Status: No Further Remedial Action Planned. Broken fuel line between above ground tank battery and school resulted in unquantified loss of #1 heating oil in 1988.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-04	A	High	C	Tok River Wayside Campground. Reckey: 1988330129108. Status: Inactive. Well at campground found to contain benzene in 1983. Possible source is 1976 heating oil contamination of well at USCG LORAN station.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-05	A	High	C	USCG Tok Loran Station. Reckey: 1988330129120. Status: Inactive. Well casing filled by mistake with fuel in early 1980s.1986 spill of oil and possibly solvents and glycol from cracked 100 gallon sump.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-06	A	High	C	Tundra Lodge and RV Park. Reckey: 1990330116301. Status: No Further Remedial Action Planned. 2 leaking 10,000-gallon heating oil tanks. Groundwater @ 60 ft. is contaminated.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-07	A	High	C	FDIC 40-Mile Roadhouse, Tetlin Jct. Reckey: 1990330914501. Status: Inactive. 5 USTs located on the property; leaking drums on property may contain "cutback" asphalt and other substances.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-08	A	High	C	Alaska Power & Telephone. Reckey: 1991330131202. Status: Closed. Diesel fuel leak from day tank inside of building.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-09	A	High	C	Tok Tesoro. Reckey: 1991330931201. Status: Inactive. Leaking UST storing leaded, unleaded gas and/or diesel. Also surface spills from overfilling of bulk tanks.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-10	A	High	C	ADOT/PF Tok HOT 234-3G. Reckey: 1992330934901. Status: Inactive. Closure of HOT which failed Tracer Tight (TT) leak test indicates contamination as great as 9000 ppm at depth of 11 feet. 70 cubic yards of soil has been stockpiled on site.
Petroleum product bulk station/terminals	X11	X11-01	A	Very High	C	Assume two petroleum product bulk station/terminals in Zone A

Table 4 (continued)

Contaminant Source Inventory and Risk Ranking for UTDC / Tok Community Center Sources of Volatile Organic Chemicals

Contaminant Source Type	*Contaminant Source ID*	*CS ID tag*	*Zone*	*Risk Ranking for Analysis*	*Map Number*	*Comments*
Highways and roads, dirt/gravel	X24	X24-01	A	Low	C	Assume 1-20 roads in Zone A
Campgrounds and RV Parks	X35	X35-01	A	Low	C	Tundra Lodge and RV Park
Gasoline stations (without repair shop)	C15	C15-01	B	High	C	NORTHERN ENERGY CORP.
Gasoline stations (without repair shop)	C15	C15-02	B	High	C	TOK SAVEWAY
Gasoline stations (without repair shop)	C15	C15-03	B	High	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Gasoline stations (with repair shop)	C16	C16-01	B	High	C	YOUNG'S CHEVRON
Motor /motor vehicle repair shops	C31	C31-01	B	Medium	C	WILLARD'S AUTO, ELEC, & GAS
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D01-01	B	Low	C	
Honey bucket disposal areas (community)	D07	D07-01	B	Low	C	Assume one honey bucket disposal area in Zone B
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-10	B	Low	C	MI OIL CO, INC./10-20 CB
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-11	B	Low	C	BLM-40 MI RESOURCE/TOK WELL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-12	B	Low	C	BLM-WALKER FORK CAMPGROUND
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-13	B	Low	C	GATEWAY SALMON BAKE/KRANENBURG
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-14	B	Low	C	SHEFFIELD TOK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-15	B	Low	C	SHEN BIBLE CAMP
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-16	B	Low	C	TOK-COMBINED FAC
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-17	B	Low	C	TOK-COMMUNITY CENTER

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-18	B	Low	C	TOK-LODGE MOTEL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-19	B	Low	C	TOK-LODGE QUICK STOP
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-20	B	Low	C	TOK-RV PARK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-21	B	Low	C	WADSWORTH CAMPER CITY/CABANA
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-22	B	Low	C	YOUNGS CAF+
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-23	B	Low	C	HUSKY LOUNGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-24	B	Low	C	1260 INN
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-25	B	Low	C	IRON DOG OUTFITTERS
Pit toilets (open hole), nonresidential (one or more)	D16	D16-02	B	Low	C	Assume 150 or less pit toilets/outhouses in Zone B
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-01	B	High	C	YOUNG'S CHEVRON
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-02	B	High	C	ADOTPF MAINTENANCE STATION
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-03	B	High	C	VILLAGE TEXACO
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-04	B	High	C	WADSWORTH TEXACO
Residential Areas	R01	R01-01	B	Low	C	lawns and gardens
Septic systems (serves one single-family home)	R02	R02-02	B	Low	C	Assume 225 or less individual septic systems in Zone B
Tanks, heating oil, residential (above ground)	R08	R08-02	B	Medium	C	Assume 225 or less residential heating oil tanks in Zone B

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Tanks, diesel (underground)	T08	T08-01	B	High	C	KNOB RIDGE MICROWAVE REPEATER
Tanks, diesel (underground)	T08	T08-02	B	High	C	CATHEDRAL MICROWAVE REPEATER
Tanks, diesel (underground)	T08	T08-03	B	High	C	BEAVER CREEK MICROWAVE REPEATER
Tanks, diesel (underground)	T08	T08-04	B	High	C	NORTHERN ENERGY CORP.
Tanks, diesel (underground)	T08	T08-05	B	High	C	YOUNG'S CHEVRON
Tanks, diesel (underground)	T08	T08-06	B	High	C	US BORDER STATIONTok
Tanks, diesel (underground)	T08	T08-07	B	High	C	US BORDER STATIONTok
Tanks, diesel (underground)	T08	T08-08	B	High	C	ADOTPF - TOK MAINTENANCE
Tanks, diesel (underground)	T08	T08-09	B	High	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Closed tanks, diesel (underground)	T09	T09-01	B	Medium	C	YOUNG'S CHEVRON
Closed tanks, diesel (underground)	T09	T09-02	B	Medium	C	WESTMARK INN (TUNDRA LODGE)
Closed tanks, diesel (underground)	T09	T09-03	B	Medium	C	TOK POWER PLANT
Closed tanks, diesel (underground)	T09	T09-04	B	Medium	C	CARSON TURBO HELICOPTERS
Closed tanks, diesel (underground)	T09	T09-05	B	Medium	C	CARSON TURBO HELICOPTERS
Closed tanks, diesel (underground)	T09	T09-06	B	Medium	C	ADOTPF - Tok Maintenance Station
Closed tanks, diesel (underground)	T09	T09-07	B	Medium	C	ADOTPF - Tok Maintenance Station
Closed tanks, diesel (underground)	T09	T09-08	B	Medium	C	ADOTPF - Tok Maintenance Station
Closed tanks, diesel (underground)	T09	T09-09	B	Medium	C	ADOTPF - TOK MAINTENANCE
Tanks, gasoline (above ground)	T10	T10-02	B	Medium	C	
Tanks, gasoline (underground)	T12	T12-01	B	High	C	NORTHERN ENERGY CORP.

Table 4 (continued)

Contaminant Source Inventory and Risk Ranking for UTDC / Tok Community Center Sources of Volatile Organic Chemicals

Contaminant Source Type	*Contaminant Source ID*	*CS ID tag*	*Zone*	*Risk Ranking for Analysis*	*Map Number*	*Comments*
Tanks, gasoline (underground)	T12	T12-02	B	High	C	NORTHERN ENERGY CORP.
Tanks, gasoline (underground)	T12	T12-03	B	High	C	TOK SAVEWAY
Tanks, gasoline (underground)	T12	T12-04	B	High	C	YOUNG'S CHEVRON
Tanks, gasoline (underground)	T12	T12-05	B	High	C	YOUNG'S CHEVRON
Tanks, gasoline (underground)	T12	T12-06	B	High	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Tanks, gasoline (underground)	T12	T12-07	B	High	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Closed tanks, gasoline (underground)	T13	T13-01	B	Medium	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Closed tanks, gasoline (underground)	T13	T13-02	B	Medium	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-03	B	Medium	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-04	B	Medium	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-05	B	Medium	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-06	B	Medium	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-07	B	Medium	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-08	B	Medium	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-09	B	Medium	C	YOUNG'S CHEVRON
Closed tanks, gasoline (underground)	T13	T13-10	B	Medium	C	WESTMARK INN (TUNDRA LODGE)
Closed tanks, gasoline (underground)	T13	T13-11	B	Medium	C	WESTMARK INN (TUNDRA LODGE)
Closed tanks, gasoline (underground)	T13	T13-12	B	Medium	C	ADOTPF - Tok Maintenance Station
Tanks, heating oil, nonresidential (underground)	T16	T16-01	B	Low	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Tanks, heating oil, nonresidential (underground)	T16	T16-02	B	Low	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.

Table 4 (continued)

Contaminant Source Inventory and Risk Ranking for UTDC / Tok Community Center

Sources of Volatile Organic Chemicals

Contaminant Source Type	*Contaminant Source ID*	*CS ID tag*	*Zone*	*Risk Ranking for Analysis*	*Map Number*	*Comments*
Tanks, heating oil, nonresidential (underground)	T16	T16-03	B	Low	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Closed tanks, heating oil, nonresidential (underground)	T17	T17-01	B	Medium	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Closed tanks, heating oil, nonresidential (underground)	T17	T17-02	B	Medium	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Closed tanks, heating oil, nonresidential (underground)	T17	T17-03	B	Medium	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Closed tanks, heating oil, nonresidential (underground)	T17	T17-04	B	Medium	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Closed tanks, heating oil, nonresidential (underground)	T17	T17-05	B	Medium	C	USCG - LORSTA TOK
Closed Wastewater Holding Tank	T23	T23-01	B	Low	C	ADOTPF - TOK
Closed Wastewater Holding Tank	T23	T23-02	B	Low	C	ADOTPF - TOK
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-11	B	High	C	Alaska Power & Telephone. Reckey: 1991330131202. Status: Closed. Diesel fuel leak from day tank inside of building.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-12	B	High	C	USCG Tok Loran Station. Reckey: 1988330129120. Status: Inactive. Well casing filled by mistake with fuel in early 1980s.1986 spill of oil and possibly solvents and glycol from cracked 100 gallon sump.
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-01	B	High	C	ADOTPF - O'BRIEN CREEK
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-02	B	High	C	NORTHERN ENERGY CORP.
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-03	B	High	C	FORMER VETERAN'S AIR SERVICE INC
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-04	B	High	C	ADFG -
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-05	B	High	C	YOUNG'S CHEVRON

Table 4 (continued)

Contaminant Source Inventory and Risk Ranking for UTDC / Tok Community Center

Sources of Volatile Organic Chemicals

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	U07-06	B	High	C	US BORDER STATIONTok
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-07	B	High	C	WILLARD'S AUTO, ELEC, & GAS
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-08	B	High	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-09	B	High	C	CROZIER INVESTMENTS
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-10	B	High	C	Tanacross Administrative Site
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-11	B	High	C	Tanacross Airfield
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-01	B	High	C	KNOB RIDGE MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-02	B	High	C	CATHEDRAL MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-03	B	High	C	BEAVER CREEK MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-04	B	High	C	40 - MILE AIR LTD.
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-05	B	High	C	WESTMARK INN (TUNDRA LODGE)
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-06	B	High	C	USCG - LORSTA TOK
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-07	B	High	C	PARKER HOUSE
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-08	B	High	C	THREE BEARS
Petroleum product bulk station/terminals	X11	X11-02	B	Very High	C	Assume two petroleum product bulk station/terminals in Zone B
Highways and roads, dirt/gravel	X24	X24-02	B	Low	C	Assume 1-20 roads in Zone B

Contaminant Source Inventory and Risk Ranking for
UTDC / Tok Community Center
Sources of Volatile Organic Chemicals

Contaminant Source Type	***Contaminant Source ID***	***CS ID tag***	***Zone***	***Risk Ranking for Analysis***	***Map Number***	***Comments***
Campgrounds and RV Parks	X35	X35-01	B	Low	C	WESTMARK INN (TUNDRA LODGE)
Electric power generation (fossil fuels)	X36	X36-01	B	Medium	C	Alaska Power & Telephone

Table 5

Contaminant Source Inventory and Risk Ranking for UTDC / Tok Community Center Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals

PWSID 380078.001

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	A	Low	C	GOLDEN BEAR CAMPER PARK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	A	Low	C	GOLDEN BEAR MOTEL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	A	Low	C	TOK-LODGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-04	A	Low	C	TUNDRA LODGE-MAIN LODGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-05	A	Low	C	VALLEY BAKERY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-06	A	Low	C	AKGATEWAY SD-TOK SCHOOL FLD
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-07	A	Low	C	AKGATEWAY SD-TOK SCHOOLS
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-08	A	Low	C	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-09	A	Low	C	
Pit toilets (open hole), nonresidential (one or more)	D16	D16-01	A	Low	C	Assume 50 or less pit toilets/outhouses in Zone A
Septic systems (serves one single-family home)	R02	R02-01	A	Low	C	Assume 75 or less individual septic systems in Zone A
Tanks, gasoline (above ground)	T10	T10-01	A	Medium	C	
Tanks, heating oil, nonresidential (aboveground)	T14	T14-01	A	Low	C	
Tanks, heating oil, nonresidential (aboveground)	T14	T14-02	A	Low	C	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-01	A	Low	C	Tundra Lodge and RV Park. Reckey: 1990330116301. Status: No Further Remedial Action Planned. 2 leaking 10,000-gallon heating oil tanks. Groundwater @ 60 ft. is contaminated.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-02	A	Low	C	ADOT&PF Northway Maintenance Camp. Reckey: 1988330111101. Status: Inactive. Undetermined amount of fuel spilled during operation of pipeline contaminated the groundwater supply.

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	U04-03	A	Low	C	Walter Northway School. Reckey: 1988330121801. Status: No Further Remedial Action Planned. Broken fuel line between above ground tank battery and school resulted in unquantified loss of #1 heating oil in 1988.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-04	A	Low	C	Tok River Wayside Campground. Reckey: 1988330129108. Status: Inactive. Well at campground found to contain benzene in 1983. Possible source is 1976 heating oil contamination of well at USCG LORAN station.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-05	A	Low	C	USCG Tok Loran Station. Reckey: 1988330129120. Status: Inactive. Well casing filled by mistake with fuel in early 1980s.1986 spill of oil and possibly solvents and glycol from cracked 100 gallon sump.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-06	A	Low	C	Tundra Lodge and RV Park. Reckey: 1990330116301. Status: No Further Remedial Action Planned. 2 leaking 10,000-gallon heating oil tanks. Groundwater @ 60 ft. is contaminated.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-07	A	Low	C	FDIC 40-Mile Roadhouse, Tetlin Jct. Reckey: 1990330914501. Status: Inactive. 5 USTs located on the property; leaking drums on property may contain "cutback" asphalt and other substances.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-08	A	Low	C	Alaska Power & Telephone. Reckey: 1991330131202. Status: Closed. Diesel fuel leak from day tank inside of building.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-09	A	Low	C	Tok Tesoro. Reckey: 1991330931201. Status: Inactive. Leaking UST storing leaded, unleaded gas and/or diesel. Also surface spills from overfilling of bulk tanks.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-10	A	Low	C	ADOT/PF Tok HOT 234-3G. Reckey: 1992330934901. Status: Inactive. Closure of HOT which failed Tracer Tight (TT) leak test indicates contamination as great as 9000 ppm at depth of 11 feet. 70 cubic yards of soil has been stockpiled on site.
Petroleum product bulk station/terminals	X11	X11-01	A	Low	C	Assume two petroleum product bulk station/terminals in Zone A
Highways and roads, dirt/gravel	X24	X24-01	A	Low	C	Assume 1-20 roads in Zone A
Gasoline stations (without repair shop)	C15	C15-01	B	Low	C	NORTHERN ENERGY CORP.
Gasoline stations (without repair shop)	C15	C15-02	B	Low	C	TOK SAVEWAY
Gasoline stations (without repair shop)	C15	C15-03	B	Low	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Gasoline stations (with repair shop)	C16	C16-01	B	Low	C	YOUNG'S CHEVRON

