

Source Water Assessment

A Hydrogeologic Susceptibility and
Vulnerability Assessment for
City of Soldotna- Well A
Drinking Water System,
Kenai area, Alaska
PWSID 241054.005

February 2004

DRINKING WATER PROTECTION PROGRAM REPORT 1440
Alaska Department of Environmental Conservation

Source Water Assessment for City of Soldotna- Well A Drinking Water System Kenai area, Alaska PWSID 241054.005

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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.

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Source Water Assessment for City of Soldotna-Well A Source of Public Drinking Water, Kenai area, Alaska

Drinking Water Protection Program Alaska Department of Environmental Conservation

EXECUTIVE SUMMARY

The public water system for City of Soldotna is a Class A (Community) water system currently consisting of four wells. This report assesses Well A. The well is located on Binkley Street, a few blocks west of the Kenai Spur Highway. The wellhead received a susceptibility rating of **Low** and the aquifer received a susceptibility rating of **Medium**. Combining these two ratings produces a **Low** rating for the natural susceptibility of the well. Identified potential and current sources of contaminants for the City of Soldotna-Well A include: large capacity septic systems, roads, residential septic systems, sewer lines, residential area, motor vehicle water disposal wells, underground fuel tanks, recognized contaminated sites, leaking underground storage tanks, print shops, photo shops, gasoline stations, motor vehicle repair shops, medical facilities, seafood processing, battery manufacturing/recycling, taxidermists, paint sales and various commercial and industrial activities. These identified potential and existing sources of contamination are considered as sources of bacteria and viruses, nitrates and/or nitrites, and volatile organic chemicals, inorganic chemicals, synthetic organic chemicals and other organic chemicals. Overall, the City of Soldotna-Well A received a vulnerability rating of **Low** for synthetic organic chemicals, **Medium** for bacteria/ viruses and nitrates/nitrites and **High** for volatile organic chemicals, inorganic chemicals and other organic chemicals.

CITY OF SOLDOTNA- PUBLIC DRINKING WATER SYSTEM

The City of Soldotna public water system (PWS) is a Class A (Community) water system. The system currently consists of four wells: Well A, B, C and F. The system is planning to add a fifth well, however the well is not active at this time. This report assesses Well A which is located on Binkley Street, a few block west of the Kenai Spur Highway. (See Map 1 of Appendix A) The assessments of Well B, C, and F are located in Report No. 1435, No. 1439 and 1441 respectively.

The City of Soldotna is part of the Kenai Peninsula Borough, which is located directly south of the city of Anchorage (Please see the inset of Map 1 in Appendix

A for location). The borough encompasses 25,600 square miles, of which only 15,700 square miles is land.

The Kenai Peninsula is broken into two distinct geographic areas; the Kenai Mountains and the Kenai Lowlands. Kenai and its surrounding communities are located in the Kenai Lowlands. Communities located within the Kenai Lowlands include Sterling, Soldotna, Kenai, Kenai, Clam Gulch, Ninilchik, and Homer.

The Kenai Peninsula area topography varies from about 3,000 feet to 5,000 feet above sea level in the Kenai Mountains, the highest point being about 6,400 feet above sea level. The Kenai Peninsula is dotted with many lakes and small streams, including three large lakes (Kenai Lake, Skilak Lake, and Tustumena Lake) and two substantial rivers (Kenai River, and Kasilof River) (USGS 1915).

The City of Soldotna-Well A water system is located within the Kenai Lowlands, which is a sub-province of the Cook Inlet-Susitna Lowland physiographic region. The Kenai Lowland is a glaciated coastal shelf situated west of the northeast-trending Kenai Mountains. Approximately 100 miles long, the coastal shelf is bordered on the west by Cook Inlet, on the east by Kenai Mountains, on the north by Turnagain Arm, and on the south by the Caribou Hills and Kachemak Bay. The following summary of regional geology and hydrogeology is based on studies by Bailey and Hogan (1995); Freethy and Scully (1980); Glass (1996); Hartman, et al. (1972); and Karlstrom (1964).

The Kenai Lowland is underlain by bedrock. Tertiary sedimentary bedrock is more than 500 feet below the city of Kenai airport, but is exposed along beach cliffs and road cuts near the southwest end of the lowland. Unconsolidated surficial deposits of Quaternary age include coastal deposits, glaciolacustrine deposits, glaciofluvial deposits, glacial moraine deposits, and periglacial wind deposits. Unconsolidated Quaternary cover on the lowlands generally thickens from south to North being thin or absent in the Homer area, and over 750 feet thick near Kenai.

The most significant groundwater resources of the Kenai Lowlands are contained in Quaternary coarse-grained sands and gravels. Flood plain, river terrace and other alluvial deposits are common aquifer materials in

the area, and are characterized by high rates of recharge, and large saturated thicknesses. Other favorable materials include proglacial lake and associated river deposits and glacial outwash deposits consisting of meltwater sorted sand and gravel material. Unsorted glacial moraine and drift deposits generally have poor groundwater yields, as do discontinuous layers of confining clays and silt that are common throughout the unconsolidated materials. The relatively thicker sequence of unconsolidated sediments in the northern portions of the Kenai Lowlands locally hosts thicker, more extensive clay aquitards and multiple aquifers.

The Kenai Peninsula area has a central water system; however, many homes and businesses in the area rely on individual wells for their water supply. Most of these wells are deep with depths between 50 and 200 feet. Static water levels in many of these wells are between 10 and 30 feet below the surface. Although groundwater quality can vary significantly in short distance, groundwater supplies are abundant in the area.

The Sanitary Survey (2002) indicates that the well is properly sealed. A properly installed sanitary seal may provide protection against contaminant from entering the source waters at the casing. The well is not located in a floodplain and the surface is sloped away from the wellhead. The well is properly grouted. Proper grouting provides added protection against contaminants traveling along the well casing and into source waters.

This system operates year round and serves up to 3500 residents and 500 non-residents through 1100 service connections.

CITY OF SOLDOTNA-WELL A 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 City of Soldotna-Well A. 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 2 years time-of-travel
C	Less than 5 years time-of-travel
D	Less than 10 years time-of-travel

The DWPA for the City of Soldotna-Well A was determined using an analytical calculation and includes Zone A, B, C, and D (See Map 1 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 City of Soldotna-Well A 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 1 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, and volatile organic chemicals.

VULNERABILITY OF CITY OF SOLDOTNA-WELL A 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 eight 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. Lastly, Chart 4 contains the ‘Vulnerability Analysis for Bacteria and Viruses’. Charts 5 through 8 contain the Contaminant Risks and Vulnerability Analyses for nitrates and nitrites and volatile 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

City of Soldotna-Well A’s well is completed in confined aquifer setting. The well is 211 feet below ground surface (bgs). The static water level at the time of drilling (1970) was 8 feet below ground surface. The well penetrates approximately 100 feet of clay. This clay confining layer may provide a protective barrier from the movement of contaminants in the subsurface. However, wells penetrating the confining layer may provide a quick path for contaminants to enter the confining aquifer. In addition, increased pumping in the aquifer could lower the hydrostatic pressure making it possible for contaminants to migrate from the unconfined aquifer to the confined aquifer.

Table 2 shows the Susceptibility scores and ratings for the City of Soldotna-Well A.

Table 2. Susceptibility

	Score	Rating
Susceptibility of the Wellhead	0	Low
Susceptibility of the Aquifer	10	Medium
Natural Susceptibility	0	Low

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

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

Table 3. Contaminant Risks

Category	Score	Rating
Bacteria and Viruses	40	Very High
Nitrates and/or Nitrites	43	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:

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

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

Table 4. Overall Vulnerability

Category	Score	Rating
Bacteria and Viruses	50	Medium
Nitrates and Nitrites	50	Medium
Volatile Organic Chemicals	60	High
Heavy Metals, Cyanide, and Other Inorganic Chemicals	60	High
Synthetic Organic Chemicals	35	Low
Other Organic Chemicals	60	High

Bacteria and Viruses

Roads, large capacity septic systems, residential area, residential septic systems, sewer lines, medical facilities, seafood processing represent the greatest risk for bacteria and viruses to this drinking water well.

Only a small amount of bacteria and viruses are required to endanger public health. Coli forms are found naturally in the environment and although they aren't necessarily a health threat, it is an indicator of other potentially harmful bacteria in the water, more specifically, fecal coli forms and E. coli which only come from human and animal fecal waste (EPA, 2002). Harmful bacteria can cause diarrhea, cramps, nausea, headaches, or other symptoms (EPA, 2002). Sampling has not detected bacteria or viruses within source waters.

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 medium.

Nitrates and Nitrites

Roads, large capacity septic systems, residential area, residential septic systems, sewerlines, lawn and garden services, represent the greatest risk to nitrates and nitrites for this source of public drinking water.

Nitrates are very mobile, moving at approximately the same rate as water. The sampling history for the City of Soldotna-Well A well indicates that nitrate concentrations have not been detected.

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 medium.

Volatile Organic Chemicals

Motor vehicle repair shops, motor vehicle waste disposal wells, heavy equipment storage, photo supplies/processing, print shops, underground fuel tanks, recognized contaminated sites, gasoline stations, car washes, taxidermists, roads, large capacity septic systems, residential septic systems and residential areas represent the greatest identified risk for volatile organic chemical contamination to the well.

Approximately 20% residents in the area typically heat their homes with various types of on-site fuel sources, including propane and heating oil stored in aboveground or underground storage tanks. Although this report does not address heating oil tanks (unless their location is known), they can pose a risk of volatile organic chemical contamination to drinking water sources. The most common causes of fuel leaks of these heating oil systems are overfilling the tank, ruptured fuel lines, leaking storage tanks, damaged or faulty valves and vandalism. Secondary containment around the tank and regular system maintenance can help prevent many of these harmful fuel leaks and help protect the drinking water supply.

Volatile Organic Chemicals have not been detected within source waters. 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

photographic supply shops, print shops, motor vehicle waste disposal wells, battery manufacturing/recycling, underground fuel tanks, recognized contaminated sites, car washes and motor vehicle repair shops, large capacity septic systems, residential area, residential septic systems and existing contamination present the greatest risk for inorganic chemicals to the well.

Samplings of inorganic chemicals have detected arsenic at levels below the maximum contaminant levels (MCLs). The MCL is the maximum level of contaminant that is allowed to exist in drinking water and still be consumed by humans without harmful health effects. The most recent detection of arsenic detected 0.006 mg/l which is 60% of the current MCL of 0.01mg/l. Prolonged exposure to levels exceeding the MCL can cause skin damage, problems with circulatory systems, and may create an increased risk of developing cancer (EPA, 2002). Though arsenic has been detected, recent data indicates that the concentrations are safe with respect to human health

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

Farm machinery areas, lawn and garden services, residential septic systems, large capacity septic systems and residential area represent the greatest risk for inorganic chemicals to the well.

Sampling in 1995 did not detect synthetic organic chemicals. The system currently has an SOC waiver and is not required to sample.

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 low.

Other Organic Chemicals

Heavy equipment storage, motor vehicle waste disposal wells, car washes, gasoline stations/repair shops, roads, large capacity septic systems, residential area and residential septic systems represent the greatest risk for other organic chemicals to the well.

Sampling in 1995 did not detect other organic chemicals. The system currently has an OOC waiver and is not required to sample.

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 high.

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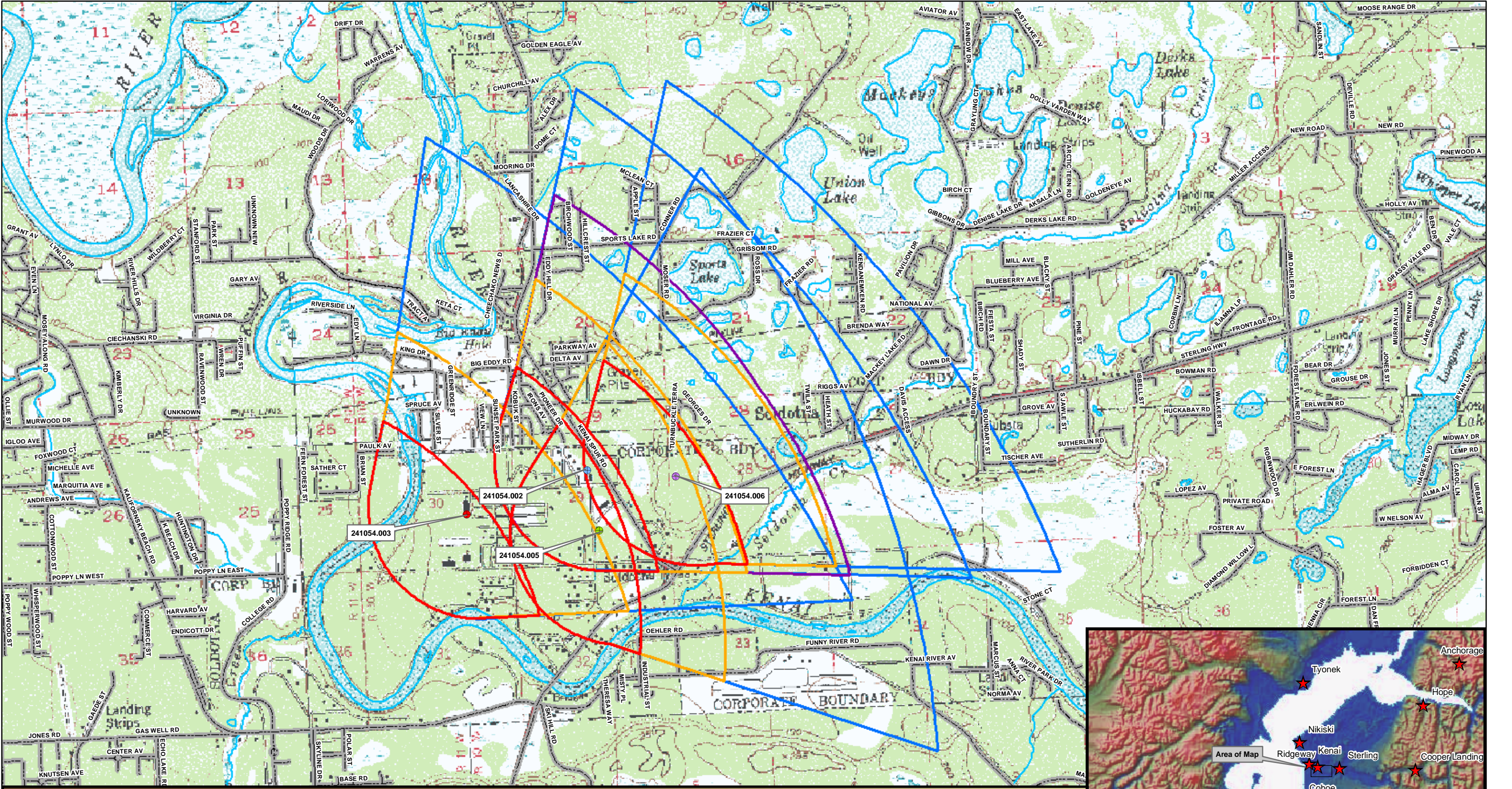
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APPENDIX A

City of Soldotna-Well A Drinking Water Protection Area Location Map (Map 1)



Map 1- City of Soldotna: Drinking Water Protection Areas

PWSID: 241054



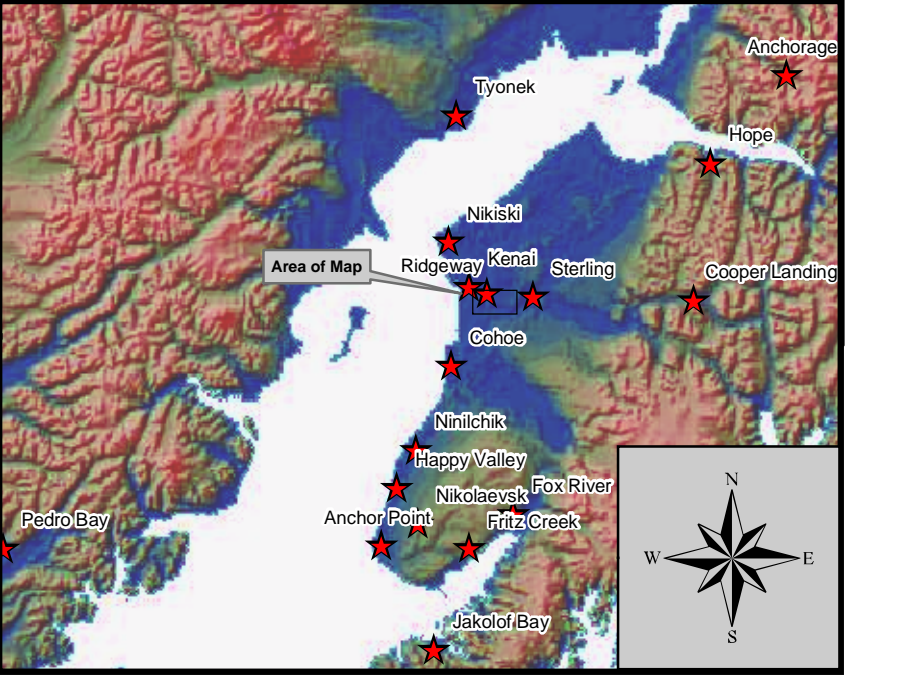
0 4,000 8,000 Feet

1:36,591

Data Sources:
Kenai Borough: Roads and parcels
USGS-63,360 topo map and hillshade
Potential Sources of Contamination: ADEC

Legend

Public Water Systems	Zone A Protection Area	Kenai_land_use
241054.002	Zone B Protection Area	Roads
241054.003	Zone D Protection Area	Rivers and Streams
241054.005	Zone C Protection Area	
241054.006		



APPENDIX B

Contaminant Source Inventory and Risk Ranking for City of Soldotna-Well A (Tables 1-7)

Table 1

**Contaminant Source Inventory for
City of Soldotna-Well A**

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Map Number	Comments
Farm machinery areas	A03	A03-1	A	2	265 N BINKLEY ST
Construction trade areas and materials	C09	C09-1	A	2	241 N ASPEN DR
Construction trade areas and materials	C09	C09-2	A	2	44539 STERLING HWY # 211
Gasoline stations (without repair shop)	C15	C15-2	A	2	44279 STERLING HWY
Hardware stores	C17	C17-1	A	2	267 N ASPEN DR
Hardware stores	C17	C17-2	A	2	180 S BINKLEY ST
Heavy equipment rental/storage	C18	C18-1	A	2	265 WILSON LN
Heavy equipment rental/storage	C18	C18-2	A	2	241 N ASPEN DR
Jewelers	C19	C19-1	A	2	44332 STERLING HWY # 36
Lawn and garden supplies/services	C23	C23-1	A	2	321 COLUMBINE ST
Pet groomers	C34	C34-1	A	2	281 N ASPEN DR
Pet groomers	C34	C34-2	A	2	HC 1 BOX 95
Pharmacies (with on-site wastewater disposal)	C35	C35-1	A	2	245 N BINKLEY ST
Photography supplies/photo processing laboratories	C36	C36-1	A	2	173 E REDOUBT AVE
Printers, publishers, copiers	C37	C37-1	A	2	44539 STERLING HWY # 209
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D01-1-100	A	2	Assumed to be >100 sewerlines in Zone A.
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-1	A	3	1 large capacity septic system
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1	A	2	BIRCH & STERLING HWY
Battery manufacturing/recycling	I06	I06-1	A	2	155 TRUMPETER AVE
Seafood processing	N10	N10-1	A	2	297 SUNRISE CT
Residential Areas	R01	R01-1	A	3	15 residential acres in Zone A.
Septic systems (serves one single-family home)	R02	R02-1-21	A	3	21 residential septic systems in Zone A
Tanks, diesel (underground)	T08	T08-2	A	2	44279 STERLING HWY
Closed tanks, diesel (underground)	T09	T09-1	A	2	238 WILSON

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Map Number</i>	<i>Comments</i>
Tanks, gasoline (underground)	T12	T12-3	A	2	44279 STERLING HWY
Tanks, gasoline (underground)	T12	T12-4	A	2	44279 STERLING HWY
Tanks, gasoline (underground)	T12	T12-5	A	2	44279 STERLING HWY
Closed tanks, gasoline (underground)	T13	T13-1	A	2	238 WILSON
Closed tanks, gasoline (underground)	T13	T13-2	A	2	238 WILSON
Tanks, heating oil, nonresidential (underground)	T16	T16-1	A	2	250 HOSPITAL PL
Tanks, heating oil, nonresidential (underground)	T16	T16-2	A	2	250 HOSPITAL PL
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-1	A	2	241 N ASPEN DR
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-2	A	2	241 N ASPEN DR
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-1	A	2	250 HOSPITAL PL. Central Peninsula General Hospital: Heating oil UST was removed. Fiberglass tank was in good condition when removed. Excavation was tested by a consultant and showed not contamination above matric level A remained. Site Closed.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-3	A	2	Mile 95 Sterling Highway. Former Unocal Bulk Plant facility. The soil at the site is contaminated with diesel fuel and gasoline. Groundwater contamination suspected. Extent of contamination and health impact unknown. Priority: High
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-4	A	3	North Aspen Drive. Drum spill on city street. 1992 55 gallon drum was discovered in the right-of-way of Aspen St. Soil excavated and removed from site. Priority: Low
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-5	A	2	144 N Binkley Street. Kenai Vocational Center. Observed storage tank closure, diesel contamination discovered in both soil and groundwater. Floor drains of building possible contributing source of contamination. Priority: Medium
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-8	A	2	44279 Sterling Highway-Texaco #207 Petroleum contamination present. Priority: High
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-2	A	2	44279 STERLING HWY-In June 1988, contaminated soil was encountered during the removal of 4 USTs. Extent of contamination unknown. GW contaminated. Priority: High
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-1	A	2	139 PARK AVE
Boat yards and marinas	X15	X15-1	A	2	255 N ASPEN DR
Highways and roads, paved (cement or asphalt)	X20	X20-1-30	A	3	Approximately 30 roads in Zone A.
Firehouses	X38	X38-1	A	2	231 S BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	A	2	232 W ROCKWELL AVE

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Map Number</i>	<i>Comments</i>
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-10	A	2	133 W MARYDALE AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-11	A	2	167 WARE HOUSE DR # C
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-12	A	2	138 W MARYDALE AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-13	A	2	245 N BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-14	A	2	265 N BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-15	A	2	102 E REDOUBT AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-16	A	2	246 S BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-17	A	2	254 N BINKLEY ST # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-18	A	2	44539 STERLING HWY # 212
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-2	A	2	241 W KATMAI AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-21	A	2	44539 STERLING HWY # 214
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-22	A	3	35477 KENAI SPUR HWY # 201
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-3	A	2	206 W ROCKWELL AVE # 102
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-4	A	2	206 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-5	A	2	206 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-6	A	2	247 N FIREWEED ST # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-7	A	2	247 N FIREWEED ST # A
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-8	A	2	250 HOSPITAL PL
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-9	A	2	170 E CORRAL AVE # 4

