

Hydrogeologic Susceptibility and Vulnerability Assessment for Pilgrims Baptist Church Wasilla, Wasilla, Alaska

DRINKING WATER PROTECTION PROGRAM REPORT *139*

September 2001

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By URS

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Hydrogeologic Susceptibility and Vulnerability Assessment for Pilgrims Baptist Church Wasilla Public Drinking Water Source, Wasilla, Alaska

By URS

Drinking Water Protection Program Alaska Department of Environmental Conservation

EXECUTIVE SUMMARY

Pilgrims Baptist Church Wasilla is a Class B (transient/noncommunity) drinking water source consisting of one well. Identified potential and current sources of contaminants for Pilgrims Baptist Church Wasilla include: Class V septic disposal wells; residential septic systems; Class V motor oil disposal wells, domestic wastewater collection systems, highways and roads; and approximately 287 acres of residential area. These identified potential and existing sources of contamination are considered sources of bacteria and viruses, nitrates and/or nitrites, and volatile organic chemicals. Overall, the Pilgrims Baptist Church Wasilla public water source received a vulnerability rating of **High** for bacteria and viruses, **Very High** for nitrates and/or nitrites, and **Very High** for volatile organic chemicals.

INTRODUCTION

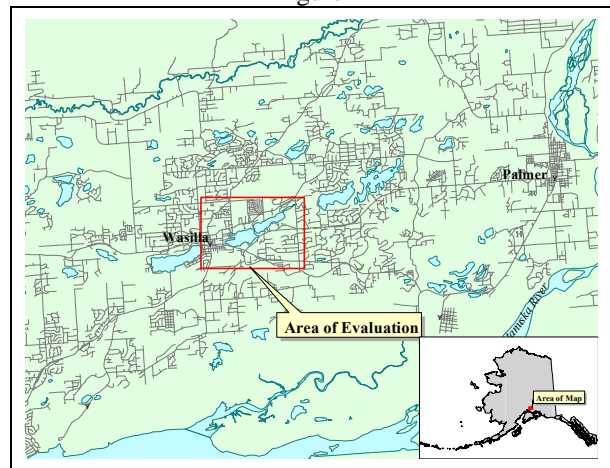
The purpose of this environmental assessment is to provide public water system owners and/or operators, communities, and local governments with information they can use to preserve the quality of Alaska's public drinking water supplies. This assessment was completed for Pilgrims Baptist Church Wasilla source of public drinking water. This source consists of one well in the Wasilla area (see Figure 1). This assessment, known under the Alaska Drinking Water Protection Program as the *Source Water Assessment*, has combined a review of the natural hydrogeologic sensitivity with potential and existing contaminant risks to arrive at an overall vulnerability of the drinking water source to contamination. This assessment has been completed as a basis for local voluntary protection efforts and to assist agencies in their efforts to reduce risk to this public drinking water supply.

DESCRIPTION OF THE WASILLA AREA, ALASKA

Location

Wasilla is located near the center of the Matanuska-Susitna (Mat-Su) Borough in south central Alaska. The Mat-Su Borough encompasses approximately 23,000 square miles, including the majority of the drainage of the Susitna and Matanuska Rivers. Wasilla is located south of the Talkeetna Mountains, about 12 miles north of Knik Arm on Cook Inlet (*Wickersham Alaska Corporation, 1986*), (*Matanuska-Susitna Borough/Fran Seager, 1991*). Wasilla is 30 air miles north/northeast of Anchorage, adjacent to the Alaska Railroad main line and the George Parks Highway (*ADNR, 1981*).

Figure 1



Glacial forces during the end of the last ice age shaped the Wasilla area. Several glacial advances and retreats left a complex system of hills, ridges, lakes, and lowlands that define the topography of today. Landforms in and around Wasilla consist of undulating ridges of glacial till and flat benches of sand and gravel out wash (*Matanuska-Susitna Borough, 1985*).

Climate

The climate in Wasilla is transitional between the extremes of Interior Alaska and the wet conditions found along the coastal areas.

Wasilla is less than 15 miles from Knik Arm and about 75 miles from Prince William Sound. Summer temperatures are more moderate than those in the Interior due to the proximity to the coast. The Chugach and Talkeetna Mountains and the Alaska Range also protect Wasilla from the frigid cold of the Interior Alaska winter and act to break up strong storm fronts (*Brabets, 1997*), (*Western Regional Climate Center, 2000*).

Wasilla averages about 18 inches of precipitation per year, including about 59 inches of snowfall. Winter thaws can decrease snow cover to a few inches. Mean monthly high temperatures in Wasilla range from about 22 degrees in December and January to 69 degrees in July. The frost-free period in spring and summer averages 115 days, with the first frost usually arriving by September 1.

The record low for Wasilla was -50 degrees in January 1947. The highest recorded temperature was 90 degrees in 1969 (*Wickersham Alaska Corporation, 1986*).

Topography and Drainage

The Wasilla area topography varies from about 300 feet to 500 feet above sea level. The surrounding terrain gradually rises from south to north. The Wasilla area has hundreds of small lakes, several large lakes, and two substantial streams. At 387 acres, *Wasilla Lake* is one of the largest lakes in Southcentral Alaska (*Renshaw Consulting Engineers, 1983*).

The Cottonwood Creek drainage system, of which Wasilla Lake is part, begins northeast of Wasilla and discharges into Knik Arm about 15 miles to the south.

Cottonwood Creek is a popular salmon fishing stream (outside city limits), and has an average rate of flow of about 16 cubic feet per second near the outfall from Wasilla Lake.

At 362 acres, *Lake Lucille* is slightly smaller than Wasilla Lake. However, although within close proximity, they are part of two separate drainages and have significantly different characteristics. Lake Lucille is shallow with an average depth of five and a half feet. Its primary water source is springs in the lake bed. No significant creek leads into it, and Lucille Creek is a low flow stream that drains it into Big Lake. Water circulation and flushing action through the lake are slow.

Although the quality can vary significantly in a short distance, groundwater supplies are abundant in the area. The Wasilla area has a central water system, and several subdivisions have private water systems. Many homes and businesses in the area, however, rely on individual wells for their water supply. Most of these wells are shallow with depths of less than 100 feet. Static water levels in many of these wells is around 30 feet below the surface. The coarse gravel underlying the Wasilla area provides a large aquifer even in the winter when infiltration is low (*Trainer, 1953*).

Geology and Soils

A lake covered the Susitna River valley lowland during glacial times. The deposition of glacial silts and clays played an important part in the make up of the soils of the area.

Most of the soils in the area provide good sources of sand, gravel and topsoil. The deposition of silt, clay and organic muck in old lakes and depressions means that some areas have soil conditions that vary over relatively short distances. The U.S. Soil Conservation Service has mapped seven soil associations in and around Wasilla.

The Homestead and Knik soil types predominate the Wasilla area, with smaller areas of Coal Creek, Jacobsen, Salamatof, and Slikok soil types.

The *Homestead* series is common in the Wasilla area especially north of the Parks Highway from the west end of Lake Lucille. Homestead soils are shallow, well-drained silty soils over loose sand and gravel. They have formed on broad out-wash plains and gravel moraines and run from nearly flat terrain to steep areas.

Homestead series is prevalent along Church Road north of the Parks Highway and throughout the Mission Hills subdivision.

The *Knik* series is the other major soil type in the area. It includes most of the downtown area, north and south of Lake Lucille and Wasilla Lake.

Knik soils are shallow, well-drained and silty, overlaying coarse, gravelly material, although scattered areas of poorly drained soils are also included. The soils are extensive over a broad range of slopes from flat to steep escarpments.

The *Coal Creek* series consists of dark-colored, poorly drained soils that formed in moderately deep silty material over compacted, fine-textured sediments. These soils occur in nearly level to gently sloping stream valleys, on the border of muskegs and in small depressions. They are sometimes characterized by

hillside seeps. This soil unit is found in small areas north and west of the downtown area.

The *Jacobsen* series is a very poorly drained, very stony silt loam found in broad depressions. The type is found west of Lake Lucille, south of the railroad, about even with Church Road.

The *Salamatof* and *Slikok* series are found within low areas and consist of poorly drained, peat, muck, and silty sediments in shallow depressions throughout the eastern side of the city. High water tables, often at or just below the surface, are characteristics of these soils. The banks of Cottonwood Creek south of Wasilla Lake have the greatest concentrations of these soils.

Finally, the *Wasilla* series consists of somewhat poorly drained soils with layers of sand and compacted finer material. They do not have the high organic content of the Slikok series. These soils are not extensive in the local area and are most commonly found southeast of Lake Lucille along the Knik-Goose Bay Road (*Wickersham Alaska Corporation, 1986*).

PILGRIMS BAPTIST CHURCH WASILLA PUBLIC WATER SOURCE

Pilgrims Baptist Church Wasilla public water source is a Class B (transient/noncommunity) water source, which is operated by Pilgrims Baptist Church Wasilla. The source consists of one well, located in the northwest corner of the Pilgrims Baptist Church property and is at an elevation of approximately 364 feet above sea level. The well is located 250 feet south of the George Parks Highway and 500 feet north of the Old Matanuska-Wasilla Road (see Map 1 in Appendix A). According to the well log, Pilgrims Baptist Church Wasilla well penetrates brown clay from 0 to 10 feet, clay and hard gravel from 10 to 46 feet, clay and gray gravel from 46 to 53 feet, brown clay from 53 to 67 feet, gravel and sand from 67 to 88 feet, gray rock from 88 to 92 feet, brown gravel and clay from 92 to 101 feet and water bearing gravel and red clay from 101 to a total depth of 107 feet below land surface. The well is screened in the unconfined aquifer and had a static water level of 93 feet below land surface at the time of drilling (06/19/76). The well has been capped and is not located in a floodplain. It is unknown whether the well has been properly grouted. This water system operates year-round and serves approximately 35 non-residents through a single connection to the business.

ASSESSMENT AND PROTECTION AREA FOR PILGRIMS BAPTIST CHURCH WASILLA DRINKING WATER SOURCE

The Drinking Water Protection and Assessment Area that has been established for Pilgrims Baptist Church Wasilla is the area that is most sensitive to contamination. This area has served as a basis for assessing the risk of the drinking water source to contamination. This zone around the drinking water source is the most critical area for the preservation of the quality of the drinking water for this source. For simplicity, this area will be known as your Drinking Water Protection Area and will serve as the area of focus for voluntary protection efforts.

Conceptually, groundwater enters the unconfined aquifer by seepage for localized surface water sources and precipitation. The groundwater generally flows within the unconfined aquifer toward Cook Inlet.

An analytical calculation was used to calculate the size and shape of the area that contributes water to the well. The input parameters describing the attributes of the aquifer in this calculation were adopted from the U.S. Geological Survey (*Patrick, Brabets, and Glass, 1989*), and State of Alaska Department of Water Resources (*Jokela et al, 1991*). This analytical calculation was used as a guide as the first step in establishing the protection area for Pilgrims Baptist Church Wasilla. Additional methods were further employed to take into account any uncertainties in groundwater flow and aquifer characteristics to arrive at a meaningful and conservative protection area with respect to public health (Refer to the Guidance Manual for Class B Public Water Systems for additional information).

The Drinking Water Protection Areas established for wells by the Alaska Department of Environmental Conservation are separated into zones. These zones correspond to a time-of-travel. Time-of-travel is the time required for water to move in the saturated zone of the ground from a specific point to the well. The Drinking Water Protection Areas for the Pilgrims Baptist Church Wasilla contain four zones; Zone A, Zone B, Zone C, and Zone D (see Map 1 in Appendix B).

Zone A corresponds to the area between the well and the distance equal to $\frac{1}{4}$ of the distance of the two-year time-of-travel. Depending on where a contaminant source is located within Zone A, travel time for a contaminant to the well may be on the order of several days to several hours.

The Zone B protection area for the Pilgrims Baptist Church Wasilla corresponds to a time-of-travel of less than two years and extends north towards the Talkeetna mountains.

The Zone C protection area extends from Zone B to the north and corresponds to a time-of-travel of less than five years.

The Zone D protection area, which corresponds to a time-of-travel less than ten years, extends from Zone C to the north.

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 Pilgrims Baptist Church Wasilla Drinking Water Protection Area. This survey was completed through a search of agency records and other publicly available information.

Potential sources of contamination to drinking water supplies cover 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 this assessment and all Class B public water system assessments, three categories of drinking water contaminants were inventoried. They include:

- Bacteria and viruses;
- Nitrates and/or nitrites; and
- Volatile organic chemicals.

Inventoried potential sources of contamination within Zone A through Zone D were associated with residential and light industrial type activities (see Table 1 in Appendix C). Below is a summary of the contaminant sources inventoried within the Pilgrims Baptist Church Wasilla protection area:

Site Specific

- Class V septic disposal wells;
- Residential septic systems;
- Class V motor oil disposal wells,
- Domestic wastewater collection systems;
- Highways and roads;
- Commercial petroleum hydrocarbon storage and dispensing areas;
- Commercial entities that commonly use or store hazardous materials;
- Approximately 287 acres of residential area.

These potential contaminant sources present risks for all three categories of drinking water contaminants for the Pilgrims Baptist Church Wasilla drinking water source.

RANKING OF CONTAMINANT RISKS

Potential and existing sources of contamination have been identified, sorted, and ranked 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. Further, contaminant risks are a function of the number and density of those types of contaminant sources as well as the proximity of those sources to the well.

VULNERABILITY OF PILGRIMS BAPTIST CHURCH WASILLA DRINKING WATER SOURCES

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

- Natural susceptibility; and
- Contaminant risks.

Each of the three categories of drinking water contaminants has been analyzed and an overall vulnerability score of 0 to 100 is ultimately assigned:

Natural Susceptibility (0 – 50 points)

+

Contaminant Risks (0 – 50 points)

=

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

A score for the Natural Susceptibility is achieved by analyzing the properties of the well and the aquifer.

Susceptibility of the Wellhead (0 – 25 Points)

+

Susceptibility of the Aquifer (0 – 25 Points)

=

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

The well for Pilgrims Baptist Church Wasilla was completed in an unconfined aquifer setting. Since this aquifer is recharge by surface water and precipitation that migrates downward from the surface, contaminants that are present at the surface have a potential for adversely impact this aquifer. Combining the susceptibility of the wellhead and the aquifer to contamination leads to a score (0 – 50 points) and rating of Overall Susceptibility

(see Appendix D). Table 1 shows the Overall Susceptibility score and rating for Pilgrims Baptist Church Wasilla.

Table 1. Natural Susceptibility - Susceptibility of the Wellhead and Aquifer to Contamination

	Score	Rating
Susceptibility of the Wellhead	5	Low
Susceptibility of the Aquifer	25	Very High
Natural Susceptibility	30	Low

Contaminant risks to a drinking water source depend on the type, number or density, and distribution of contaminant sources. Class V injection wells for a large capacity septic system, and a Class V injection well for disposal of motor vehicle waste contribute the highest risk for potential contamination to the Pilgrims Baptist Church Wasilla source of public drinking water.