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	B	Medium	C	WILLARD'S AUTO, ELEC, & GAS
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D01-01	B	Low	C	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-10	B	Low	C	MI OIL CO, INC./10-20 CB
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-11	B	Low	C	BLM-40 MI RESOURCE/TOK WELL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-12	B	Low	C	BLM-WALKER FORK CAMPGROUND
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-13	B	Low	C	GATEWAY SALMON BAKE/KRANENBURG
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-14	B	Low	C	SHEFFIELD TOK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-15	B	Low	C	SHEN BIBLE CAMP
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-16	B	Low	C	TOK-COMBINED FAC
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-17	B	Low	C	TOK-COMMUNITY CENTER
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-18	B	Low	C	TOK-LODGE MOTEL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-19	B	Low	C	TOK-LODGE QUICK STOP
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-20	B	Low	C	TOK-RV PARK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-21	B	Low	C	WADSWORTH CAMPER CITY/CABANA
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-22	B	Low	C	YOUNGS CAF+

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-23	B	Low	C	HUSKY LOUNGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-24	B	Low	C	1260 INN
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-25	B	Low	C	IRON DOG OUTFITTERS
Pit toilets (open hole), nonresidential (one or more)	D16	D16-02	B	Low	C	Assume 150 or less pit toilets/outhouses in Zone B
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-01	B	High	C	YOUNG'S CHEVRON
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-02	B	High	C	ADOTPF MAINTENANCE STATION
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-03	B	High	C	VILLAGE TEXACO
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-04	B	High	C	WADSWORTH TEXACO
Residential Areas	R01	R01-01	B	Low	C	lawns and gardens
Septic systems (serves one single-family home)	R02	R02-02	B	Low	C	Assume 225 or less individual septic systems in Zone B
Tanks, gasoline (above ground)	T10	T10-02	B	Medium	C	
Tanks, gasoline (underground)	T12	T12-01	B	Medium	C	NORTHERN ENERGY CORP.
Tanks, gasoline (underground)	T12	T12-02	B	Medium	C	NORTHERN ENERGY CORP.
Tanks, gasoline (underground)	T12	T12-03	B	Medium	C	TOK SAVEWAY
Tanks, gasoline (underground)	T12	T12-04	B	Medium	C	YOUNG'S CHEVRON
Tanks, gasoline (underground)	T12	T12-05	B	Medium	C	YOUNG'S CHEVRON
Tanks, gasoline (underground)	T12	T12-06	B	Medium	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Tanks, gasoline (underground)	T12	T12-07	B	Medium	C	NORTHSTAR - PCA TRUCKSTOP & CAFE

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Tanks, heating oil, nonresidential (underground)	T16	T16-01	B	Low	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Tanks, heating oil, nonresidential (underground)	T16	T16-02	B	Low	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Tanks, heating oil, nonresidential (underground)	T16	T16-03	B	Low	C	6TH INF.DIV.(LT.)& U.S.ARMY GAR.
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-01	B	Medium	C	ADOTPF- Tok Maintenance
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-02	B	Medium	C	ADOTPF - TOK MAINTENANCE
Closed Wastewater Holding Tank	T23	T23-01	B	Low	C	ADOTPF - TOK
Closed Wastewater Holding Tank	T23	T23-02	B	Low	C	ADOTPF - TOK
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-11	B	Low	C	Alaska Power & Telephone. Reckey: 1991330131202. Status: Closed. Diesel fuel leak from day tank inside of building.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-12	B	Low	C	USCG Tok Loran Station. Reckey: 1988330129120. Status: Inactive. Well casing filled by mistake with fuel in early 1980s.1986 spill of oil and possibly solvents and glycol from cracked 100 gallon sump.
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-01	B	Low	C	KNOB RIDGE MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-02	B	Low	C	CATHEDRAL MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-03	B	Low	C	BEAVER CREEK MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-04	B	Low	C	40 - MILE AIR LTD.
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-05	B	Low	C	WESTMARK INN (TUNDRA LODGE)
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-06	B	Low	C	USCG - LORSTA TOK
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-07	B	Low	C	PARKER HOUSE

Table 5 (continued)

Contaminant Source Inventory and Risk Ranking for
UTDC / Tok Community Center
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*
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-08	B	Low	C	THREE BEARS
Petroleum product bulk station/terminals	X11	X11-02	B	Low	C	Assume two petroleum product bulk station/terminals in Zone B
Highways and roads, dirt/gravel	X24	X24-02	B	Low	C	Assume 1-20 roads in Zone B
Electric power generation (fossil fuels)	X36	X36-01	B	Medium	C	Alaska Power & Telephone

Table 6

Contaminant Source Inventory and Risk Ranking for UTDC / Tok Community Center Sources of Synthetic Organic Chemicals

PWSID 380078.001

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	A	Low	C	GOLDEN BEAR CAMPER PARK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	A	Low	C	GOLDEN BEAR MOTEL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	A	Low	C	TOK-LODGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-04	A	Low	C	TUNDRA LODGE-MAIN LODGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-05	A	Low	C	VALLEY BAKERY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-06	A	Low	C	AKGATEWAY SD-TOK SCHOOL FLD
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-07	A	Low	C	AKGATEWAY SD-TOK SCHOOLS
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-08	A	Low	C	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-09	A	Low	C	
Septic systems (serves one single-family home)	R02	R02-01	A	Low	C	Assume 75 or less individual septic systems in Zone A
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-01	A	Low	C	Tundra Lodge and RV Park. Reckey: 1990330116301. Status: No Further Remedial Action Planned. 2 leaking 10,000-gallon heating oil tanks. Groundwater @ 60 ft. is contaminated.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-02	A	Low	C	ADOT&PF Northway Maintenance Camp. Reckey: 1988330111101. Status: Inactive. Undetermined amount of fuel spilled during operation of pipeline contaminated the groundwater supply.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-03	A	Low	C	Walter Northway School. Reckey: 1988330121801. Status: No Further Remedial Action Planned. Broken fuel line between above ground tank battery and school resulted in unquantified loss of #1 heating oil in 1988.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-04	A	Low	C	Tok River Wayside Campground. Reckey: 1988330129108. Status: Inactive. Well at campground found to contain benzene in 1983. Possible source is 1976 heating oil contamination of well at USCG LORAN station.

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	U04-05	A	Low	C	USCG Tok Loran Station. Reckey: 1988330129120. Status: Inactive. Well casing filled by mistake with fuel in early 1980s.1986 spill of oil and possibly solvents and glycol from cracked 100 gallon sump.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-06	A	Low	C	Tundra Lodge and RV Park. Reckey: 1990330116301. Status: No Further Remedial Action Planned. 2 leaking 10,000-gallon heating oil tanks. Groundwater @ 60 ft. is contaminated.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-07	A	Low	C	FDIC 40-Mile Roadhouse, Tetlin Jct. Reckey: 1990330914501. Status: Inactive. 5 USTs located on the property; leaking drums on property may contain "cutback" asphalt and other substances.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-08	A	Low	C	Alaska Power & Telephone. Reckey: 1991330131202. Status: Closed. Diesel fuel leak from day tank inside of building.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-09	A	Low	C	Tok Tesoro. Reckey: 1991330931201. Status: Inactive. Leaking UST storing leaded, unleaded gas and/or diesel. Also surface spills from overfilling of bulk tanks.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-10	A	Low	C	ADOT/PF Tok HOT 234-3G. Reckey: 1992330934901. Status: Inactive. Closure of HOT which failed Tracer Tight (TT) leak test indicates contamination as great as 9000 ppm at depth of 11 feet. 70 cubic yards of soil has been stockpiled on site.
Petroleum product bulk station/terminals	X11	X11-01	A	Low	C	Assume two petroleum product bulk station/terminals in Zone A
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D01-01	B	Low	C	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-10	B	Low	C	MI OIL CO, INC./10-20 CB
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-11	B	Low	C	BLM-40 MI RESOURCE/TOK WELL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-12	B	Low	C	BLM-WALKER FORK CAMPGROUND
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-13	B	Low	C	GATEWAY SALMON BAKE/KRANENBURG
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-14	B	Low	C	SHEFFIELD TOK

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-15	B	Low	C	SHEN BIBLE CAMP
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-16	B	Low	C	TOK-COMBINED FAC
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-17	B	Low	C	TOK-COMMUNITY CENTER
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-18	B	Low	C	TOK-LODGE MOTEL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-19	B	Low	C	TOK-LODGE QUICK STOP
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-20	B	Low	C	TOK-RV PARK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-21	B	Low	C	WADSWORTH CAMPER CITY/CABANA
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-22	B	Low	C	YOUNGS CAF+
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-23	B	Low	C	HUSKY LOUNGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-24	B	Low	C	1260 INN
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-25	B	Low	C	IRON DOG OUTFITTERS
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-01	B	Low	C	YOUNG'S CHEVRON
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-02	B	Low	C	ADOTPF MAINTENANCE STATION
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-03	B	Low	C	VILLAGE TEXACO
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-04	B	Low	C	WADSWORTH TEXACO

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Residential Areas	R01	R01-01	B	Low	C	lawns and gardens
Septic systems (serves one single-family home)	R02	R02-02	B	Low	C	Assume 225 or less individual septic systems in Zone B
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-11	B	Low	C	Alaska Power & Telephone. Reckey: 1991330131202. Status: Closed. Diesel fuel leak from day tank inside of building.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-12	B	Low	C	USCG Tok Loran Station. Reckey: 1988330129120. Status: Inactive. Well casing filled by mistake with fuel in early 1980s.1986 spill of oil and possibly solvents and glycol from cracked 100 gallon sump.
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-01	B	Low	C	ADOTPF - O'BRIEN CREEK
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-02	B	Low	C	NORTHERN ENERGY CORP.
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-03	B	Low	C	FORMER VETERAN'S AIR SERVICE INC
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-04	B	Low	C	ADFG -
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-05	B	Low	C	YOUNG'S CHEVRON
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-06	B	Low	C	US BORDER STATIONTok
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-07	B	Low	C	WILLARD'S AUTO, ELEC, & GAS
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-08	B	Low	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-09	B	Low	C	CROZIER INVESTMENTS
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-10	B	Low	C	Tanacross Administrative Site
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-11	B	Low	C	Tanacross Airfield

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-01	B	Low	C	KNOB RIDGE MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-02	B	Low	C	CATHEDRAL MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-03	B	Low	C	BEAVER CREEK MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-04	B	Low	C	40 - MILE AIR LTD.
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-05	B	Low	C	WESTMARK INN (TUNDRA LODGE)
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-06	B	Low	C	USCG - LORSTA TOK
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-07	B	Low	C	PARKER HOUSE
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-08	B	Low	C	THREE BEARS
Petroleum product bulk station/terminals	X11	X11-02	B	Low	C	Assume two petroleum product bulk station/terminals in Zone B

Table 7

Contaminant Source Inventory and Risk Ranking for UTDC / Tok Community Center Sources of Other Organic Chemicals

PWSID 380078.001

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	A	Low	C	GOLDEN BEAR CAMPER PARK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	A	Low	C	GOLDEN BEAR MOTEL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	A	Low	C	TOK-LODGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-04	A	Low	C	TUNDRA LODGE-MAIN LODGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-05	A	Low	C	VALLEY BAKERY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-06	A	Low	C	AKGATEWAY SD-TOK SCHOOL FLD
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-07	A	Low	C	AKGATEWAY SD-TOK SCHOOLS
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-08	A	Low	C	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-09	A	Low	C	
Septic systems (serves one single-family home)	R02	R02-01	A	Low	C	Assume 75 or less individual septic systems in Zone A
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-01	A	Low	C	Tundra Lodge and RV Park. Reckey: 1990330116301. Status: No Further Remedial Action Planned. 2 leaking 10,000-gallon heating oil tanks. Groundwater @ 60 ft. is contaminated.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-02	A	Low	C	ADOT&PF Northway Maintenance Camp. Reckey: 1988330111101. Status: Inactive. Undetermined amount of fuel spilled during operation of pipeline contaminated the groundwater supply.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-03	A	Low	C	Walter Northway School. Reckey: 1988330121801. Status: No Further Remedial Action Planned. Broken fuel line between above ground tank battery and school resulted in unquantified loss of #1 heating oil in 1988.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-04	A	Low	C	Tok River Wayside Campground. Reckey: 1988330129108. Status: Inactive. Well at campground found to contain benzene in 1983. Possible source is 1976 heating oil contamination of well at USCG LORAN station.

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	U04-05	A	Low	C	USCG Tok Loran Station. Reckey: 1988330129120. Status: Inactive. Well casing filled by mistake with fuel in early 1980s.1986 spill of oil and possibly solvents and glycol from cracked 100 gallon sump.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-06	A	Low	C	Tundra Lodge and RV Park. Reckey: 1990330116301. Status: No Further Remedial Action Planned. 2 leaking 10,000-gallon heating oil tanks. Groundwater @ 60 ft. is contaminated.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-07	A	Low	C	FDIC 40-Mile Roadhouse, Tetlin Jct. Reckey: 1990330914501. Status: Inactive. 5 USTs located on the property; leaking drums on property may contain "cutback" asphalt and other substances.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-08	A	Low	C	Alaska Power & Telephone. Reckey: 1991330131202. Status: Closed. Diesel fuel leak from day tank inside of building.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-09	A	Low	C	Tok Tesoro. Reckey: 1991330931201. Status: Inactive. Leaking UST storing leaded, unleaded gas and/or diesel. Also surface spills from overfilling of bulk tanks.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-10	A	Low	C	ADOT/PF Tok HOT 234-3G. Reckey: 1992330934901. Status: Inactive. Closure of HOT which failed Tracer Tight (TT) leak test indicates contamination as great as 9000 ppm at depth of 11 feet. 70 cubic yards of soil has been stockpiled on site.
Petroleum product bulk station/terminals	X11	X11-01	A	High	C	Assume two petroleum product bulk station/terminals in Zone A
Highways and roads, dirt/gravel	X24	X24-01	A	Low	C	Assume 1-20 roads in Zone A
Gasoline stations (without repair shop)	C15	C15-01	B	Low	C	NORTHERN ENERGY CORP.
Gasoline stations (without repair shop)	C15	C15-02	B	Low	C	TOK SAVEWAY
Gasoline stations (without repair shop)	C15	C15-03	B	Low	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Gasoline stations (with repair shop)	C16	C16-01	B	Medium	C	YOUNG'S CHEVRON
Motor /motor vehicle repair shops	C31	C31-01	B	Medium	C	WILLARD'S AUTO, ELEC, & GAS
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D01-01	B	Low	C	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-10	B	Low	C	MI OIL CO, INC./10-20 CB

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-11	B	Low	C	BLM-40 MI RESOURCE/TOK WELL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-12	B	Low	C	BLM-WALKER FORK CAMPGROUND
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-13	B	Low	C	GATEWAY SALMON BAKE/KRANENBURG
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-14	B	Low	C	SHEFFIELD TOK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-15	B	Low	C	SHEN BIBLE CAMP
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-16	B	Low	C	TOK-COMBINED FAC
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-17	B	Low	C	TOK-COMMUNITY CENTER
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-18	B	Low	C	TOK-LODGE MOTEL
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-19	B	Low	C	TOK-LODGE QUICK STOP
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-20	B	Low	C	TOK-RV PARK
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-21	B	Low	C	WADSWORTH CAMPER CITY/CABANA
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-22	B	Low	C	YOUNGS CAF+
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-23	B	Low	C	HUSKY LOUNGE
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-24	B	Low	C	1260 INN
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-25	B	Low	C	IRON DOG OUTFITTERS