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Map Number</i>	<i>Comments</i>
Car washes with engine or undercarriage cleaning	C08	C08-1	B	2	224 KENAI AVE
Construction trade areas and materials	C09	C09-3	B	2	35581 KENAI SPUR HWY
Construction trade areas and materials	C09	C09-4	B	2	224 KENAI AVE
Florists	C12	C12-1	B	2	35557 KENAI SPUR HWY
Gasoline stations (without repair shop)	C15	C15-1	B	2	35482 KENAI SPUR HWY
Gasoline stations (without repair shop)	C15	C15-3	B	2	43883 STERLING HWY
Gasoline stations (with repair shop)	C16	C16-1	B	2	44224 STERLING HWY
Gasoline stations (with repair shop)	C16	C16-2	B	2	44152 STERLING HWY
Gasoline stations (with repair shop)	C16	C16-3	B	2	44024 STERLING HWY
Hardware stores	C17	C17-3	B	2	35477 KENAI SPUR HWY # 2
Hardware stores	C17	C17-4	B	2	35440 KENAI SPUR HWY
Hardware stores	C17	C17-5	B	2	35220 KENAI SPUR HWY
Hardware stores	C17	C17-6	B	2	312 TYEE ST
Hardware stores	C17	C17-7	B	2	35060 KENAI SPUR HWY
Heavy equipment rental/storage	C18	C18-3	B	2	35338 KENAI SPUR HWY # 1
Heavy equipment rental/storage	C18	C18-4	B	2	224 KENAI AVE
Jewelers	C19	C19-2	B	2	34851 KENAI SPUR HWY # 1
Laboratories (chemical, soils, and research)	C20	C20-1	B	2	35186 KENAI SPUR HWY
Laundromats without dry cleaning	C22	C22-1	B	2	121 SMITHS WAY
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-1	B	2	35105 KENAI SPUR HWY
Motor/motor vehicle supplies stores	C28	C28-1	B	2	44096 STERLING HWY
Motor/motor vehicle supplies stores	C28	C28-2	B	2	127 SMITHS WAY
Motor/motor vehicle supplies stores	C28	C28-3	B	2	43867 STERLING HWY
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-1	B	2	43965 STERLING HWY
Motor /motor vehicle repair shops	C31	C31-1	B	2	369 TYEE ST
Motor /motor vehicle repair shops	C31	C31-2	B	2	44055 STERLING HWY

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Map Number</i>	<i>Comments</i>
Motor /motor vehicle repair shops	C31	C31-3	B	2	43850 STERLING HWY
Paint sales /service	C32	C32-1	B	2	35093 KENAI SPUR HWY
Pet groomers	C34	C34-3	B	2	35324 KENAI SPUR HWY
Photography supplies/photo processing laboratories	C36	C36-2	B	2	35036 KENAI SPUR HWY
Printers, publishers, copiers	C37	C37-2	B	2	35251 KENAI SPUR HWY # A
Taxidermists	C41	C41-1	B	2	113 SMITHS WAY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-2-5	B	3	4 large capacity septic systems in Zone B.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1-2	B	3	2 motor vehicle waste disposal wells in Zone B.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-2	B	2	44055 STERLING HWY
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-3	B	2	44024 STERLING HWY
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-4	B	2	43965 STERLING HWY
Cement manufacturing	I08	I08-1	B	2	224 KENAI AVE
Seafood processing	N10	N10-2	B	2	35282 KENAI SPUR HWY
Residential Areas	R01	R01-2	B	3	74 residential acres in Zone B.
Septic systems (serves one single-family home)	R02	R02--22-63	B	3	42 residential septic systems in Zone B.
Tanks, diesel (underground)	T08	T08-1	B	2	35482 KENAI SPUR HWY
Tanks, diesel (underground)	T08	T08-3	B	2	44224 STERLING HWY
Tanks, diesel (underground)	T08	T08-4	B	2	44152 STERLING HWY
Tanks, diesel (underground)	T08	T08-5	B	2	44024 STERLING HWY
Tanks, diesel (underground)	T08	T08-6	B	2	43883 STERLING HWY
Closed tanks, diesel (underground)	T09	T09-2	B	2	127 SMITH WAY
Tanks, gasoline (underground)	T12	T12-1	B	2	35482 KENAI SPUR HWY
Tanks, gasoline (underground)	T12	T12-10	B	2	44024 STERLING HWY
Tanks, gasoline (underground)	T12	T12-11	B	2	44024 STERLING HWY
Tanks, gasoline (underground)	T12	T12-12	B	2	44024 STERLING HWY
Tanks, gasoline (underground)	T12	T12-13	B	2	43883 STERLING HWY

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Map Number</i>	<i>Comments</i>
Tanks, gasoline (underground)	T12	T12-14	B	2	43883 STERLING HWY
Tanks, gasoline (underground)	T12	T12-2	B	2	35482 KENAI SPUR HWY
Tanks, gasoline (underground)	T12	T12-6	B	2	44224 STERLING HWY
Tanks, gasoline (underground)	T12	T12-7	B	2	44224 STERLING HWY
Tanks, gasoline (underground)	T12	T12-8	B	2	44152 STERLING HWY
Tanks, gasoline (underground)	T12	T12-9	B	2	44152 STERLING HWY
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-10	B	2	Mile 94.6 Sterling Hwy.1992-Salt in sand pile leaching into groundwater and Kenai River. Priority: High
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-11	B	2	Mile 94.6 Sterling Hwy.1992-Spilled road paint may contain xylenes. Priority: High
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-12	B	2	44149 Sterling Highway-During the closure of the former ADOT&PF Soldotna Maintenance Facility, diesel range and residual range petroleum hydrocarbons were discovered. Priority: High
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-13	B	2	Mile 94.6 Sterling Hwy.-1994 diesel contamination in the leach field area, and gasoline contamination of groundwater in the vicinity of the road paint, salt, and asphalt storage area. Priority: High
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-2	B	2	Kenai Spur Highway-Drum dump behind Alaska Truss. Possible PCB contamination. Priority: Unranked
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-6	B	2	35320 Kenai Spur Hwy- Coastal Drilling. Pit Suspected to contain old engines, oil drilling parts, vehicles, construction wastes, and drilling mud in unknown amounts. Known contamination by PCB's, BTEX, lead and chlorinated solvents. Priority: High
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-9	B	2	Town and Country Septic Disposal-Fontier Avenue. Off Ridgway Drilling mud reportedly dumped in septage system in 1987.Priority: Low
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-1	B	2	35482 KENAI SPUR HWY
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-3	B	2	44224 STERLING HWY-Gasoline soil contamination reported at fill pipe end of tanks. Quantity in-situ estimate of 60 cys. Possible groundwater impacts. Letter sent 10/26/99; remediation may start in spring 2000. Priority: Medium
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-4	B	2	44149 Sterling Highway-ADOT&PF Soldotna Maintenance Facility
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-5	B	2	44149 Sterling Highway-ADOT&PF Soldotna Maintenance Facility-During a site assessment, diesel contaminated soil and GW encountered at a diesel UST. Priority: High
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-2	B	2	44152 STERLING HWY
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-3	B	2	44024 STERLING HWY
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-4	B	2	43965 STERLING HWY

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Map Number</i>	<i>Comments</i>
Highways and roads, paved (cement or asphalt)	X20	X20-31-42	B	3	Approximately 12 roads in Zone B.
Motor vehicle/general storage yards/facilities	X27	X27-1	B	2	35338 KENAI SPUR HWY # 8
Motor vehicle/general storage yards/facilities	X27	X27-2	B	2	312 TYEE ST
Campgrounds and RV Parks	X35	X35-1	B	2	35546 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-19	B	2	35670 KENAI SPUR HWY # 101
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-20	B	2	35561 KENAI SPUR HWY # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-23	B	2	35251 SPUR HWY # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-24	B	2	35338 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-25	B	2	35338 KENAI SPUR HWY # 22
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-26	B	2	35338 KENAI SPUR HWY # 18
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-27	B	2	176 N BIRCH ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-28	B	2	224 KENAI AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-29	B	2	35477 KENAI SPUR HWY # 214
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-30	B	2	42479 STERLING HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-31	B	2	44109 STERLING HWY # D
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-32	B	2	35670 KENAI SPUR HWY # 103
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-33	B	2	35670 KENAI SPUR HWY # 104B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-34	B	2	35670 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-35	B	2	155 SMITHS WAY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-36	B	2	145 KASILOF ST

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Map Number</i>	<i>Comments</i>
Pharmacies (with on-site wastewater disposal)	C35	C35-2	C	2	43843 STERLING HWY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-6-8	C	3	3 large capacity septic systems in Zone C.
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-9	C	3	1 large capacity septic system in Zone D.
Pit toilets (vaulted) nonresidential (one or more)	D17	D17-1	C	2	
Pit toilets (vaulted) nonresidential (one or more)	D17	D17-2	C	2	
RV dump stations	D18	D18-1	C	2	
Residential Areas	R01	R01-3	C	3	90 residential acres in Zone C.
Septic systems (serves one single-family home)	R02	R02-64-110	C	3	47 residential septic systems in Zone C.
Tanks, diesel (underground)	T08	T08-7	C	2	43843 STERLING HWY
Tanks, gasoline (underground)	T12	T12-15	C	2	43843 STERLING HWY
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-14	C	2	Turnbuckle Terrace Road-Drum Dump. 5 barrels with unknown contents. Priority: Unranked.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-15	C	2	Sterling Hwy. East of "Y"-Mary Miller-Soldotna Junction. Surface stains in gravel, leaks, spills, sumps and possible LUST's. Site of garage and heavy construction equipment storage yards. Priority: Medium
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-17	C	2	Mile 2.5 Funny River Road. City of Soldotna Maintenance Facility. 1992 Diesel spill to the shop floor drain. Priority: Medium
Highways and roads, paved (cement or asphalt)	X20	X20-43-49	C	3	Approximately 7 roads in Zone C. Assumed to be paved.
Campgrounds and RV Parks	X35	X35-2	C	2	
Campgrounds and RV Parks	X35	X35-3	C		

Table 2

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Bacteria and Viruses*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Pharmacies (with on-site wastewater disposal)	C35	C35-1	A	Low	2	245 N BINKLEY ST
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D01-1-100	A	Medium	2	Assumed to be >100 sewerlines in Zone A.
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-1	A	High	3	1 large capacity septic system
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1	A	Low	2	BIRCH & STERLING HWY
Seafood processing	N10	N10-1	A	Medium	2	297 SUNRISE CT
Residential Areas	R01	R01-1	A	Low	3	15 residential acres in Zone A.
Septic systems (serves one single-family home)	R02	R02-1-21	A	Low	3	21 residential septic systems in Zone A
Highways and roads, paved (cement or asphalt)	X20	X20-1-30	A	Low	3	Approximately 30 roads in Zone A.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	A	Medium	2	232 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-10	A	Medium	2	133 W MARYDALE AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-11	A	Medium	2	167 WARE HOUSE DR # C
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-12	A	Medium	2	138 W MARYDALE AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-13	A	Medium	2	245 N BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-14	A	Medium	2	265 N BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-15	A	Medium	2	102 E REDOUBT AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-16	A	Medium	2	246 S BINKLEY ST

Table 2 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Bacteria and Viruses*

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-17	A	Medium	2	254 N BINKLEY ST # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-18	A	Medium	2	44539 STERLING HWY # 212
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-2	A	Medium	2	241 W KATMAI AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-21	A	Medium	2	44539 STERLING HWY # 214
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-22	A	Medium	3	35477 KENAI SPUR HWY # 201
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-3	A	Medium	2	206 W ROCKWELL AVE # 102
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-4	A	Medium	2	206 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-5	A	Medium	2	206 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-6	A	Medium	2	247 N FIREWEED ST # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-7	A	Medium	2	247 N FIREWEED ST # A
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-8	A	Medium	2	250 HOSPITAL PL
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-9	A	Medium	2	170 E CORRAL AVE # 4
Laundromats without dry cleaning	C22	C22-1	B	Low	2	121 SMITHS WAY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-2-5	B	High	3	4 large capacity septic systems in Zone B.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1-2	B	Low	3	2 motor vehicle waste disposal wells in Zone B.

Table 2 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Bacteria and Viruses*

PWSID 241054.005

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	D42-2	B	Low	2	44055 STERLING HWY
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-3	B	Low	2	44024 STERLING HWY
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-4	B	Low	2	43965 STERLING HWY
Seafood processing	N10	N10-2	B	Medium	2	35282 KENAI SPUR HWY
Residential Areas	R01	R01-2	B	Low	3	74 residential acres in Zone B.
Septic systems (serves one single-family home)	R02	R02--22-63	B	Low	3	42 residential septic systems in Zone B.
Highways and roads, paved (cement or asphalt)	X20	X20-31-42	B	Low	3	Approximately 12 roads in Zone B.
Campgrounds and RV Parks	X35	X35-1	B	Low	2	35546 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-19	B	Medium	2	35670 KENAI SPUR HWY # 101
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-20	B	Medium	2	35561 KENAI SPUR HWY # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-23	B	Medium	2	35251 SPUR HWY # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-24	B	Medium	2	35338 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-25	B	Medium	2	35338 KENAI SPUR HWY # 22
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-26	B	Medium	2	35338 KENAI SPUR HWY # 18
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-27	B	Medium	2	176 N BIRCH ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-28	B	Medium	2	224 KENAI AVE

Table 2 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Bacteria and Viruses*

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-29	B	Medium	2	35477 KENAI SPUR HWY # 214
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-30	B	Medium	2	42479 STERLING HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-31	B	Medium	2	44109 STERLING HWY # D
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-32	B	Medium	2	35670 KENAI SPUR HWY # 103
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-33	B	Medium	2	35670 KENAI SPUR HWY # 104B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-34	B	Medium	2	35670 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-35	B	Medium	2	155 SMITHS WAY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-36	B	Medium	2	145 KASILOF ST
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-6-8	C	High	3	3 large capacity septic systems in Zone C.
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-9	C	High	3	1 large capacity septic system in Zone D.
Residential Areas	R01	R01-3	C	Low	3	90 residential acres in Zone C.
Septic systems (serves one single-family home)	R02	R02-64-110	C	Low	3	47 residential septic systems in Zone C.
Highways and roads, paved (cement or asphalt)	X20	X20-43-49	C	Low	3	Approximately 7 roads in Zone C. Assumed to be paved.

Table 3

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Nitrates/Nitrites*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Hardware stores	C17	C17-1	A	Low	2	267 N ASPEN DR
Hardware stores	C17	C17-2	A	Low	2	180 S BINKLEY ST
Lawn and garden supplies/services	C23	C23-1	A	Medium	2	321 COLUMBINE ST
Pharmacies (with on-site wastewater disposal)	C35	C35-1	A	Low	2	245 N BINKLEY ST
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D01-1-100	A	Medium	2	Assumed to be >100 sewerlines in Zone A.
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-1	A	High	3	1 large capacity septic system
Seafood processing	N10	N10-1	A	Low	2	297 SUNRISE CT
Residential Areas	R01	R01-1	A	Low	3	15 residential acres in Zone A.
Septic systems (serves one single-family home)	R02	R02-1-21	A	Low	3	21 residential septic systems in Zone A
Highways and roads, paved (cement or asphalt)	X20	X20-1-30	A	Low	3	Approximately 30 roads in Zone A.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	A	Low	2	232 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-10	A	Low	2	133 W MARYDALE AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-11	A	Low	2	167 WARE HOUSE DR # C
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-12	A	Low	2	138 W MARYDALE AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-13	A	Low	2	245 N BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-14	A	Low	2	265 N BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-15	A	Low	2	102 E REDOUBT AVE

Table 3 (continued)

**Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Nitrates/Nitrites**

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-16	A	Low	2	246 S BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-17	A	Low	2	254 N BINKLEY ST # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-18	A	Low	2	44539 STERLING HWY # 212
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-2	A	Low	2	241 W KATMAI AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-21	A	Low	2	44539 STERLING HWY # 214
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-22	A	Low	3	35477 KENAI SPUR HWY # 201
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-3	A	Low	2	206 W ROCKWELL AVE # 102
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-4	A	Low	2	206 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-5	A	Low	2	206 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-6	A	Low	2	247 N FIREWEED ST # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-7	A	Low	2	247 N FIREWEED ST # A
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-8	A	Low	2	250 HOSPITAL PL
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-9	A	Low	2	170 E CORRAL AVE # 4
Florists	C12	C12-1	B	Low	2	35557 KENAI SPUR HWY
Hardware stores	C17	C17-3	B	Low	2	35477 KENAI SPUR HWY # 2
Hardware stores	C17	C17-4	B	Low	2	35440 KENAI SPUR HWY

Table 3 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Nitrates/Nitrites*

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Hardware stores	C17	C17-5	B	Low	2	35220 KENAI SPUR HWY
Hardware stores	C17	C17-6	B	Low	2	312 TYEE ST
Hardware stores	C17	C17-7	B	Low	2	35060 KENAI SPUR HWY
Laundromats without dry cleaning	C22	C22-1	B	Low	2	121 SMITHS WAY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-2-5	B	High	3	4 large capacity septic systems in Zone B.
Seafood processing	N10	N10-2	B	Low	2	35282 KENAI SPUR HWY
Residential Areas	R01	R01-2	B	Low	3	74 residential acres in Zone B.
Septic systems (serves one single-family home)	R02	R02--22-63	B	Low	3	42 residential septic systems in Zone B.
Highways and roads, paved (cement or asphalt)	X20	X20-31-42	B	Low	3	Approximately 12 roads in Zone B.
Campgrounds and RV Parks	X35	X35-1	B	Low	2	35546 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-19	B	Low	2	35670 KENAI SPUR HWY # 101
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-20	B	Low	2	35561 KENAI SPUR HWY # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-23	B	Low	2	35251 SPUR HWY # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-24	B	Low	2	35338 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-25	B	Low	2	35338 KENAI SPUR HWY # 22
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-26	B	Low	2	35338 KENAI SPUR HWY # 18
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-27	B	Low	2	176 N BIRCH ST

Table 3 (continued)

**Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Nitrates/Nitrites**

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-28	B	Low	2	224 KENAI AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-29	B	Low	2	35477 KENAI SPUR HWY # 214
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-30	B	Low	2	42479 STERLING HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-31	B	Low	2	44109 STERLING HWY # D
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-32	B	Low	2	35670 KENAI SPUR HWY # 103
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-33	B	Low	2	35670 KENAI SPUR HWY # 104B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-34	B	Low	2	35670 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-35	B	Low	2	155 SMITHS WAY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-36	B	Low	2	145 KASILOF ST
Pharmacies (with on-site wastewater disposal)	C35	C35-2	C	Low	2	43843 STERLING HWY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-6-8	C	High	3	3 large capacity septic systems in Zone C.
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-9	C	High	3	1 large capacity septic system in Zone D.
Pit toilets (vaulted) nonresidential (one or more)	D17	D17-1	C	Low	2	
Pit toilets (vaulted) nonresidential (one or more)	D17	D17-2	C	Low	2	
RV dump stations	D18	D18-1	C	Low	2	
Residential Areas	R01	R01-3	C	Low	3	90 residential acres in Zone C.

Table 3 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Nitrates/Nitrites*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Septic systems (serves one single-family home)	R02	R02-64-110	C	Low	3	47 residential septic systems in Zone C.
Highways and roads, paved (cement or asphalt)	X20	X20-43-49	C	Low	3	Approximately 7 roads in Zone C. Assumed to be paved.
Campgrounds and RV Parks	X35	X35-2	C	Low	2	
Campgrounds and RV Parks	X35	X35-3	C	Low		

Table 4

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Volatile Organic Chemicals*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Farm machinery areas	A03	A03-1	A	Low	2	265 N BINKLEY ST
Construction trade areas and materials	C09	C09-1	A	Low	2	241 N ASPEN DR
Construction trade areas and materials	C09	C09-2	A	Low	2	44539 STERLING HWY # 211
Gasoline stations (without repair shop)	C15	C15-2	A	High	2	44279 STERLING HWY
Hardware stores	C17	C17-1	A	Low	2	267 N ASPEN DR
Hardware stores	C17	C17-2	A	Low	2	180 S BINKLEY ST
Heavy equipment rental/storage	C18	C18-1	A	Medium	2	265 WILSON LN
Heavy equipment rental/storage	C18	C18-2	A	Medium	2	241 N ASPEN DR
Jewelers	C19	C19-1	A	Low	2	44332 STERLING HWY # 36
Pet groomers	C34	C34-1	A	Low	2	281 N ASPEN DR
Pet groomers	C34	C34-2	A	Low	2	HC 1 BOX 95
Photography supplies/photo processing laboratories	C36	C36-1	A	Medium	2	173 E REDOUBT AVE
Printers, publishers, copiers	C37	C37-1	A	High	2	44539 STERLING HWY # 209
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D01-1-100	A	Low	2	Assumed to be >100 sewerlines in Zone A.
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-1	A	Low	3	1 large capacity septic system
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1	A	High	2	BIRCH & STERLING HWY
Residential Areas	R01	R01-1	A	Low	3	15 residential acres in Zone A.
Septic systems (serves one single-family home)	R02	R02-1-21	A	Low	3	21 residential septic systems in Zone A
Tanks, diesel (underground)	T08	T08-2	A	High	2	44279 STERLING HWY

Table 4 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Volatile Organic Chemicals*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Closed tanks, diesel (underground)	T09	T09-1	A	Medium	2	238 WILSON
Tanks, gasoline (underground)	T12	T12-3	A	High	2	44279 STERLING HWY
Tanks, gasoline (underground)	T12	T12-4	A	High	2	44279 STERLING HWY
Tanks, gasoline (underground)	T12	T12-5	A	High	2	44279 STERLING HWY
Closed tanks, gasoline (underground)	T13	T13-1	A	Medium	2	238 WILSON
Closed tanks, gasoline (underground)	T13	T13-2	A	Medium	2	238 WILSON
Tanks, heating oil, nonresidential (underground)	T16	T16-1	A	Low	2	250 HOSPITAL PL
Tanks, heating oil, nonresidential (underground)	T16	T16-2	A	Low	2	250 HOSPITAL PL
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-1	A	Low	2	241 N ASPEN DR
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-2	A	Low	2	241 N ASPEN DR
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-1	A	Low	2	250 HOSPITAL PL. Central Peninsula General Hospital: Heating oil UST was removed. Fiberglass tank was in good condition when removed. Excavation was tested by a consultant and showed not contamination above matrix level A remained. Site Closed.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-3	A	High	2	Mile 95 Sterling Highway. Former Unocal Bulk Plant facility. The soil at the site is contaminated with diesel fuel and gasoline. Groundwater contamination suspected. Extent of contamination and health impact unknown. Priority: High
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-4	A	Low	3	North Aspen Drive. Drum spill on city street. 1992 55 gallon drum was discovered in the right-of-way of Aspen St. Soil excavated and removed from site. Priority: Low
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-5	A	Medium	2	144 N Binkley Street. Kenai Vocational Center. Observed storage tank closure, diesel contamination discovered in both soil and groundwater. Floor drains of building possible contributing source of contamination. Priority: Medium
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-8	A	High	2	44279 Sterling Highway-Texaco #207 Petroleum contamination present. Priority: High

Table 4 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Volatile Organic Chemicals*

PWSID 241054.005

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	U07-2	A	High	2	44279 STERLING HWY-In June 1988, contaminated soil was encountered during the removal of 4 USTs. Extent of contamination unknown. GW contaminated. Priority: High
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-1	A	Low	2	139 PARK AVE
Boat yards and marinas	X15	X15-1	A	Low	2	255 N ASPEN DR
Highways and roads, paved (cement or asphalt)	X20	X20-1-30	A	Low	3	Approximately 30 roads in Zone A.
Firehouses	X38	X38-1	A	Low	2	231 S BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	A	Low	2	232 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-10	A	Low	2	133 W MARYDALE AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-11	A	Low	2	167 WARE HOUSE DR # C
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-12	A	Low	2	138 W MARYDALE AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-13	A	Low	2	245 N BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-14	A	Low	2	265 N BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-15	A	Low	2	102 E REDOUBT AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-16	A	Low	2	246 S BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-17	A	Low	2	254 N BINKLEY ST # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-18	A	Low	2	44539 STERLING HWY # 212

Table 4 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Volatile Organic Chemicals*