A score (0 – 50 points) and rating of Contaminant Risks (see Appendix D) is assigned based on the findings of the Contaminant Source Inventory (Appendix C - Table 1 – Table 4). This portion of the analysis examines any existing or historical contamination that has been detected at the drinking water source through routine sampling. It also reviews contamination that has or may have occurred, but has not arrived or been detected at the well. Table 2 summarizes the Contaminant Risks for each category of drinking water contaminants.

Table 2. Contaminant Risks

Contaminant Risks	Score	Rating
Bacteria and Viruses	40	Very High
Nitrates and/or Nitrites	50	Very High
Volatile Organic Chemicals	50	Very high

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.

Vulnerability of the drinking water source to contamination is the combination of susceptibility of the aquifer and the well with contaminant risks. Table 3 contains the overall vulnerability scores (0 – 10) and ratings for each of the three categories of drinking water contaminants (See Appendix D). Note: scores are rounded off to the nearest five.

Table 3. Overall Vulnerability of Pilgrims Baptist Church Wasilla Public Drinking Water Source to Contamination by Category

Category	Score	Rating
Bacteria and Viruses	70	High
Nitrates and Nitrites	80	Very High
Volatile Organic Chemicals	80	Very High

Tables 2 through 4 in Appendix C contain the ranking of potential and existing sources of contamination with respect to bacteria and viruses, nitrates and/or nitrites, and volatile organic chemicals.

The Class V septic systems are the driving factor in determining contaminant risks for bacteria and viruses, and nitrates and nitrites; and a petroleum bulk station is the driving factor in determining contaminant risks for volatile organic chemicals (see “Overall Rank after Analysis” in Table 2 – 4 of Appendix C).

Overall, contaminant risks for bacteria and viruses are very high with Class V Septic Well driving the score. Combining this potential bacteria and viruses risk with the susceptibility of the well yields an overall vulnerability to contamination of high for this source of public drinking water.

Overall, contaminant risks for nitrates and/or nitrites are very high with Class V septic systems and domestic wastewater collection systems driving the score. Combining this potential nitrates and/or nitrites risk with the susceptibility of the well yields an overall vulnerability to contamination of very high for this source of public drinking water.

Overall, contaminant risks for volatile organic chemicals are very high with a petroleum bulk station driving the score. Combining these potential volatile organic chemical contamination risks with the susceptibility of the well yields an overall vulnerability to contamination of very high for this source of public drinking water.

SUMMARY

A *Source Water Assessment* has been completed for the Pilgrims Baptist Church Wasilla source of public drinking water. The overall vulnerability of this source to contamination is **High** for bacteria and viruses, **Very High** for nitrates and/or nitrites, and **Very High** for volatile organic chemicals. This assessment of contaminant risks can be used as a foundation for local voluntary protection efforts as well as a basis for the continuous efforts on the part of the Anchorage Water & Wastewater Utility to protect public health. It is anticipated that *Source Water Assessments* will be updated every five years to reflect any changes in the vulnerability and/or susceptibility of the public drinking water source.

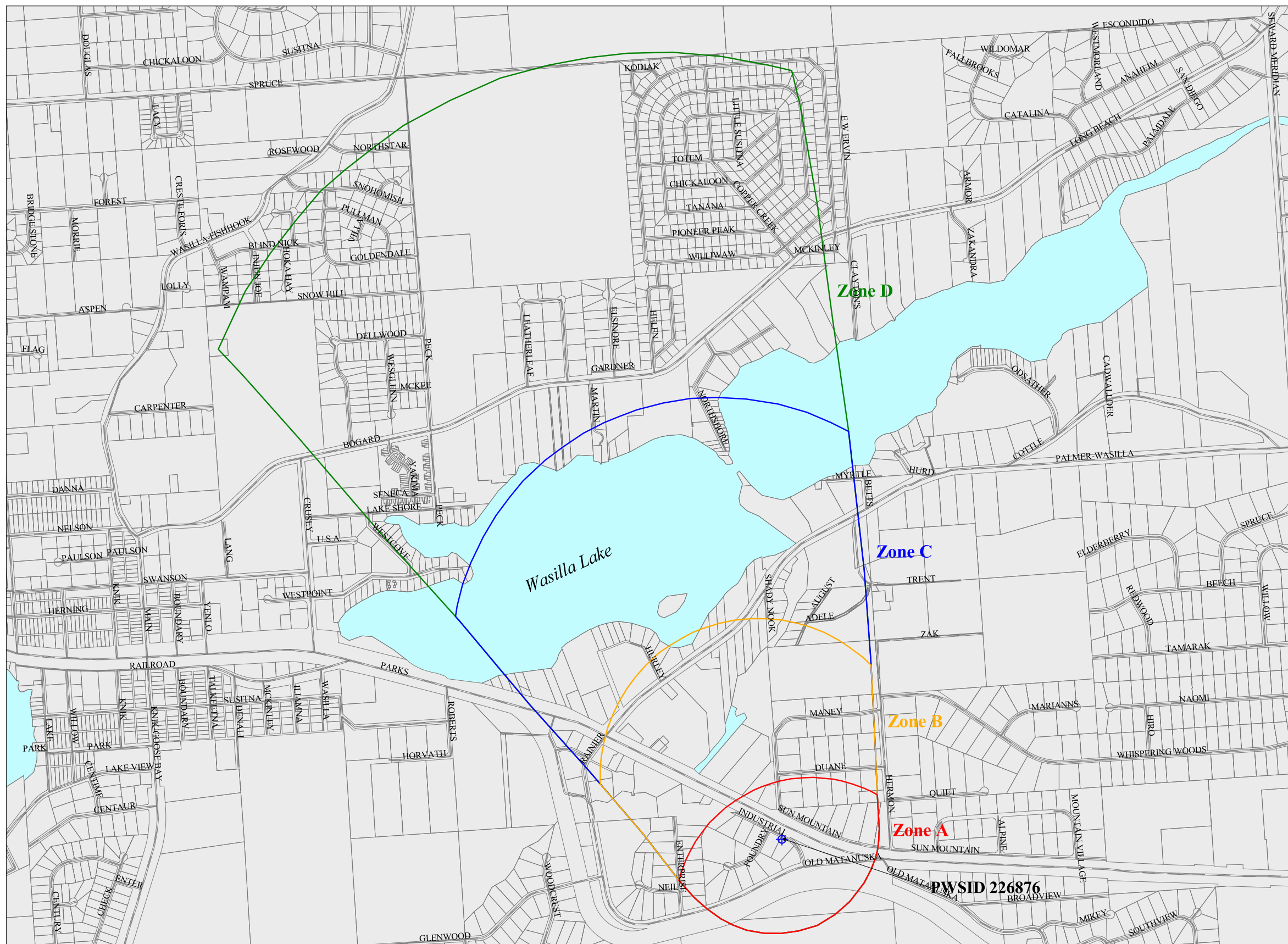
REFERENCES CITED

- Alaska Department of Natural Resources, 1981, Scenic Resources along the Parks Highway, Anchorage, AK
- Alaska Department of Transportation and Public Facilities, 1990, Parks Highway Reconnaissance Report, Anchorage, AK.
- Alaska Department of Transportation and Public Facilities, 1992, Wasilla-Fishhook Road Environmental Assessment, Anchorage, AK.
- Brabets, T., 1997, Precipitation map of Alaska, Web extension to the U.S. Geological Survey Water Resources for Alaska GIS datasets. <URL:<http://agdc.usgs.gov/data/usgs/water>> .
- Dearborn, L.L., and Alleley, R.D., 1983, Water-well data for the Big Lake area, Anchorage C8-SW Quadrangle, Alaska; Division of Geological and Geophysical Surveys Report of Investigations 83-19, State of Alaska Department of Natural Resources, Fairbanks, AK.
- Jakola, J.B., Munter, J.A., and Evans, J.G., 1991, Ground-water resources of the Palmer-Big Lake area, Alaska: a conceptual model. Division of Geological and Geophysical Surveys Report of Investigations 90-4, State of Alaska Department of Natural Resources, Fairbanks, AK.
- LaSage, D.M., 1992, Ground-water resources of the Palmer area, Alaska, Division of geological and Geophysical Surveys Report of Investigations 92-3, State of Alaska Department of Natural Resources, Fairbanks, AK.
- Matanuska-Susitna Borough/Fran Seager, 1991, Major Coal Towns of the Matanuska Valley: A Pictorial History, Palmer, AK.
- Matanuska-Susitna Borough, 1985, Knik-Matanuska-Susitna: A Visual History of the Valleys, Wasilla, AK.
- Maynard, D.L., 1987, Water-well data from the Houston area, Matanuska-Susitna Borough, Alaska, Division of Geological and Geophysical Surveys Report of Investigations 87-17, 14p., State of Alaska Department of Natural Resources, Fairbanks, AK.
- Patrick, L.D., Brabets, T.P., and Glass, R.L., 1989, Simulation of ground-water flow at Anchorage, Alaska: US Geological Survey Water-Resources Investigations Report 88-4139, 41p.
- Renshaw Consulting Engineers, 1983, Summary of Mineral Resources, Palmer, AK.
- Trainer, F.W., 1953, Preliminary report on the geology and groundwater resources of the Matanuska Valley agricultural area, Alaska, USGS Water Supply Paper 1494, U.S. Printing Office, Washington, D.C.
- Western Regional Climate Center, 2000, August 24, Web extension to the *Western Regional Climate Center* [WWW document]. URL http://www.uaa.alaska.edu/enri/ascc_web/ascc_home.html .
- Wickersham Alaska Corporation, 1986, Wasilla Comprehensive Plan, Anchorage, AK.
- Winkler, G.R., 1992, Geologic map and summary geochronology of the Anchorage 1° x 3° quadrangle, Southern Alaska, US Geological Survey MAP I-2283, U.S. Government Printing Office, Washington D.C.

APPENDIX A

Drinking Water Protection Area

Drinking Water Protection Area for the Public Water System Well at Pilgrims Baptist Church



Legend

- Public Water System Well
- Roads
- Lakes

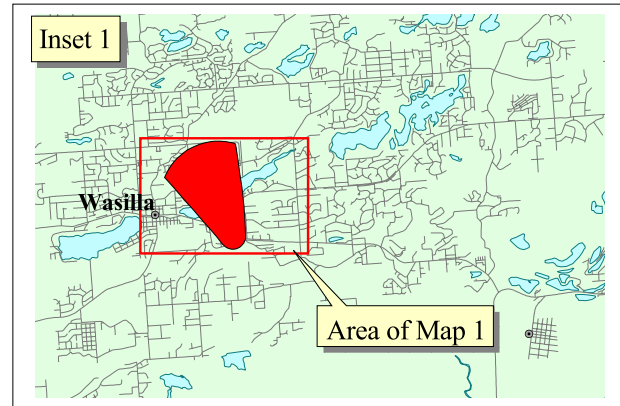
Protection Areas

- Zone A: Several Months Travel Time
- Zone B: Less Than 2 Years Travel Time
- Zone C: Less Than 5 Years Travel Time
- Zone D: Less Than 10 Years Travel Time

Data Sources:
 Base Map Data, Contaminant Sources, Public Water System Wells
 Alaska Department of Environmental Conservation (ADEC)

Drinking Water Protection Areas based on ADEC Calculation Spreadsheet.

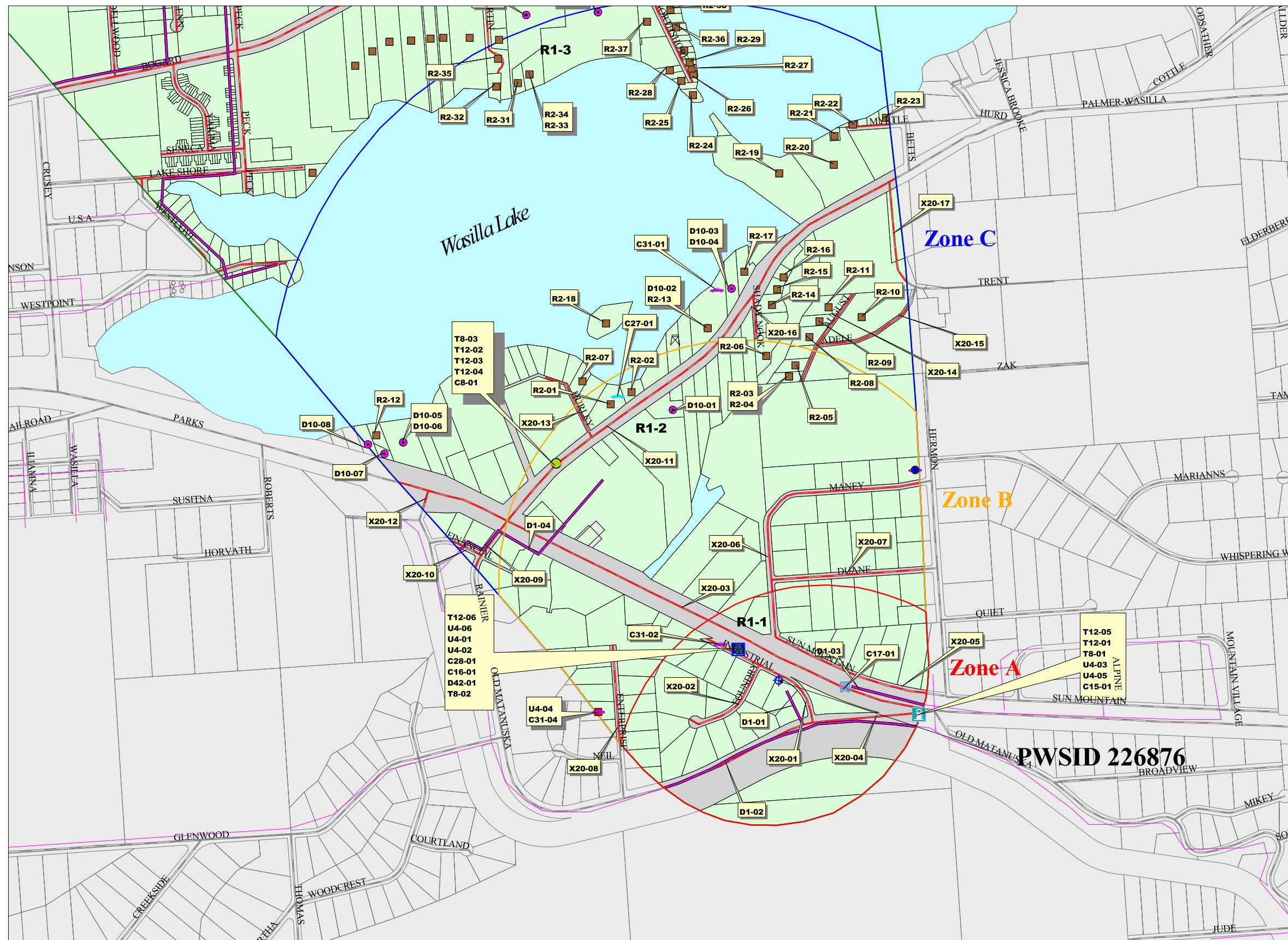
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APPENDIX B