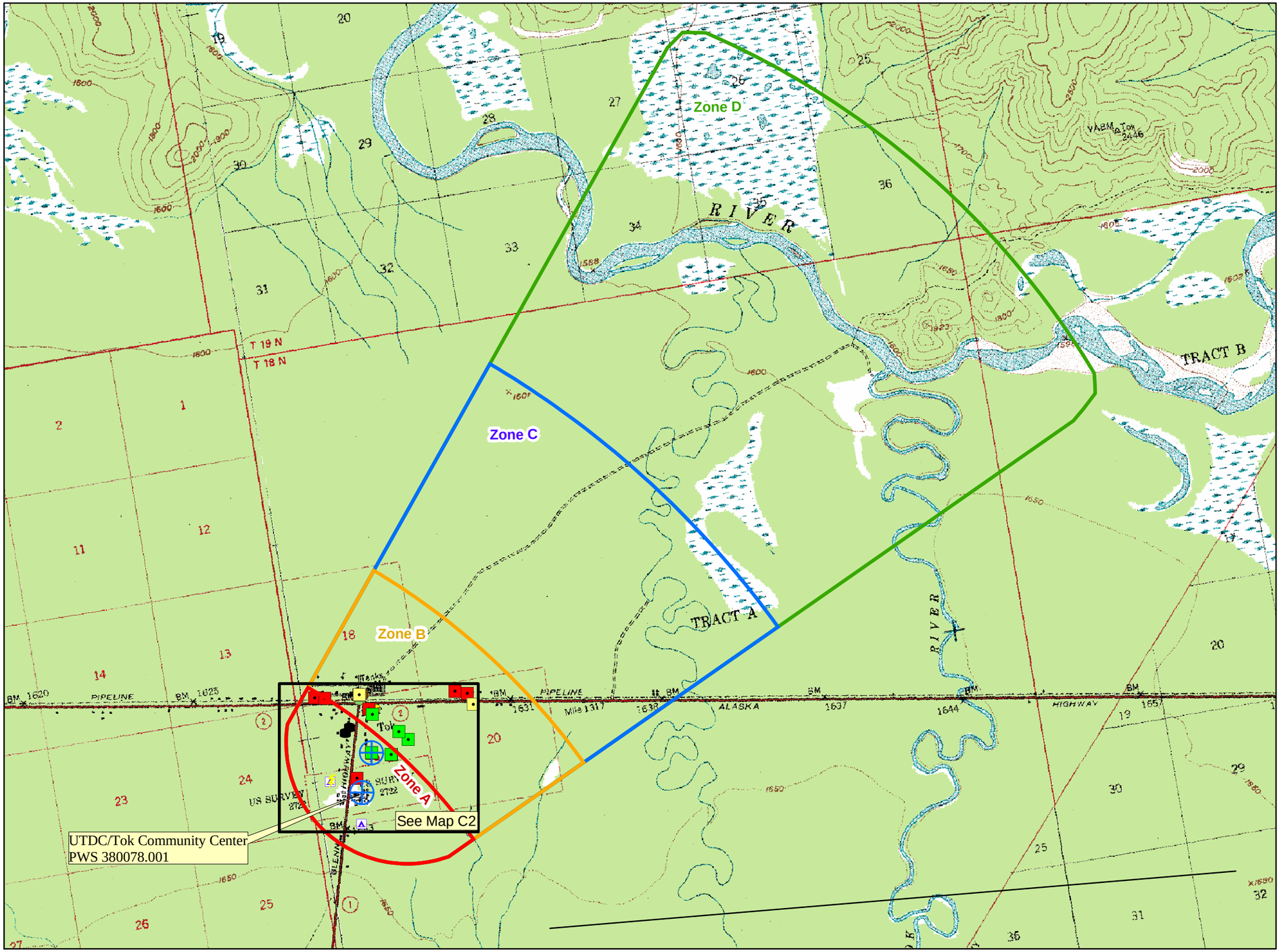
Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-01	B	Medium	C	YOUNG'S CHEVRON
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-02	B	Medium	C	ADOTPF MAINTENANCE STATION
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-03	B	Medium	C	VILLAGE TEXACO
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-04	B	Medium	C	WADSWORTH TEXACO
Residential Areas	R01	R01-01	B	Low	C	lawns and gardens
Septic systems (serves one single-family home)	R02	R02-02	B	Low	C	Assume 225 or less individual septic systems in Zone B
Closed Wastewater Holding Tank	T23	T23-01	B	Low	C	ADOTPF - TOK
Closed Wastewater Holding Tank	T23	T23-02	B	Low	C	ADOTPF - TOK
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-11	B	Low	C	Alaska Power & Telephone. Reckey: 1991330131202. Status: Closed. Diesel fuel leak from day tank inside of building.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-12	B	Low	C	USCG Tok Loran Station. Reckey: 1988330129120. Status: Inactive. Well casing filled by mistake with fuel in early 1980s.1986 spill of oil and possibly solvents and glycol from cracked 100 gallon sump.
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-01	B	Low	C	ADOTPF - O'BRIEN CREEK
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-02	B	Low	C	NORTHERN ENERGY CORP.
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-03	B	Low	C	FORMER VETERAN'S AIR SERVICE INC
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-04	B	Low	C	ADFG -
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-05	B	Low	C	YOUNG'S CHEVRON
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-06	B	Low	C	US BORDER STATIONTok

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	U07-07	B	Low	C	WILLARD'S AUTO, ELEC, & GAS
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-08	B	Low	C	NORTHSTAR - PCA TRUCKSTOP & CAFE
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-09	B	Low	C	CROZIER INVESTMENTS
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-10	B	Low	C	Tanacross Administrative Site
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-11	B	Low	C	Tanacross Airfield
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-01	B	Low	C	KNOB RIDGE MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-02	B	Low	C	CATHEDRAL MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-03	B	Low	C	BEAVER CREEK MICROWAVE REPEATER
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-04	B	Low	C	40 - MILE AIR LTD.
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-05	B	Low	C	WESTMARK INN (TUNDRA LODGE)
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-06	B	Low	C	USCG - LORSTA TOK
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-07	B	Low	C	PARKER HOUSE
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-08	B	Low	C	THREE BEARS
Petroleum product bulk station/terminals	X11	X11-02	B	High	C	Assume two petroleum product bulk station/terminals in Zone B
Highways and roads, dirt/gravel	X24	X24-02	B	Low	C	Assume 1-20 roads in Zone B
Electric power generation (fossil fuels)	X36	X36-01	B	High	C	Alaska Power & Telephone

APPENDIX C

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

Public Water Well System for PWS #380078.001 UTDC/Tok Community Center
Showing Potential and Existing Sources of Contamination



LEGEND

Public Water System Well

Hydrography/Physical

- Parcels
- Stream
- Lake or Pond
- Contours

Transportation

- Primary Route (Class 1)
- Secondary Route (Class 2)
- Road (Class 3)
- Road (Class 4)
- Road (Class 5, Four-wheel drive)

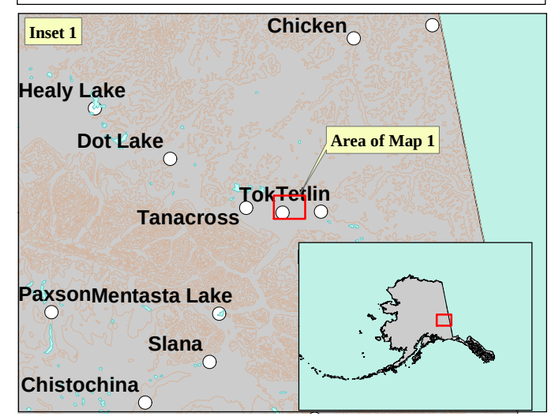
Protection Zones

- Zone A Protection Area– Several Months Travel Time
- Zone B Protection Area– 2 Years Travel Time
- Zone C Protection Area– 5 Years Travel Time
- Zone D Protection Area– 10 Years Travel Time

Data Sources:
- Contaminant Sources, Public Water System Wells, Contours Alaska Department of Environmental Conservation (ADEC)
- Critical Facilities, Federal Emergency Management Agency (FEMA)

All other data:
- United States Geological Survey (USGS)
- Drinking Water Protection Areas based on "Alaska Drinking Water Protection Program - Guidance Manual for Class A Public Water Systems" published by ADEC

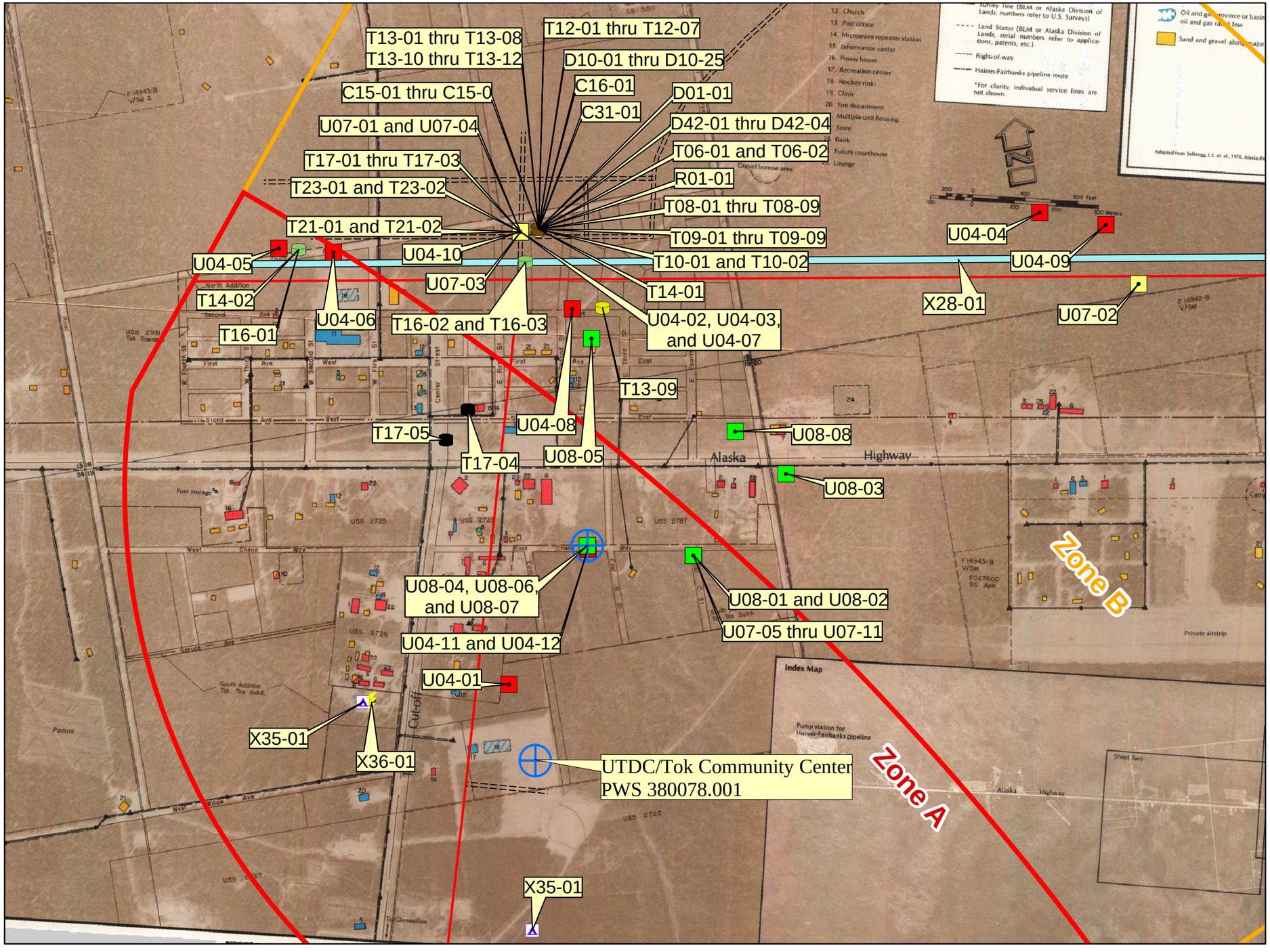
URS Corporation does not guarantee the accuracy or validity of the data provided.



0 0.4 0.8 1.6 2.4 3.2 Miles

UTDC/Tok Community Center
PWS 380078.001
Appendix C Map C1

Public Water Well System for PWS #380078.001 UTDC/Tok Community Center
Showing Potential and Existing Sources of Contamination



0 0.125 0.25 0.5 0.75 1 Miles

LEGEND

Public Water System Well

Hydrography/Physical

- Parcels
- Stream
- Lake or Pond
- Contours

Transportation

- Primary Route (Class 1)
- Secondary Route (Class 2)
- Road (Class 3)
- Road (Class 4)
- Road (Class 5, Four-wheel drive)

Protection Zones

- Zone A Protection Area– Several Months Travel Time
- Zone B Protection Area– 2 Years Travel Time
- Zone C Protection Area– 5 Years Travel Time
- Zone D Protection Area– 10 Years Travel Time

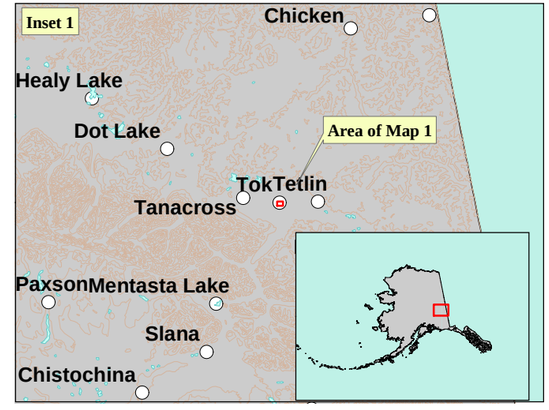
Existing or Potential Contaminant Sources

- Gasoline stations without repair shops (C15)
- Gasoline stations (with repair shop) (C16)
- Motor/motor vehicle repair shops (C31)
- Domestic wastewater collection systems (sewer lines or lift stations) (D01)
- Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method) (D10)
- Injection wells (Class V) Motor Vehicle Waste Disposal Well (D42)
- Lawns and gardens (R01)
- Tanks, diesel (above ground) (T06)
- Tanks, diesel (underground) (T08)
- Closed tanks, diesel (underground) (T09)
- Tanks, gasoline (above ground) (T10)
- Tanks, gasoline (underground) (T12)
- Closed tanks, gasoline (underground) (T13)
- Tanks, heating oil, nonresidential (aboveground) (T14)
- Tanks, heating oil, nonresidential (underground) (T16)
- Closed tanks, heating oil, nonresidential (underground) (T17)
- Closed tanks, lubricants or other petroleum products (underground) (T21)
- Closed Wastewater Holding Tank (T23)
- Contaminated sites, DEC recognized, non-Superfund, non-RCRA (U04)
- Open Leaking Underground Fuel Storage Tank (LUST) (lubricants or other petroleum products) (U07)
- Closed Leaking Underground Fuel Storage Tank (LUST) (lubricants or other petroleum products) (U08)
- Pipelines (oil and gas) (X28)
- Campgrounds and RV Parks (X35)
- Electric Power Generation (fossil fuels) (X36)

Data Sources:
- Contaminant Sources, Public Water System Wells, Contours Alaska Department of Environmental Conservation (ADEC)
- Critical Facilities, Federal Emergency Management Agency (FEMA)

All other data:
- United States Geological Survey (USGS)
- Drinking Water Protection Areas based on "Alaska Drinking Water Protection Program - Guidance Manual for Class A Public Water Systems" published by ADEC

URS Corporation does not guarantee the accuracy or validity of the data provided.