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-2	A	Low	2	241 W KATMAI AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-21	A	Low	2	44539 STERLING HWY # 214
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-22	A	Low	3	35477 KENAI SPUR HWY # 201
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-3	A	Low	2	206 W ROCKWELL AVE # 102
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-4	A	Low	2	206 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-5	A	Low	2	206 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-6	A	Low	2	247 N FIREWEED ST # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-7	A	Low	2	247 N FIREWEED ST # A
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-8	A	Low	2	250 HOSPITAL PL
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-9	A	Low	2	170 E CORRAL AVE # 4
Car washes with engine or undercarriage cleaning	C08	C08-1	B	High	2	224 KENAI AVE
Construction trade areas and materials	C09	C09-3	B	Low	2	35581 KENAI SPUR HWY
Construction trade areas and materials	C09	C09-4	B	Low	2	224 KENAI AVE
Gasoline stations (without repair shop)	C15	C15-1	B	High	2	35482 KENAI SPUR HWY
Gasoline stations (without repair shop)	C15	C15-3	B	High	2	43883 STERLING HWY
Gasoline stations (with repair shop)	C16	C16-1	B	High	2	44224 STERLING HWY
Gasoline stations (with repair shop)	C16	C16-2	B	High	2	44152 STERLING HWY

Table 4 (continued)

**Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Volatile Organic Chemicals**

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Gasoline stations (with repair shop)	C16	C16-3	B	High	2	44024 STERLING HWY
Hardware stores	C17	C17-3	B	Low	2	35477 KENAI SPUR HWY # 2
Hardware stores	C17	C17-4	B	Low	2	35440 KENAI SPUR HWY
Hardware stores	C17	C17-5	B	Low	2	35220 KENAI SPUR HWY
Hardware stores	C17	C17-6	B	Low	2	312 TYEE ST
Hardware stores	C17	C17-7	B	Low	2	35060 KENAI SPUR HWY
Heavy equipment rental/storage	C18	C18-3	B	Medium	2	35338 KENAI SPUR HWY # 1
Heavy equipment rental/storage	C18	C18-4	B	Medium	2	224 KENAI AVE
Jewelers	C19	C19-2	B	Low	2	34851 KENAI SPUR HWY # 1
Laboratories (chemical, soils, and research)	C20	C20-1	B	Low	2	35186 KENAI SPUR HWY
Laundromats without dry cleaning	C22	C22-1	B	Low	2	121 SMITHS WAY
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-1	B	Medium	2	35105 KENAI SPUR HWY
Motor/motor vehicle supplies stores	C28	C28-1	B	Low	2	44096 STERLING HWY
Motor/motor vehicle supplies stores	C28	C28-2	B	Low	2	127 SMITHS WAY
Motor/motor vehicle supplies stores	C28	C28-3	B	Low	2	43867 STERLING HWY
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-1	B	Medium	2	43965 STERLING HWY
Motor /motor vehicle repair shops	C31	C31-1	B	Medium	2	369 TYEE ST
Motor /motor vehicle repair shops	C31	C31-2	B	Medium	2	44055 STERLING HWY
Motor /motor vehicle repair shops	C31	C31-3	B	Medium	2	43850 STERLING HWY

Table 4 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Volatile Organic Chemicals*

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Paint sales /service	C32	C32-1	B	Medium	2	35093 KENAI SPUR HWY
Pet groomers	C34	C34-3	B	Low	2	35324 KENAI SPUR HWY
Photography supplies/photo processing laboratories	C36	C36-2	B	Medium	2	35036 KENAI SPUR HWY
Printers, publishers, copiers	C37	C37-2	B	High	2	35251 KENAI SPUR HWY # A
Taxidermists	C41	C41-1	B	Medium	2	113 SMITHS WAY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-2-5	B	Low	3	4 large capacity septic systems in Zone B.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1-2	B	High	3	2 motor vehicle waste disposal wells in Zone B.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-2	B	High	2	44055 STERLING HWY
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-3	B	High	2	44024 STERLING HWY
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-4	B	High	2	43965 STERLING HWY
Cement manufacturing	I08	I08-1	B	High	2	224 KENAI AVE
Residential Areas	R01	R01-2	B	Low	3	74 residential acres in Zone B.
Septic systems (serves one single-family home)	R02	R02--22-63	B	Low	3	42 residential septic systems in Zone B.
Tanks, diesel (underground)	T08	T08-1	B	High	2	35482 KENAI SPUR HWY
Tanks, diesel (underground)	T08	T08-3	B	High	2	44224 STERLING HWY
Tanks, diesel (underground)	T08	T08-4	B	High	2	44152 STERLING HWY
Tanks, diesel (underground)	T08	T08-5	B	High	2	44024 STERLING HWY
Tanks, diesel (underground)	T08	T08-6	B	High	2	43883 STERLING HWY

Table 4 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Volatile Organic Chemicals*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Closed tanks, diesel (underground)	T09	T09-2	B	Medium	2	127 SMITH WAY
Tanks, gasoline (underground)	T12	T12-1	B	High	2	35482 KENAI SPUR HWY
Tanks, gasoline (underground)	T12	T12-10	B	High	2	44024 STERLING HWY
Tanks, gasoline (underground)	T12	T12-11	B	High	2	44024 STERLING HWY
Tanks, gasoline (underground)	T12	T12-12	B	High	2	44024 STERLING HWY
Tanks, gasoline (underground)	T12	T12-13	B	High	2	43883 STERLING HWY
Tanks, gasoline (underground)	T12	T12-14	B	High	2	43883 STERLING HWY
Tanks, gasoline (underground)	T12	T12-2	B	High	2	35482 KENAI SPUR HWY
Tanks, gasoline (underground)	T12	T12-6	B	High	2	44224 STERLING HWY
Tanks, gasoline (underground)	T12	T12-7	B	High	2	44224 STERLING HWY
Tanks, gasoline (underground)	T12	T12-8	B	High	2	44152 STERLING HWY
Tanks, gasoline (underground)	T12	T12-9	B	High	2	44152 STERLING HWY
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-10	B	High	2	Mile 94.6 Sterling Hwy.1992-Salt in sand pile leaching into groundwater and Kenai River. Priority: High
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-11	B	High	2	Mile 94.6 Sterling Hwy.1992-Spilled road paint may contain xylenes. Priority: High
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-12	B	High	2	44149 Sterling Highway-During the closure of the former ADOT&PF Soldotna Maintenance Facility, diesel range and residual range petroleum hydrocarbons were discovered. Priority: High
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-13	B	High	2	Mile 94.6 Sterling Hwy.-1994 diesel contamination in the leach field area, and gasoline contamination of groundwater in the vicinity of the road paint, salt, and asphalt storage area. Priority: High
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-6	B	High	2	35320 Kenai Spur Hwy- Coastal Drilling. Pit Suspected to contain old engines, oil drilling parts, vehicles, construction wastes, and drilling mud in unknown amounts. Known contamination by PCB's, BTEX, lead and chlorinated solvents. Priority: High

Table 4 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Volatile Organic Chemicals*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-9	B	Low	2	Town and Country Septic Disposal-Fontier Avenue. Off Ridgway Drilling mud reportedly dumped in seepage system in 1987. Priority: Low
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-1	B	Low	2	35482 KENAI SPUR HWY
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-3	B	Medium	2	44224 STERLING HWY-Gasoline soil contamination reported at fill pipe end of tanks. Quantity in-situ estimate of 60 cys. Possible groundwater impacts. Letter sent 10/26/99; remediation may start in spring 2000. Priority: Medium
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-4	B	High	2	44149 Sterling Highway-ADOT&PF Soldotna Maintenance Facilit
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U07-5	B	High	2	44149 Sterling Highway-ADOT&PF Soldotna Maintenance Facility-During a site assessment, diesel contaminated soil and GW encountered at a diesel UST. Priority: High
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-2	B	Low	2	44152 STERLING HWY
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-3	B	Low	2	44024 STERLING HWY
Closed Leaking Underground Fuel Storage Tank (LUST) Sites	U08	U08-4	B	Low	2	43965 STERLING HWY
Highways and roads, paved (cement or asphalt)	X20	X20-31-42	B	Low	3	Approximately 12 roads in Zone B.
Motor vehicle/general storage yards/facilities	X27	X27-1	B	Low	2	35338 KENAI SPUR HWY # 8
Motor vehicle/general storage yards/facilities	X27	X27-2	B	Low	2	312 TYEE ST
Campgrounds and RV Parks	X35	X35-1	B	Low	2	35546 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-19	B	Low	2	35670 KENAI SPUR HWY # 101
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-20	B	Low	2	35561 KENAI SPUR HWY # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-23	B	Low	2	35251 SPUR HWY # B

Table 4 (continued)

**Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Volatile Organic Chemicals**

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-24	B	Low	2	35338 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-25	B	Low	2	35338 KENAI SPUR HWY # 22
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-26	B	Low	2	35338 KENAI SPUR HWY # 18
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-27	B	Low	2	176 N BIRCH ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-28	B	Low	2	224 KENAI AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-29	B	Low	2	35477 KENAI SPUR HWY # 214
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-30	B	Low	2	42479 STERLING HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-31	B	Low	2	44109 STERLING HWY # D
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-32	B	Low	2	35670 KENAI SPUR HWY # 103
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-33	B	Low	2	35670 KENAI SPUR HWY # 104B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-34	B	Low	2	35670 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-35	B	Low	2	155 SMITHS WAY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-36	B	Low	2	145 KASILOF ST
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-6-8	C	Low	3	3 large capacity septic systems in Zone C.
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-9	C	Low	3	1 large capacity septic system in Zone D.

Table 4 (continued)

**Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Volatile Organic Chemicals**

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
RV dump stations	D18	D18-1	C	Low	2	
Residential Areas	R01	R01-3	C	Low	3	90 residential acres in Zone C.
Septic systems (serves one single-family home)	R02	R02-64-110	C	Low	3	47 residential septic systems in Zone C.
Tanks, diesel (underground)	T08	T08-7	C	High	2	43843 STERLING HWY
Tanks, gasoline (underground)	T12	T12-15	C	High	2	43843 STERLING HWY
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-14	C	Low	2	Turnbuckle Terrace Road-Drum Dump. 5 barrels with unknown contents. Priority: Unranked.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-15	C	Medium	2	Sterling Hwy. East of "Y"-Mary Miller-Soldotna Junction. Surface stains in gravel, leaks, spills, sumps and possible LUST's. Site of garage and heavy construction equipment storage yards. Priority: Medium
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-17	C	Medium	2	Mile 2.5 Funny River Road. City of Soldotna Maintenance Facility. 1992 Diesel spill to the shop floor drain. Priority: Medium
Highways and roads, paved (cement or asphalt)	X20	X20-43-49	C	Low	3	Approximately 7 roads in Zone C. Assumed to be paved.
Campgrounds and RV Parks	X35	X35-2	C	Low	2	
Campgrounds and RV Parks	X35	X35-3	C	Low		

Table 5

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Farm machinery areas	A03	A03-1	A	Low	2	265 N BINKLEY ST
Construction trade areas and materials	C09	C09-1	A	Low	2	241 N ASPEN DR
Construction trade areas and materials	C09	C09-2	A	Low	2	44539 STERLING HWY # 211
Gasoline stations (without repair shop)	C15	C15-2	A	Low	2	44279 STERLING HWY
Hardware stores	C17	C17-1	A	Low	2	267 N ASPEN DR
Hardware stores	C17	C17-2	A	Low	2	180 S BINKLEY ST
Heavy equipment rental/storage	C18	C18-1	A	Low	2	265 WILSON LN
Heavy equipment rental/storage	C18	C18-2	A	Low	2	241 N ASPEN DR
Jewelers	C19	C19-1	A	Low	2	44332 STERLING HWY # 36
Lawn and garden supplies/services	C23	C23-1	A	Low	2	321 COLUMBINE ST
Pharmacies (with on-site wastewater disposal)	C35	C35-1	A	Low	2	245 N BINKLEY ST
Photography supplies/photo processing laboratories	C36	C36-1	A	Medium	2	173 E REDOUBT AVE
Printers, publishers, copiers	C37	C37-1	A	Medium	2	44539 STERLING HWY # 209
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D01-1-100	A	Low	2	Assumed to be >100 sewerlines in Zone A.
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-1	A	Low	3	1 large capacity septic system
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1	A	High	2	BIRCH & STERLING HWY
Battery manufacturing/recycling	I06	I06-1	A	Very High	2	155 TRUMPETER AVE
Residential Areas	R01	R01-1	A	Low	3	15 residential acres in Zone A.
Septic systems (serves one single-family home)	R02	R02-1-21	A	Low	3	21 residential septic systems in Zone A

Table 5 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Tanks, gasoline (underground)	T12	T12-3	A	Medium	2	44279 STERLING HWY
Tanks, gasoline (underground)	T12	T12-4	A	Medium	2	44279 STERLING HWY
Tanks, gasoline (underground)	T12	T12-5	A	Medium	2	44279 STERLING HWY
Tanks, heating oil, nonresidential (underground)	T16	T16-1	A	Low	2	250 HOSPITAL PL
Tanks, heating oil, nonresidential (underground)	T16	T16-2	A	Low	2	250 HOSPITAL PL
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-1	A	Low	2	241 N ASPEN DR
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-2	A	Low	2	241 N ASPEN DR
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-3	A	High	2	Mile 95 Sterling Highway. Former Unocal Bulk Plant facility. The soil at the site is contaminated with diesel fuel and gasoline. Groundwater contamination suspected. Extent of contamination and health impact unknown. Priority: High
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-4	A	Low	3	North Aspen Drive. Drum spill on city street. 1992 55 gallon drum was discovered in the right-of-way of Aspne St. Soil excavated and removed from site. Priority: Low
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-8	A	High	2	44279 Sterling Highway-Texaco #207 Petroleum contamination present. Priority: High
Boat yards and marinas	X15	X15-1	A	Low	2	255 N ASPEN DR
Highways and roads, paved (cement or asphalt)	X20	X20-1-30	A	Low	3	Approximately 30 roads in Zone A.
Firehouses	X38	X38-1	A	Low	2	231 S BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	A	Low	2	232 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-10	A	Low	2	133 W MARYDALE AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-11	A	Low	2	167 WARE HOUSE DR # C

Table 5 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals*

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-12	A	Low	2	138 W MARYDALE AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-13	A	Low	2	245 N BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-14	A	Low	2	265 N BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-15	A	Low	2	102 E REDOUBT AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-16	A	Low	2	246 S BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-17	A	Low	2	254 N BINKLEY ST # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-18	A	Low	2	44539 STERLING HWY # 212
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-2	A	Low	2	241 W KATMAI AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-21	A	Low	2	44539 STERLING HWY # 214
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-22	A	Low	3	35477 KENAI SPUR HWY # 201
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-3	A	Low	2	206 W ROCKWELL AVE # 102
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-4	A	Low	2	206 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-5	A	Low	2	206 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-6	A	Low	2	247 N FIREWEED ST # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-7	A	Low	2	247 N FIREWEED ST # A

Table 5 (continued)

**Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals**

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-8	A	Low	2	250 HOSPITAL PL
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-9	A	Low	2	170 E CORRAL AVE # 4
Car washes with engine or undercarriage cleaning	C08	C08-1	B	Medium	2	224 KENAI AVE
Construction trade areas and materials	C09	C09-3	B	Low	2	35581 KENAI SPUR HWY
Construction trade areas and materials	C09	C09-4	B	Low	2	224 KENAI AVE
Florists	C12	C12-1	B	Low	2	35557 KENAI SPUR HWY
Gasoline stations (without repair shop)	C15	C15-1	B	Low	2	35482 KENAI SPUR HWY
Gasoline stations (without repair shop)	C15	C15-3	B	Low	2	43883 STERLING HWY
Gasoline stations (with repair shop)	C16	C16-1	B	Low	2	44224 STERLING HWY
Gasoline stations (with repair shop)	C16	C16-2	B	Low	2	44152 STERLING HWY
Gasoline stations (with repair shop)	C16	C16-3	B	Low	2	44024 STERLING HWY
Hardware stores	C17	C17-3	B	Low	2	35477 KENAI SPUR HWY # 2
Hardware stores	C17	C17-4	B	Low	2	35440 KENAI SPUR HWY
Hardware stores	C17	C17-5	B	Low	2	35220 KENAI SPUR HWY
Hardware stores	C17	C17-6	B	Low	2	312 TYEE ST
Hardware stores	C17	C17-7	B	Low	2	35060 KENAI SPUR HWY
Heavy equipment rental/storage	C18	C18-3	B	Low	2	35338 KENAI SPUR HWY # 1
Heavy equipment rental/storage	C18	C18-4	B	Low	2	224 KENAI AVE
Jewelers	C19	C19-2	B	Low	2	34851 KENAI SPUR HWY # 1

Table 5 (continued)

Contaminant Source Inventory and Risk Ranking for

PWSID 241054.005

City of Soldotna-Well A

Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Laboratories (chemical, soils, and research)	C20	C20-1	B	Low	2	35186 KENAI SPUR HWY
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-1	B	Low	2	35105 KENAI SPUR HWY
Motor/motor vehicle supplies stores	C28	C28-1	B	Low	2	44096 STERLING HWY
Motor/motor vehicle supplies stores	C28	C28-2	B	Low	2	127 SMITHS WAY
Motor/motor vehicle supplies stores	C28	C28-3	B	Low	2	43867 STERLING HWY
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-1	B	Low	2	43965 STERLING HWY
Motor /motor vehicle repair shops	C31	C31-1	B	Medium	2	369 TYEE ST
Motor /motor vehicle repair shops	C31	C31-2	B	Medium	2	44055 STERLING HWY
Motor /motor vehicle repair shops	C31	C31-3	B	Medium	2	43850 STERLING HWY
Paint sales /service	C32	C32-1	B	Low	2	35093 KENAI SPUR HWY
Photography supplies/photo processing laboratories	C36	C36-2	B	Medium	2	35036 KENAI SPUR HWY
Printers, publishers, copiers	C37	C37-2	B	Medium	2	35251 KENAI SPUR HWY # A
Taxidermists	C41	C41-1	B	Low	2	113 SMITHS WAY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-2-5	B	Low	3	4 large capacity septic systems in Zone B.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1-2	B	High	3	2 motor vehicle waste disposal wells in Zone B.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-2	B	High	2	44055 STERLING HWY
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-3	B	High	2	44024 STERLING HWY

Table 5 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-4	B	High	2	43965 STERLING HWY
Cement manufacturing	I08	I08-1	B	Medium	2	224 KENAI AVE
Residential Areas	R01	R01-2	B	Low	3	74 residential acres in Zone B.
Septic systems (serves one single-family home)	R02	R02--22-63	B	Low	3	42 residential septic systems in Zone B.
Tanks, gasoline (underground)	T12	T12-1	B	Medium	2	35482 KENAI SPUR HWY
Tanks, gasoline (underground)	T12	T12-10	B	Medium	2	44024 STERLING HWY
Tanks, gasoline (underground)	T12	T12-11	B	Medium	2	44024 STERLING HWY
Tanks, gasoline (underground)	T12	T12-12	B	Medium	2	44024 STERLING HWY
Tanks, gasoline (underground)	T12	T12-13	B	Medium	2	43883 STERLING HWY
Tanks, gasoline (underground)	T12	T12-14	B	Medium	2	43883 STERLING HWY
Tanks, gasoline (underground)	T12	T12-2	B	Medium	2	35482 KENAI SPUR HWY
Tanks, gasoline (underground)	T12	T12-6	B	Medium	2	44224 STERLING HWY
Tanks, gasoline (underground)	T12	T12-7	B	Medium	2	44224 STERLING HWY
Tanks, gasoline (underground)	T12	T12-8	B	Medium	2	44152 STERLING HWY
Tanks, gasoline (underground)	T12	T12-9	B	Medium	2	44152 STERLING HWY
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-2	B	Low	2	Kenai Spur Highway-Drum dump behind Alaska Truss. Possible PCB contamination. Priority: Unranked
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-6	B	High	2	35320 Kenai Spur Hwy- Coastal Drilling. Pit Suspected to contain old engines, oil drilling parts, vehicles, construction wastes, and drilling mud in unknown amounts. Known contamination by PCB's, BTEX, lead and chlorinated solvents. Priority: High
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-9	B	Low	2	Town and Country Septic Disposal-Fontier Avenue. Off Ridgway Drilling mud reportedly dumped in septage system in 1987. Priority: Low

Table 5 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals*

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Highways and roads, paved (cement or asphalt)	X20	X20-31-42	B	Low	3	Approximately 12 roads in Zone B.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-19	B	Low	2	35670 KENAI SPUR HWY # 101
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-20	B	Low	2	35561 KENAI SPUR HWY # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-23	B	Low	2	35251 SPUR HWY # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-24	B	Low	2	35338 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-25	B	Low	2	35338 KENAI SPUR HWY # 22
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-26	B	Low	2	35338 KENAI SPUR HWY # 18
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-27	B	Low	2	176 N BIRCH ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-28	B	Low	2	224 KENAI AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-29	B	Low	2	35477 KENAI SPUR HWY # 214
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-30	B	Low	2	42479 STERLING HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-31	B	Low	2	44109 STERLING HWY # D
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-32	B	Low	2	35670 KENAI SPUR HWY # 103
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-33	B	Low	2	35670 KENAI SPUR HWY # 104B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-34	B	Low	2	35670 KENAI SPUR HWY

Table 5 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-35	B	Low	2	155 SMITHS WAY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-36	B	Low	2	145 KASILOF ST
Pharmacies (with on-site wastewater disposal)	C35	C35-2	C	Low	2	43843 STERLING HWY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-6-8	C	Low	3	3 large capacity septic systems in Zone C.
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-9	C	Low	3	1 large capacity septic system in Zone D.
RV dump stations	D18	D18-1	C	Low	2	
Residential Areas	R01	R01-3	C	Low	3	90 residential acres in Zone C.
Septic systems (serves one single-family home)	R02	R02-64-110	C	Low	3	47 residential septic systems in Zone C.
Tanks, gasoline (underground)	T12	T12-15	C	Medium	2	43843 STERLING HWY
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-14	C	Low	2	Turnbuckle Terrace Road-Drum Dump. 5 barrels with unknown contents. Priority: Unranked.
Highways and roads, paved (cement or asphalt)	X20	X20-43-49	C	Low	3	Approximately 7 roads in Zone C. Assumed to be paved.