Drinking Water Protection Area Showing Sources of Contamination

Drinking Water Protection Area for the Public Water System Well at Pilgrims Baptist Church Showing Potential and Existing Sources of Contamination



Legend

- Public Water System Well
- Roads
- Sewer Lines
- Lakes

Protection Areas

- Zone A
Several Months Travel Time
- Zone B
Less Than 2 Years Travel Time
- Zone C
Less Than 5 Years Travel Time
- Zone D
Less Than 10 Years Travel Time

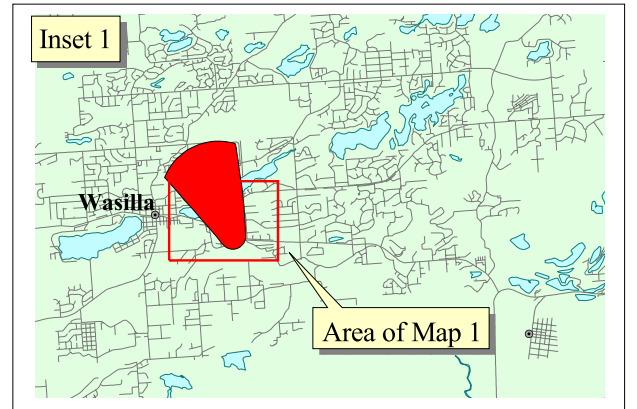
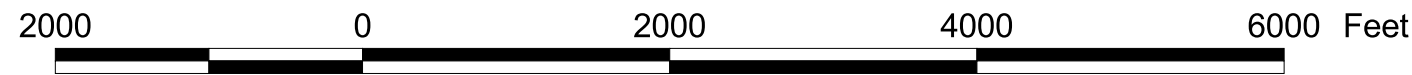
Contaminant Sources

- Contaminated sites (U4)
- Gasoline stations (with repair shop) (C16)
- Gasoline stations (without repair shop) (C15)
- Hardware stores (C17)
- Car washes with engine or undercarriage cleaning (C8)
- Motor / motor vehicle repair shops (C31)
- Motor vehicle dealerships (C27)
- Motor/motor vehicle supplies stores (C28)
- Petroleum product bulk station/terminals (X11)
- Swimming pools (public) (X44)
- Tanks, diesel (underground) (T8)
- Tanks, gasoline (underground) (T12)
- Injection wells (Class V) Vehicle Waste Disposal Well (D42)
- Injection wells (Class V) Septic System (Drainfield) (D10)
- Septic systems (R2)
- Sewer Lines (D1)
- Highways and Roads (X20)
- Residential Areas (R1)

Data Sources:
Base Map Data, Contaminant Sources, Public Water System Wells
Alaska Department of Environmental Conservation (ADEC)

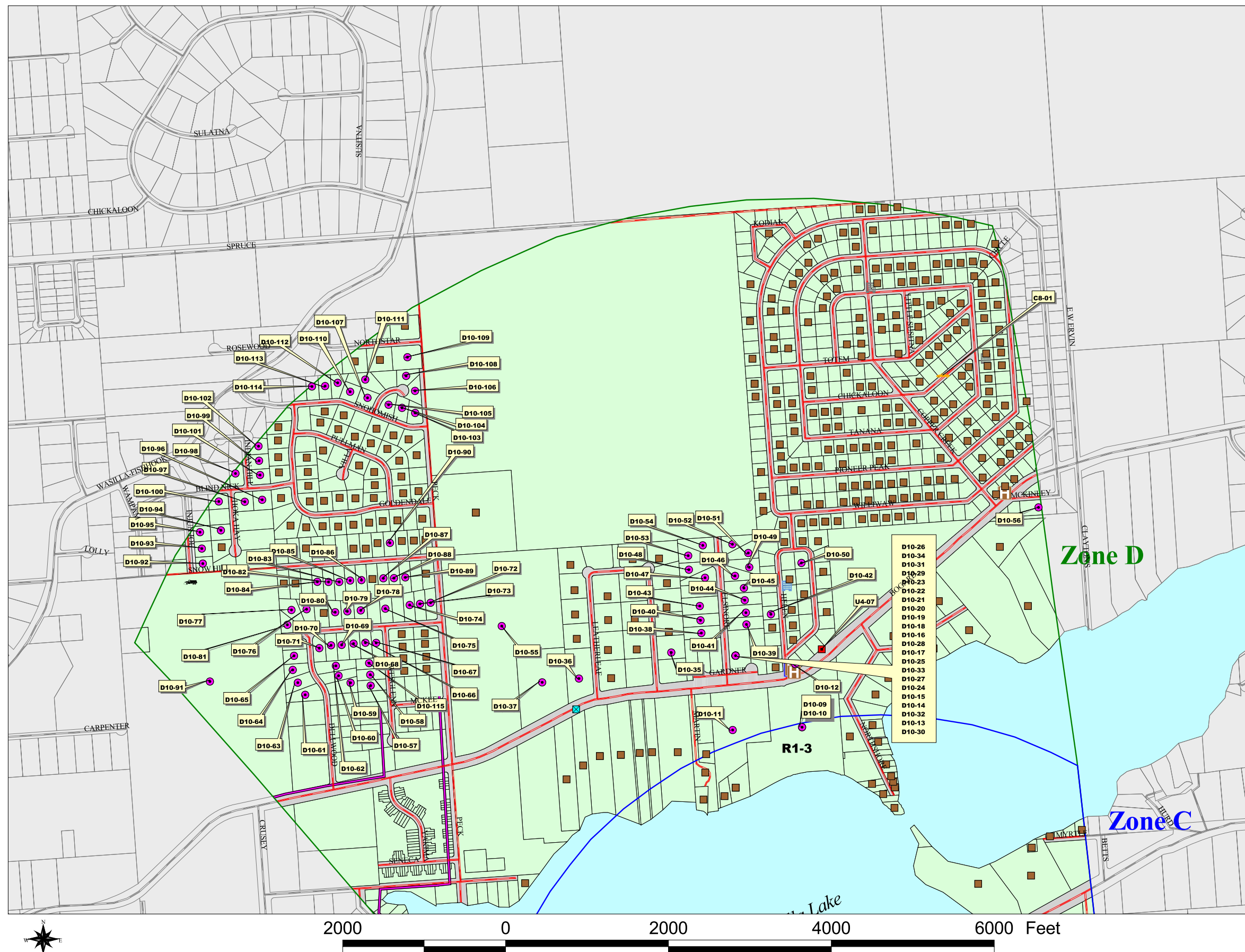
Drinking Water Protection Areas based on ADEC
Calculation Spreadsheet.

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



Appendix B MAP 1 **PWS 223129.001**

Drinking Water Protection Area for the Public Water System Well at Pilgrims Baptist Church Showing Potential and Existing Sources of Contamination



Legend

- Public Water System Well
- Roads
- Sewer Lines
- Lakes

Protection Areas

- Zone A
Several Months Travel Time
- Zone B
Less Than 2 Years Travel Time
- Zone C
Less Than 5 Years Travel Time
- Zone D
Less Than 10 Years Travel Time

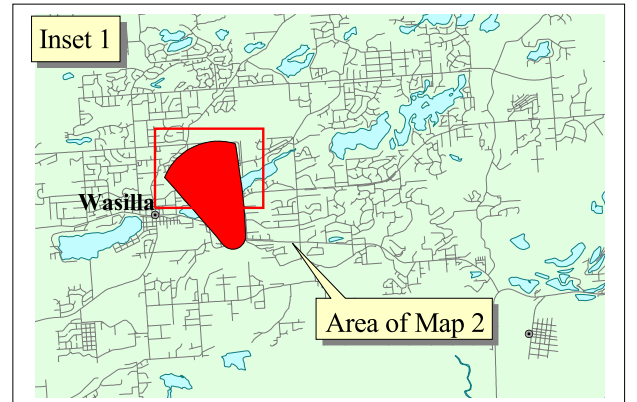
Contaminant Sources

- Contaminated sites (U4)
- Construction trade areas and materials (C9)
- Hardware stores (C17)
- Heavy equipment rental/storage (C18)
- Car washes with engine or undercarriage cleaning (C8)
- Medical/veterinary facilities (X40)
- Pharmacies (with on-site wastewater disposal) (C35)
- Swimming pools (public) (X44)
- Injection wells (Class V) Septic System (Drainfield) (D10)
- Septic systems (R2)
- Sewer Lines (D1)
- Highways and Roads (X20)
- Residential Areas (R1)

Data Sources:
Base Map Data, Contaminant Sources, Public Water System Wells
Alaska Department of Environmental Conservation (ADEC)

Drinking Water Protection Areas based on ADEC
Calculation Spreadsheet.

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



APPENDIX C

Contaminant Source Inventory Tables

Table 1

**Contaminant Source Inventory for the
Class 'B' Well System at
Pilgrims Baptist Church Wasilla**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Gasoline stations (without repair shop)	C15	C15-01	A	PARKS HWY	1	
Gasoline stations (with repair shop)	C16	C16-01	A	PARKS HWY	1	
Hardware stores	C17	C17-01	A	PARKS HWY	1	
Motor/motor vehicle supplies stores	C28	C28-01	A	PARKS HWY	1	
Motor /motor vehicle repair shops	C31	C31-02	A	INDUSTRIAL DR	1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-01	A		1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-02	A		1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-03	A		1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-01	A	PARKS HWY	1	
Residential Areas	R1	R1-01	A		1	
Tanks, gasoline (underground)	T12	T12-01	A	PARKS HWY	1	
Tanks, gasoline (underground)	T12	T12-05	A	PARKS HWY	1	
Tanks, gasoline (underground)	T12	T12-06	A	PARKS HWY	1	
Tanks, diesel (underground)	T8	T8-01	A	PARKS HWY	1	
Tanks, diesel (underground)	T8	T8-02	A	PARKS HWY	1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U4	U4-01	A	PARKS HWY	1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U4	U4-02	A	PARKS HWY	1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U4	U4-03	A	PARKS HWY	1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U4	U4-05	A	PARKS HWY	1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U4	U4-06	A	PARKS HWY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-01	A	E INDUSTRIAL DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-02	A	E FOUNDRY WAY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-03	A	E PARKS HWY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-04	A	E OLD MATANUSKA RD	1	
Highways and roads, paved (cement or asphalt)	X20	X20-05	A	E SUN MOUNTAIN AVE	1	
Highways and roads, paved (cement or asphalt)	X20	X20-06	A	S MANEY DR	1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-01	B	PALMER-WASILLA HWY	1	
Motor /motor vehicle repair shops	C31	C31-03	B	HERMON RD	1	
Motor /motor vehicle repair shops	C31	C31-04	B	ENTERPRISE ST	1	
Car washes with engine or undercarriage cleaning	C8	C8-01	B	PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	B	PALMER-WASILLA HWY	1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-04	B		1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-02	B	HERMON RD	1	
Residential Areas	R1	R1-02	B		1	
Septic systems (serves one single-family home)	R2	R2-01	B	PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-02	B	PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-03	B	AUGUST CIR	1	

Table 1

**Contaminant Source Inventory for the
Class 'B' Well System at
Pilgrims Baptist Church Wasilla**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Septic systems (serves one single-family home)	R2	R2-04	B	AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-05	B	AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-06	B	SHADY NOOK CIR	1	
Tanks, gasoline (underground)	T12	T12-02	B	PALMER-WASILLA HWY	1	
Tanks, gasoline (underground)	T12	T12-03	B	PALMER-WASILLA HWY	1	
Tanks, gasoline (underground)	T12	T12-04	B	PALMER-WASILLA HWY	1	
Tanks, diesel (underground)	T8	T8-03	B	PALMER-WASILLA HWY	1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U4	U4-04	B	ENTERPRISE ST	1	
Highways and roads, paved (cement or asphalt)	X20	X20-07	B	E DUANE DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-08	B	S ENTERPRISE ST	1	
Highways and roads, paved (cement or asphalt)	X20	X20-09	B	S RAINIER DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-11	B	E PALMER-WASILLA HWY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-13	B	E HURLEY CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-14	B	S AUGUST CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-15	B	S ADELE CIR	1	
Motor /motor vehicle repair shops	C31	C31-01	C	PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	C	PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	C	PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-04	C	PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-05	C	PARKS HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-06	C	PARKS HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-07	C	PARKS HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-08	C	PARKS HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-09	C	BOGARD RD	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-10	C	BOGARD RD	1	
Residential Areas	R1	R1-03	C		1	
Septic systems (serves one single-family home)	R2	R2-07	C	HURLEY CIR	1	
Septic systems (serves one single-family home)	R2	R2-08	C	AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-09	C	AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-10	C	ADELE CIR	1	
Septic systems (serves one single-family home)	R2	R2-11	C	AUGUST CIR	1	

Table 1

**Contaminant Source Inventory for the
Class 'B' Well System at
Pilgrims Baptist Church Wasilla**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Septic systems (serves one single-family home)	R2	R2-12	C	PARKS HWY	1	
Septic systems (serves one single-family home)	R2	R2-13	C	PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-14	C	PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-15	C	PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-16	C	PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-17	C	PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-18	C	ISLAND IN WASILLA LK	1	
Septic systems (serves one single-family home)	R2	R2-19	C	PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-20	C	PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-21	C	MYRTLE AVE	1	
Septic systems (serves one single-family home)	R2	R2-22	C	MYRTLE AVE	1	
Septic systems (serves one single-family home)	R2	R2-23	C	MYRTLE AVE	1	
Septic systems (serves one single-family home)	R2	R2-24	C	NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-25	C	NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-26	C	NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-27	C	NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-28	C	NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-29	C	NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-30	C	NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-31	C	MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-32	C	MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-33	C	MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-34	C	MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-35	C	MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-36	C	NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-37	C	NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-38	C	NORTHSHORE DR	1	
Petroleum product bulk station/terminals	X11	X11-01	C	PALMER-WASILLA HWY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-10	C	E FINANCIAL DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-12	C	E OLD MATANUSKA RD	1	
Highways and roads, paved (cement or asphalt)	X20	X20-16	C	S SHADY NOOK CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-17	C	N TRENT CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-18	C	E MYRTLE AVE	1	
Highways and roads, paved (cement or asphalt)	X20	X20-19	C	N NORTHSHORE DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-20	C	N MARTIN CIR	1	
Printers, publishers, copiers	C37	C37-01	D	BOGARD RD	2	
Car washes with engine or undercarriage cleaning	C8	C8-02	D	CHICKALOON RD	2	