UTDC/Tok Community Center
PWS 380078.001
Appendix C Map C2

APPENDIX D

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

Chart 1. Susceptibility of the wellhead - UTDC/Tok Community Center (PWS No. 380078.001)

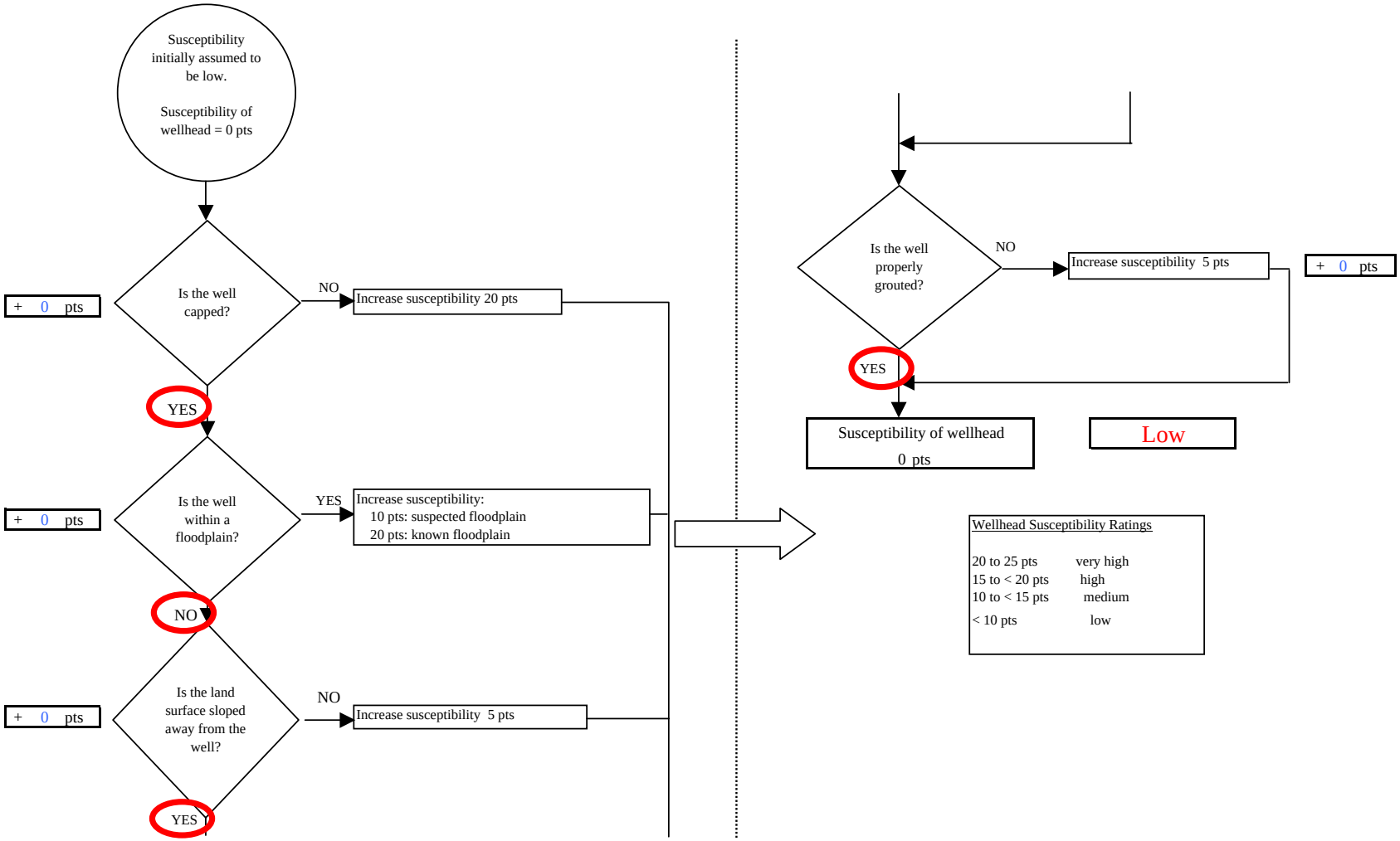


Chart 2. Susceptibility of the aquifer UTDC/Tok Community Center (PWS No. 380078.001)

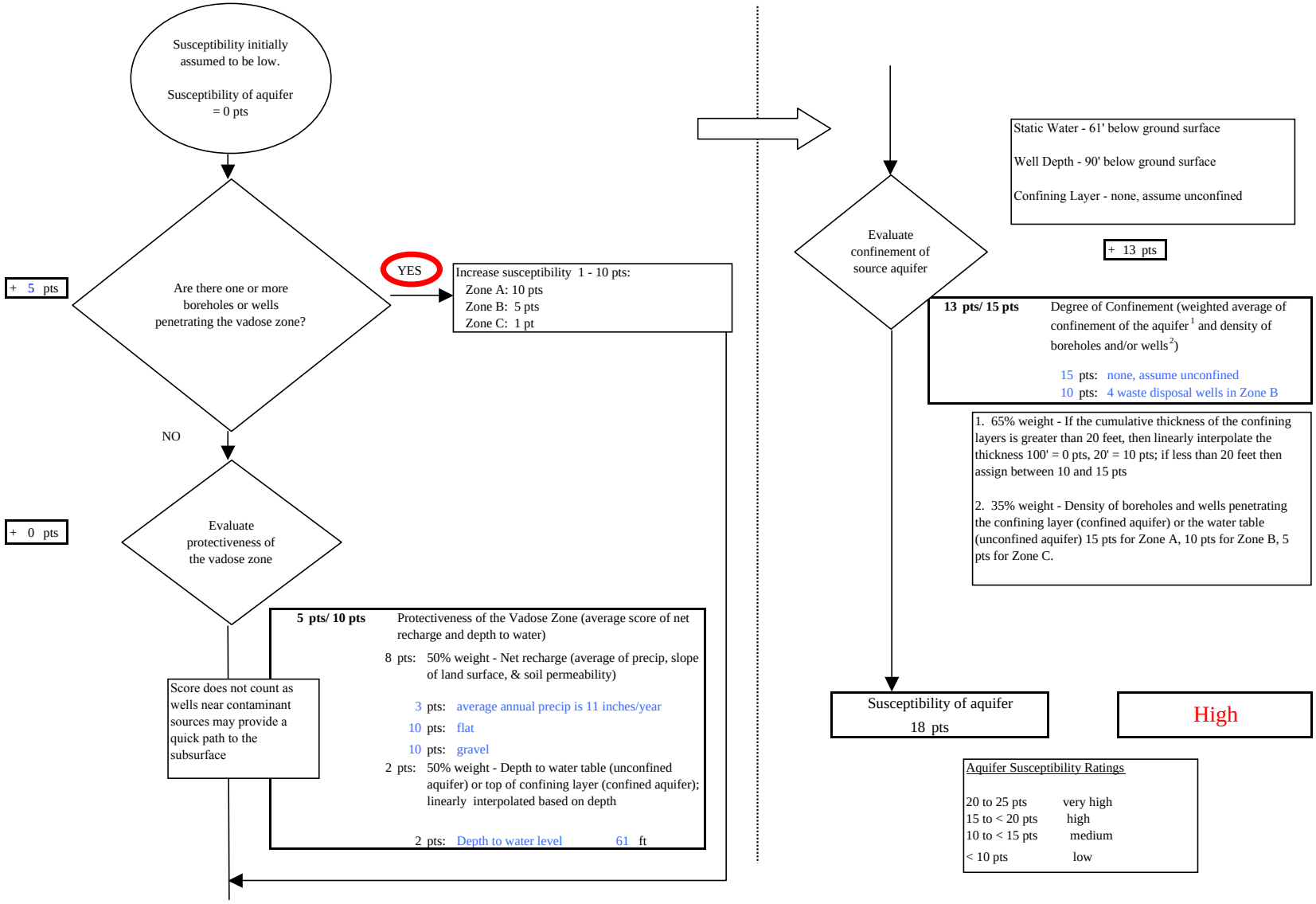
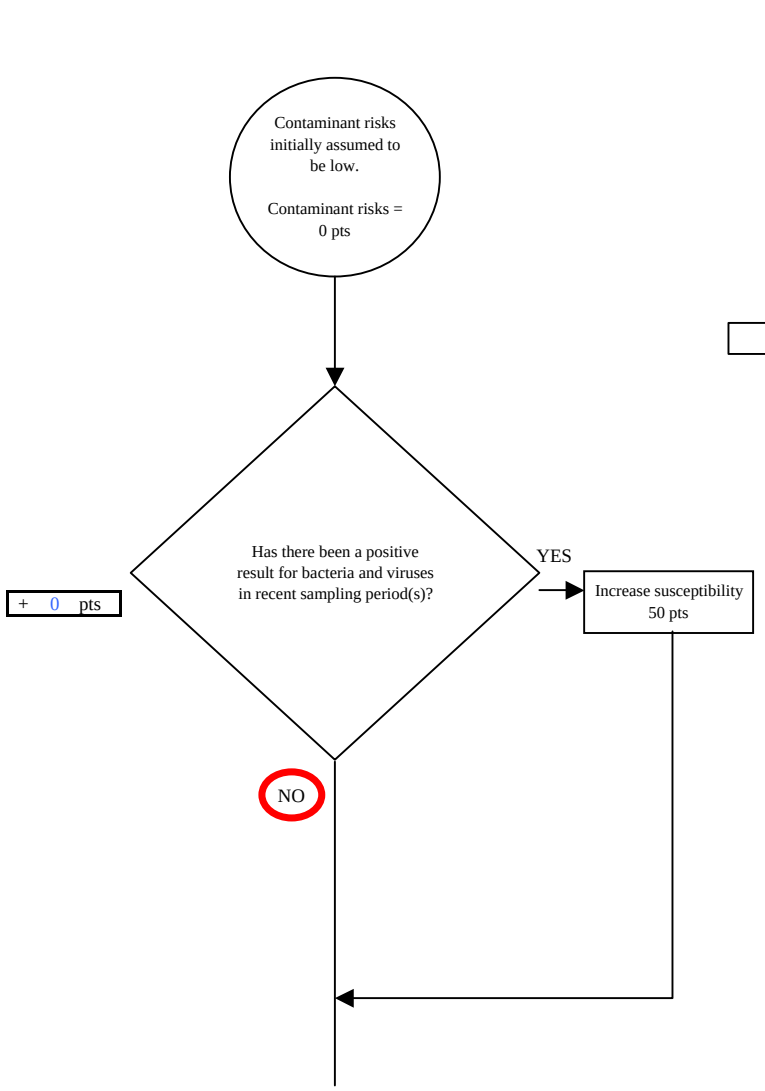
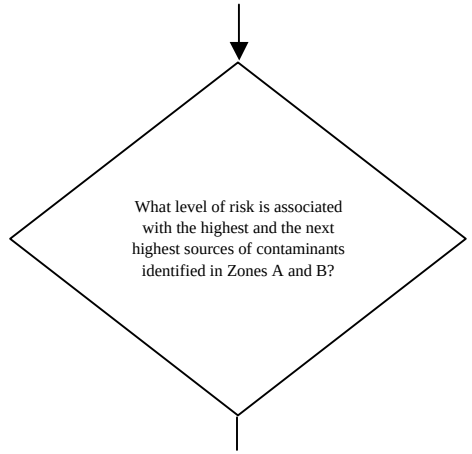


Chart 3. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Bacteria & Viruses





+ 40 pts

Risk Rankings for Contaminant Sources Identified in Zones A and B

	Zone A	Zone B	Total
Very Highs(s)	0	0	0
High(s)	9	18	27
Medium(s)	50	150	200
Low(s)	76	39	115

	LOW 10 pts	**MEDIUM** 20 pts	**HIGH** 30 pts	**VERY HIGH** 40 pts
LOW	**≥** 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	----
MEDIUM	----	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
HIGH	----	----	≥ 1 source + 10 pts	≥ 2 sources + 10 pts
VERY HIGH	----	----	----	≥ 1 source + 10 pts

Matrix Score 40

Note: Septic systems, sewerlines, and roads are each assigned a risk ranking for each individual contaminant source in the CSI. The VA, however, counts these contaminant sources as a group and assigns a calculated number of either "lows" or "mediums" based on the density.

Chart 3. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Bacteria & Viruses

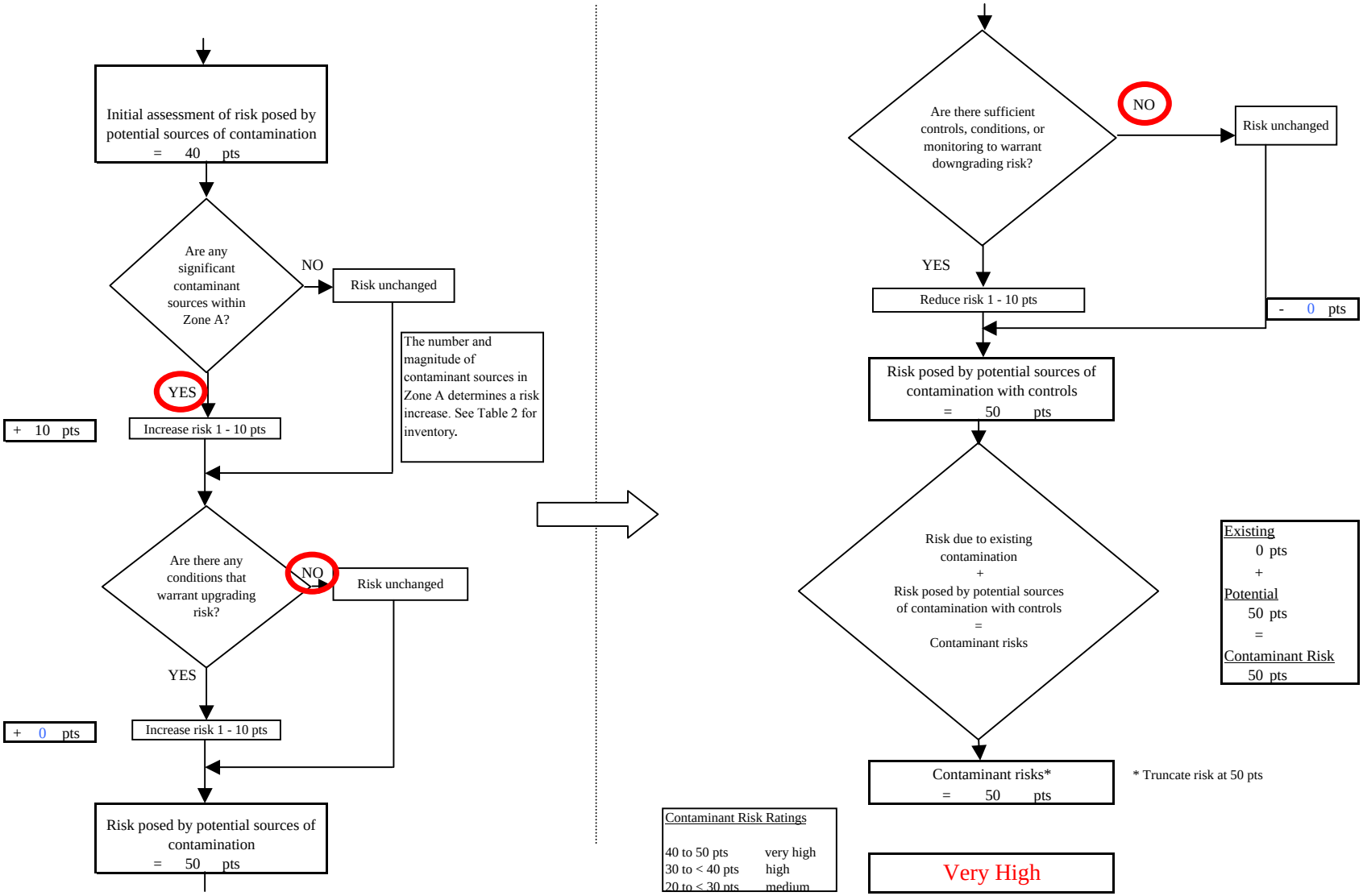


Chart 4. Vulnerability analysis for UTDC/Tok Community Center (PWS No. 380078.001) - Bacteria & Viruses