Table 6

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Synthetic Organic Chemicals*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Farm machinery areas	A03	A03-1	A	Medium	2	265 N BINKLEY ST
Lawn and garden supplies/services	C23	C23-1	A	Medium	2	321 COLUMBINE ST
Pet groomers	C34	C34-1	A	Low	2	281 N ASPEN DR
Pet groomers	C34	C34-2	A	Low	2	HC 1 BOX 95
Photography supplies/photo processing laboratories	C36	C36-1	A	Low	2	173 E REDOUBT AVE
Printers, publishers, copiers	C37	C37-1	A	Low	2	44539 STERLING HWY # 209
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D01-1-100	A	Low	2	Assumed to be >100 sewerlines in Zone A.
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-1	A	Low	3	1 large capacity septic system
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1	A	Low	2	BIRCH & STERLING HWY
Residential Areas	R01	R01-1	A	Low	3	15 residential acres in Zone A.
Septic systems (serves one single-family home)	R02	R02-1-21	A	Low	3	21 residential septic systems in Zone A
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	A	Low	2	232 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-10	A	Low	2	133 W MARYDALE AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-11	A	Low	2	167 WARE HOUSE DR # C
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-12	A	Low	2	138 W MARYDALE AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-13	A	Low	2	245 N BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-14	A	Low	2	265 N BINKLEY ST

Table 6 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Synthetic Organic Chemicals*

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-15	A	Low	2	102 E REDOUBT AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-16	A	Low	2	246 S BINKLEY ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-17	A	Low	2	254 N BINKLEY ST # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-18	A	Low	2	44539 STERLING HWY # 212
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-2	A	Low	2	241 W KATMAI AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-21	A	Low	2	44539 STERLING HWY # 214
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-22	A	Low	3	35477 KENAI SPUR HWY # 201
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-3	A	Low	2	206 W ROCKWELL AVE # 102
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-4	A	Low	2	206 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-5	A	Low	2	206 W ROCKWELL AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-6	A	Low	2	247 N FIREWEED ST # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-7	A	Low	2	247 N FIREWEED ST # A
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-8	A	Low	2	250 HOSPITAL PL
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-9	A	Low	2	170 E CORRAL AVE # 4
Paint sales /service	C32	C32-1	B	Low	2	35093 KENAI SPUR HWY

Table 6 (continued)

**Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Synthetic Organic Chemicals**

PWSID 241054.005

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Pet groomers	C34	C34-3	B	Low	2	35324 KENAI SPUR HWY
Photography supplies/photo processing laboratories	C36	C36-2	B	Low	2	35036 KENAI SPUR HWY
Printers, publishers, copiers	C37	C37-2	B	Low	2	35251 KENAI SPUR HWY # A
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-2-5	B	Low	3	4 large capacity septic systems in Zone B.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1-2	B	Low	3	2 motor vehicle waste disposal wells in Zone B.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-2	B	Low	2	44055 STERLING HWY
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-3	B	Low	2	44024 STERLING HWY
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-4	B	Low	2	43965 STERLING HWY
Residential Areas	R01	R01-2	B	Low	3	74 residential acres in Zone B.
Septic systems (serves one single-family home)	R02	R02--22-63	B	Low	3	42 residential septic systems in Zone B.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-19	B	Low	2	35670 KENAI SPUR HWY # 101
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-20	B	Low	2	35561 KENAI SPUR HWY # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-23	B	Low	2	35251 SPUR HWY # B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-24	B	Low	2	35338 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-25	B	Low	2	35338 KENAI SPUR HWY # 22
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-26	B	Low	2	35338 KENAI SPUR HWY # 18

Table 6 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Synthetic Organic Chemicals*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-27	B	Low	2	176 N BIRCH ST
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-28	B	Low	2	224 KENAI AVE
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-29	B	Low	2	35477 KENAI SPUR HWY # 214
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-30	B	Low	2	42479 STERLING HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-31	B	Low	2	44109 STERLING HWY # D
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-32	B	Low	2	35670 KENAI SPUR HWY # 103
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-33	B	Low	2	35670 KENAI SPUR HWY # 104B
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-34	B	Low	2	35670 KENAI SPUR HWY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-35	B	Low	2	155 SMITHS WAY
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-36	B	Low	2	145 KASILOF ST
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-6-8	C	Low	3	3 large capacity septic systems in Zone C.
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-9	C	Low	3	1 large capacity septic system in Zone D.
Residential Areas	R01	R01-3	C	Low	3	90 residential acres in Zone C.
Septic systems (serves one single-family home)	R02	R02-64-110	C	Low	3	47 residential septic systems in Zone C.

Table 7

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Other Organic Chemicals*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Farm machinery areas	A03	A03-1	A	Low	2	265 N BINKLEY ST
Construction trade areas and materials	C09	C09-1	A	Low	2	241 N ASPEN DR
Construction trade areas and materials	C09	C09-2	A	Low	2	44539 STERLING HWY # 211
Gasoline stations (without repair shop)	C15	C15-2	A	Low	2	44279 STERLING HWY
Hardware stores	C17	C17-1	A	Low	2	267 N ASPEN DR
Hardware stores	C17	C17-2	A	Low	2	180 S BINKLEY ST
Heavy equipment rental/storage	C18	C18-1	A	Medium	2	265 WILSON LN
Heavy equipment rental/storage	C18	C18-2	A	Medium	2	241 N ASPEN DR
Photography supplies/photo processing laboratories	C36	C36-1	A	Low	2	173 E REDOUBT AVE
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D01-1-100	A	Low	2	Assumed to be >100 sewerlines in Zone A.
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-1	A	Low	3	1 large capacity septic system
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1	A	Medium	2	BIRCH & STERLING HWY
Residential Areas	R01	R01-1	A	Low	3	15 residential acres in Zone A.
Septic systems (serves one single-family home)	R02	R02-1-21	A	Low	3	21 residential septic systems in Zone A
Boat yards and marinas	X15	X15-1	A	Low	2	255 N ASPEN DR
Highways and roads, paved (cement or asphalt)	X20	X20-1-30	A	Low	3	Approximately 30 roads in Zone A.
Car washes with engine or undercarriage cleaning	C08	C08-1	B	Medium	2	224 KENAI AVE
Construction trade areas and materials	C09	C09-3	B	Low	2	35581 KENAI SPUR HWY
Construction trade areas and materials	C09	C09-4	B	Low	2	224 KENAI AVE

Table 7 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Other Organic Chemicals*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Gasoline stations (without repair shop)	C15	C15-1	B	Low	2	35482 KENAI SPUR HWY
Gasoline stations (without repair shop)	C15	C15-3	B	Low	2	43883 STERLING HWY
Gasoline stations (with repair shop)	C16	C16-1	B	Medium	2	44224 STERLING HWY
Gasoline stations (with repair shop)	C16	C16-2	B	Medium	2	44152 STERLING HWY
Gasoline stations (with repair shop)	C16	C16-3	B	Medium	2	44024 STERLING HWY
Hardware stores	C17	C17-3	B	Low	2	35477 KENAI SPUR HWY # 2
Hardware stores	C17	C17-4	B	Low	2	35440 KENAI SPUR HWY
Hardware stores	C17	C17-5	B	Low	2	35220 KENAI SPUR HWY
Hardware stores	C17	C17-6	B	Low	2	312 TYEE ST
Hardware stores	C17	C17-7	B	Low	2	35060 KENAI SPUR HWY
Heavy equipment rental/storage	C18	C18-3	B	Medium	2	35338 KENAI SPUR HWY # 1
Heavy equipment rental/storage	C18	C18-4	B	Medium	2	224 KENAI AVE
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-1	B	Medium	2	35105 KENAI SPUR HWY
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-1	B	Medium	2	43965 STERLING HWY
Motor /motor vehicle repair shops	C31	C31-1	B	Medium	2	369 TYEE ST
Motor /motor vehicle repair shops	C31	C31-2	B	Medium	2	44055 STERLING HWY
Motor /motor vehicle repair shops	C31	C31-3	B	Medium	2	43850 STERLING HWY
Photography supplies/photo processing laboratories	C36	C36-2	B	Low	2	35036 KENAI SPUR HWY
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-2-5	B	Low	3	4 large capacity septic systems in Zone B.

Table 7 (continued)

*Contaminant Source Inventory and Risk Ranking for
City of Soldotna-Well A
Sources of Other Organic Chemicals*

PWSID 241054.005

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1-2	B	Medium	3	2 motor vehicle waste disposal wells in Zone B.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-2	B	Medium	2	44055 STERLING HWY
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-3	B	Medium	2	44024 STERLING HWY
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-4	B	Medium	2	43965 STERLING HWY
Cement manufacturing	I08	I08-1	B	Very High	2	224 KENAI AVE
Residential Areas	R01	R01-2	B	Low	3	74 residential acres in Zone B.
Septic systems (serves one single-family home)	R02	R02--22-63	B	Low	3	42 residential septic systems in Zone B.
Highways and roads, paved (cement or asphalt)	X20	X20-31-42	B	Low	3	Approximately 12 roads in Zone B.
Motor vehicle/general storage yards/facilities	X27	X27-1	B	Low	2	35338 KENAI SPUR HWY # 8
Motor vehicle/general storage yards/facilities	X27	X27-2	B	Low	2	312 TYEE ST
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-6-8	C	Low	3	3 large capacity septic systems in Zone C.
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-9	C	Low	3	1 large capacity septic system in Zone D.
Residential Areas	R01	R01-3	C	Low	3	90 residential acres in Zone C.
Septic systems (serves one single-family home)	R02	R02-64-110	C	Low	3	47 residential septic systems in Zone C.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U04-14	C	Low	2	Turnbuckle Terrace Road-Drum Dump. 5 barrels with unknown contents. Priority: Unranked.
Highways and roads, paved (cement or asphalt)	X20	X20-43-49	C	Low	3	Approximately 7 roads in Zone C. Assumed to be paved.

APPENDIX C

City of Soldotna-Well A Drinking Water Protection Area and Potential and Existing Contaminant Sources (Map 2 and 3)

City of Soldotna Well A

PWSID 241054.005

- Residential Area (R02)
- Injection wells (Class V) Septic System (Drainfield Disposal Method) (D10)
- Septic systems (serves one single-family home and/or less than 20 people)(R02)
- Alaska contam_poly selection
- Quarries (E10)
- Farm machinery areas (A03)
- Car washes with engine or undercarriage cleaning (C08)
- Construction trade areas and materials (C09)
- Florists (C12)
- Gasoline stations (without repair shop) (C15)
- Gasoline stations (with repair shop) (C16)
- Hardware stores (C17)
- Heavy equipment rental/storage (C18)
- Jewelers (C19)
- Laboratories (chemical, soils, and research) (C20)
- Laundromats without dry cleaning (C22)
- Lawn and garden supplies/services (C23)
- Motor vehicle dealerships (with service department) (C27)
- Motor/motor vehicle supplies stores (C28)
- Motor vehicle rental facilities (with service department) (C30)
- Motor/motor vehicle repair shops (C31)
- Paint sales/service (C32)
- Pet groomers (C34)
- Pharmacies (with on-site wastewater disposal) (C35)
- Photography supplies/photo processing laboratories (C36)
- Printers, publishers, copiers (C37)
- Taxidermists (C41)
- Pit toilets (vaulted) nonresidential (one or more) (D17)
- RV dump stations (D18)
- Injection wells (Class V) Motor Vehicle Waste Disposal Well (D42)
- Battery manufacturing/recycling (I06)
- Cement Manufacturing (I08)
- Seafood processing (N10)
- Tanks, diesel (underground) (T08)
- Closed tanks, diesel (underground) (T09)
- Tanks, gasoline (underground) (T12)
- Closed tanks, gasoline (underground) (T13)
- Tanks, heating oil, nonresidential (underground) (T16)
- Closed tanks, lubricants or other petroleum products (underground) (T21)
- Contaminated sites, DEC recognized, non-Superfund, non-RCRA (U04)
- Open Leaking Underground Fuel Storage Tank (LUST) Sites (U07)
- Closed Leaking Underground Fuel Storage Tank (LUST) Sites (U08)
- Boat yards and marinas (X15)
- Motor vehicle/general storage yards/facilities (X27)
- Campgrounds and RV Parks (X35)
- Firehouses (X38)
- Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes) (X40)

Data Sources:
ADEC-Potential Sources of Contamination
Kenai Peninsula Borough-roads, parcels

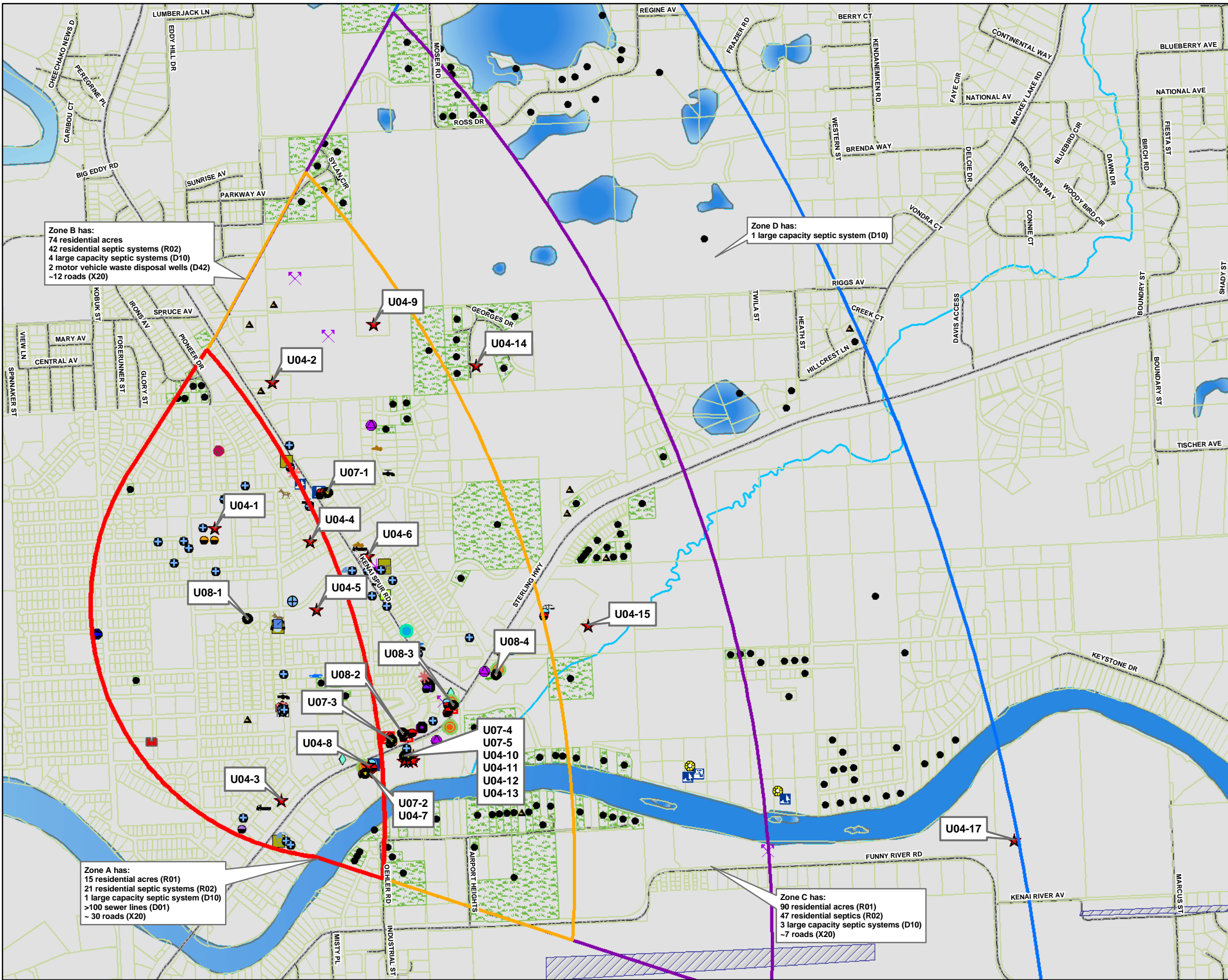
0 720 1,440 Feet



1:8,640

Map 2

City of Soldotna
Well A
PWSID 241054.005



- Residential Area (R02)
- Injection wells (Class V) Septic System (Drainfield Disposal Method) (D10)
- Septic systems (serves one single-family home and/or less than 20 people)(R02)
- Airport/Runway (X14)
- Quarries (E10)
- Farm machinery areas (A03)
- Car washes with engine or undercarriage cleaning (C08)
- Construction trade areas and materials (C09)
- Florists (C12)
- Gasoline stations (without repair shop) (C15)
- Gasoline stations (with repair shop) (C16)
- Hardware stores (C17)
- Heavy equipment rental/storage (C18)
- Jewelers (C19)
- Laboratories (chemical, soils, and research) (C20)
- Laundromats without dry cleaning (C22)
- Lawn and garden supplies/services (C23)
- Motor vehicle dealerships (with service department) (C27)
- Motor/motor vehicle supplies stores (C28)
- Motor vehicle rental facilities (with service department) (C30)
- Motor /motor vehicle repair shops (C31)
- Paint sales /service (C32)
- Pet groomers (C34)
- Pharmacies (with on-site wastewater disposal) (C35)
- Photography supplies/photo processing laboratories (C36)
- Printers, publishers, copiers (C37)
- Taxidermists (C41)
- Pit toilets (vaulted) nonresidential (one or more) (D17)
- RV dump stations (D18)
- Injection wells (Class V) Motor Vehicle Waste Disposal Well (D42)
- Battery manufacturing/recycling (I06)
- Cement Manufacturing (I08)
- Seafood processing (N10)
- Tanks, diesel (underground) (T08)
- Closed tanks, diesel (underground) (T09)
- Tanks, gasoline (underground) (T12)
- Closed tanks, gasoline (underground) (T13)
- Tanks, heating oil, nonresidential (underground) (T16)
- Closed tanks, lubricants or other petroleum products (underground) (T21)
- Contaminated sites, DEC recognized, non-Superfund, non-RCRA (U04)
- Open Leaking Underground Fuel Storage Tank (LUST) Sites (U07)
- Closed Leaking Underground Fuel Storage Tank (LUST) Sites (U08)
- Boat yards and marinas (X15)
- Motor vehicle/general storage yards/facilities (X27)
- Campgrounds and RV Parks (X35)
- Firehouses (X38)
- Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes) (X40)

Data Sources:
ADEC-Potential Sources of Contamination
Kenai Peninsula Borough-roads, parcels

0 1,400 2,800 Feet
1:17,249

APPENDIX D

Vulnerability Analysis for City of Soldotna-Well A Public Drinking Water Source (Charts 1-14)

Chart 1. Susceptibility of the wellhead - City of Soldotna-Well A PWSID 241054.005

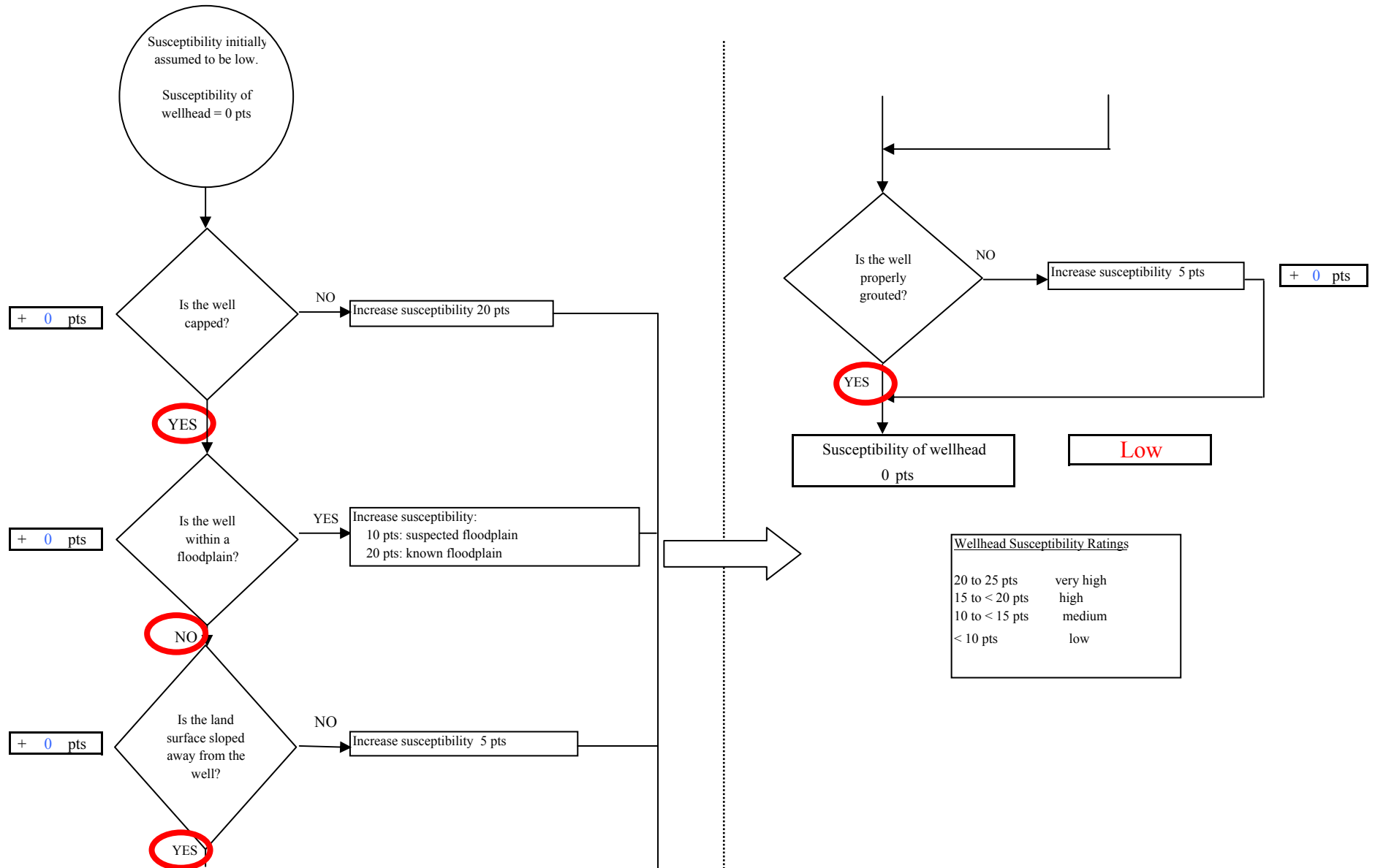


Chart 2. Susceptibility of the aquifer - City of Soldotna-Well A PWSID 241054.005