Table 1

**Contaminant Source Inventory for the
Class 'B' Well System at
Pilgrims Baptist Church Wasilla**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-100	D	HOKA HAY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-101	D	INDIAN HILL CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-102	D	INDIAN HILL CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-103	D	SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-104	D	SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-105	D	SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-106	D	CHATTAROY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-107	D	SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-108	D	CHATTAROY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-109	D	NORTHSTAR CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-11	D	BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-110	D	SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-111	D	CHATTAROY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-112	D	SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-113	D	SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-114	D	SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-115	D	WESGLENN CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-12	D	BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-13	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-14	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-15	D	GARDNER WAY	2	

Table 1

**Contaminant Source Inventory for the
Class 'B' Well System at
Pilgrims Baptist Church Wasilla**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-16	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-17	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-18	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-19	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-20	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-21	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-22	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-23	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-24	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-25	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-26	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-27	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-28	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-29	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-30	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-31	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-32	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-33	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-34	D	GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-35	D	LEATHERLEAF LP	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-36	D	BOGARD RD	2	

Table 1

**Contaminant Source Inventory for the
Class 'B' Well System at
Pilgrims Baptist Church Wasilla**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-37	D	BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-38	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-39	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-40	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-41	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-42	D	HELEN LN	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-43	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-44	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-45	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-46	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-47	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-48	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-49	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-50	D	HELEN LN	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-51	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-52	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-53	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-54	D	ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-55	D	BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-56	D	MCKINLEY DR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-57	D	WESGLENN CIR	2	

Table 1

**Contaminant Source Inventory for the
Class 'B' Well System at
Pilgrims Baptist Church Wasilla**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-58	D	WESGLENN CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-59	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-60	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-61	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-62	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-63	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-64	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-65	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-66	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-67	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-68	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-69	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-70	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-71	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-72	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-73	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-74	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-75	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-76	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-77	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-78	D	DELLWOOD ST	2	

Table 1

**Contaminant Source Inventory for the
Class 'B' Well System at
Pilgrims Baptist Church Wasilla**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-79	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-80	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-81	D	DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-82	D	SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-83	D	SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-84	D	SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-85	D	SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-86	D	SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-87	D	SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-88	D	SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-89	D	SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-90	D	SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-91	D	BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-92	D	INJUN JOE CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-93	D	INJUN JOE CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-94	D	HOKA HAY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-95	D	INJUN JOE CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-96	D	BLIND NICK DR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-97	D	BLIND NICK DR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-98	D	INDIAN HILL CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-99	D	INDIAN HILL CIR	2	

Table 1

**Contaminant Source Inventory for the
Class 'B' Well System at
Pilgrims Baptist Church Wasilla**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U4	U4-07	D	BOGARD RD	2	

Table 2

Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Bacteria and Viruses)

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-01	A	Medium	1		1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-02	A	Medium	2		1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-03	A	Medium	3		1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-01	A	Low	6	PARKS HWY	1	
Residential Areas	R1	R1-01	A	Low	7		1	57 acres
Highways and roads, paved (cement or asphalt)	X20	X20-01	A	Very Low	10	E INDUSTRIAL DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-02	A	Very Low		E FOUNDRY WAY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-03	A	Very Low		E PARKS HWY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-04	A	Very Low		E OLD MATANUSKA RD	1	
Highways and roads, paved (cement or asphalt)	X20	X20-05	A	Very Low		E SUN MOUNTAIN AVE	1	
Highways and roads, paved (cement or asphalt)	X20	X20-06	A	Very Low		S MANEY DR	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	B	High	4	PALMER-WASILLA HWY	1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-04	B	Medium	5		1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-02	B	Low	8	HERMON RD	1	
Residential Areas	R1	R1-02	B	Low	9		1	135 acres
Septic systems (serves one single-family home)	R2	R2-01	B	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-02	B	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-03	B	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-04	B	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-05	B	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-06	B	Very Low		SHADY NOOK CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-07	B	Very Low		E DUANE DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-08	B	Very Low		S ENTERPRISE ST	1	
Highways and roads, paved (cement or asphalt)	X20	X20-09	B	Very Low		S RAINIER DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-11	B	Very Low		E PALMER-WASILLA HWY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-13	B	Very Low		E HURLEY CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-14	B	Very Low		S AUGUST CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-15	B	Very Low		S ADELE CIR	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	C	High		PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	C	High		PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-04	C	High		PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-05	C	High		PARKS HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-06	C	High		PARKS HWY	1	

Table 2

Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Bacteria and Viruses)

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-07	C	High		PARKS HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-08	C	High		PARKS HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-09	C	High		BOGARD RD	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-10	C	High		BOGARD RD	1	
Residential Areas	R1	R1-03	C	Low			1	100 acres
Septic systems (serves one single-family home)	R2	R2-07	C	Very Low		HURLEY CIR	1	
Septic systems (serves one single-family home)	R2	R2-08	C	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-09	C	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-10	C	Very Low		ADELE CIR	1	
Septic systems (serves one single-family home)	R2	R2-11	C	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-12	C	Very Low		PARKS HWY	1	
Septic systems (serves one single-family home)	R2	R2-13	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-14	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-15	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-16	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-17	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-18	C	Very Low		ISLAND IN WASILLA LK	1	
Septic systems (serves one single-family home)	R2	R2-19	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-20	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-21	C	Very Low		MYRTLE AVE	1	
Septic systems (serves one single-family home)	R2	R2-22	C	Very Low		MYRTLE AVE	1	
Septic systems (serves one single-family home)	R2	R2-23	C	Very Low		MYRTLE AVE	1	
Septic systems (serves one single-family home)	R2	R2-24	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-25	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-26	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-27	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-28	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-29	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-30	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-31	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-32	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-33	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-34	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-35	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-36	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-37	C	Very Low		NORTHSHORE DR	1	

Table 2

**Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Bacteria and Viruses)**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Septic systems (serves one single-family home)	R2	R2-38	C	Very Low		NORTHSHORE DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-10	C	Very Low		E FINANCIAL DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-12	C	Very Low		E OLD MATANUSKA RD	1	
Highways and roads, paved (cement or asphalt)	X20	X20-16	C	Very Low		S SHADY NOOK CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-17	C	Very Low		N TRENT CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-18	C	Very Low		E MYRTLE AVE	1	
Highways and roads, paved (cement or asphalt)	X20	X20-19	C	Very Low		N NORTHSHORE DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-20	C	Very Low		N MARTIN CIR	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-100	D	High		HOKA HAY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-101	D	High		INDIAN HILL CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-102	D	High		INDIAN HILL CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-103	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-104	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-105	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-106	D	High		CHATTAROY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-107	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-108	D	High		CHATTAROY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-109	D	High		NORTHSTAR CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-11	D	High		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-110	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-111	D	High		CHATTAROY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-112	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-113	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-114	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-115	D	High		WESGLENN CIR	2	

Table 2

**Potential and Existing Sources of Contamination for
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PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-12	D	High		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-13	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-14	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-15	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-16	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-17	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-18	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-19	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-20	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-21	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-22	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-23	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-24	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-25	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-26	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-27	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-28	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-29	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-30	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-31	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-32	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-33	D	High		GARDNER WAY	2	

Table 2

**Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Bacteria and Viruses)**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-34	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-35	D	High		LEATHERLEAF LP	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-36	D	High		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-37	D	High		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-38	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-39	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-40	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-41	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-42	D	High		HELEN LN	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-43	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-44	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-45	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-46	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-47	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-48	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-49	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-50	D	High		HELEN LN	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-51	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-52	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-53	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-54	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-55	D	High		BOGARD RD	2	

Table 2

**Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Bacteria and Viruses)**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-56	D	High		MCKINLEY DR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-57	D	High		WESGLENN CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-58	D	High		WESGLENN CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-59	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-60	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-61	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-62	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-63	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-64	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-65	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-66	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-67	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-68	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-69	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-70	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-71	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-72	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-73	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-74	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-75	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-76	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-77	D	High		DELLWOOD ST	2	

Table 2

**Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
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PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-78	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-79	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-80	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-81	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-82	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-83	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-84	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-85	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-86	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-87	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-88	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-89	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-90	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-91	D	High		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-92	D	High		INJUN JOE CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-93	D	High		INJUN JOE CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-94	D	High		HOKA HAY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-95	D	High		INJUN JOE CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-96	D	High		BLIND NICK DR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-97	D	High		BLIND NICK DR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-98	D	High		INDIAN HILL CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-99	D	High		INDIAN HILL CIR	2	

Table 3

Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Nitrates and Nitrites)

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Hardware stores	C17	C17-01	A	Low		PARKS HWY	1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-01	A	Medium	2		1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-02	A	Medium	3		1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-03	A	Medium	4		1	
Residential Areas	R1	R1-01	A	Low			1	57 acres
Highways and roads, paved (cement or asphalt)	X20	X20-01	A	Very Low		E INDUSTRIAL DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-02	A	Very Low		E FOUNDRY WAY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-03	A	Very Low		E PARKS HWY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-04	A	Very Low		E OLD MATANUSKA RD	1	
Highways and roads, paved (cement or asphalt)	X20	X20-05	A	Very Low		E SUN MOUNTAIN AVE	1	
Highways and roads, paved (cement or asphalt)	X20	X20-06	A	Very Low		S MANEY DR	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	B	High	1	PALMER-WASILLA HWY	1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-04	B	Medium	5		1	
Residential Areas	R1	R1-02	B	Low			1	135 acres
Septic systems (serves one single-family home)	R2	R2-01	B	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-02	B	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-03	B	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-04	B	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-05	B	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-06	B	Very Low		SHADY NOOK CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-07	B	Very Low		E DUANE DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-08	B	Very Low		S ENTERPRISE ST	1	
Highways and roads, paved (cement or asphalt)	X20	X20-09	B	Very Low		S RAINIER DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-11	B	Very Low	6	E PALMER-WASILLA HWY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-13	B	Very Low	7	E HURLEY CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-14	B	Very Low	8	S AUGUST CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-15	B	Very Low	9	S ADELE CIR	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	C	High	10	PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	C	High		PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-04	C	High		PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-05	C	High		PARKS HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-06	C	High		PARKS HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-07	C	High		PARKS HWY	1	

Table 3

**Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Nitrates and Nitrites)**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-08	C	High		PARKS HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-09	C	High		BOGARD RD	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-10	C	High		BOGARD RD	1	
Residential Areas	R1	R1-03	C	Low			1	100 acres
Septic systems (serves one single-family home)	R2	R2-07	C	Very Low		HURLEY CIR	1	
Septic systems (serves one single-family home)	R2	R2-08	C	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-09	C	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-10	C	Very Low		ADELE CIR	1	
Septic systems (serves one single-family home)	R2	R2-11	C	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-12	C	Very Low		PARKS HWY	1	
Septic systems (serves one single-family home)	R2	R2-13	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-14	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-15	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-16	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-17	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-18	C	Very Low		ISLAND IN WASILLA LK	1	
Septic systems (serves one single-family home)	R2	R2-19	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-20	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-21	C	Very Low		MYRTLE AVE	1	
Septic systems (serves one single-family home)	R2	R2-22	C	Very Low		MYRTLE AVE	1	
Septic systems (serves one single-family home)	R2	R2-23	C	Very Low		MYRTLE AVE	1	
Septic systems (serves one single-family home)	R2	R2-24	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-25	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-26	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-27	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-28	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-29	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-30	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-31	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-32	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-33	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-34	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-35	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-36	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-37	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-38	C	Very Low		NORTHSHORE DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-10	C	Very Low		E FINANCIAL DR	1	

Table 3

**Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Nitrates and Nitrites)**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Highways and roads, paved (cement or asphalt)	X20	X20-12	C	Very Low		E OLD MATANUSKA RD	1	
Highways and roads, paved (cement or asphalt)	X20	X20-16	C	Very Low		S SHADY NOOK CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-17	C	Very Low		N TRENT CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-18	C	Very Low		E MYRTLE AVE	1	
Highways and roads, paved (cement or asphalt)	X20	X20-19	C	Very Low		N NORTHSHORE DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-20	C	Very Low		N MARTIN CIR	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-100	D	High		HOKA HAY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-101	D	High		INDIAN HILL CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-102	D	High		INDIAN HILL CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-103	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-104	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-105	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-106	D	High		CHATTAROY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-107	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-108	D	High		CHATTAROY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-109	D	High		NORTHSTAR CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-11	D	High		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-110	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-111	D	High		CHATTAROY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-112	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-113	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-114	D	High		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-115	D	High		WESGLENN CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-12	D	High		BOGARD RD	2	

Table 3

**Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Nitrates and Nitrites)**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-13	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-14	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-15	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-16	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-17	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-18	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-19	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-20	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-21	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-22	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-23	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-24	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-25	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-26	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-27	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-28	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-29	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-30	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-31	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-32	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-33	D	High		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-34	D	High		GARDNER WAY	2	

Table 3

**Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Nitrates and Nitrites)**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-35	D	High		LEATHERLEAF LP	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-36	D	High		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-37	D	High		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-38	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-39	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-40	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-41	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-42	D	High		HELEN LN	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-43	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-44	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-45	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-46	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-47	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-48	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-49	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-50	D	High		HELEN LN	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-51	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-52	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-53	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-54	D	High		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-55	D	High		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-56	D	High		MCKINLEY DR	2	

Table 3

**Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Nitrates and Nitrites)**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-57	D	High		WESGLENN CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-58	D	High		WESGLENN CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-59	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-60	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-61	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-62	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-63	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-64	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-65	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-66	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-67	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-68	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-69	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-70	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-71	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-72	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-73	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-74	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-75	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-76	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-77	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-78	D	High		DELLWOOD ST	2	

Table 3

**Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Nitrates and Nitrites)**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-79	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-80	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-81	D	High		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-82	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-83	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-84	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-85	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-86	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-87	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-88	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-89	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-90	D	High		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-91	D	High		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-92	D	High		INJUN JOE CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-93	D	High		INJUN JOE CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-94	D	High		HOKA HAY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-95	D	High		INJUN JOE CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-96	D	High		BLIND NICK DR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-97	D	High		BLIND NICK DR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-98	D	High		INDIAN HILL CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-99	D	High		INDIAN HILL CIR	2	