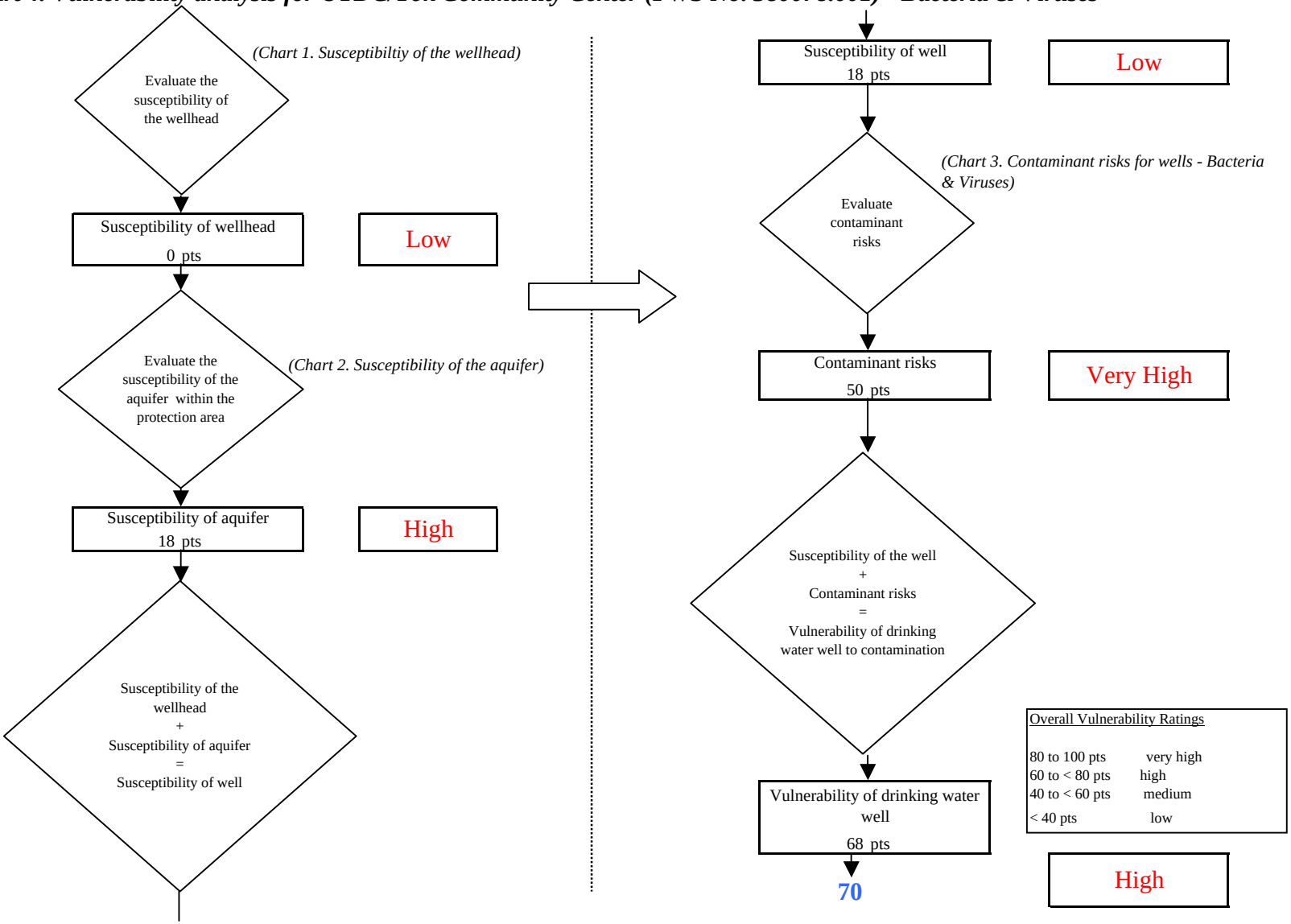


Chart 5. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Nitrates and Nitrites

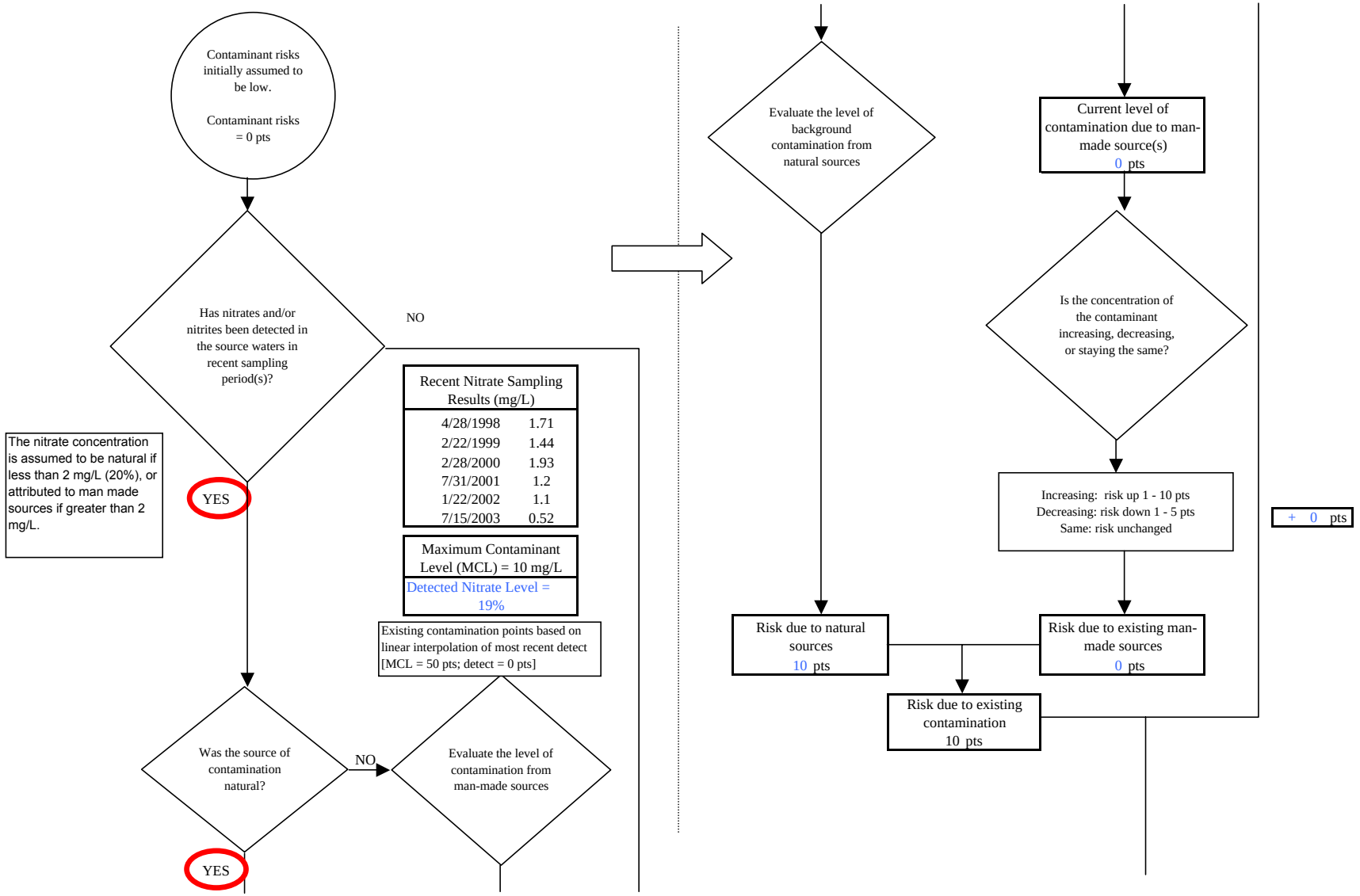


Chart 5. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Nitrates and Nitrites

+ 40 pts

What level of risk is associated with the highest and the next highest risk sources(s) of contaminants identified in Zones A, B and C?

Risk Levels for Contaminant Sources identified in Zones A, B and C

	Zone A	Zones B&C	Total
Very Highs(s)	0	0	0
High(s)	9	18	27
Medium(s)	50	150	200
Low(s)	76	35	111

	LOW 10 pts	**MEDIUM** 20 pts	**HIGH** 30 pts	**VERY HIGH** 40 pts
LOW	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	----
MEDIUM	----	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
HIGH	----	----	≥ 1 source + 10 pts	≥ 2 sources + 10 pts
VERY HIGH	----	----	----	≥ 1 source + 10 pts

Matrix Score 40

Note: Septic systems, sewerlines, and roads are each assigned a risk ranking for each individual contaminant source in the CSI. The VA, however, counts these contaminant sources as a group and assigns a calculated number of either "lows" or "mediums" based on the density.

Initial assessment of risk posed by potential sources of contamination = 40 pts

Is the source aquifer fractured rock or karst?

YES

NO

Are all of the higher risk sources beyond Zones A and B?

NO → Risk unchanged

YES

- 0 pts

Decrease risk 1 - 10 pts

Are any significant sources within Zone A?

NO → Risk unchanged

YES

The number and magnitude of contaminant sources in Zone A determines a risk increase. See Table 3 for inventory.

+ 10 pts

Increase risk 1 - 10 pts

Chart 5. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Nitrates and Nitrites

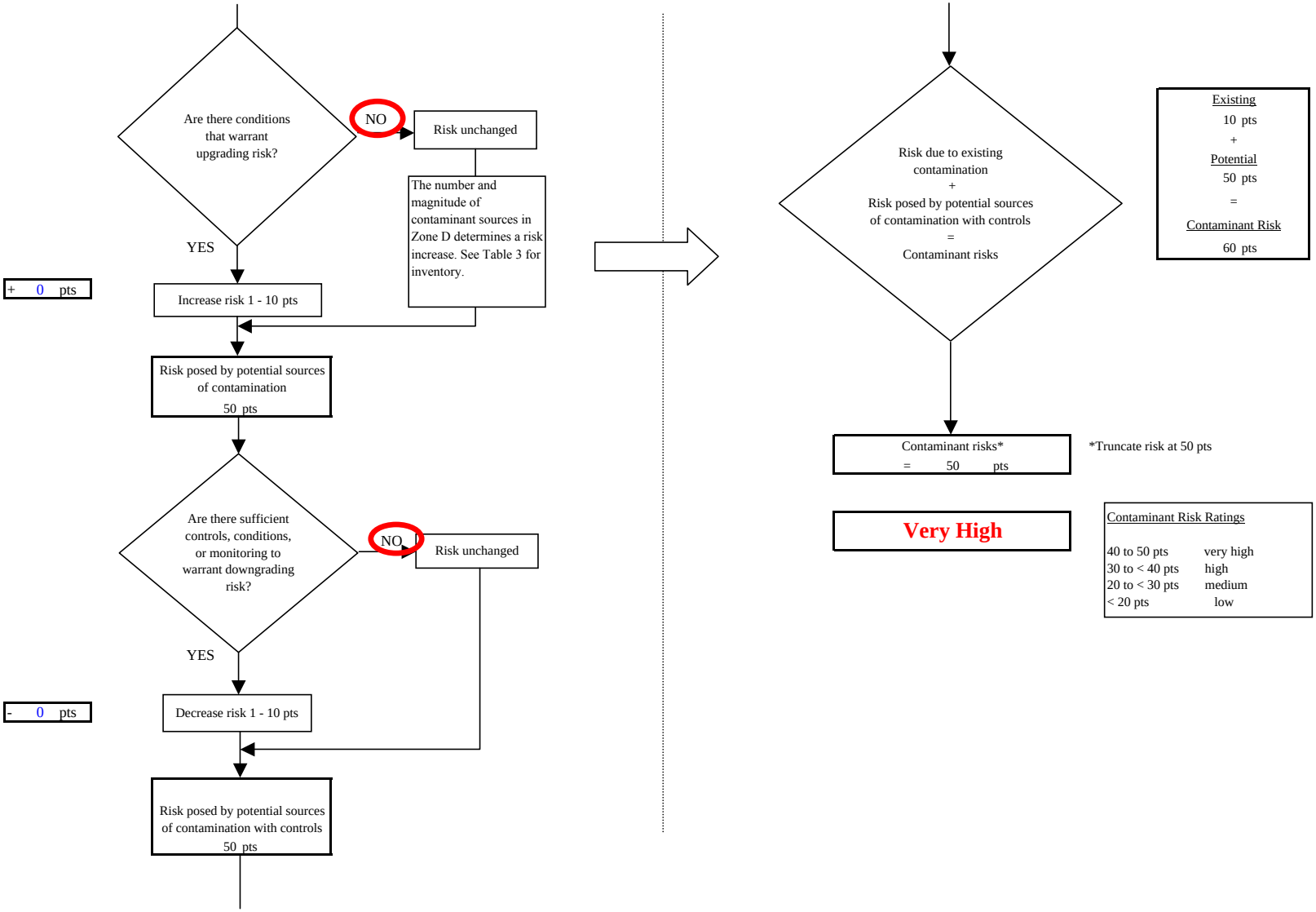


Chart 6. Vulnerability analysis for UTDC/Tok Community Center (PWS No. 380078.001) - Nitrates and Nitrites

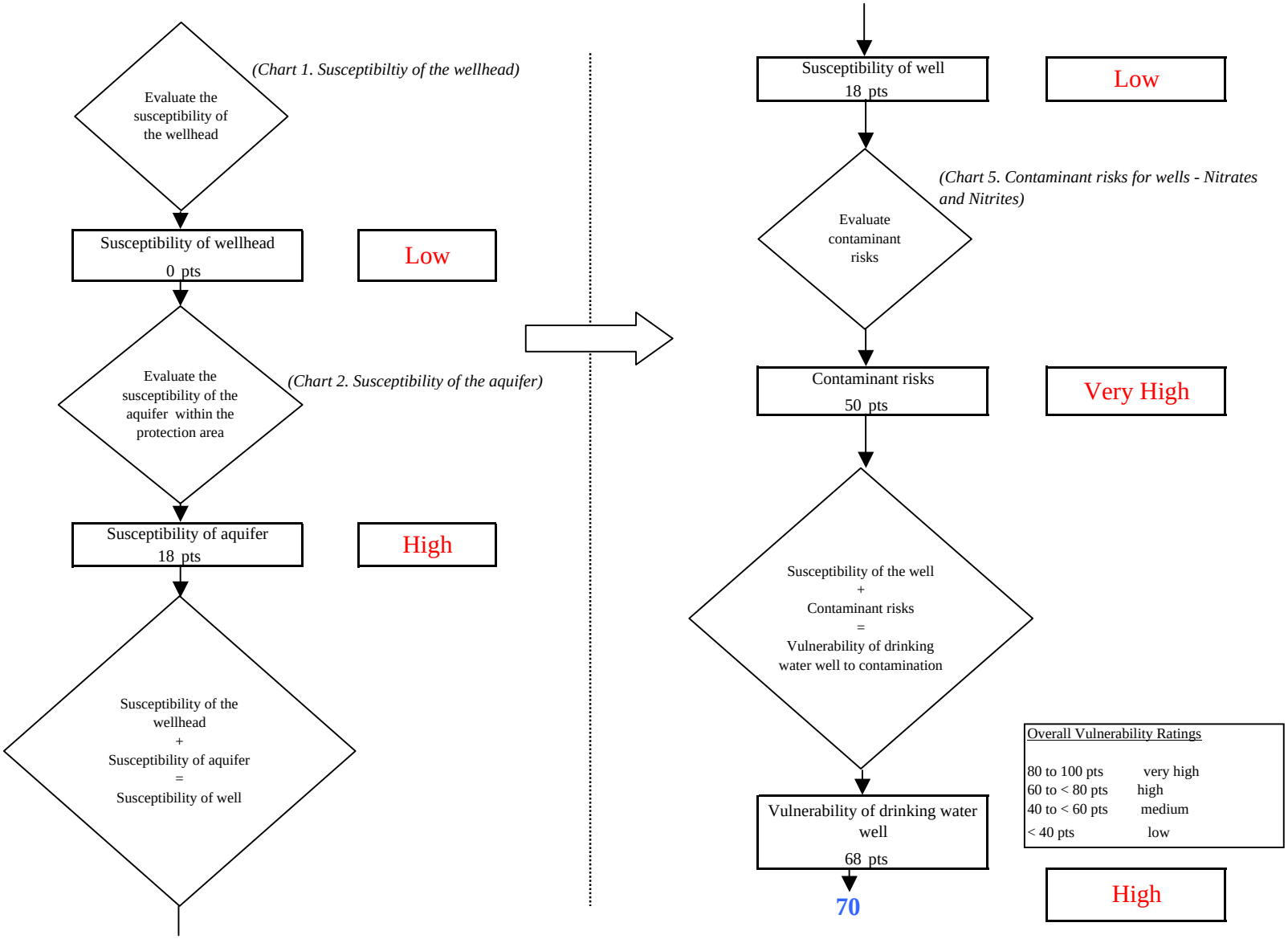


Chart 7. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Volatile Organic Chemicals