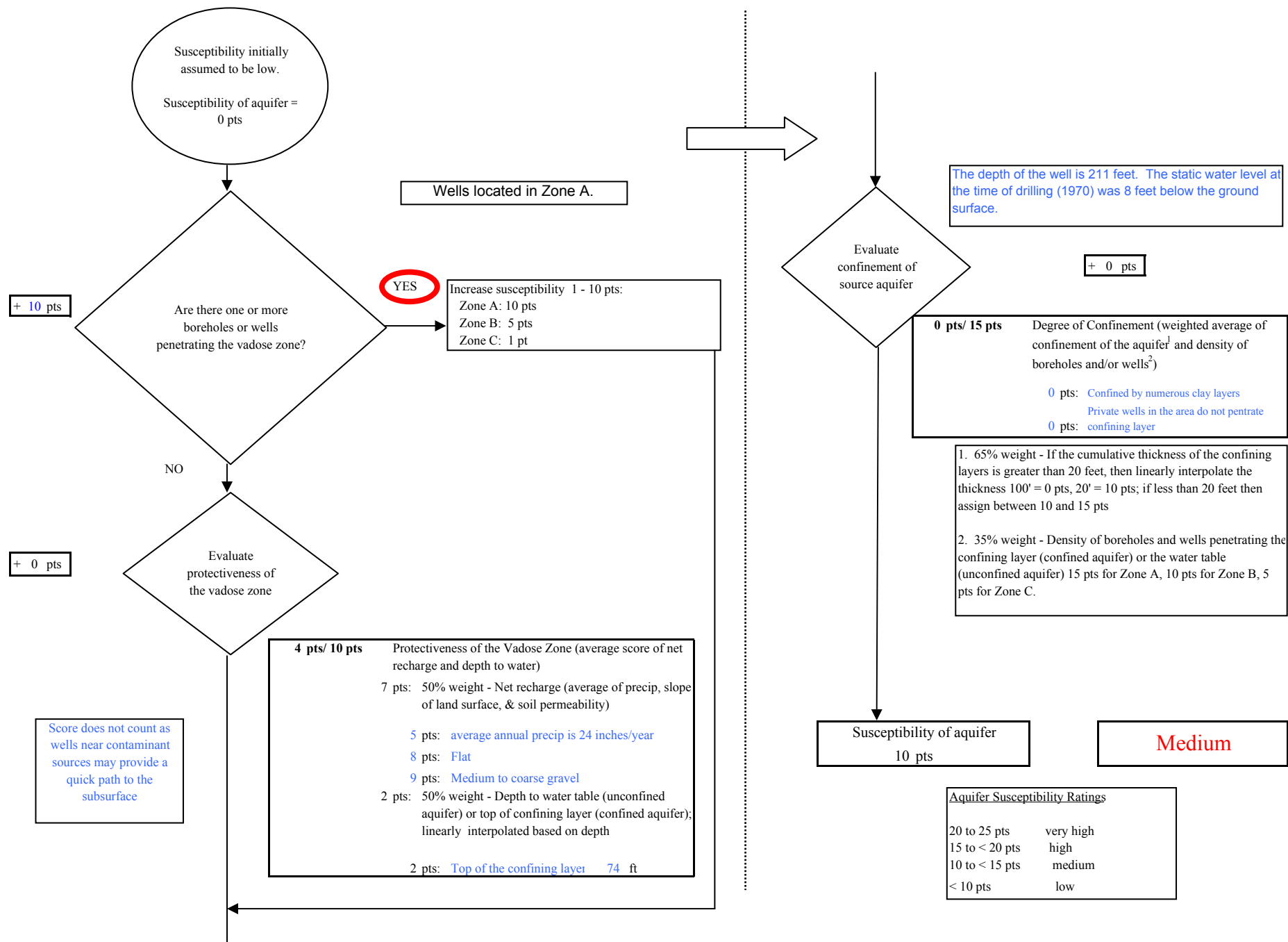


Chart 3. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Bacteria & Viruses

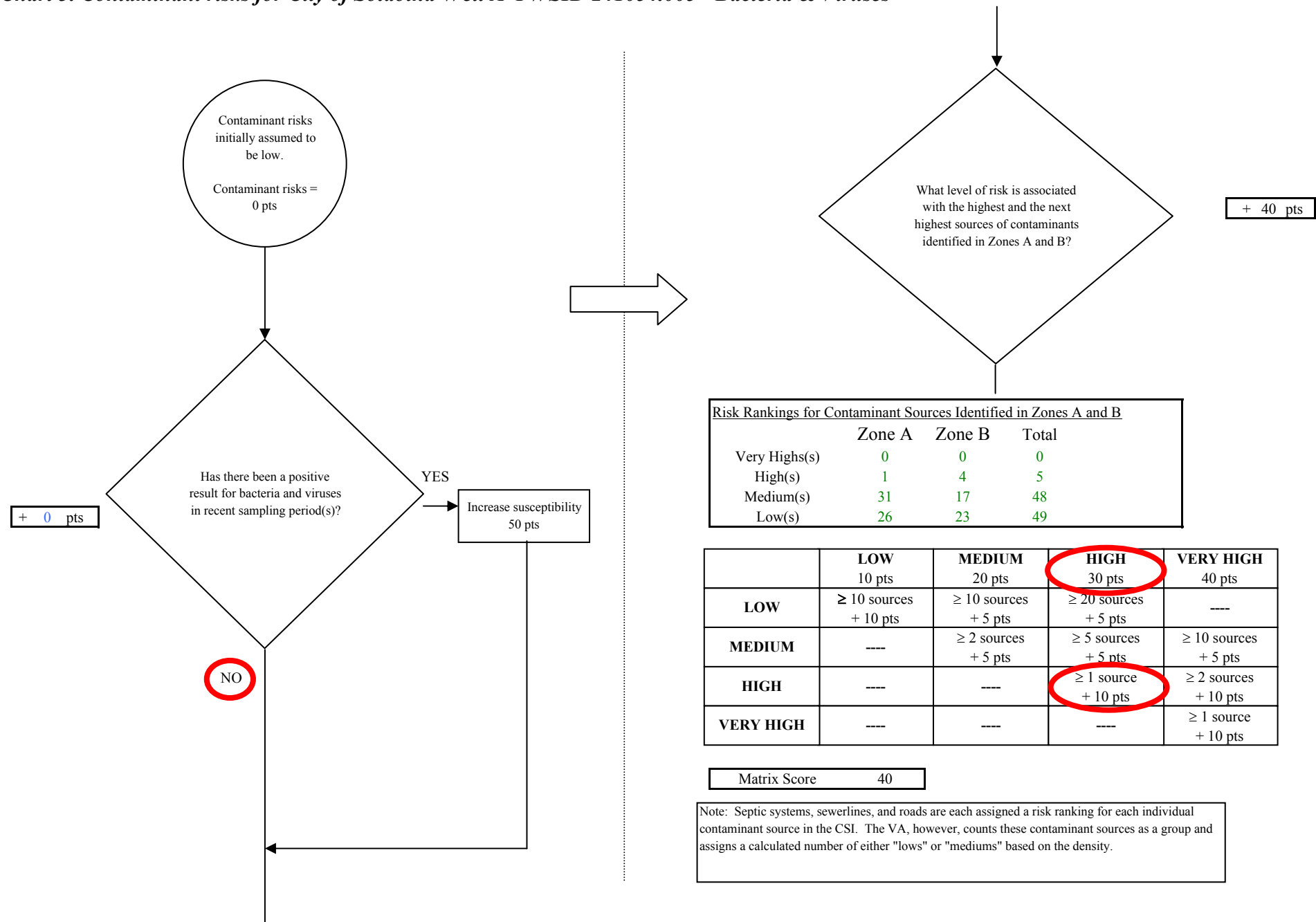
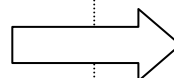
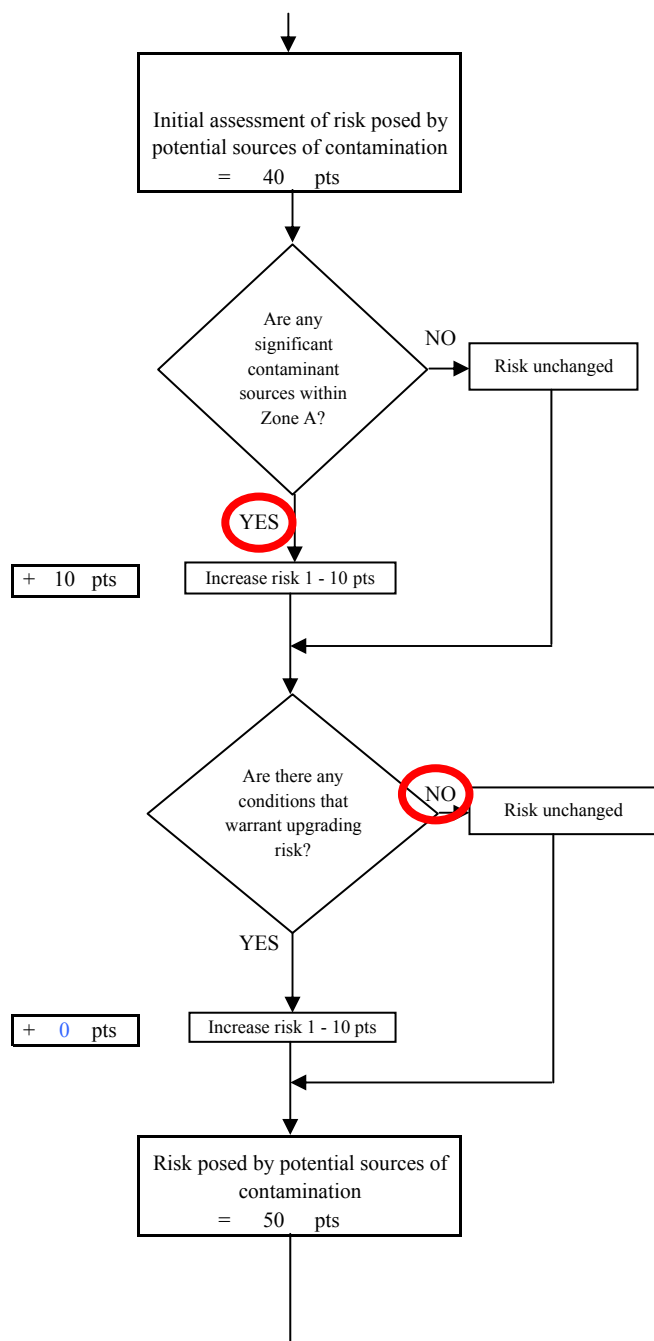
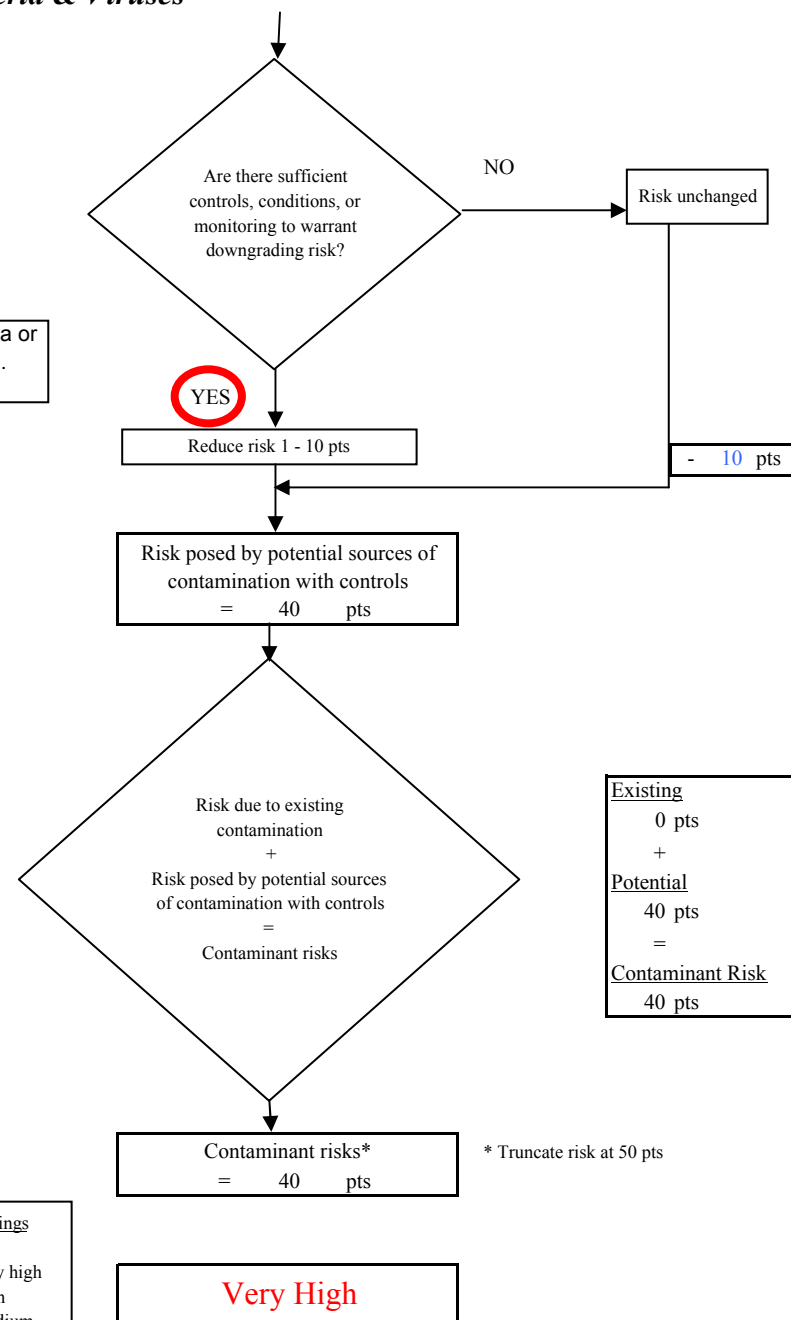


Chart 3. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Bacteria & Viruses



No history of bacteria or viruses detection.



<u>Existing</u>
0 pts
+
<u>Potential</u>
40 pts
=
<u>Contaminant Risk</u>
40 pts

Contaminant Risk Ratings

40 to 50 pts	very high
30 to < 40 pts	high
20 to < 30 pts	medium
< 20 pts	low

Chart 4. Vulnerability analysis for City of Soldotna-Well A PWSID 241054.005 - Bacteria & Viruses

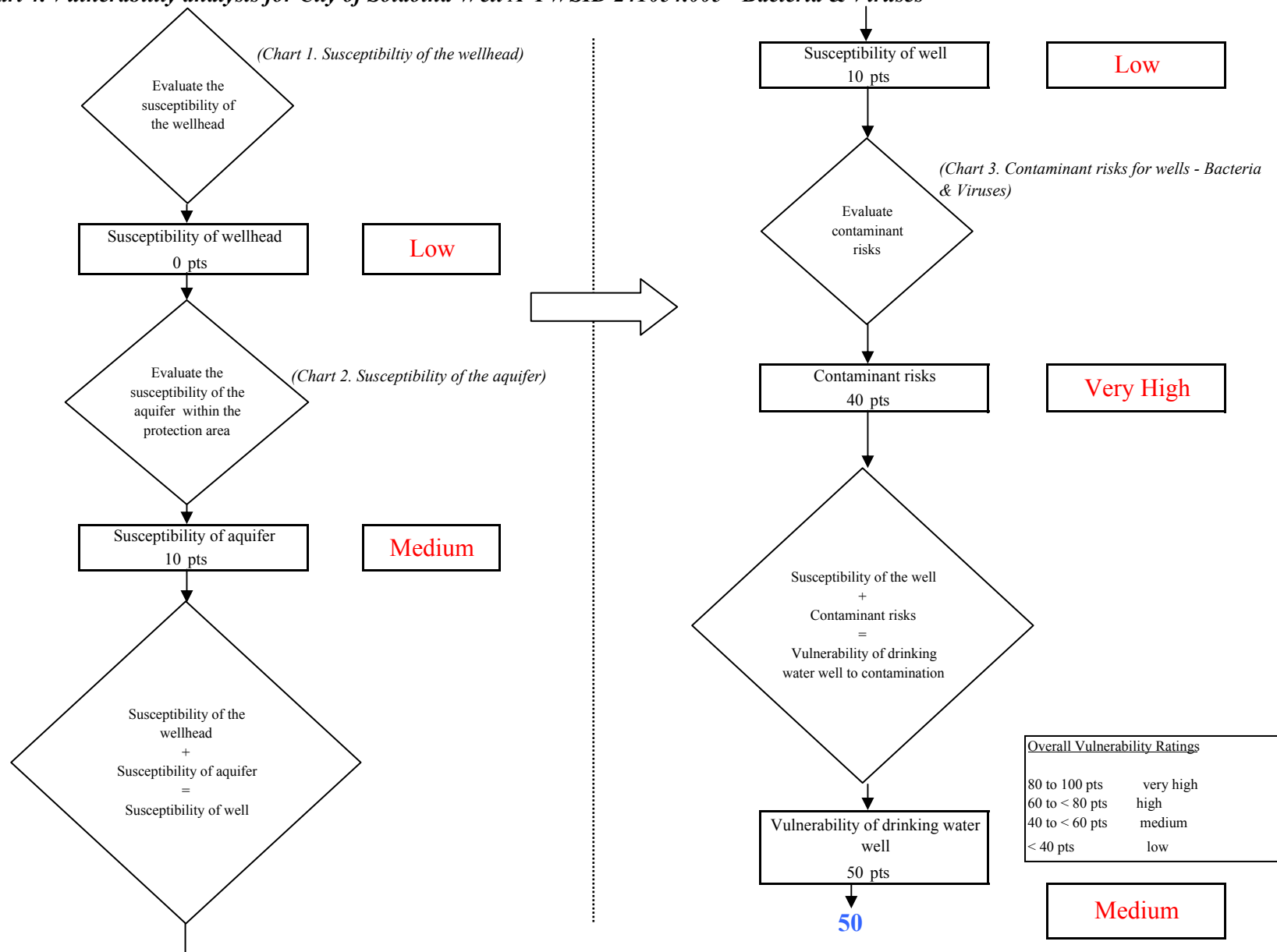


Chart 5. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Nitrates and Nitrites

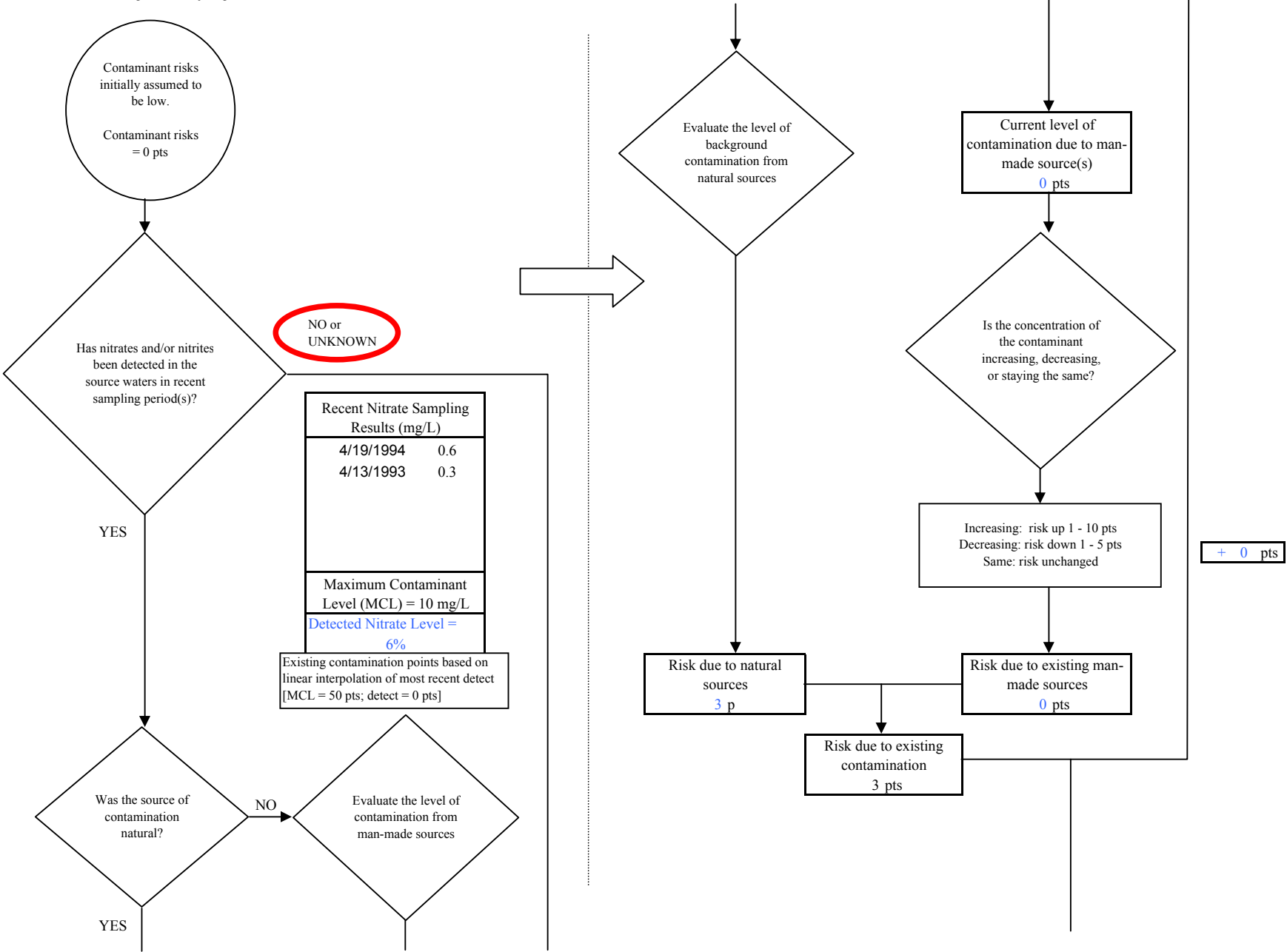


Chart 5. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Nitrates and Nitrites

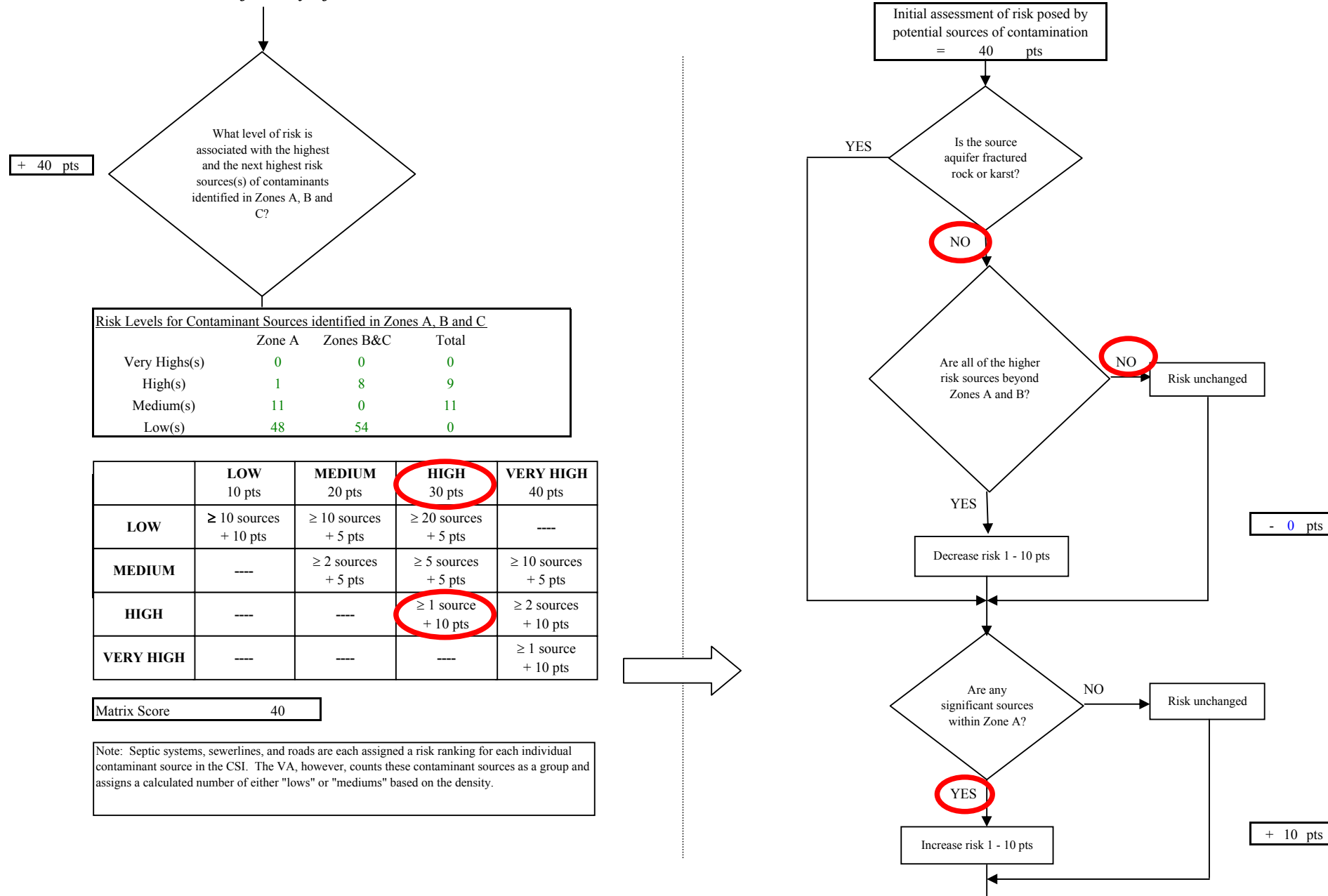


Chart 5. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Nitrates and Nitrites