Table 4

**Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Volatile Organic Chemicals - VOCs)**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Gasoline stations (without repair shop)	C15	C15-01	A	High	6	PARKS HWY	1	
Gasoline stations (with repair shop)	C16	C16-01	A	High	7	PARKS HWY	1	
Hardware stores	C17	C17-01	A	Low		PARKS HWY	1	
Motor/motor vehicle supplies stores	C28	C28-01	A	Low		PARKS HWY	1	
Motor /motor vehicle repair shops	C31	C31-02	A	Medium		INDUSTRIAL DR	1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-01	A	Low			1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-02	A	Low			1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-03	A	Low			1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-01	A	High		PARKS HWY	1	
Residential Areas	R1	R1-01	A	Low			1	52 acres
Tanks, gasoline (underground)	T12	T12-01	A	High	8	PARKS HWY	1	
Tanks, gasoline (underground)	T12	T12-05	A	High	9	PARKS HWY	1	
Tanks, gasoline (underground)	T12	T12-06	A	High	10	PARKS HWY	1	
Tanks, diesel (underground)	T8	T8-01	A	High		PARKS HWY	1	
Tanks, diesel (underground)	T8	T8-02	A	High		PARKS HWY	1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U4	U4-01	A	High	1	PARKS HWY	1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U4	U4-02	A	High	2	PARKS HWY	1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U4	U4-03	A	High	3	PARKS HWY	1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U4	U4-05	A	High	4	PARKS HWY	1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U4	U4-06	A	High	5	PARKS HWY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-01	A	Very Low		E INDUSTRIAL DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-02	A	Very Low		E FOUNDRY WAY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-03	A	Very Low		E PARKS HWY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-04	A	Very Low		E OLD MATANUSKA RD	1	
Highways and roads, paved (cement or asphalt)	X20	X20-05	A	Very Low		E SUN MOUNTAIN AVE	1	
Highways and roads, paved (cement or asphalt)	X20	X20-06	A	Very Low		S MANEY DR	1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-01	B	Medium		PALMER-WASILLA HWY	1	
Motor /motor vehicle repair shops	C31	C31-03	B	Medium		HERMON RD	1	
Motor /motor vehicle repair shops	C31	C31-04	B	Medium		ENTERPRISE ST	1	
Car washes with engine or undercarriage cleaning	C8	C8-01	B	High		PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	B	Low		PALMER-WASILLA HWY	1	
Domestic wastewater collection systems (sewer lines or lift stations)	D1	D1-04	B	Low			1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-02	B	High		HERMON RD	1	
Residential Areas	R1	R1-02	B	Low			1	135 acres
Septic systems (serves one single-family home)	R2	R2-01	B	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-02	B	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-03	B	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-04	B	Very Low		AUGUST CIR	1	

Table 4

Potential and Existing Sources of Contamination for
 Pilgrims Baptist Church Wasilla
 (Volatile Organic Chemicals - VOCs)

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Septic systems (serves one single-family home)	R2	R2-05	B	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-06	B	Very Low		SHADY NOOK CIR	1	
Tanks, gasoline (underground)	T12	T12-02	B	High		PALMER-WASILLA HWY	1	
Tanks, gasoline (underground)	T12	T12-03	B	High		PALMER-WASILLA HWY	1	
Tanks, gasoline (underground)	T12	T12-04	B	High		PALMER-WASILLA HWY	1	
Tanks, diesel (underground)	T8	T8-03	B	High		PALMER-WASILLA HWY	1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U4	U4-04	B	High		ENTERPRISE ST	1	
Highways and roads, paved (cement or asphalt)	X20	X20-07	B	Very Low		E DUANE DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-08	B	Very Low		S ENTERPRISE ST	1	
Highways and roads, paved (cement or asphalt)	X20	X20-09	B	Very Low		S RAINIER DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-11	B	Very Low		E PALMER-WASILLA HWY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-13	B	Very Low		E HURLEY CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-14	B	Very Low		S AUGUST CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-15	B	Very Low		S ADELE CIR	1	
Motor /motor vehicle repair shops	C31	C31-01	C	Medium		PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	C	Low		PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	C	Low		PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-04	C	Low		PALMER-WASILLA HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-05	C	Low		PARKS HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-06	C	Low		PARKS HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-07	C	Low		PARKS HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-08	C	Low		PARKS HWY	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-09	C	Low		BOGARD RD	1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-10	C	Low		BOGARD RD	1	
Residential Areas	R1	R1-03	C	Low			1	100 acres
Septic systems (serves one single-family home)	R2	R2-07	C	Very Low		HURLEY CIR	1	
Septic systems (serves one single-family home)	R2	R2-08	C	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-09	C	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-10	C	Very Low		ADELE CIR	1	
Septic systems (serves one single-family home)	R2	R2-11	C	Very Low		AUGUST CIR	1	
Septic systems (serves one single-family home)	R2	R2-12	C	Very Low		PARKS HWY	1	
Septic systems (serves one single-family home)	R2	R2-13	C	Very Low		PALMER-WASILLA HWY	1	

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Potential and Existing Sources of Contamination for
 Pilgrims Baptist Church Wasilla
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PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Septic systems (serves one single-family home)	R2	R2-14	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-15	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-16	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-17	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-18	C	Very Low		ISLAND IN WASILLA LK	1	
Septic systems (serves one single-family home)	R2	R2-19	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-20	C	Very Low		PALMER-WASILLA HWY	1	
Septic systems (serves one single-family home)	R2	R2-21	C	Very Low		MYRTLE AVE	1	
Septic systems (serves one single-family home)	R2	R2-22	C	Very Low		MYRTLE AVE	1	
Septic systems (serves one single-family home)	R2	R2-23	C	Very Low		MYRTLE AVE	1	
Septic systems (serves one single-family home)	R2	R2-24	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-25	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-26	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-27	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-28	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-29	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-30	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-31	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-32	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-33	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-34	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-35	C	Very Low		MARTIN CIR	1	
Septic systems (serves one single-family home)	R2	R2-36	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-37	C	Very Low		NORTHSHORE DR	1	
Septic systems (serves one single-family home)	R2	R2-38	C	Very Low		NORTHSHORE DR	1	
Petroleum product bulk station/terminals	X11	X11-01	C	Very High		PALMER-WASILLA HWY	1	
Highways and roads, paved (cement or asphalt)	X20	X20-10	C	Very Low		E FINANCIAL DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-12	C	Very Low		E OLD MATANUSKA RD	1	
Highways and roads, paved (cement or asphalt)	X20	X20-16	C	Very Low		S SHADY NOOK CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-17	C	Very Low		N TRENT CIR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-18	C	Very Low		E MYRTLE AVE	1	
Highways and roads, paved (cement or asphalt)	X20	X20-19	C	Very Low		N NORTHSHORE DR	1	
Highways and roads, paved (cement or asphalt)	X20	X20-20	C	Very Low		N MARTIN CIR	1	
Printers, publishers, copiers	C37	C37-01	D	High		BOGARD RD	2	
Car washes with engine or undercarriage cleaning	C8	C8-02	D	High		CHICKALOON RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-100	D	Low		HOKA HAY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-101	D	Low		INDIAN HILL CIR	2	

Table 4

**Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Volatile Organic Chemicals - VOCs)**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-102	D	Low		INDIAN HILL CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-103	D	Low		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-104	D	Low		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-105	D	Low		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-106	D	Low		CHATTAROY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-107	D	Low		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-108	D	Low		CHATTAROY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-109	D	Low		NORTHSTAR CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-11	D	Low		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-110	D	Low		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-111	D	Low		CHATTAROY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-112	D	Low		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-113	D	Low		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-114	D	Low		SNOHOMISH AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-115	D	Low		WESGLENN CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-12	D	Low		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-13	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-14	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-15	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-16	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-17	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-18	D	Low		GARDNER WAY	2	

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**Potential and Existing Sources of Contamination for
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(Volatile Organic Chemicals - VOCs)**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-19	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-20	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-21	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-22	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-23	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-24	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-25	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-26	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-27	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-28	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-29	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-30	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-31	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-32	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-33	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-34	D	Low		GARDNER WAY	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-35	D	Low		LEATHERLEAF LP	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-36	D	Low		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-37	D	Low		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-38	D	Low		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-39	D	Low		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-40	D	Low		ELSINORE AVE	2	

Table 4

**Potential and Existing Sources of Contamination for
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(Volatile Organic Chemicals - VOCs)**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-41	D	Low		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-42	D	Low		HELEN LN	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-43	D	Low		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-44	D	Low		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-45	D	Low		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-46	D	Low		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-47	D	Low		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-48	D	Low		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-49	D	Low		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-50	D	Low		HELEN LN	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-51	D	Low		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-52	D	Low		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-53	D	Low		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-54	D	Low		ELSINORE AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-55	D	Low		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-56	D	Low		MCKINLEY DR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-57	D	Low		WESGLENN CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-58	D	Low		WESGLENN CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-59	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-60	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-61	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-62	D	Low		DELLWOOD ST	2	

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**Potential and Existing Sources of Contamination for
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PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-63	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-64	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-65	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-66	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-67	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-68	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-69	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-70	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-71	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-72	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-73	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-74	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-75	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-76	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-77	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-78	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-79	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-80	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-81	D	Low		DELLWOOD ST	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-82	D	Low		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-83	D	Low		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-84	D	Low		SNOW HILL AVE	2	

Table 4

**Potential and Existing Sources of Contamination for
Pilgrims Baptist Church Wasilla
(Volatile Organic Chemicals - VOCs)**

PWSID 223129

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-85	D	Low		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-86	D	Low		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-87	D	Low		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-88	D	Low		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-89	D	Low		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-90	D	Low		SNOW HILL AVE	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-91	D	Low		BOGARD RD	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-92	D	Low		INJUN JOE CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-93	D	Low		INJUN JOE CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-94	D	Low		HOKA HAY CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-95	D	Low		INJUN JOE CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-96	D	Low		BLIND NICK DR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-97	D	Low		BLIND NICK DR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-98	D	Low		INDIAN HILL CIR	2	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-99	D	Low		INDIAN HILL CIR	2	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U4	U4-07	D	High		BOGARD RD	2	

APPENDIX D

Vulnerability Analysis Charts and Tables

Chart 1. Susceptibility of the wellhead – Pilgrims Baptist Church

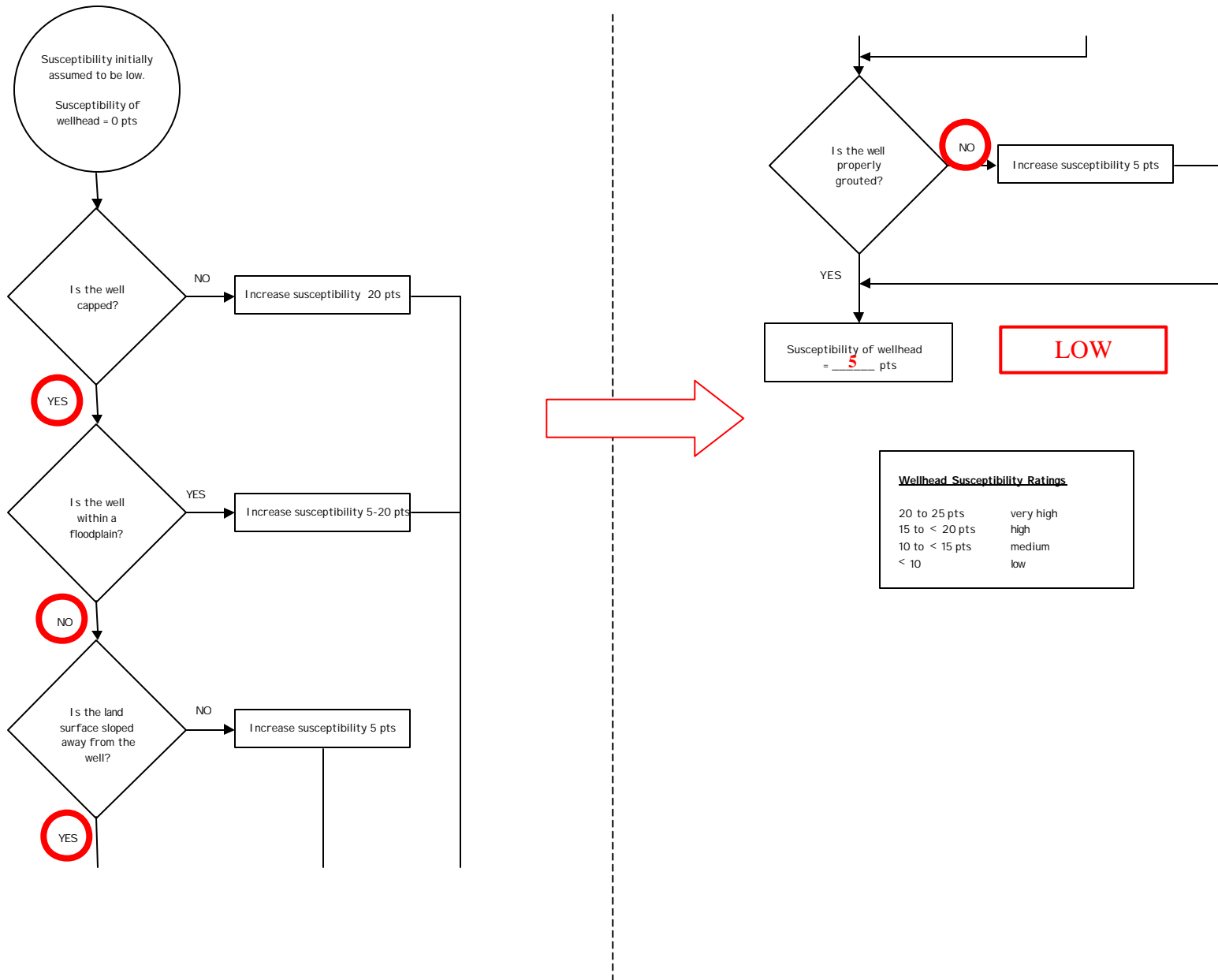
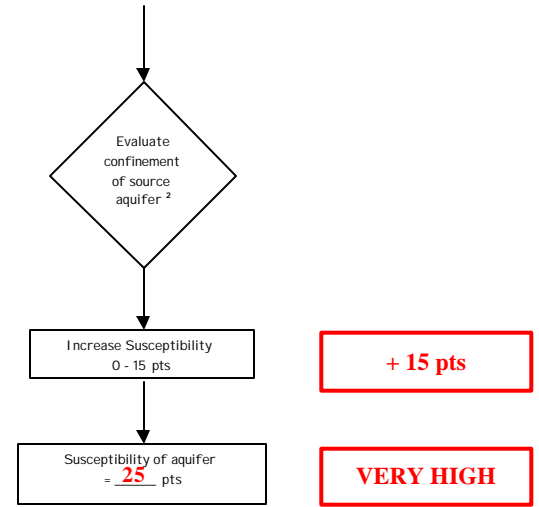
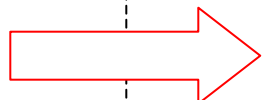
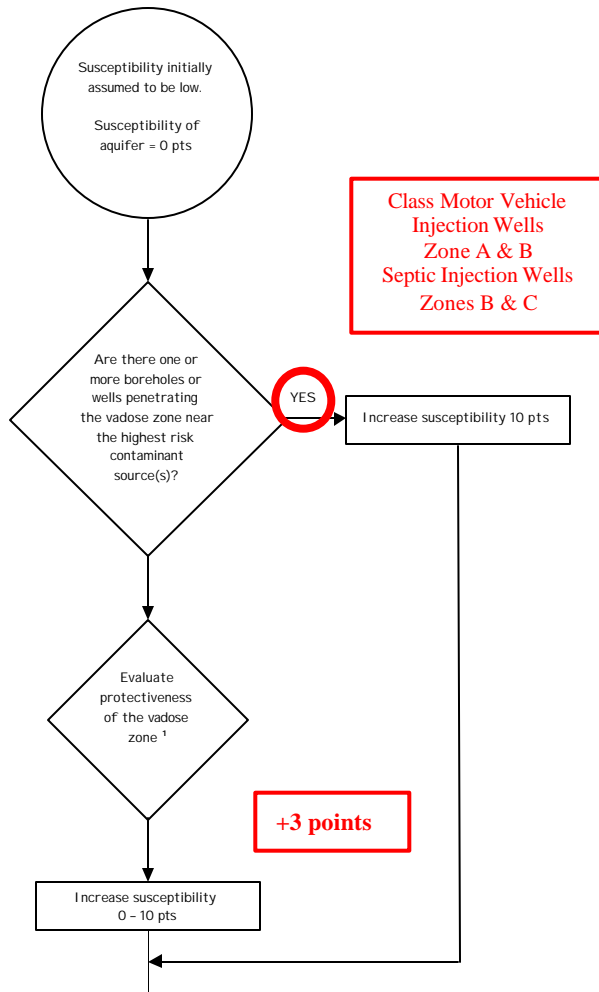