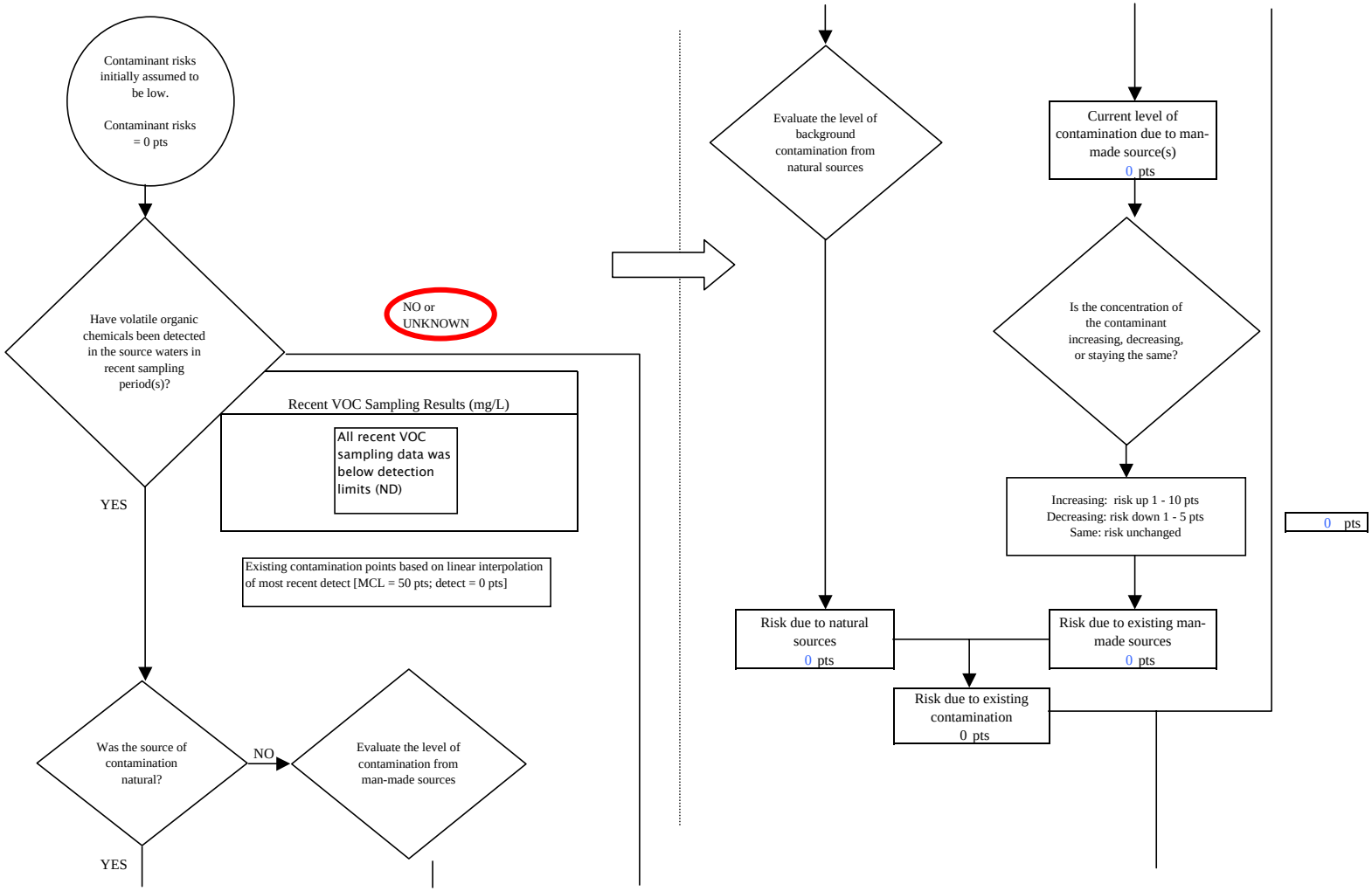


Chart 7. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Volatile Organic Chemicals

+ 50 pts

What level of risk is associated with the highest and the next highest risk sources(s) of contaminants identified in Zones A, B and C?

Risk Levels for Contaminant Sources identified in Zones A, B and C

	Zone A	Zones B&C	Total
Very Highs(s)	2	2	4
High(s)	10	45	55
Medium(s)	79	254	333
Low(s)	67	178	245

	LOW 10 pts	**MEDIUM** 20 pts	**HIGH** 30 pts	**VERY HIGH** 40 pts
LOW	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	----
MEDIUM	----	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
HIGH	----	----	≥ 1 source + 10 pts	≥ 2 sources + 10 pts
VERY HIGH	----	----	----	≥ 1 source + 10 pts

Matrix Score 50

Note: Septic systems, sewerlines, and roads are each assigned a risk ranking for each individual contaminant source in the CSI. The VA, however, counts these contaminant sources as a group and assigns a calculated number of either "lows" or "mediums" based on the density.

Initial assessment of risk posed by potential sources of contamination = 50 pts

Is the source aquifer fractured rock or karst?

YES

NO

Are all of the higher risk sources beyond Zones A and B?

NO

Risk unchanged

YES

- 0 pts

Decrease risk 1 - 10 pts

Are any significant sources within Zone A?

NO

Risk unchanged

The number and magnitude of contaminant sources in Zone A determines a risk increase. See Table 4 for inventory.

YES

Increase risk 1 - 10 pts

+ 10 pts

Chart 7. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Volatile Organic Chemicals

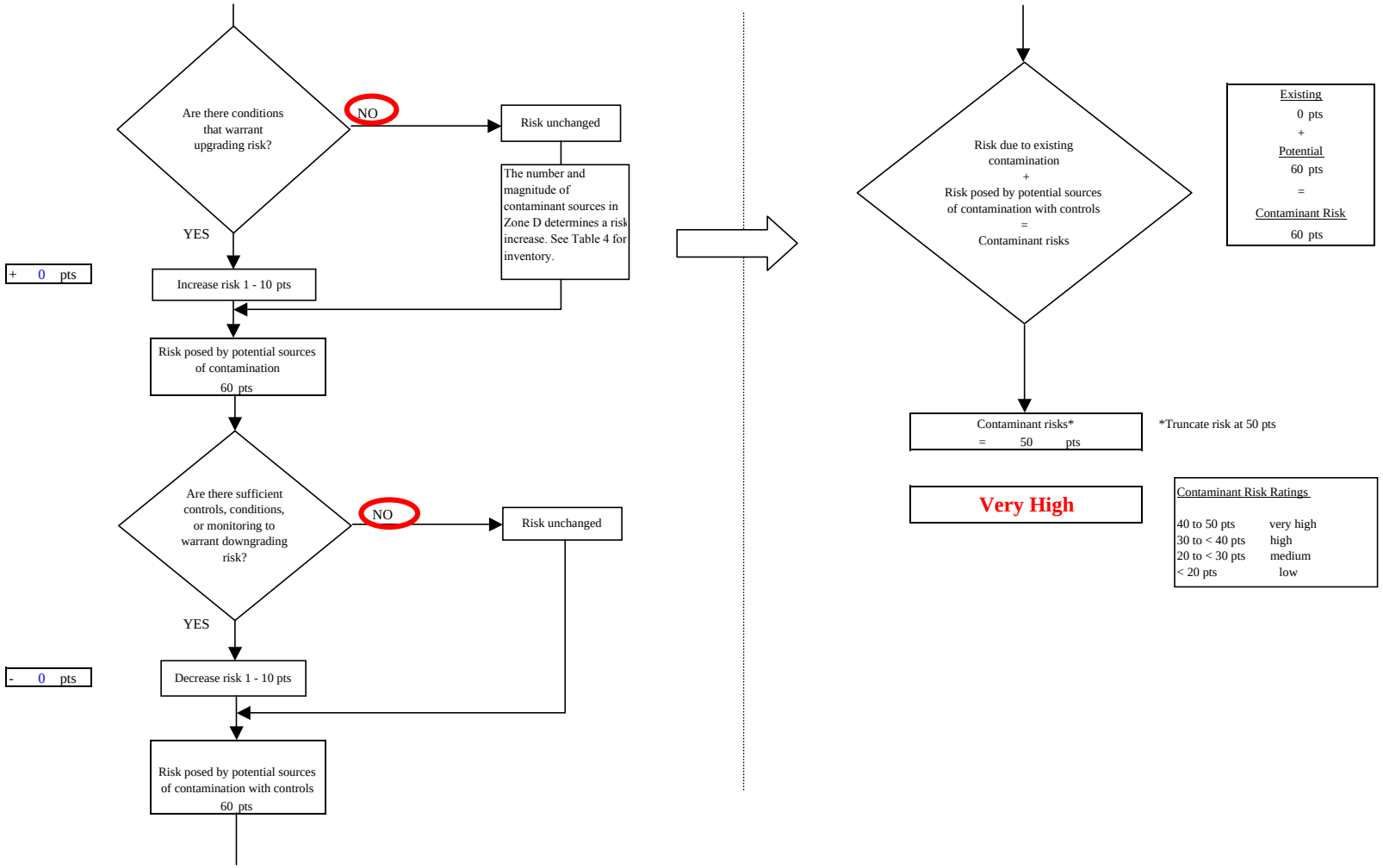


Chart 8. Vulnerability analysis for UTDC/Tok Community Center (PWS No. 380078.001) - Volatile Organic Chemicals

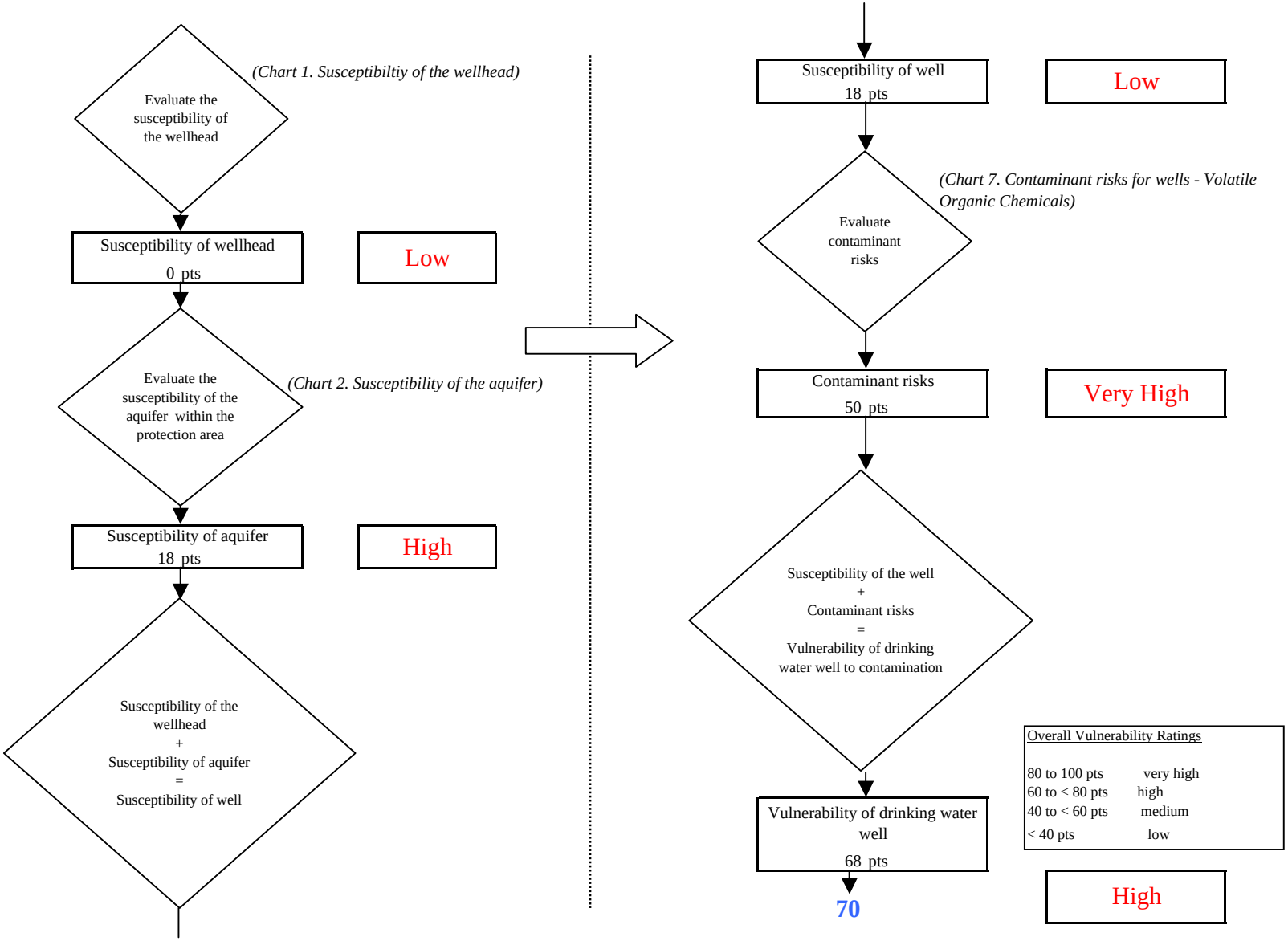


Chart 9. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Heavy Metals, Cyanide and Other Inorganic Chemicals

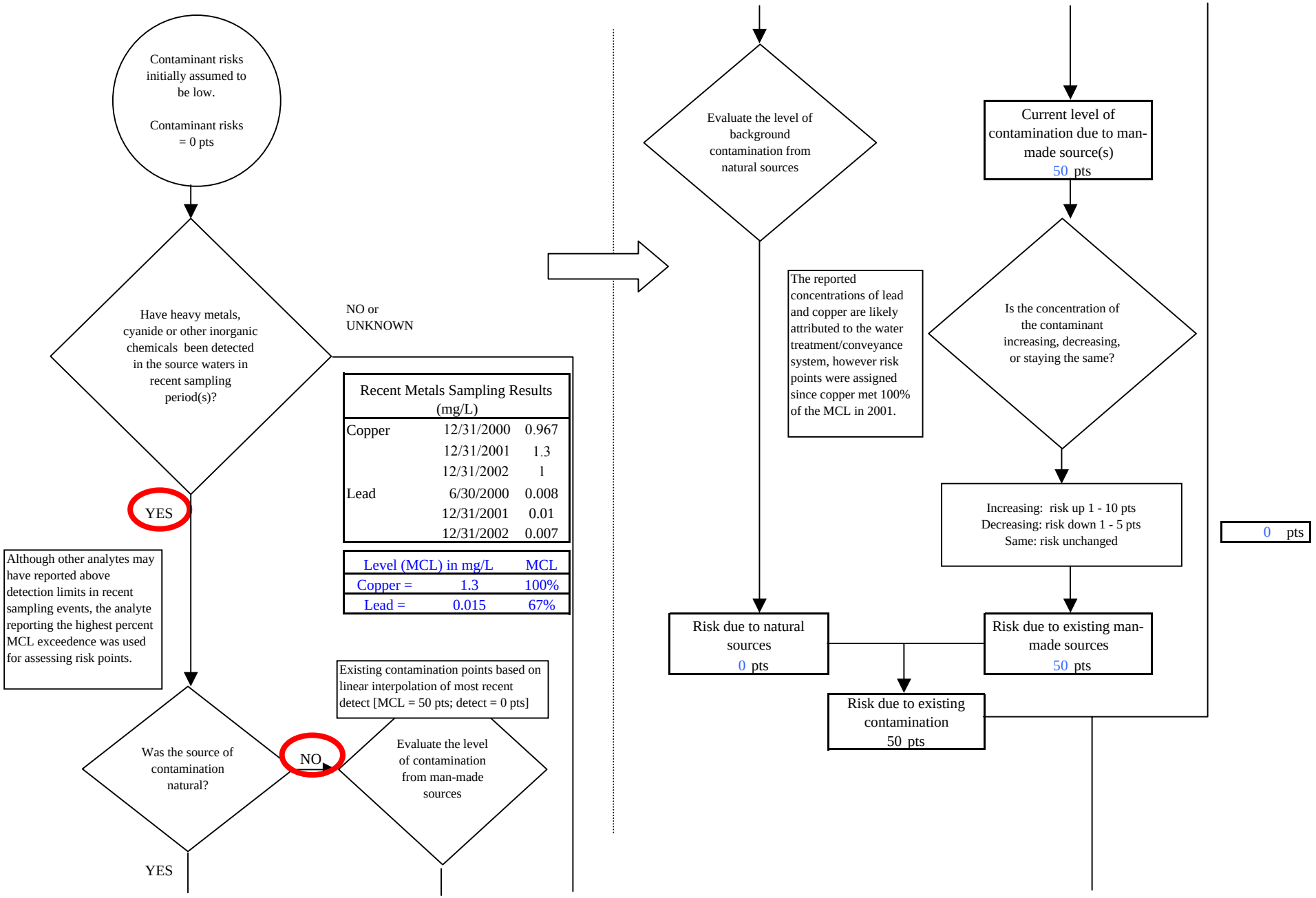


Chart 9. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Heavy Metals, Cyanide and Other Inorganic Chemicals

+ 40 pts

What level of risk is associated with the highest and the next highest risk sources(s) of contaminants identified in Zones A, B and C?