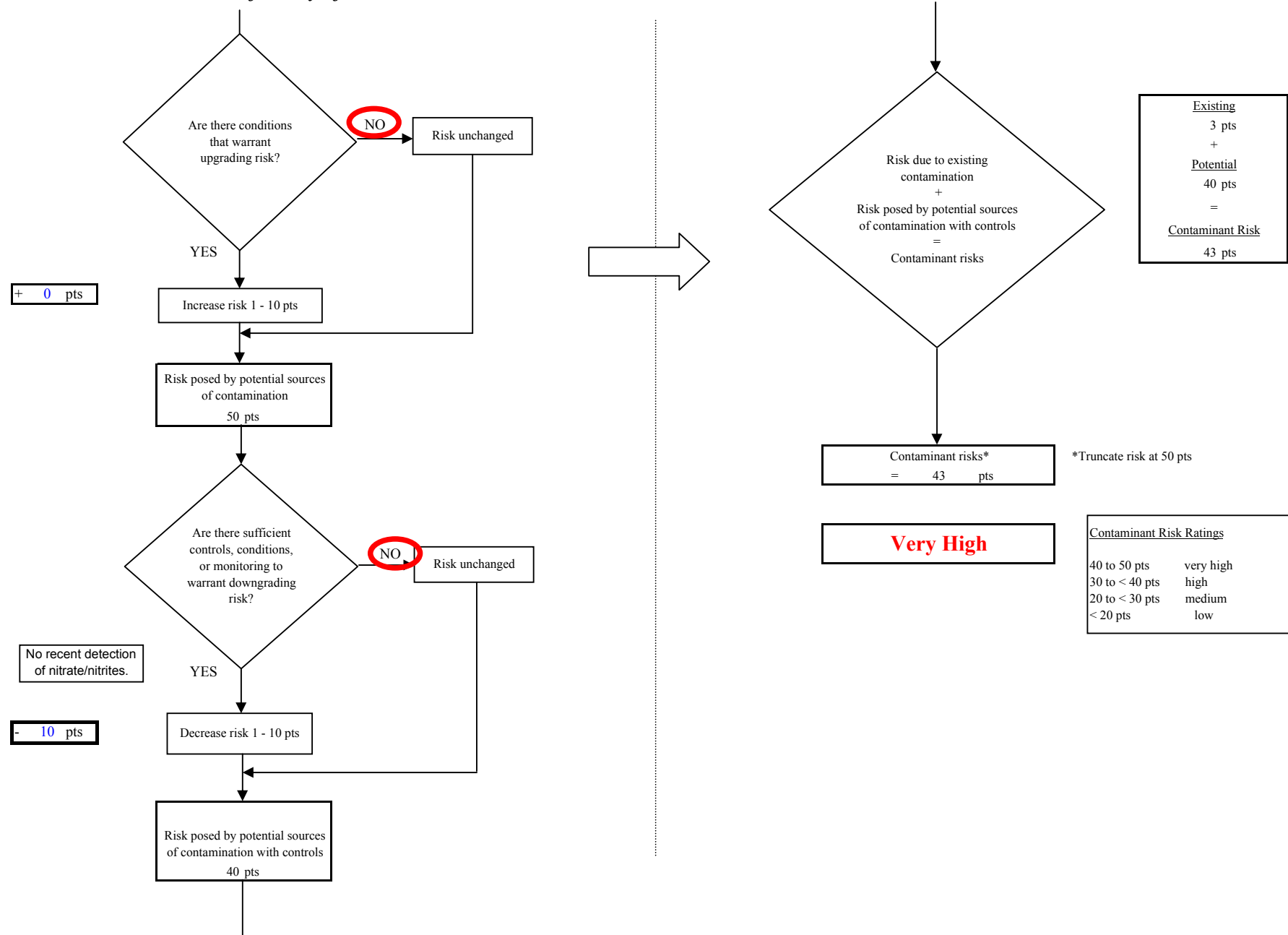


Chart 6. Vulnerability analysis for City of Soldotna-Well A PWSID 241054.005 - Nitrates and Nitrites

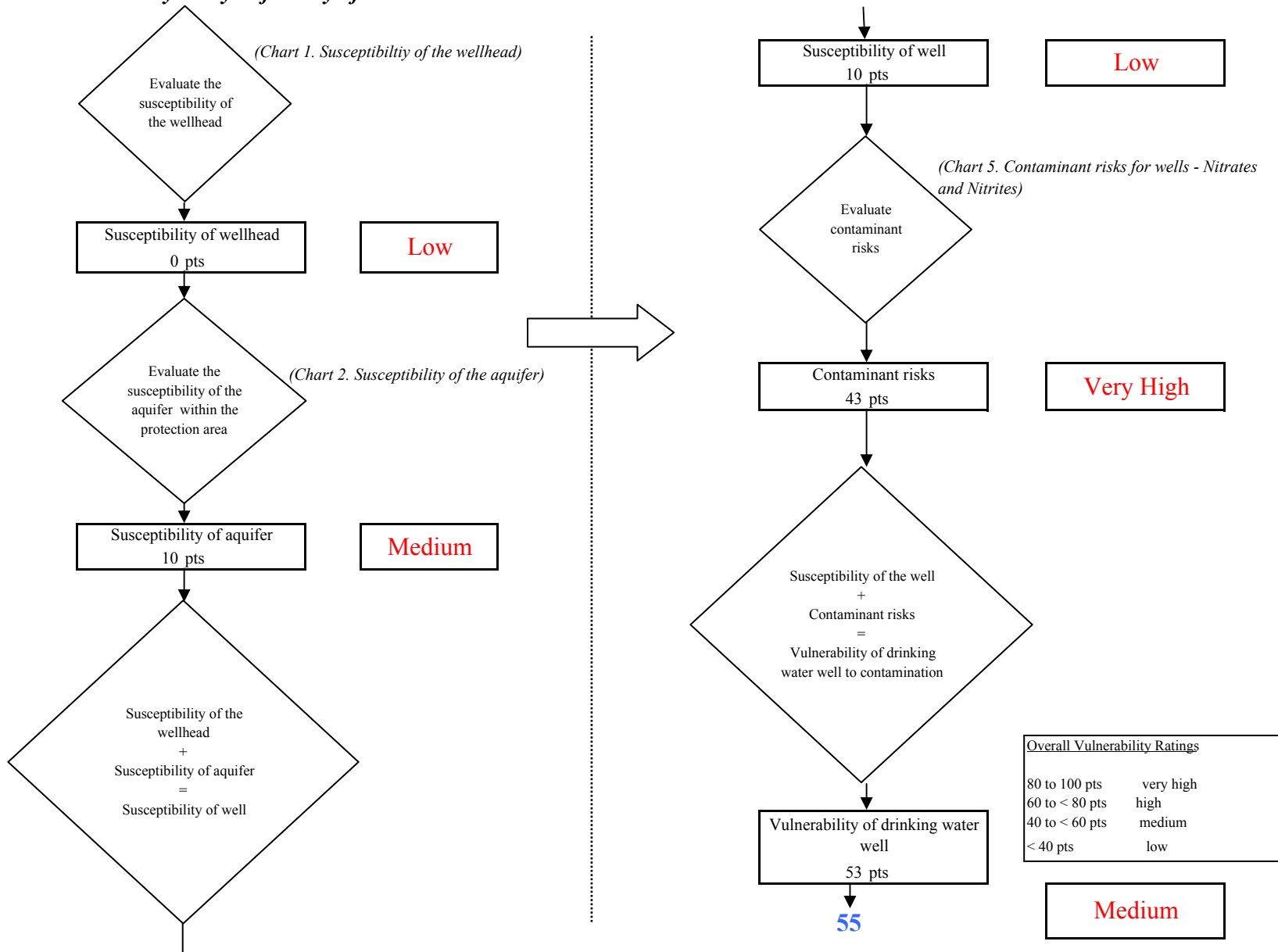


Chart 7. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Volatile Organic Chemicals

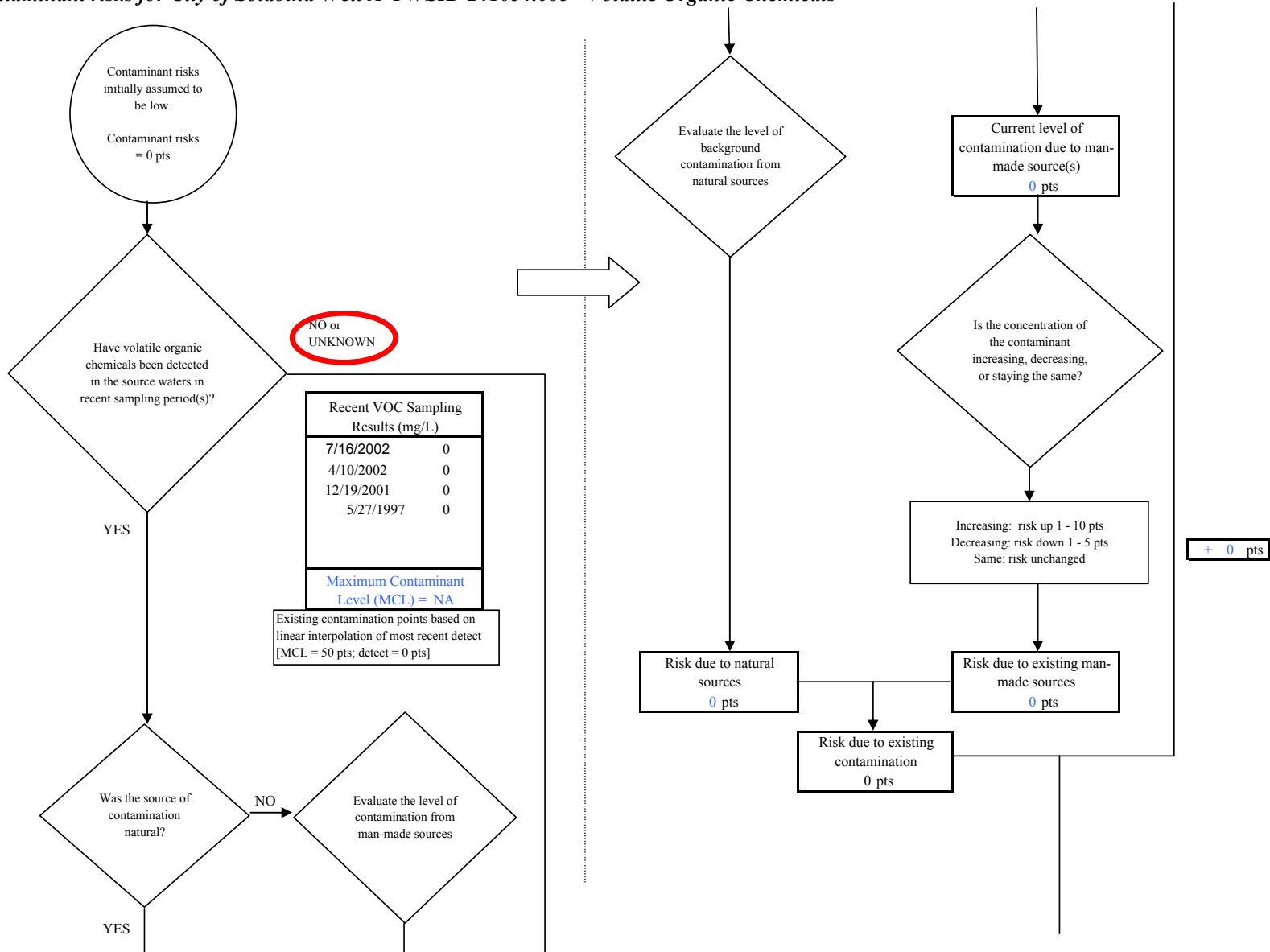


Chart 7. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Volatile Organic Chemicals

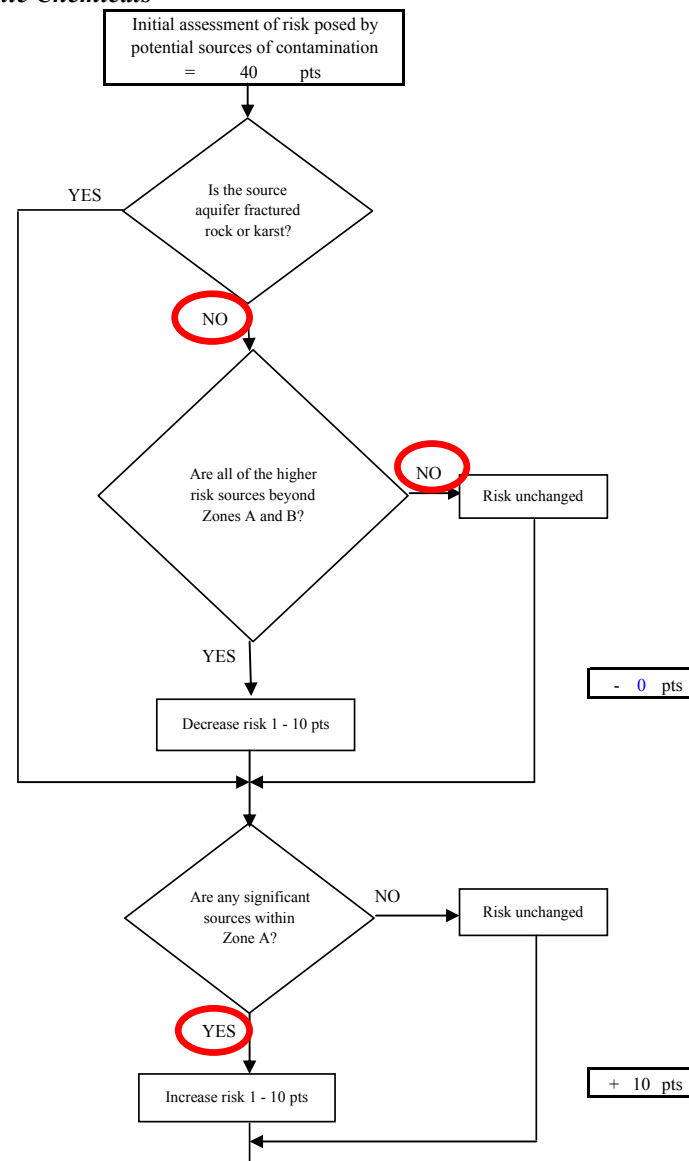
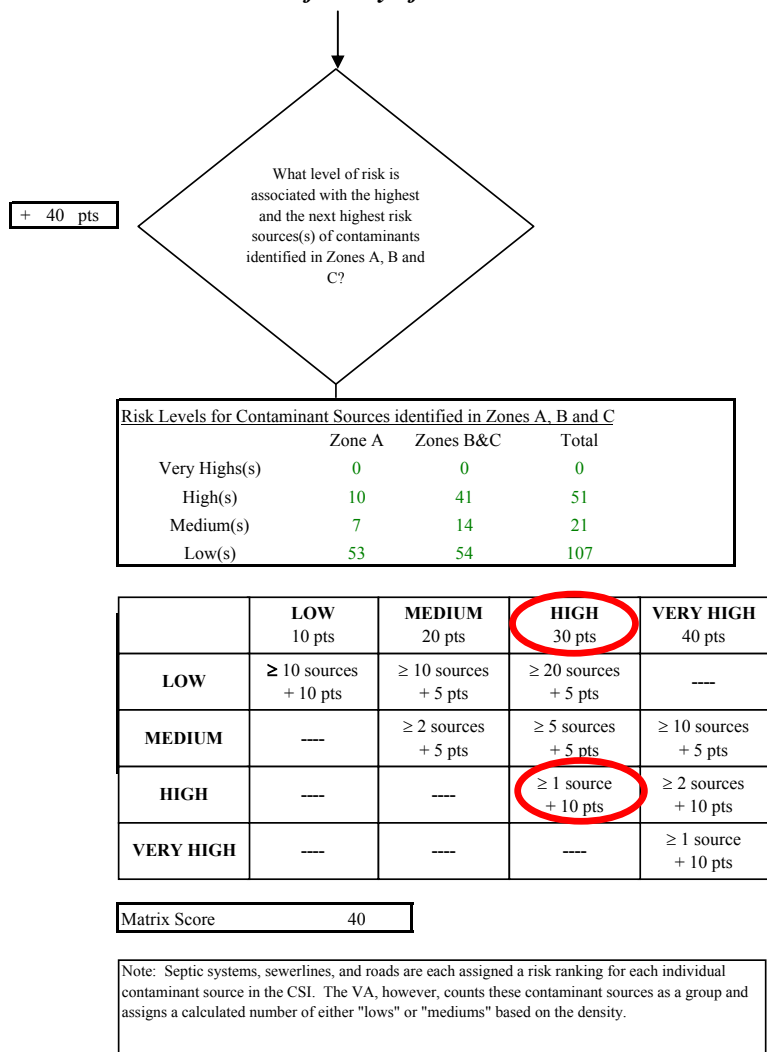


Chart 7. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Volatile Organic Chemicals

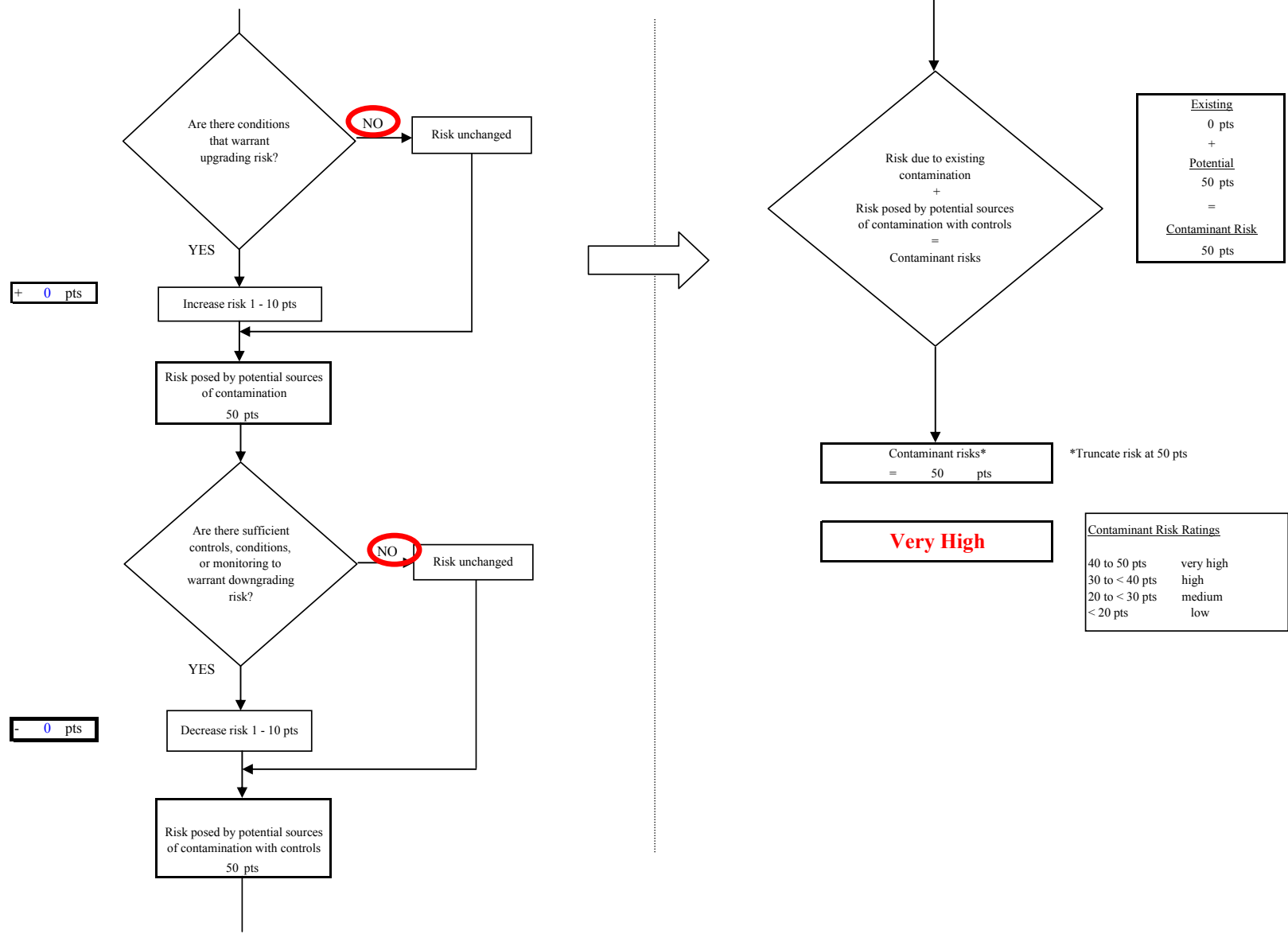


Chart 8. Vulnerability analysis for City of Soldotna-Well A PWSID 241054.005 - Volatile Organic Chemicals

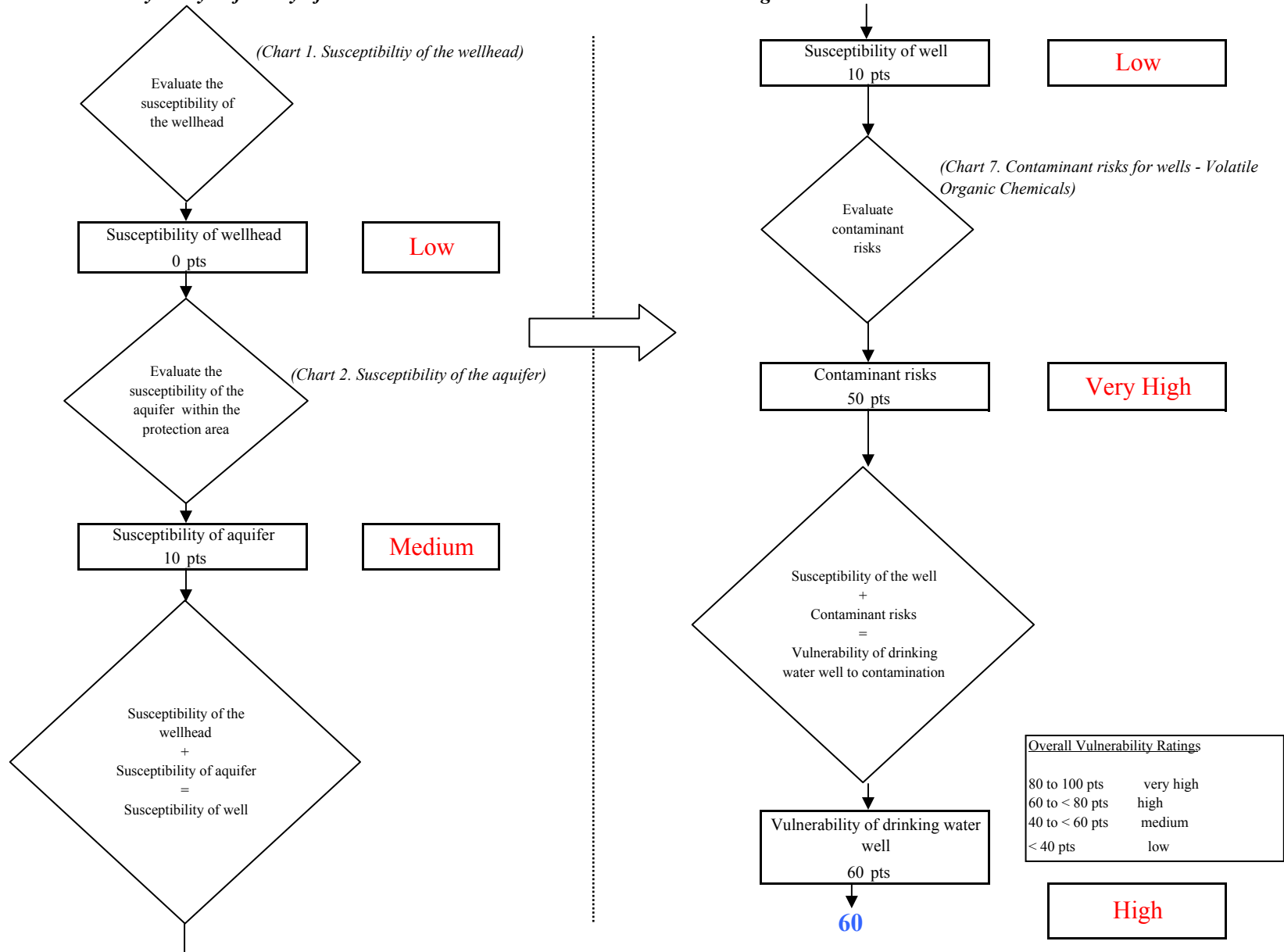


Chart 9. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Heavy Metals, Cyanide and Other Inorganic Chemicals