Chart 2. Susceptibility of the aquifer – Pilgrims Baptist Church



1. Protectiveness of the Vadose Zone

- net recharge (function of precipitation, slope of land surface, & permeability of soils) [0 - 10 pts; 50% weight]
- depth to water table (unconfined aquifer) or top of confining layer (confined aquifer) [interpolate linearly: 100' - 20', 0 - 5 pts; 20' - 0', 5 - 10 pts; 50% weight]

Recharge (18" per year, Clay, and Flat Interior Slope)
5/10 Pts = 3 Points

Depth to water 93 ft.
0/10 Pts = 0 Points

Protectiveness of the Vadose Zone Total = 3 Points

2. Degree of Confinement

- confined verses unconfined aquifer [confined: $K \leq 10^{-6}$ cm/s, minimum thickness of at least one layer = 20 ft, interpolate linearly 100' - 20', 0 - 10 pts; unconfined = 15 pts; 65% weight]
- density of boreholes and wells penetrating the confining layer (confined aquifer) or the water table (unconfined aquifer) [confined: 0 - 15 pts; unconfined = 15 pts; 35% weight]

Unconfined
15/15 Pts = 10 Points

Density of boreholes/wells
15/15 Pts = 5 Points

Degree of Confinement
Total = 15 Points

Aquifer Susceptibility Ratings

20 to 25 pts	very high
15 to < 20 pts	high
10 to < 15 pts	medium
< 10	low

VERY HIGH

Chart 3. Contaminant risks for Pilgrims Baptist Church – Bacteria & Viruses

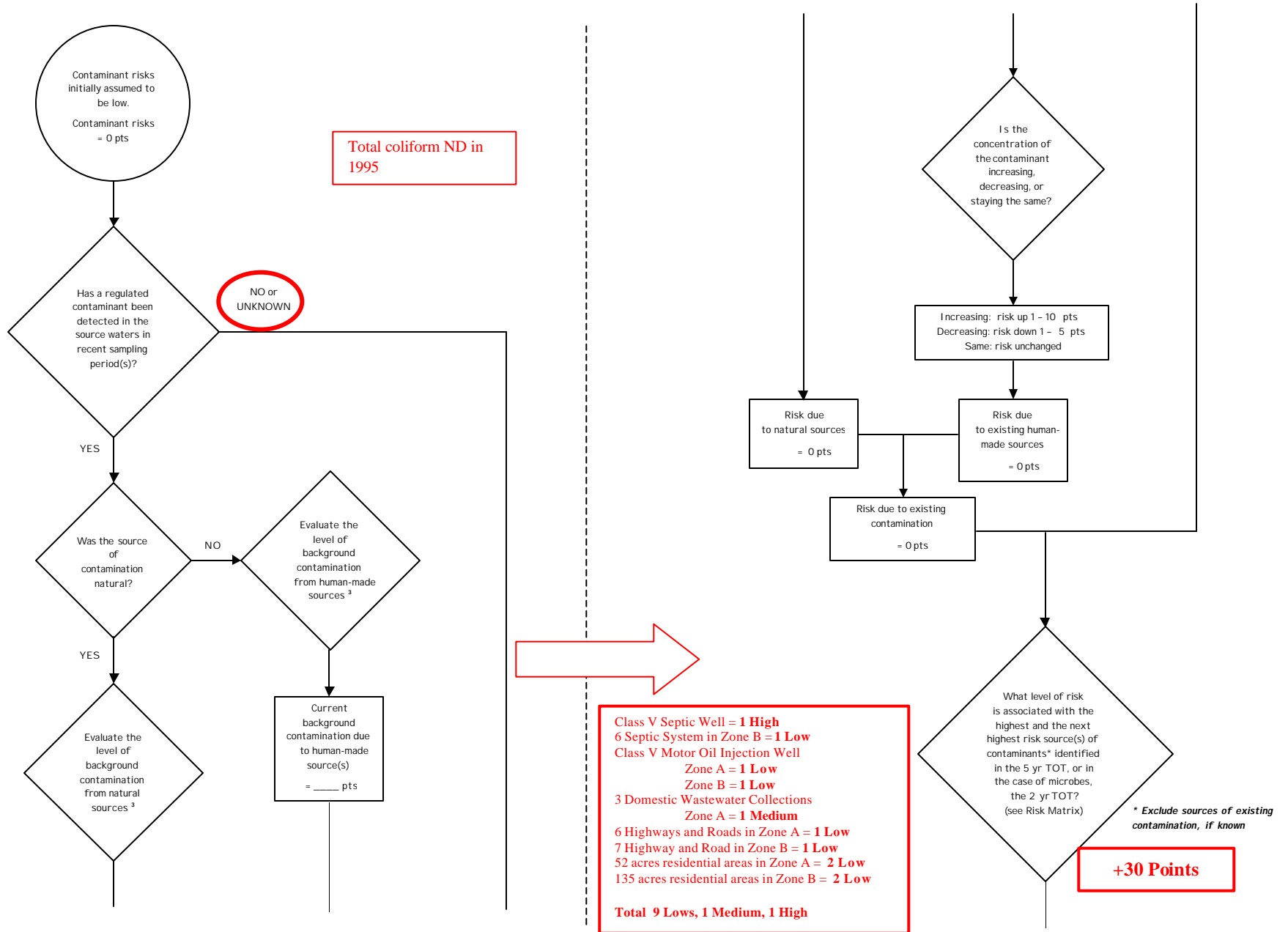


Chart 3. Contaminant risks for Pilgrims Baptist Church – Bacteria & Viruses (Continued)

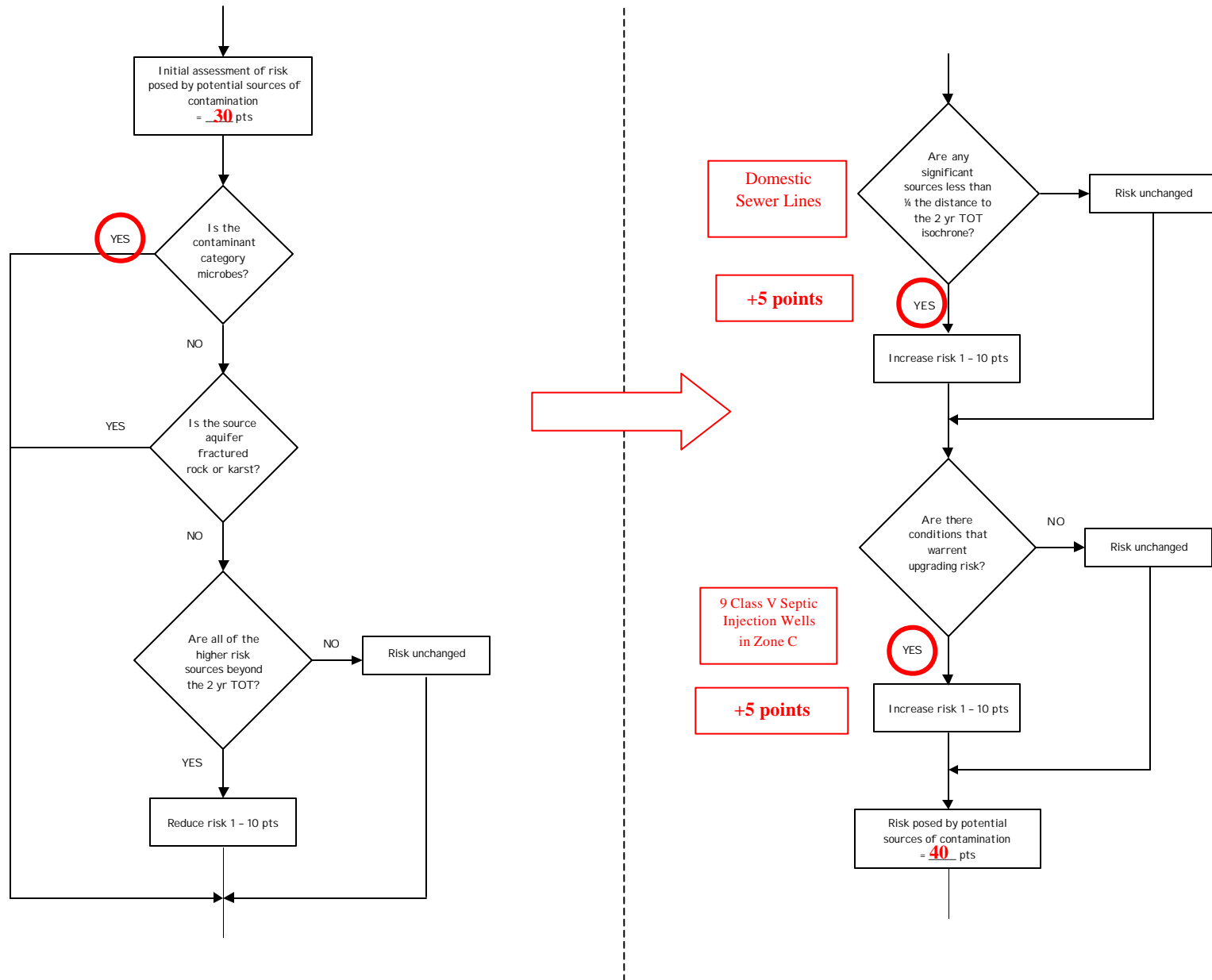


Chart 3. Contaminant risks for Pilgrims Baptist Church – Bacteria & Viruses (Continued)

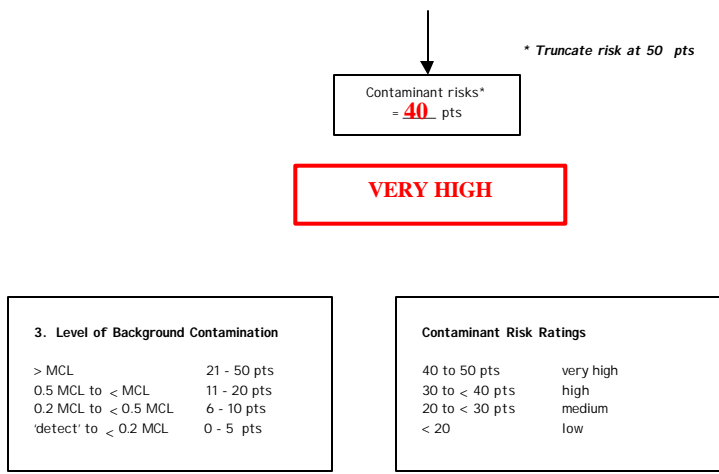
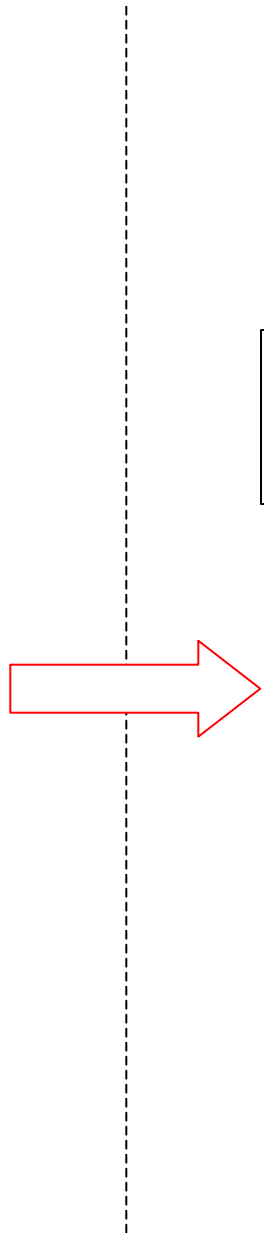
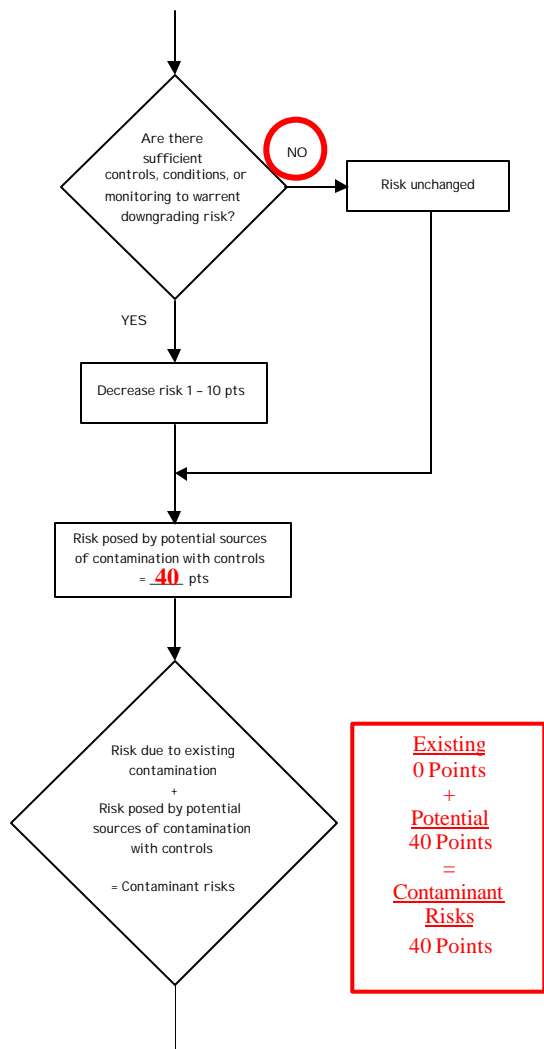