Risk Levels for Contaminant Sources identified in Zones A, B and C

	Zone A	Zones B&C	Total
Very Highs(s)	0	0	0
High(s)	0	4	4
Medium(s)	1	12	13
Low(s)	76	192	268

	LOW 10 pts	**MEDIUM** 20 pts	**HIGH** 30 pts	**VERY HIGH** 40 pts
LOW	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	----
MEDIUM	----	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
HIGH	----	----	≥ 1 source + 10 pts	≥ 2 sources + 10 pts
VERY HIGH	----	----	----	≥ 1 source + 10 pts

Matrix Score 40

Note: Septic systems, sewerlines, and roads are each assigned a risk ranking for each individual contaminant source in the CSI. The VA, however, counts these contaminant sources as a group and assigns a calculated number of either "lows" or "mediums" based on the density.

Initial assessment of risk posed by potential sources of contamination = 40 pts

Is the source aquifer fractured rock or karst?

YES

NO

Are all of the higher risk sources beyond Zones A and B?

NO

Risk unchanged

YES

Decrease risk 1 - 10 pts

- 0 pts

Are any significant sources within Zone A?

NO

Risk unchanged

The number and magnitude of contaminant sources in Zone A determines a risk increase. See Table 5 for inventory.

YES

Increase risk 1 - 10 pts

+ 8 pts

Chart 9. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Heavy Metals, Cyanide and Other Inorganic Chemicals

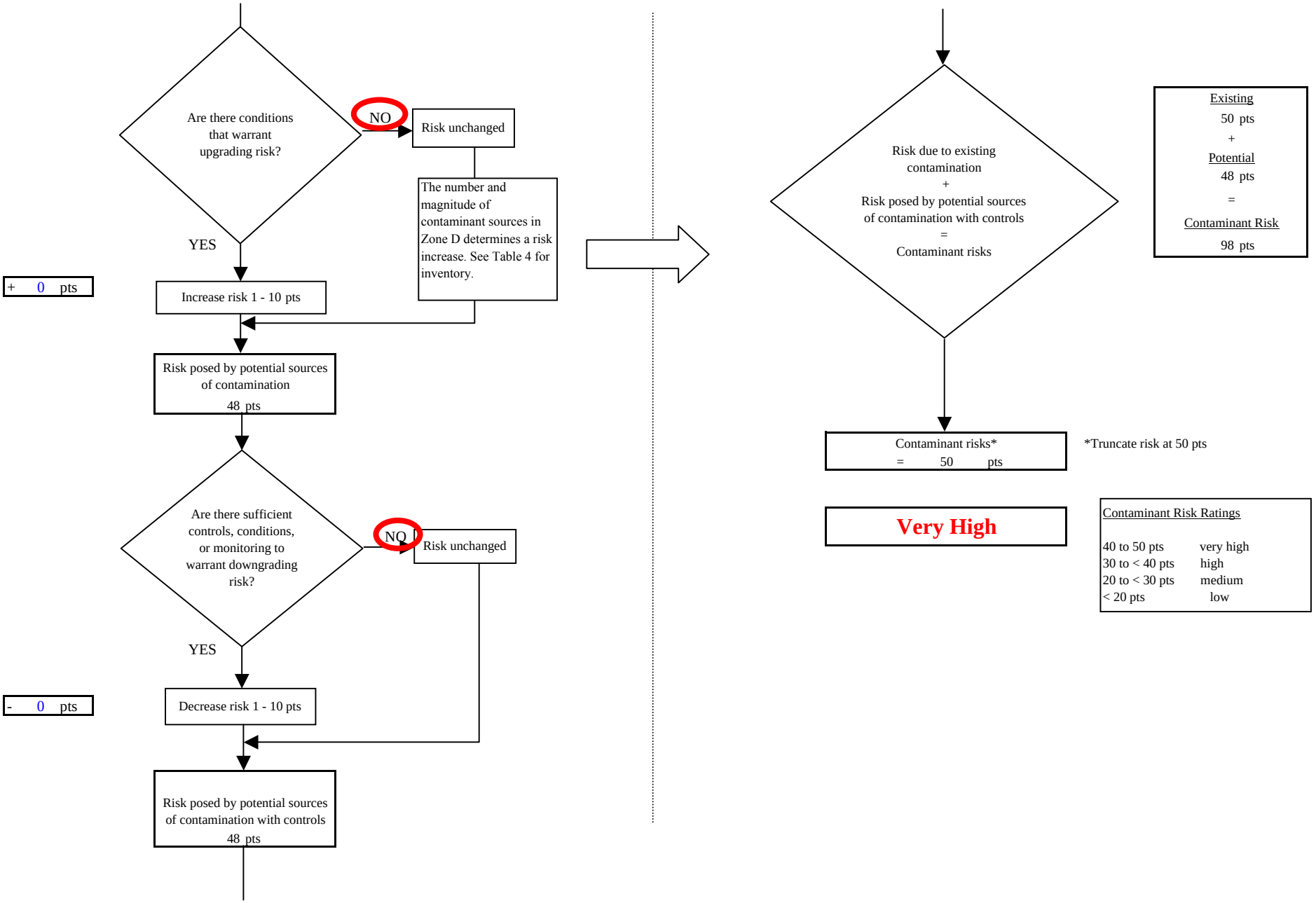


Chart 10. Vulnerability analysis for UTDC/Tok Community Center (PWS No. 380078.001) - Heavy Metals, Cyanide and Other Inorganic Chemicals

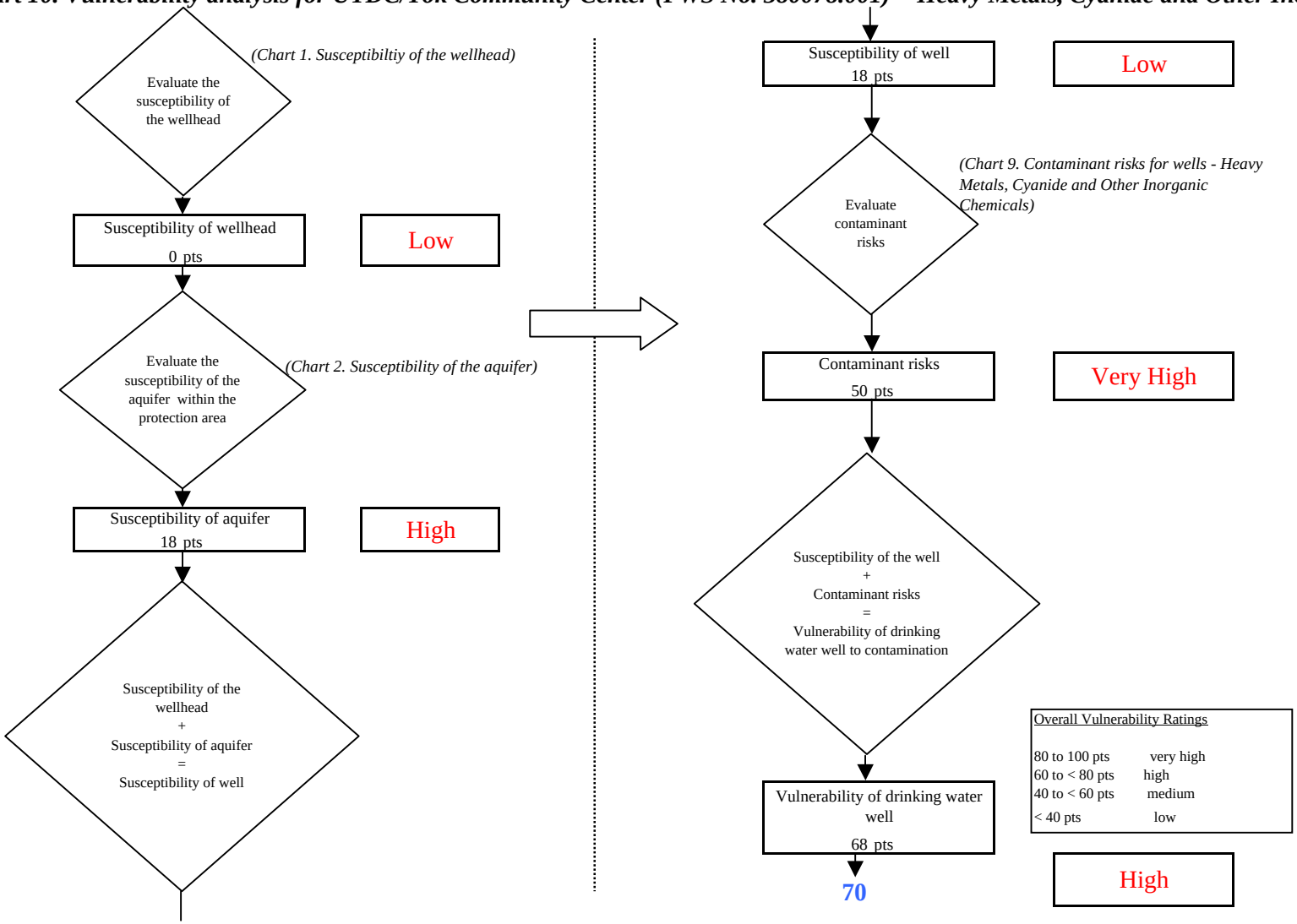


Chart 11. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Synthetic Organic Chemicals

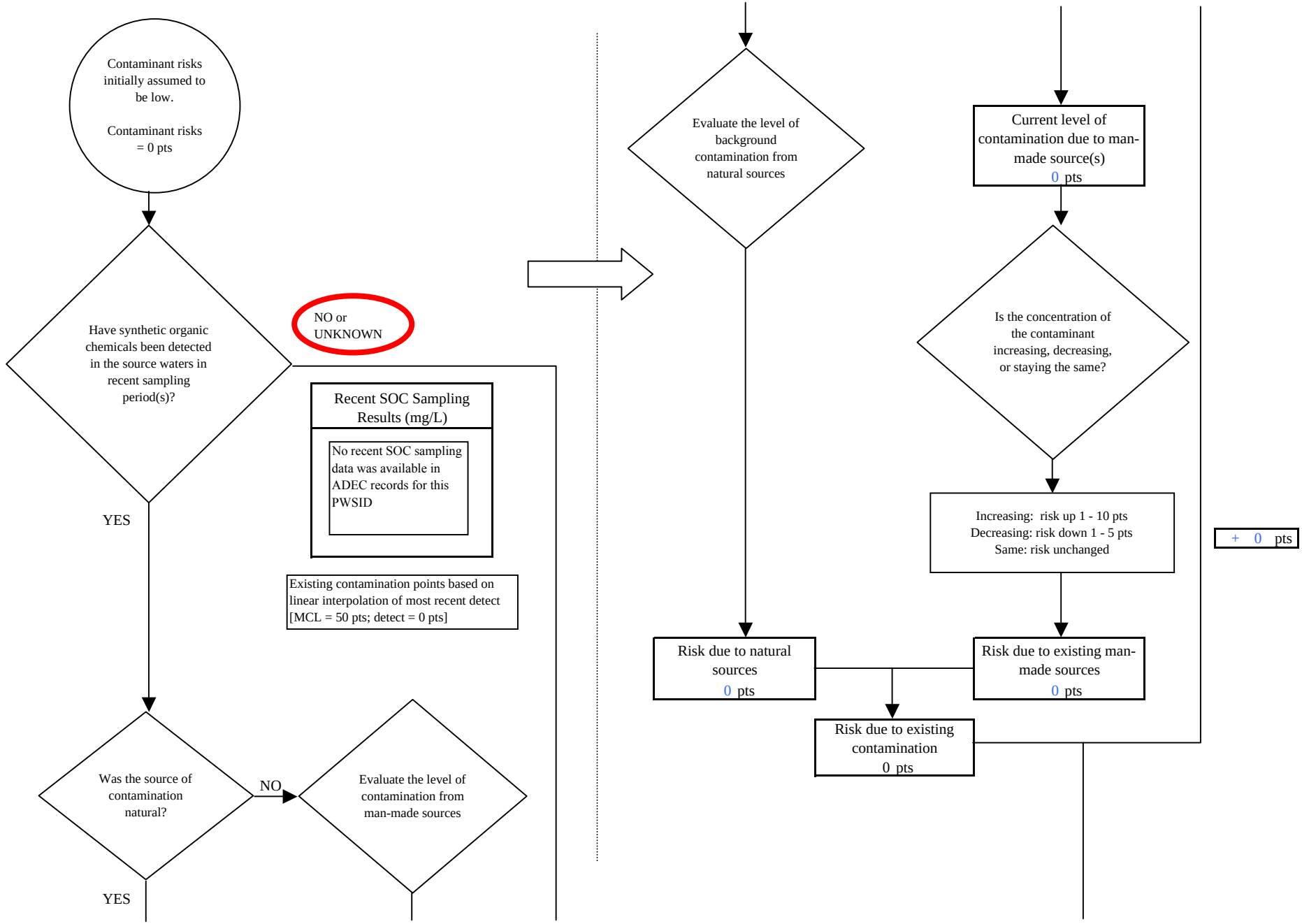


Chart 11. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Synthetic Organic Chemicals

+ 20 pts

What level of risk is associated with the highest and the next highest risk sources(s) of contaminants identified in Zones A, B and C?

Risk Levels for Contaminant Sources identified in Zones A, B and C			
	Zone A	Zones B&C	Total
Very Highs(s)	0	0	0
High(s)	0	0	0
Medium(s)	0	0	0
Low(s)	22	47	69

	LOW 10 pts	**MEDIUM** 20 pts	**HIGH** 30 pts	**VERY HIGH** 40 pts
LOW	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	----
MEDIUM	----	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
HIGH	----	----	≥ 1 source + 10 pts	≥ 2 sources + 10 pts
VERY HIGH	----	----	----	≥ 1 source + 10 pts

Matrix Score 20

Note: Septic systems, sewerlines, and roads are each assigned a risk ranking for each individual contaminant source in the CSI. The VA, however, counts these contaminant sources as a group and assigns a calculated number of either "lows" or "mediums" based on the density.

Initial assessment of risk posed by potential sources of contamination = 20 pts

Is the source aquifer fractured rock or karst?

YES

NO

Are all of the higher risk sources beyond Zones A and B?

NO

Risk unchanged

YES

Decrease risk 1 - 10 pts

- 0 pts

Are any significant sources within Zone A?

NO

Risk unchanged

The number and magnitude of contaminant sources in Zone A determines a risk increase. See Table 6 for inventory.