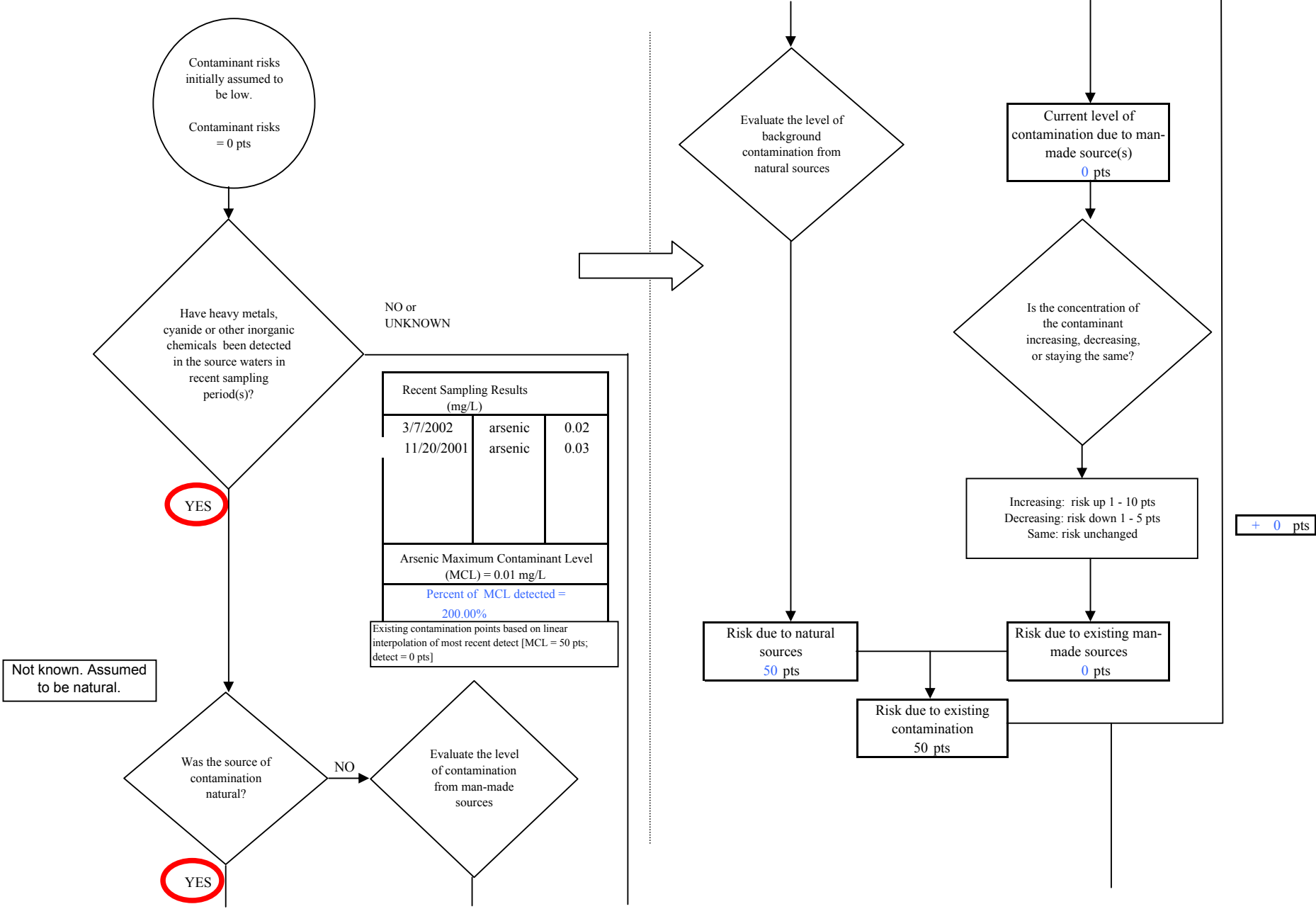


Chart 9. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Heavy Metals, Cyanide and Other Inorganic Chemicals

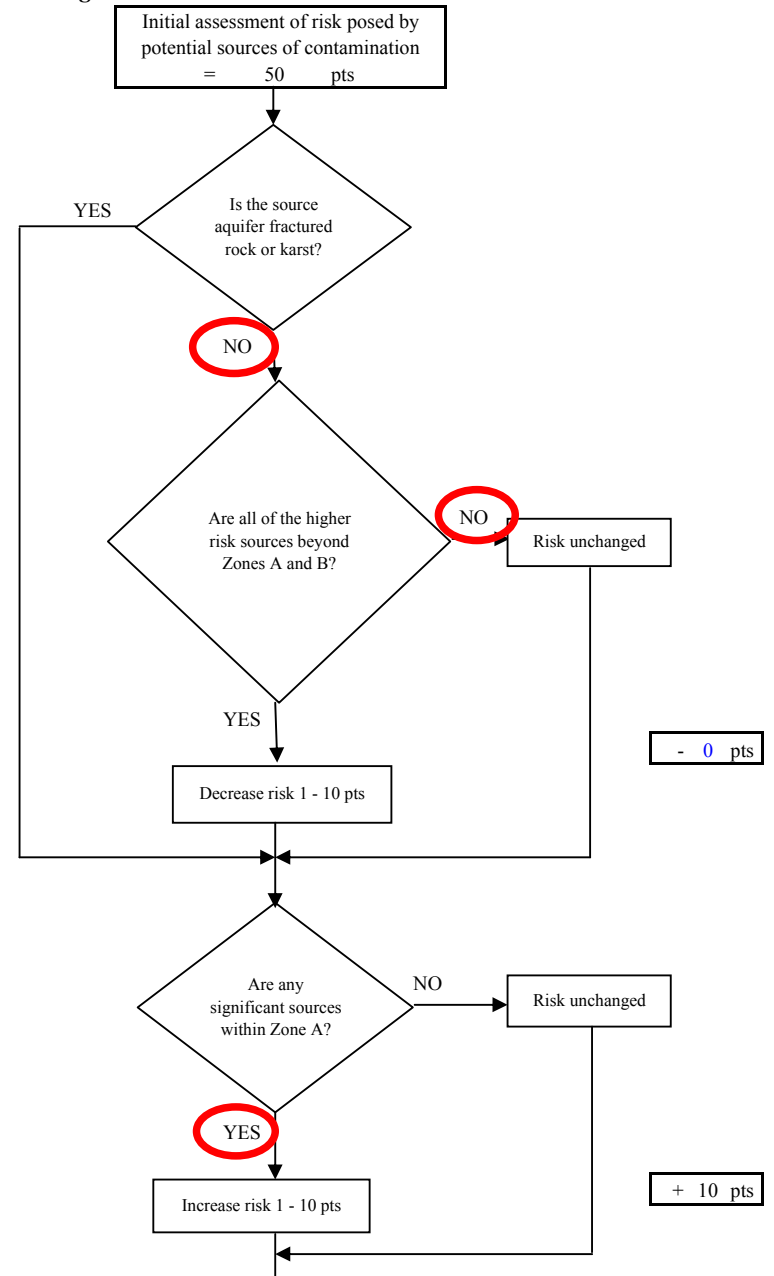
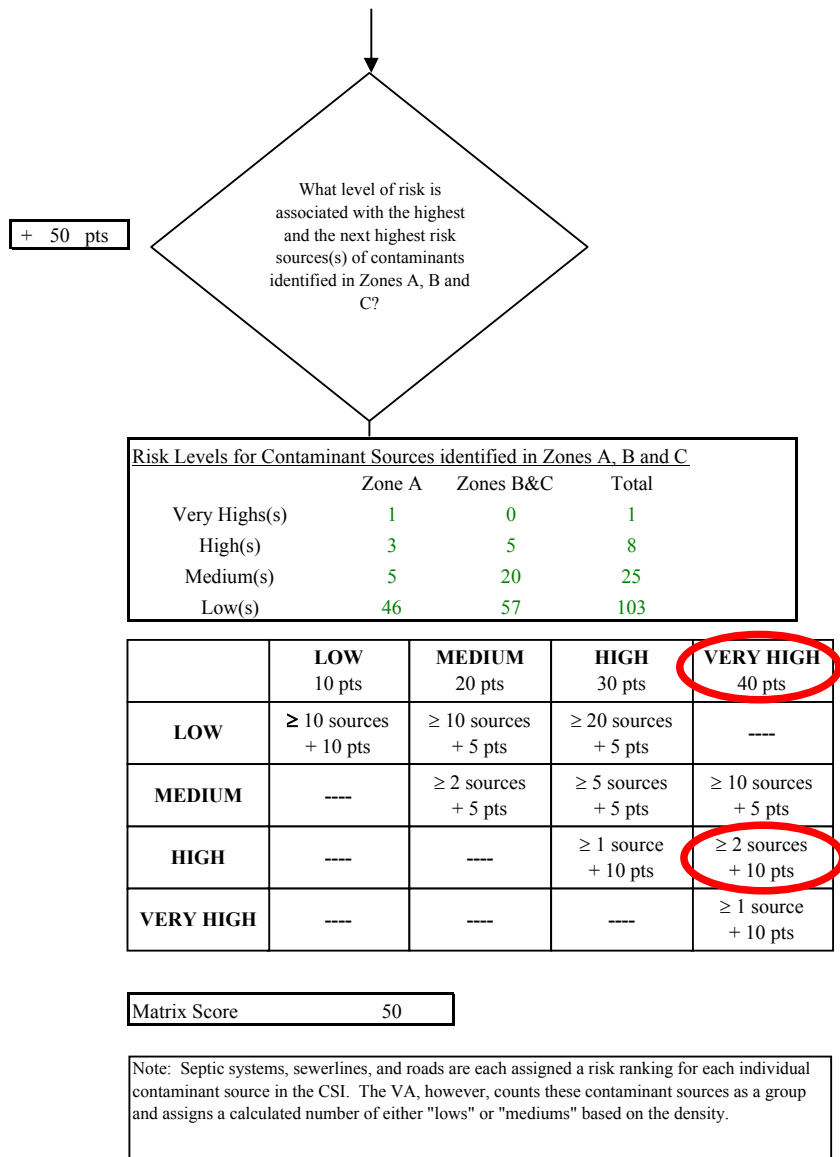


Chart 9. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Heavy Metals, Cyanide and Other Inorganic Chemicals

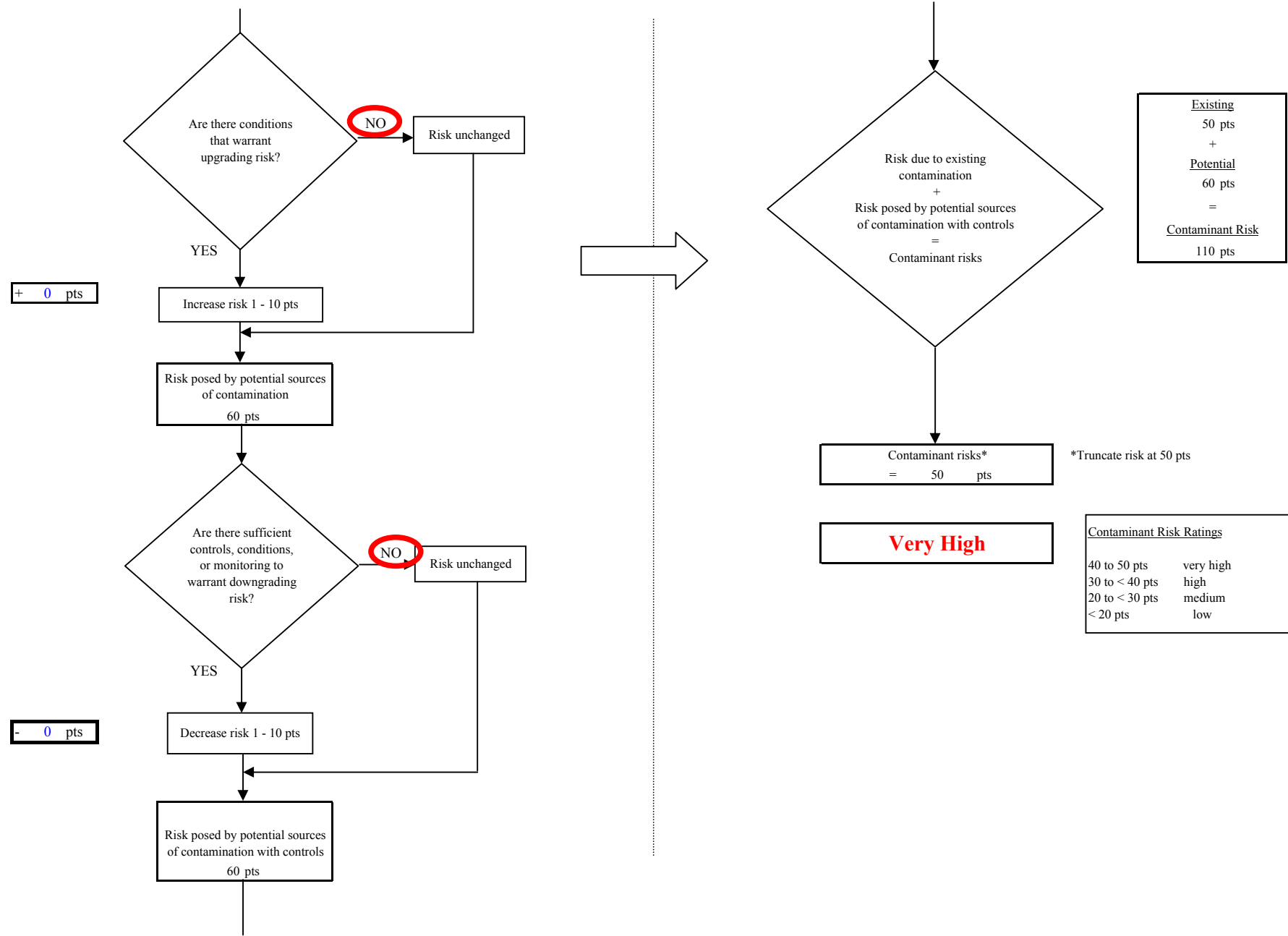


Chart 10. Vulnerability analysis for City of Soldotna-Well A PWSID 241054.005 - Heavy Metals, Cyanide and Other Inorganic Chemicals

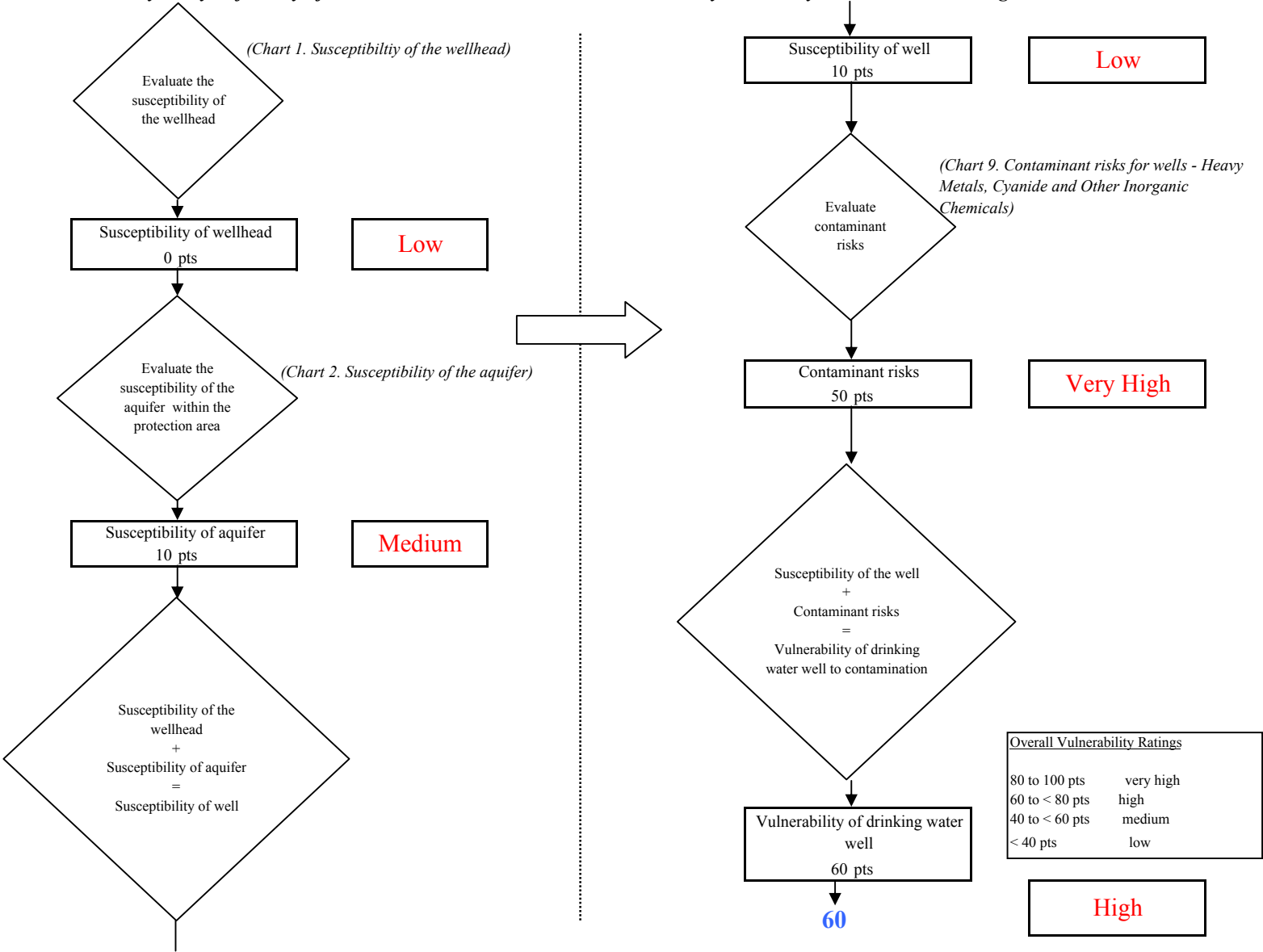


Chart 11. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Synthetic Organic Chemicals

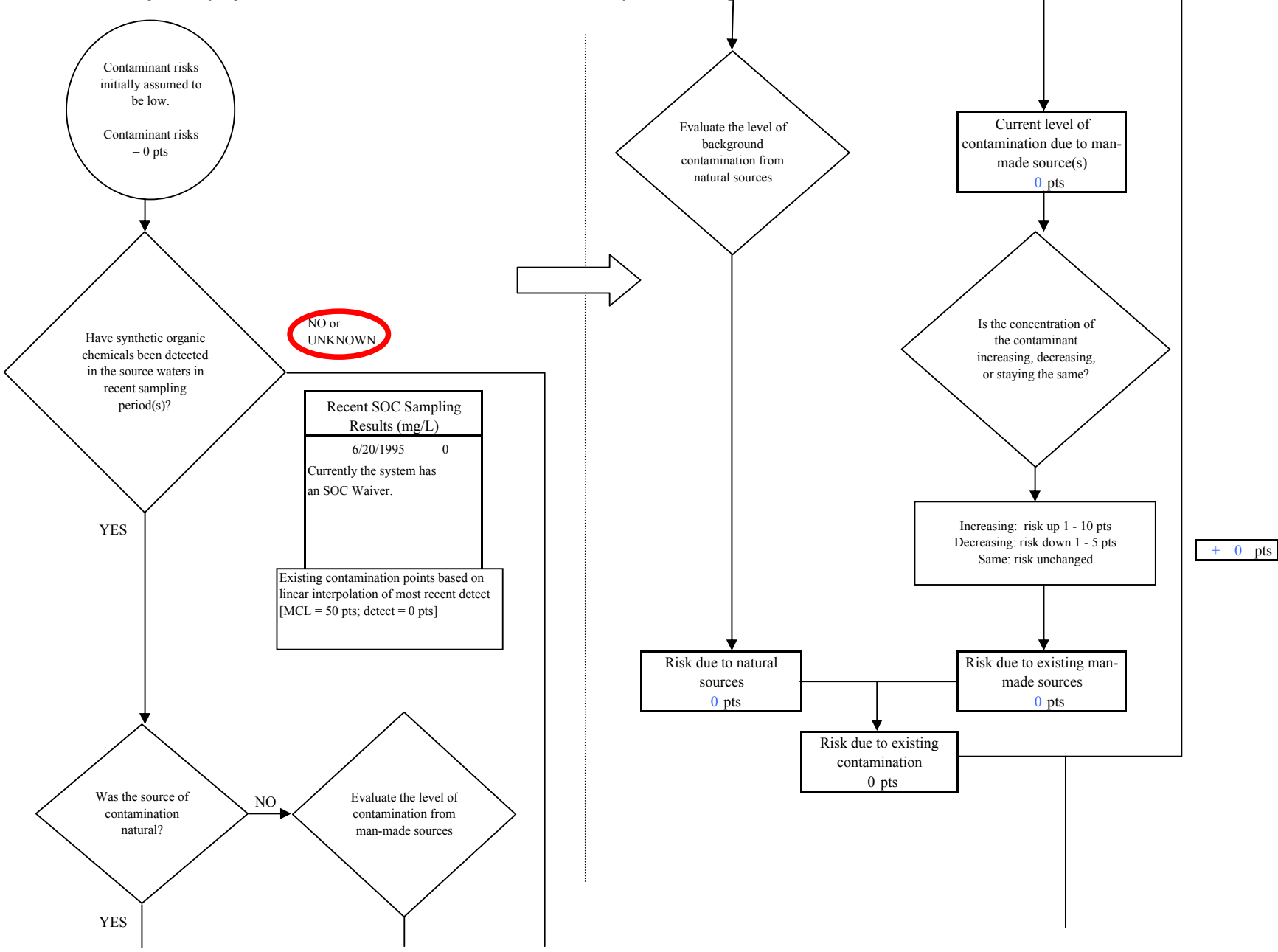


Chart 11. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Synthetic Organic Chemicals

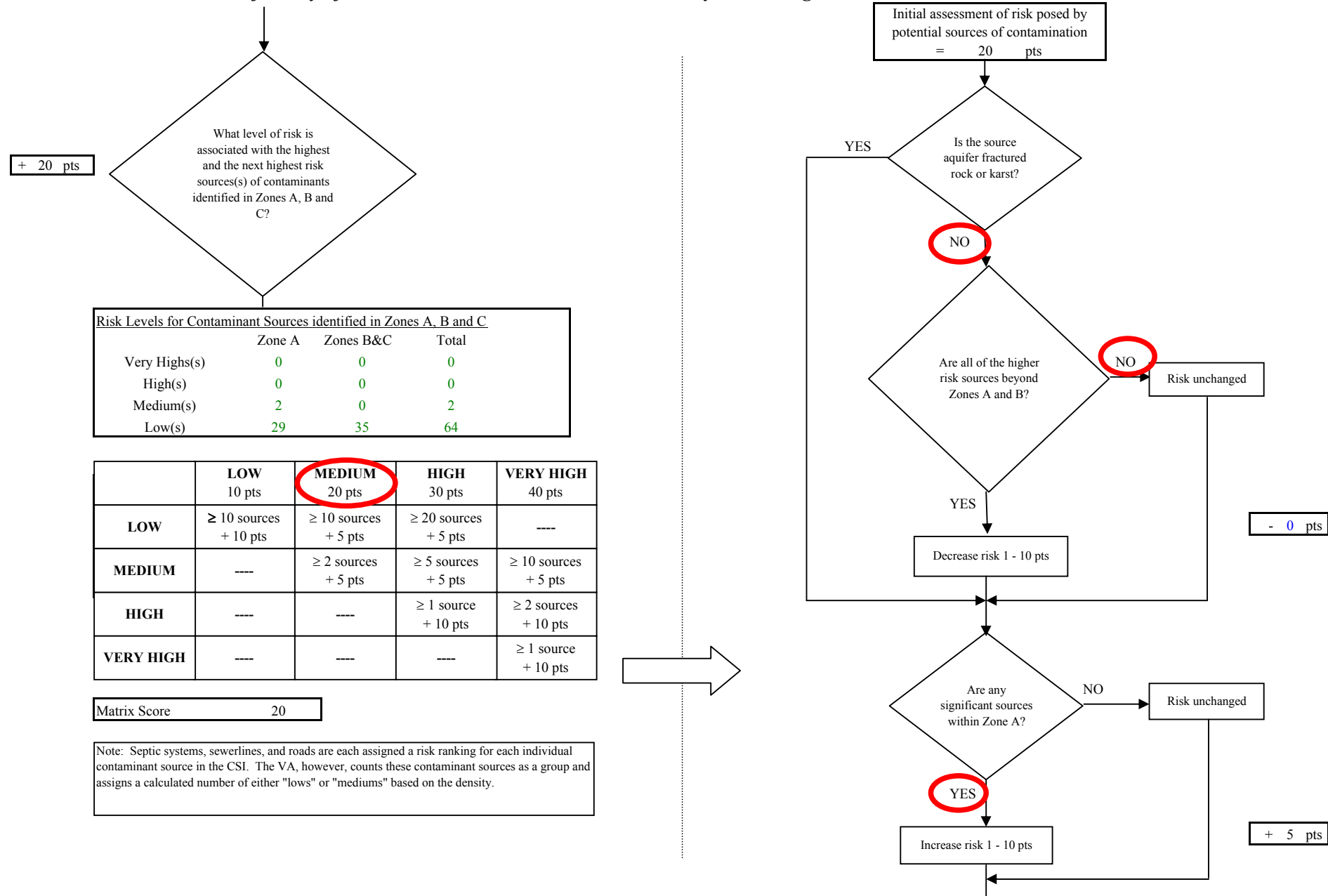


Chart 11. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Synthetic Organic Chemicals