Table 1. Risk Matrix for Contaminant Sources for Pilgrims Baptist Church – Bacteria & Viruses

Level of Risk Associated with the Highest Risk Sources

Next Highest Risk Sources(s)

Class V Septic, Septic systems, Class V Motor Vehicle Waste Disposal Well, Domestic Wastewater collection	LOW 10 pts	MEDIUM 20 pts	HIGH 30 pts	VERY HIGH 40 pts
Low	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	---
Medium	---	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
High	---	---	1 source + 10 pts	≥ 2 sources + 10 pts
Very High	---	---	---	1 source + 10 pts

Chart 4. Vulnerability analysis for Pilgrims Baptist Church – Bacteria & Viruses

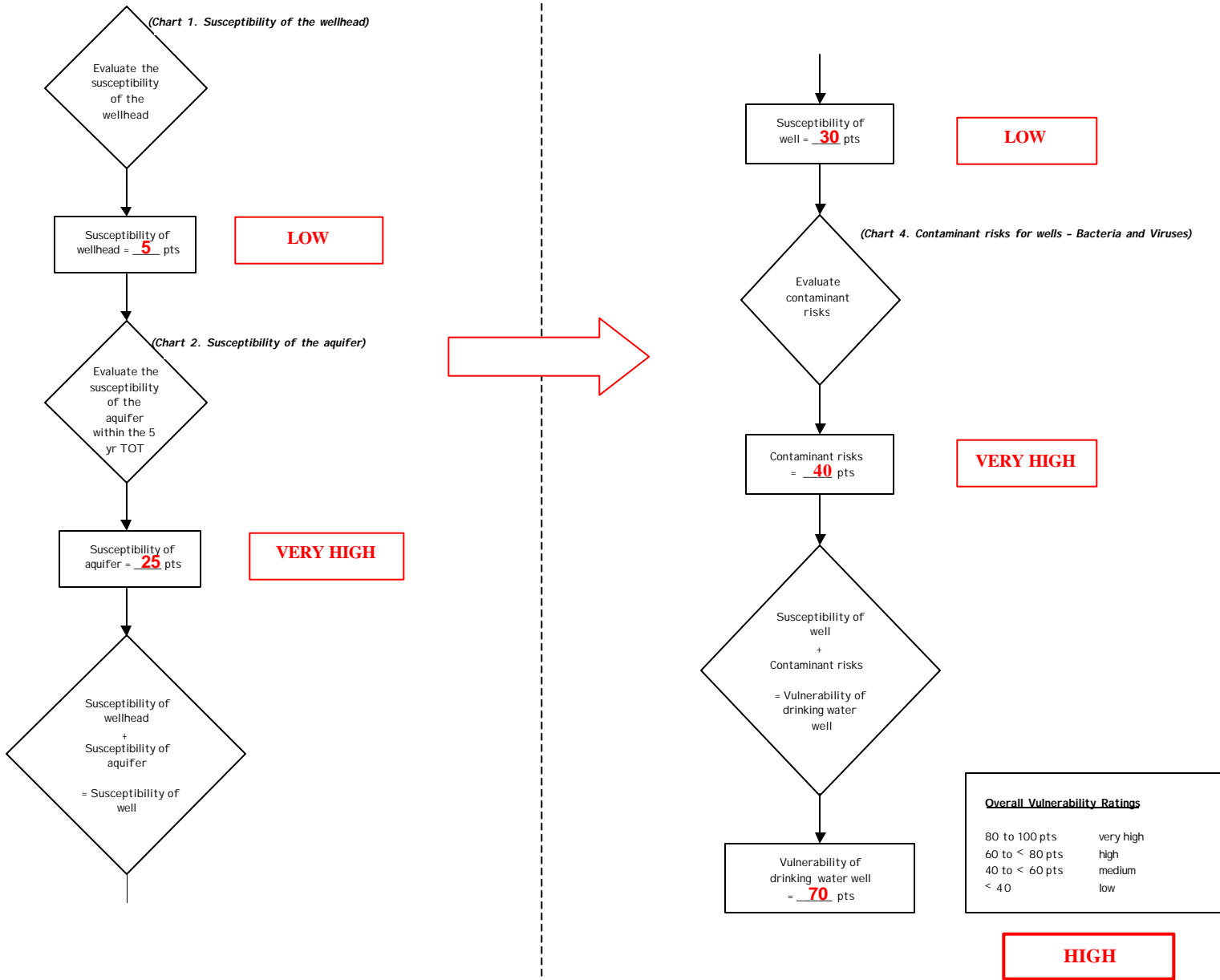


Chart 5. Contaminant risks for Pilgrims Baptist Church – Nitrates and Nitrites

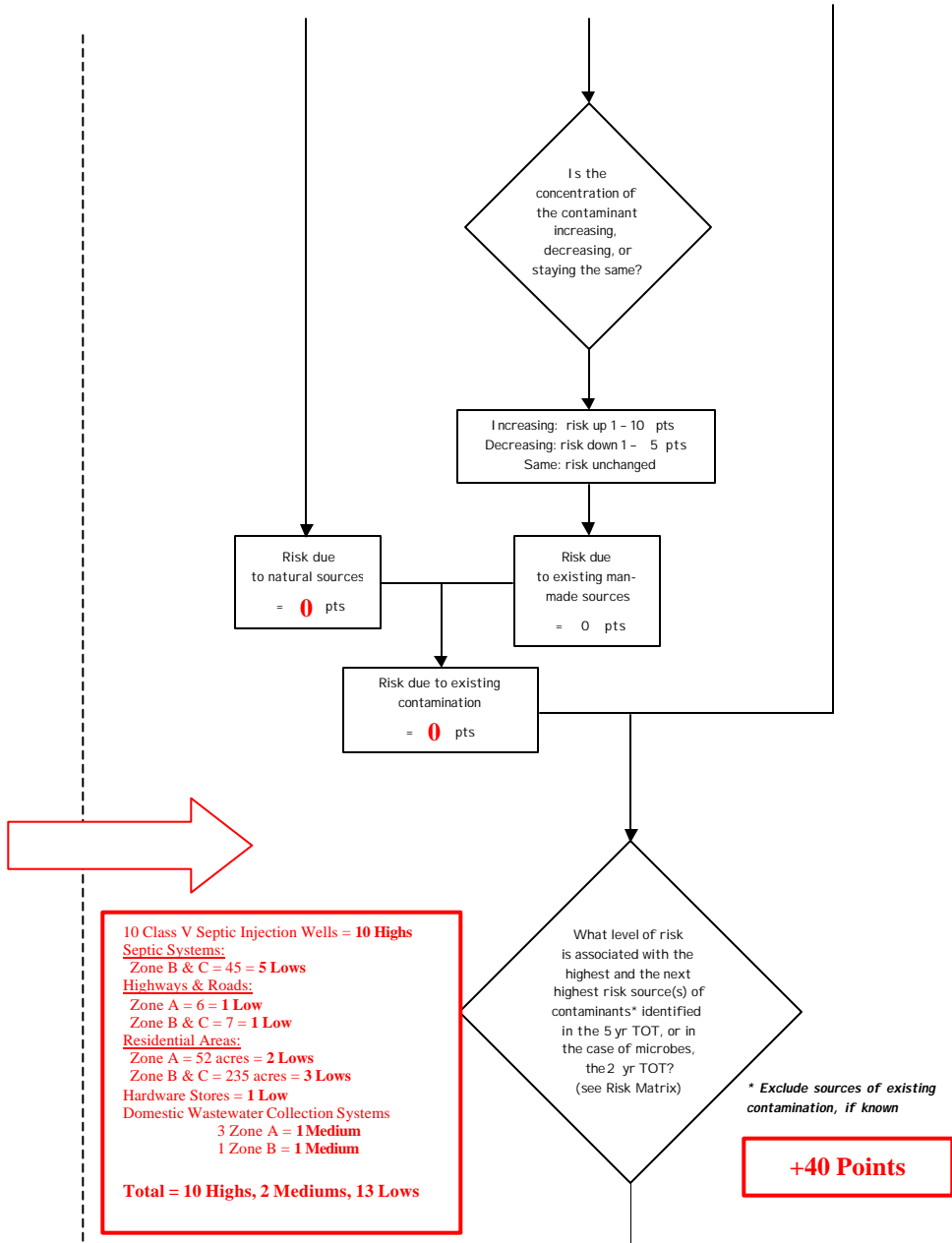
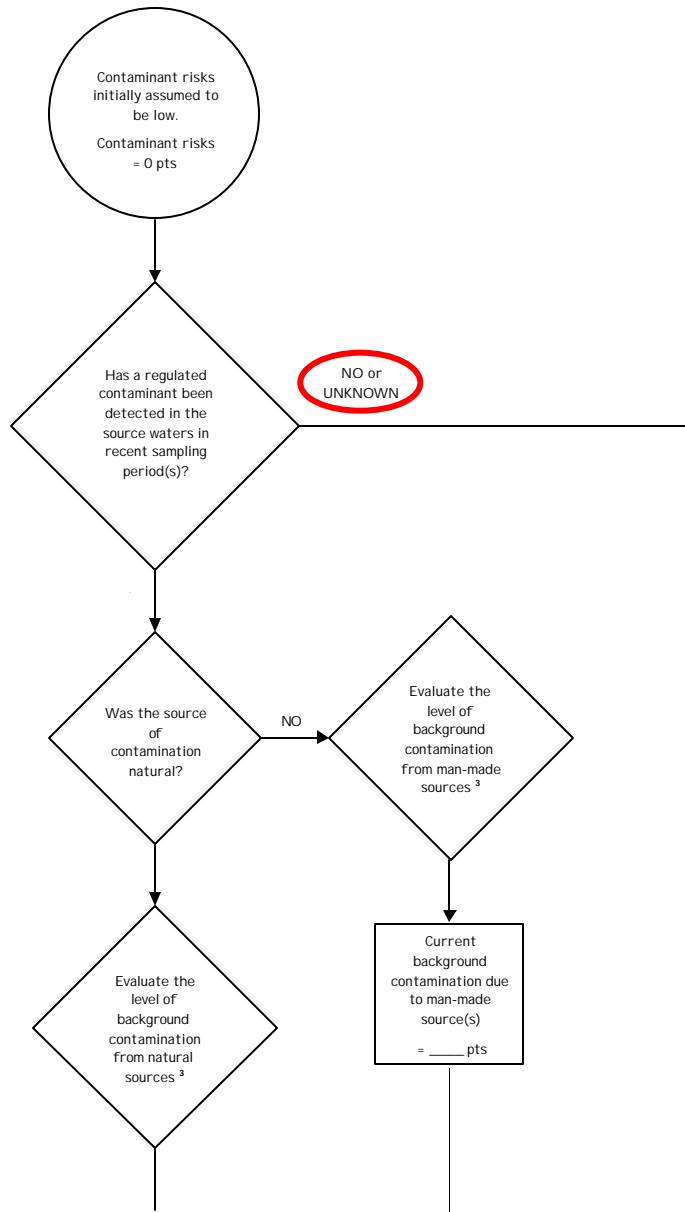


Chart 5. Contaminant risks for Pilgrims Baptist Church – Nitrates and Nitrites (Continued)

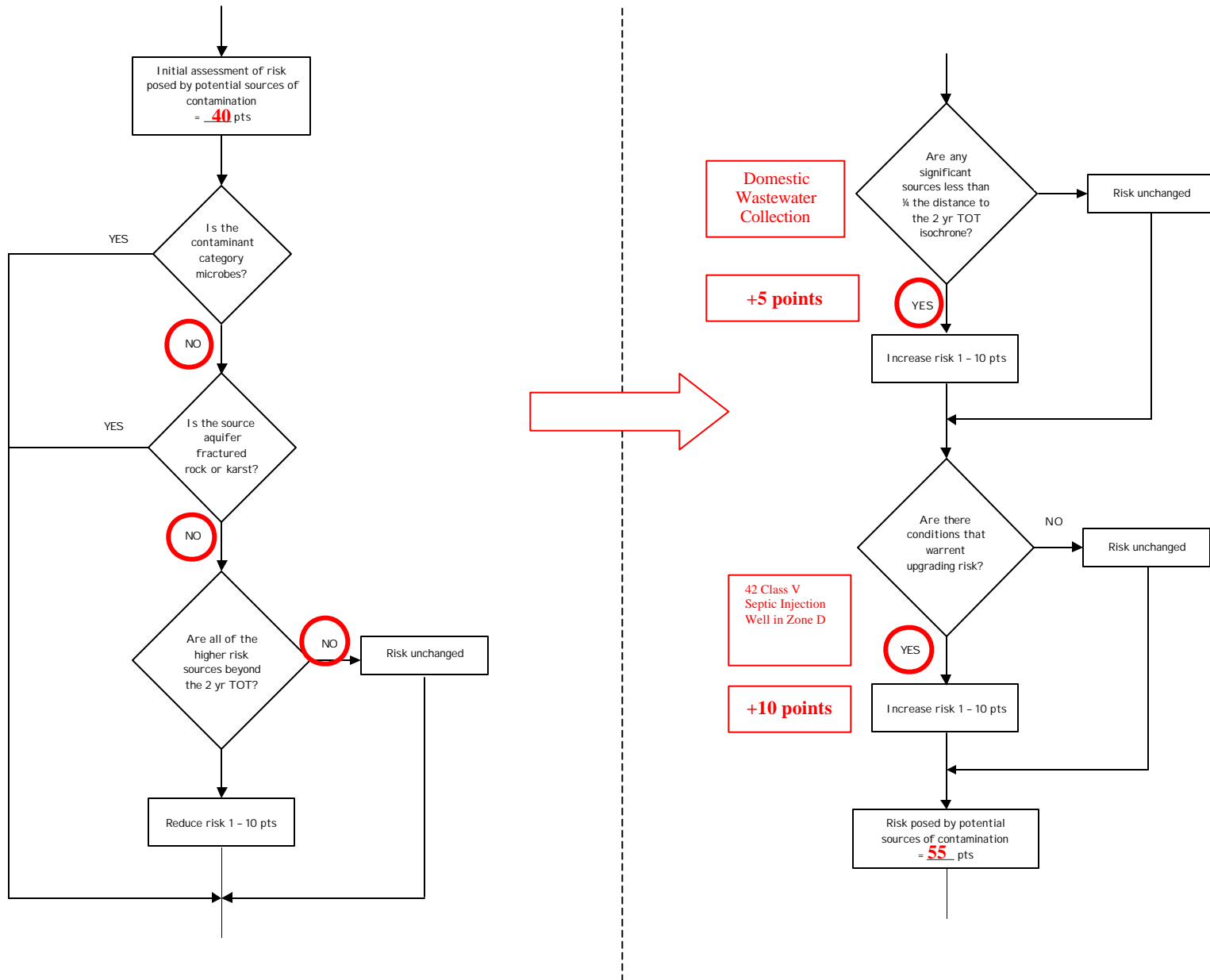


Chart 5. Contaminant risks for Pilgrims Baptist Church – Nitrates and Nitrites (Continued)