YES

Increase risk 1 - 10 pts

+ 5 pts

Chart 11. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Synthetic Organic Chemicals

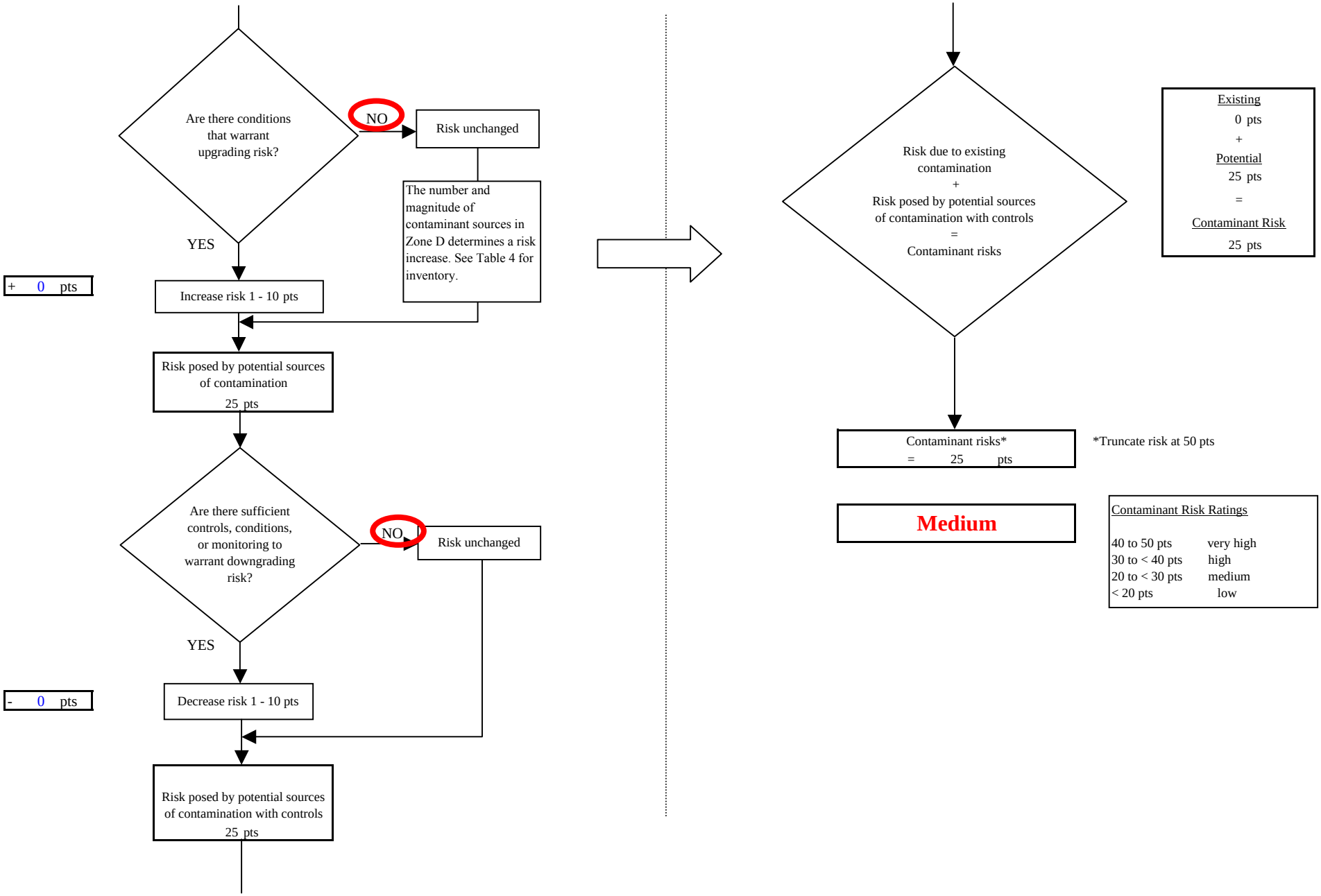


Chart 12. Vulnerability analysis for UTDC/Tok Community Center (PWS No. 380078.001) - Synthetic Organic Chemicals

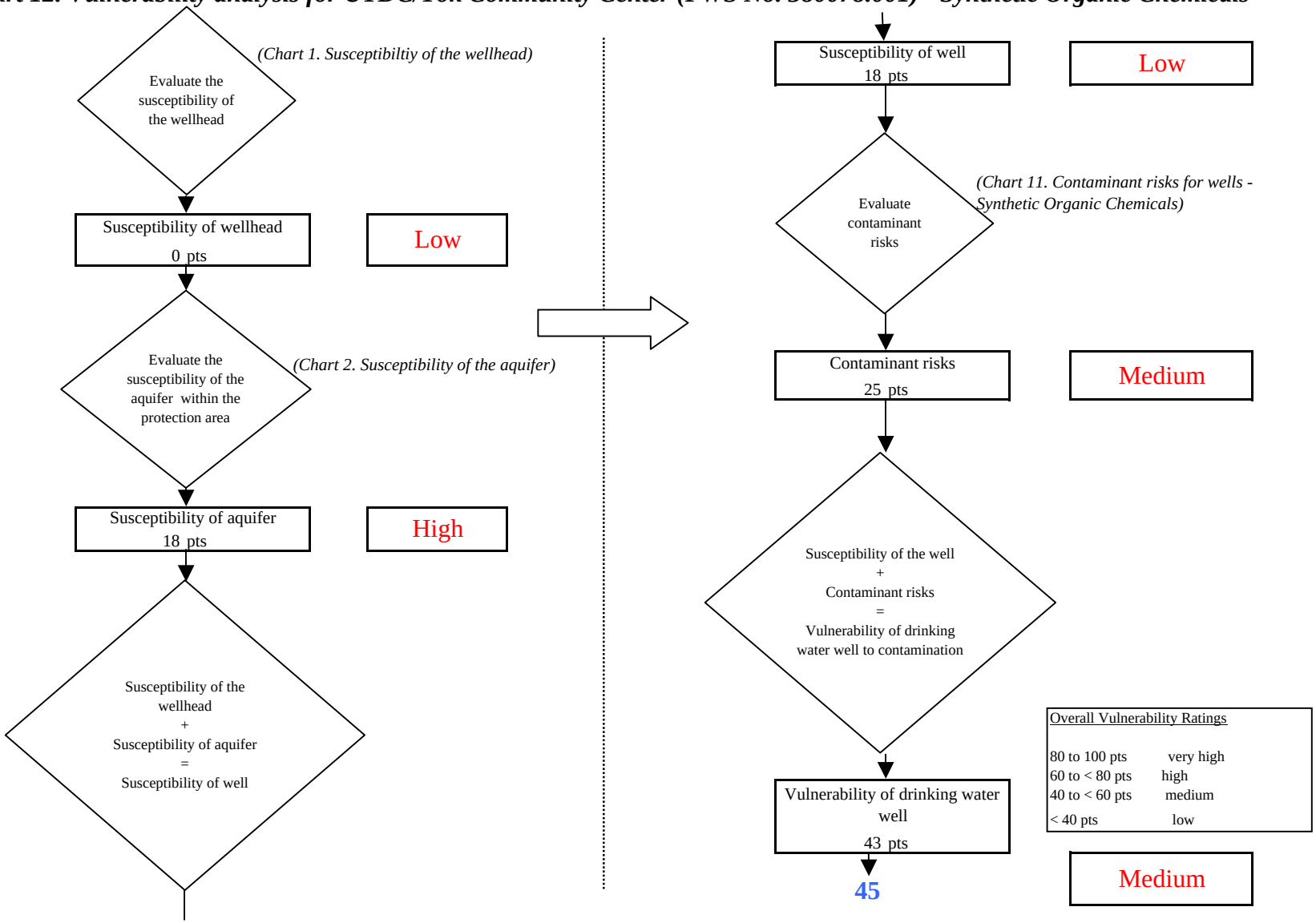


Chart 13. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Other Organic Chemicals

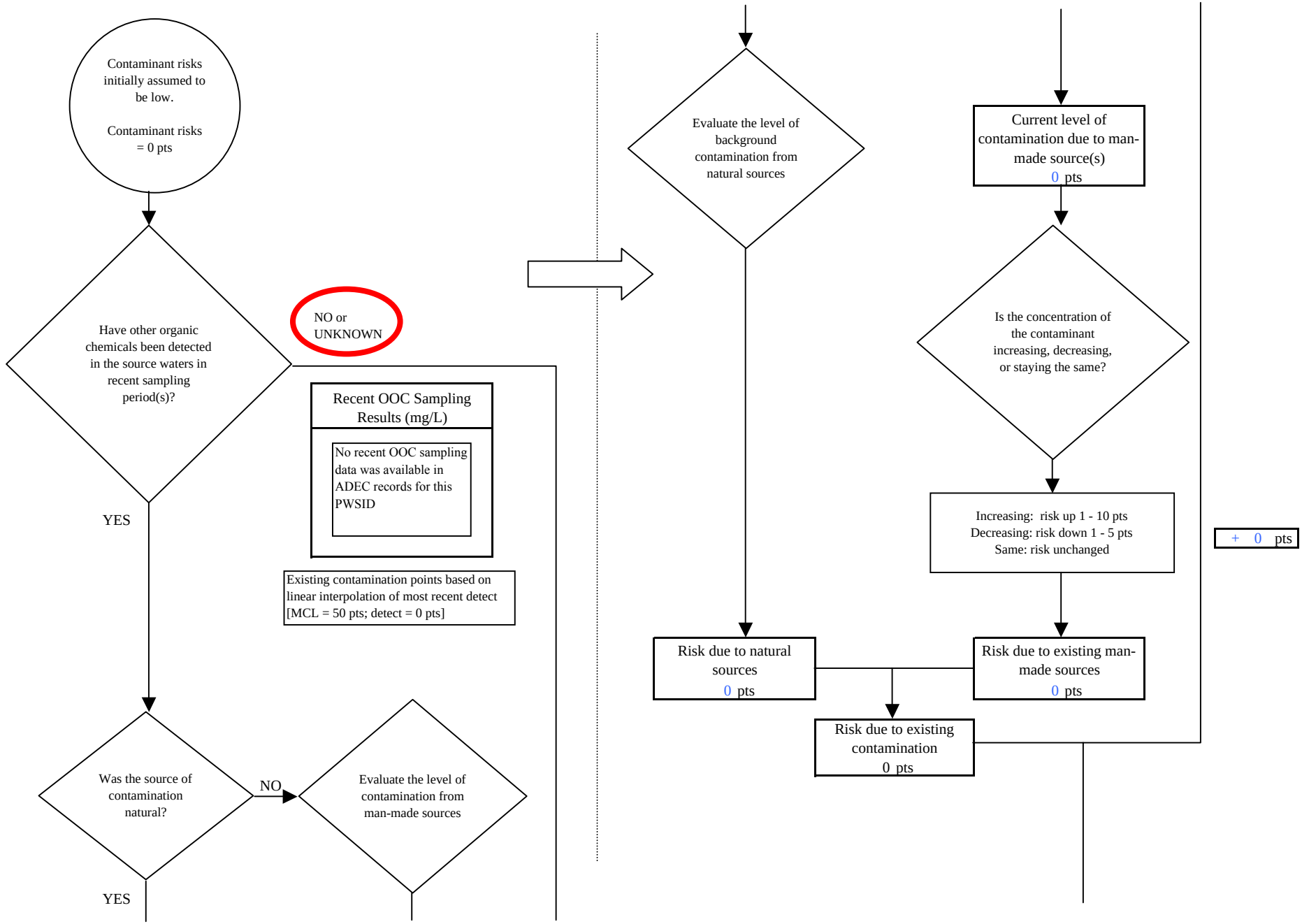


Chart 13. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Other Organic Chemicals

+ 40 pts

What level of risk is associated with the highest and the next highest risk sources(s) of contaminants identified in Zones A, B and C?

Risk Levels for Contaminant Sources identified in Zones A, B and C			
	Zone A	Zones B&C	Total
Very Highs(s)	0	0	0
High(s)	2	3	5
Medium(s)	0	6	6
Low(s)	21	45	66

	LOW 10 pts	**MEDIUM** 20 pts	**HIGH** 30 pts	**VERY HIGH** 40 pts
LOW	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	----
MEDIUM	----	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
HIGH	----	----	≥ 1 source + 10 pts	≥ 2 sources + 10 pts
VERY HIGH	----	----	----	≥ 1 source + 10 pts

Matrix Score 40

Note: Septic systems, sewerlines, and roads are each assigned a risk ranking for each individual contaminant source in the CSI. The VA, however, counts these contaminant sources as a group and assigns a calculated number of either "lows" or "mediums" based on the density.

Initial assessment of risk posed by potential sources of contamination = 40 pts

Is the source aquifer fractured rock or karst?

YES

NO

Are all of the higher risk sources beyond Zones A and B?

NO

Risk unchanged

YES

Decrease risk 1 - 10 pts

- 0 pts

Are any significant sources within Zone A?

NO

Risk unchanged

The number and magnitude of contaminant sources in Zone A determines a risk increase. See Table 7 for inventory.

YES

Increase risk 1 - 10 pts

+ 10 pts

Chart 13. Contaminant risks for UTDC/Tok Community Center (PWS No. 380078.001) - Other Organic Chemicals

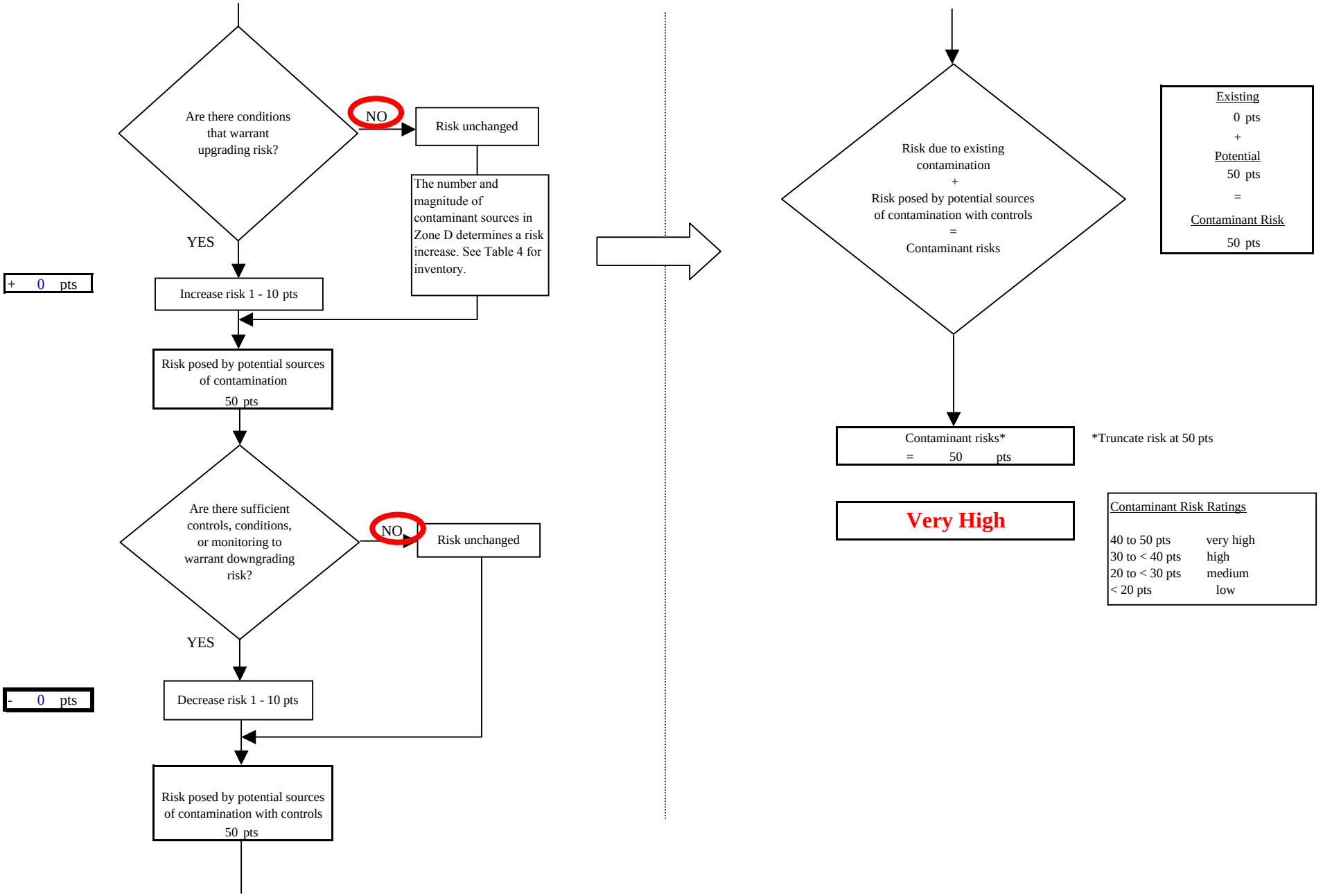


Chart 14. Vulnerability analysis for UTDC/Tok Community Center (PWS No. 380078.001) - Other Organic Chemicals