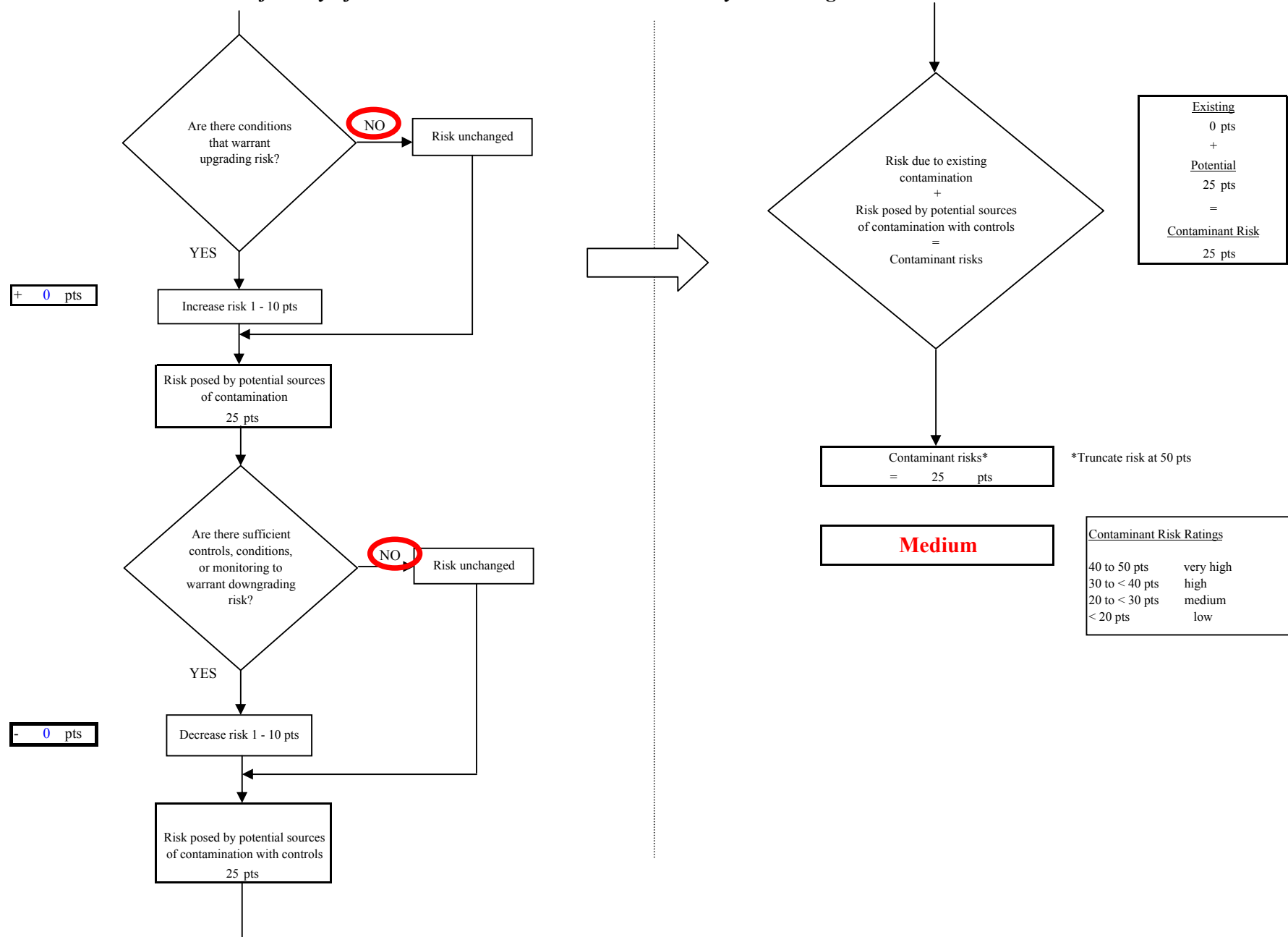


Chart 12. Vulnerability analysis for City of Soldotna-Well A PWSID 241054.005 - Synthetic Organic Chemicals

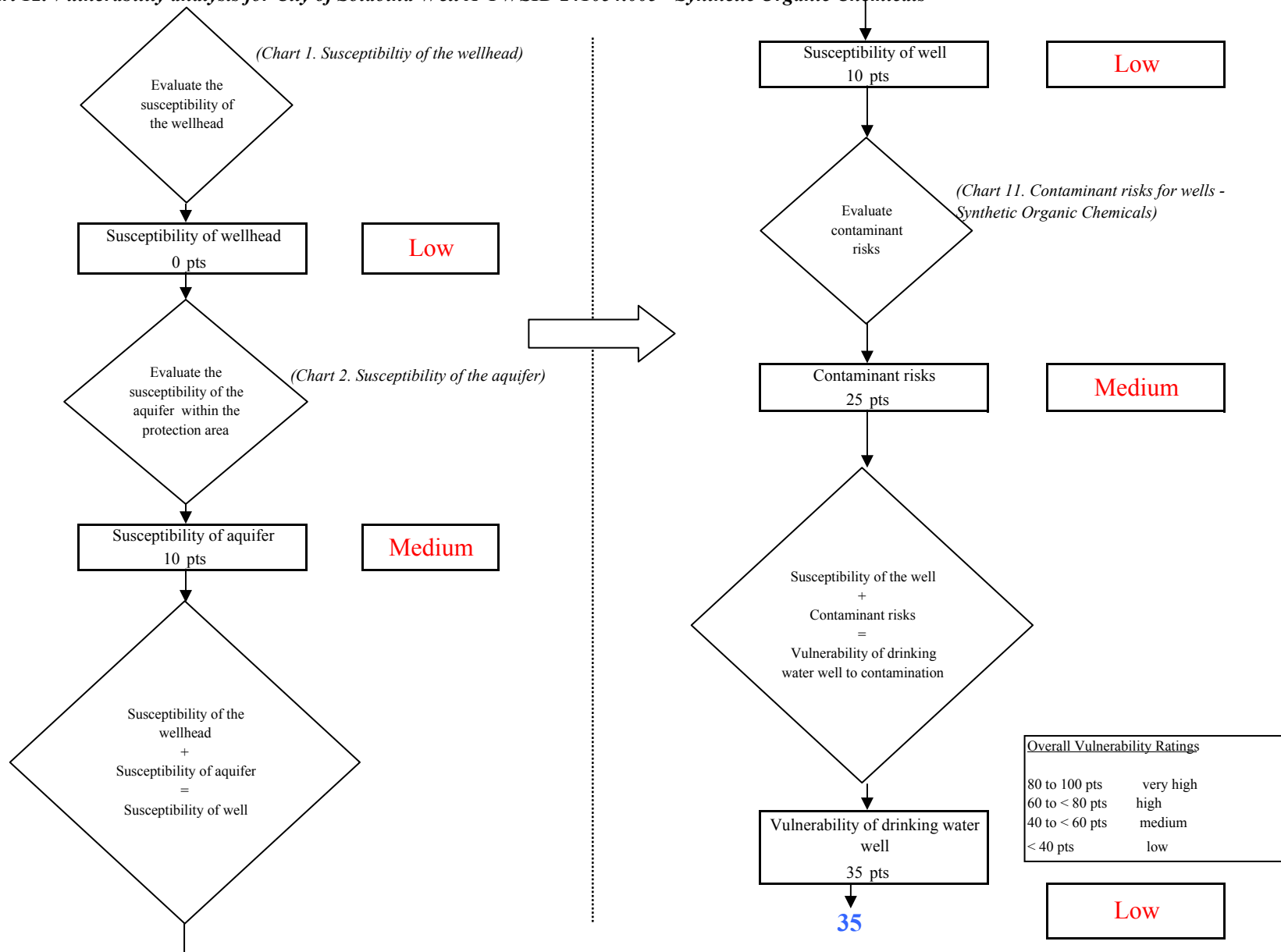


Chart 13. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Other Organic Chemicals

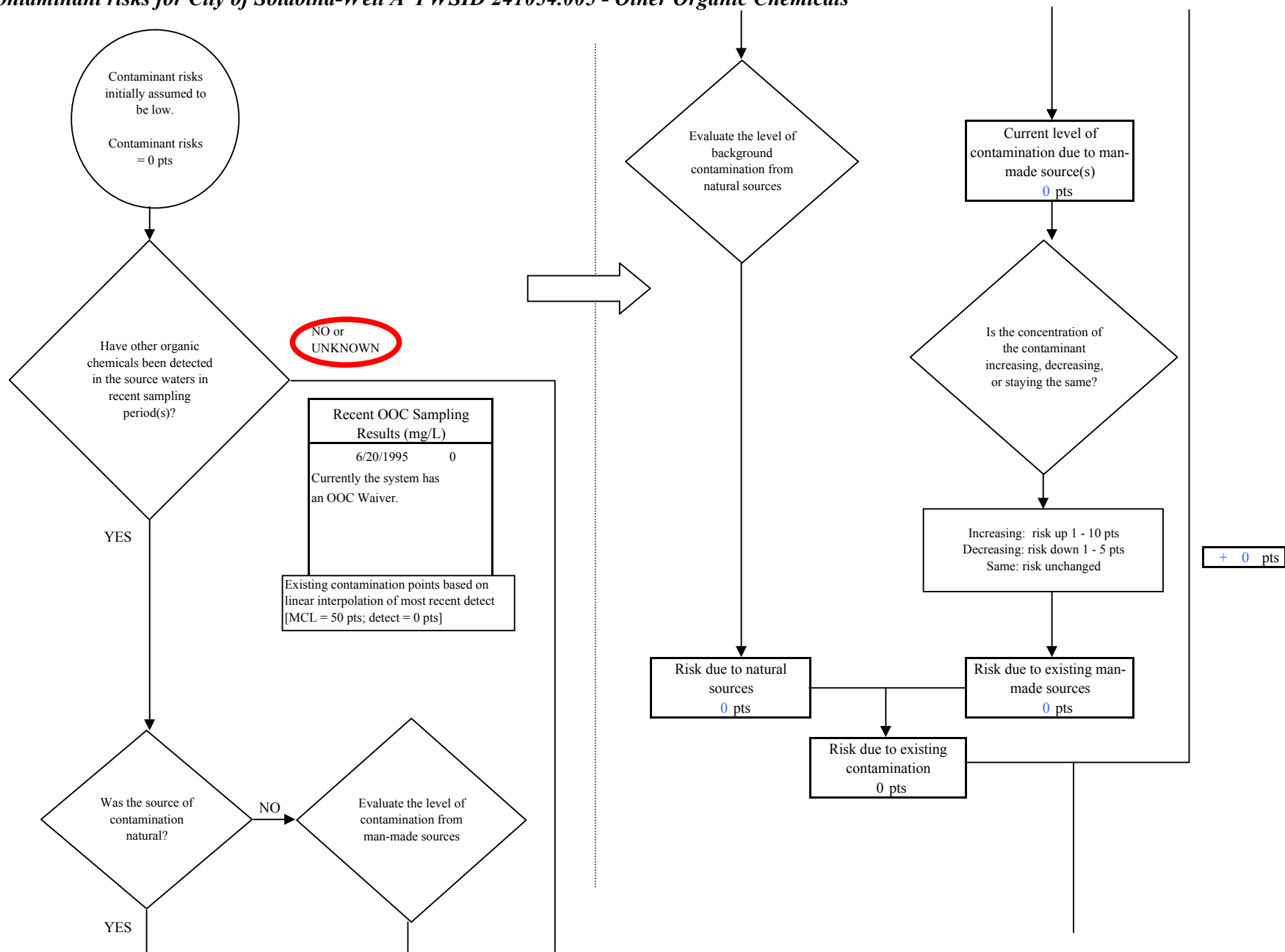


Chart 13. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Other Organic Chemicals

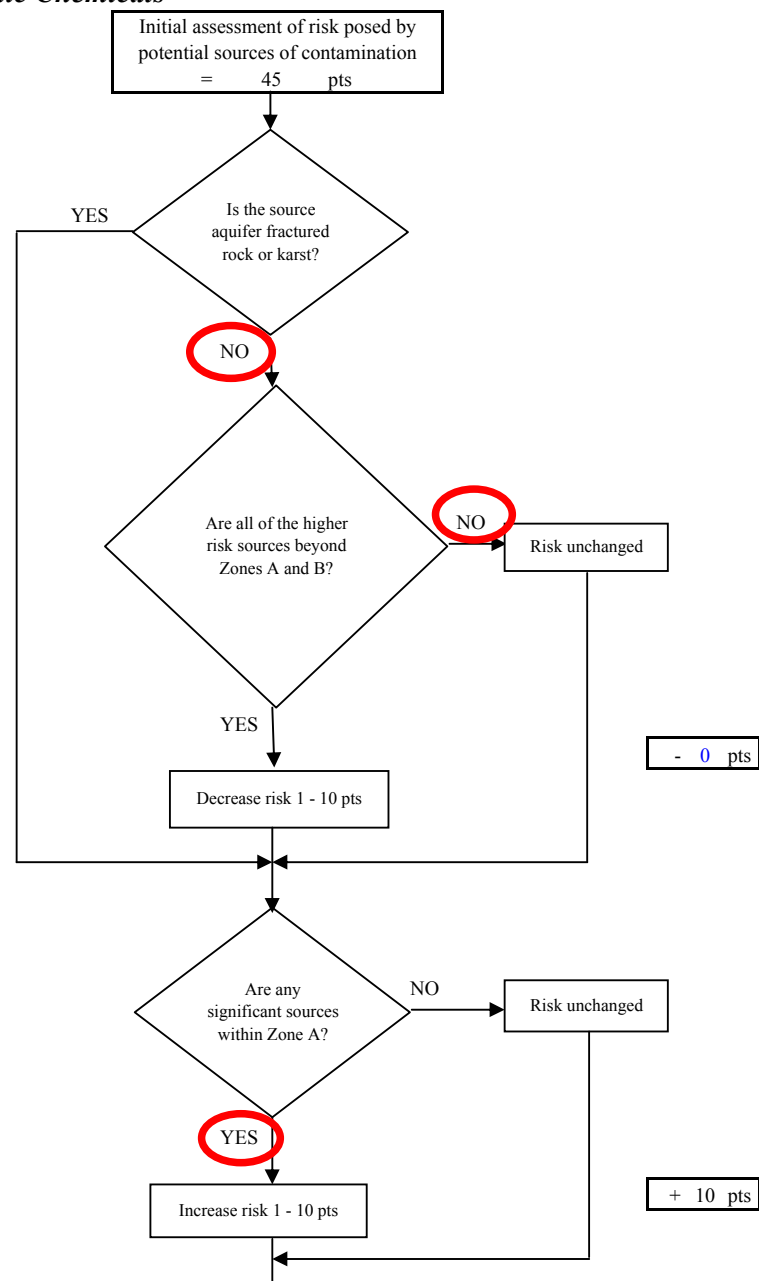
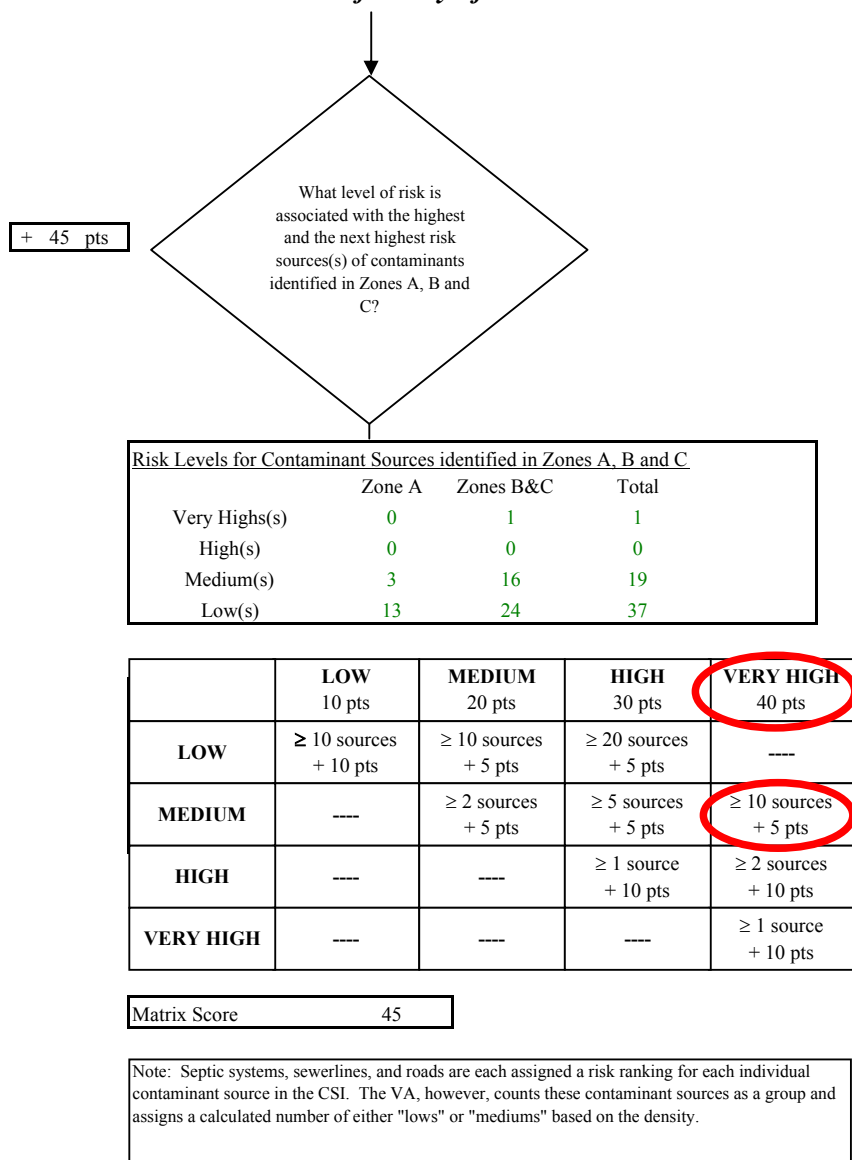


Chart 13. Contaminant risks for City of Soldotna-Well A PWSID 241054.005 - Other Organic Chemicals

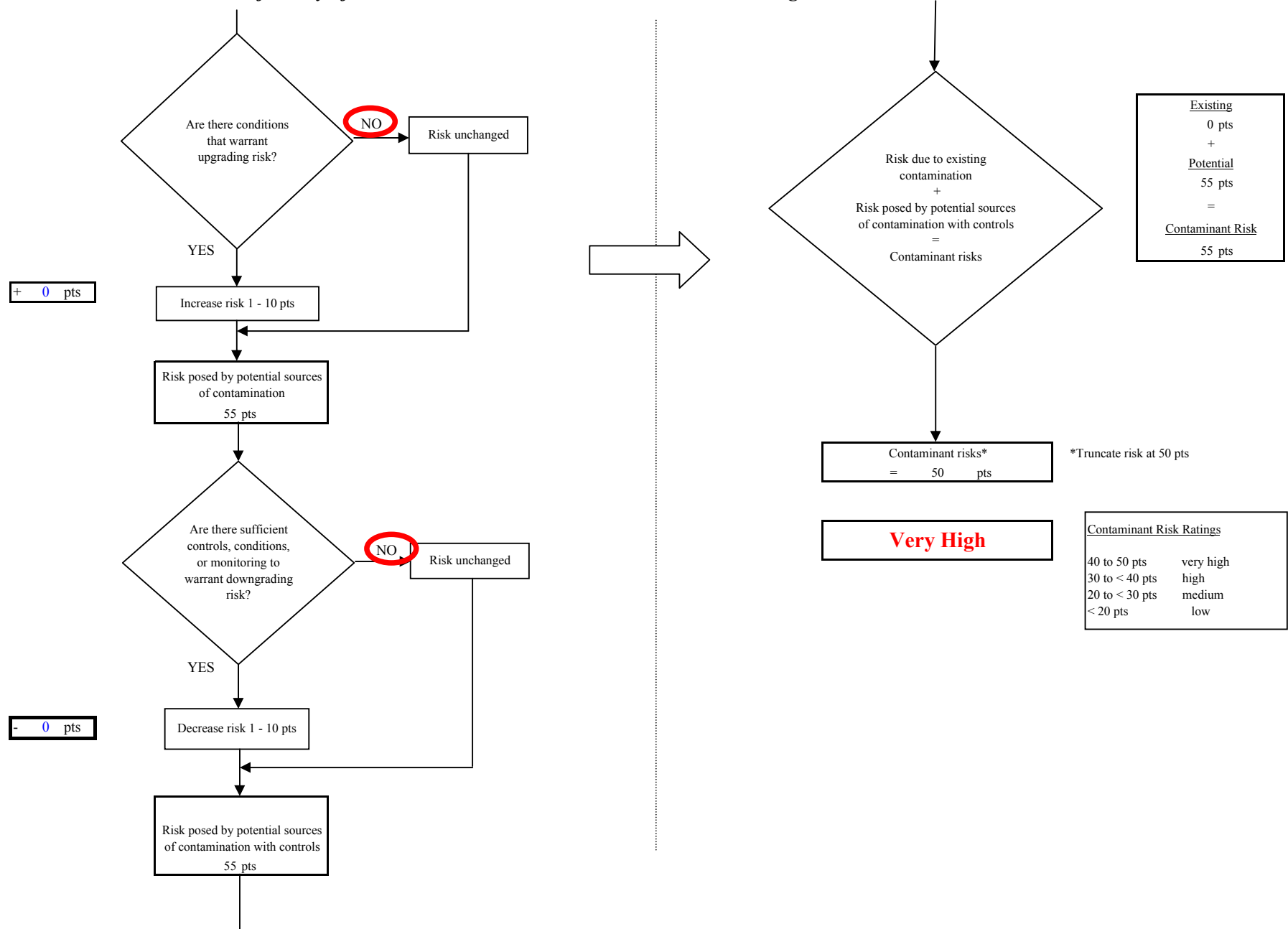


Chart 14. Vulnerability analysis for City of Soldotna-Well A PWSID 241054.005 - Other Organic Chemicals