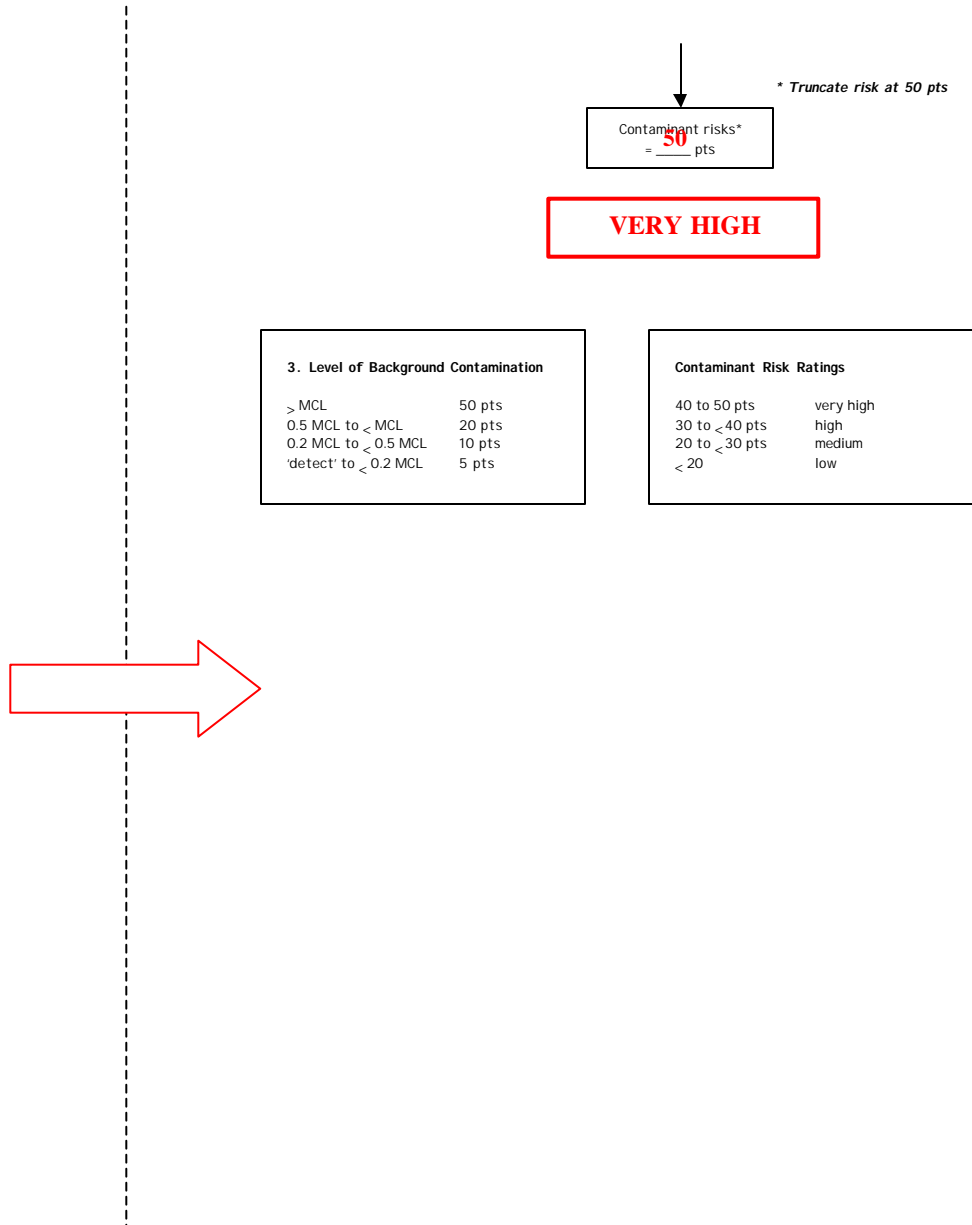
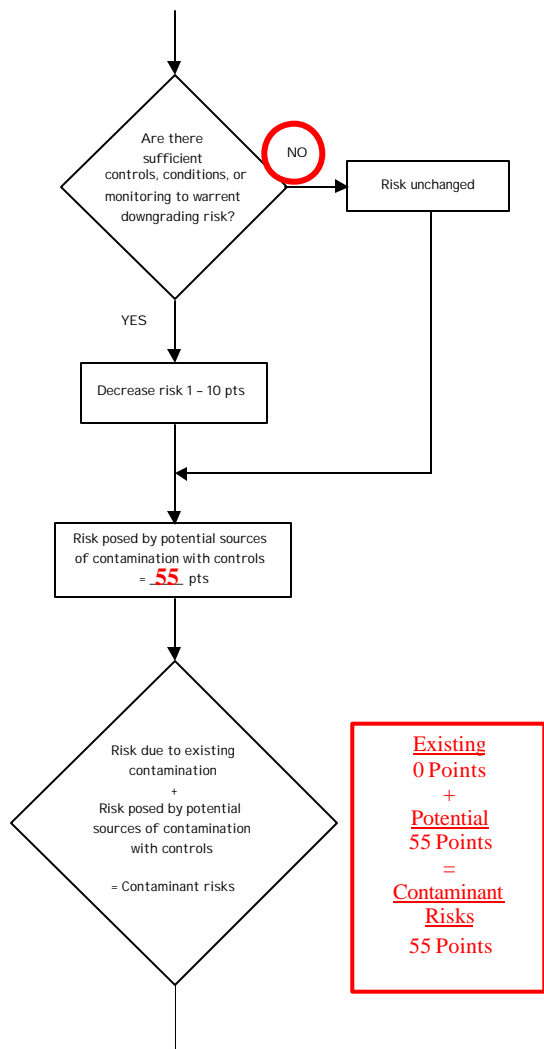


Table 2. Risk Matrix for Contaminant Sources for Pilgrims Baptist Church – Nitrates and Nitrites

Level of Risk Associated with the Highest Risk Sources

Class V Septic Injection, Septic System, highways & roads, Hardware Stores, Domestic Wastewater Collection Systems	LOW 10 pts	MEDIUM 20 pts	HIGH 30 pts	VERY HIGH 40 pts
Low	> 10 sources + 10 pts	> 10 sources + 5 pts	> 20 sources + 5 pts	---
Medium	---	> 2 sources + 5 pts	> 5 sources + 5 pts	> 10 sources + 5 pts
High	---	---	1 source + 10 pts	> 2 sources + 10 pts
Very High	---	---	---	1 source + 10 pts

Chart 6. Vulnerability analysis for Pilgrims Baptist Church – Nitrates and Nitrites

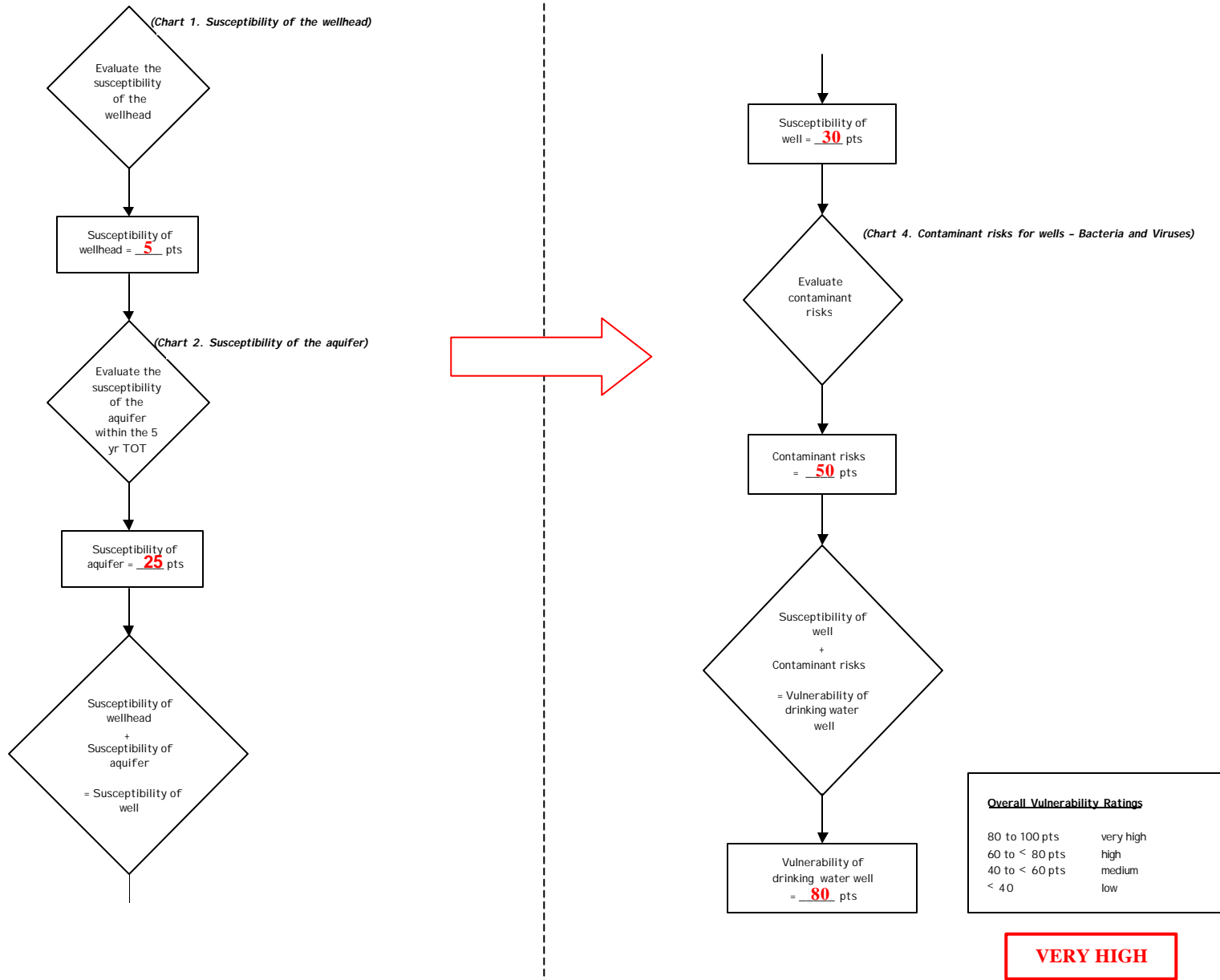


Chart 7. Contaminant risks for Pilgrims Baptist Church – Volatile Organic Chemicals

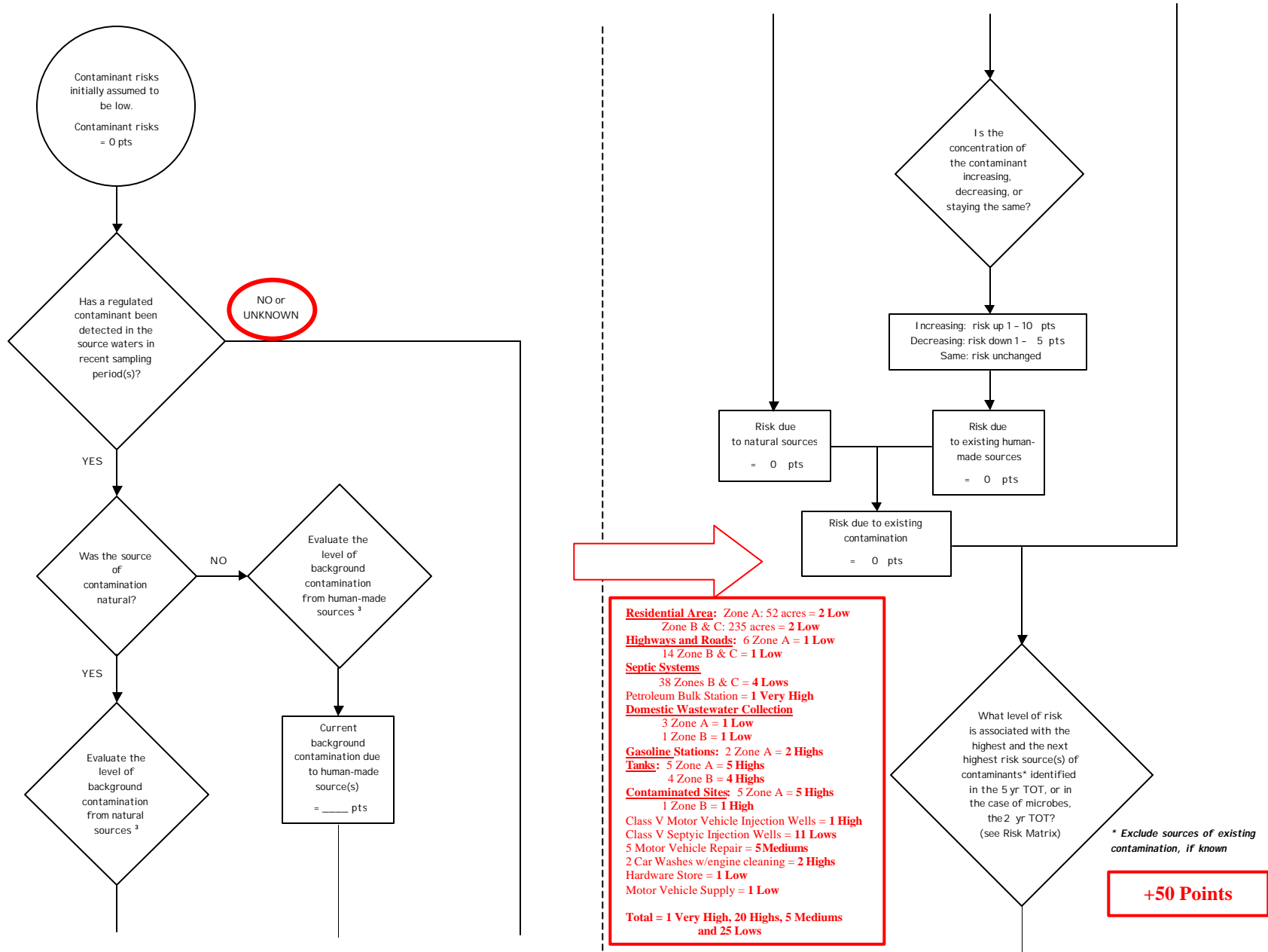


Chart 7. Contaminant risks for Pilgrims Baptist Church – Volatile Organic Chemicals

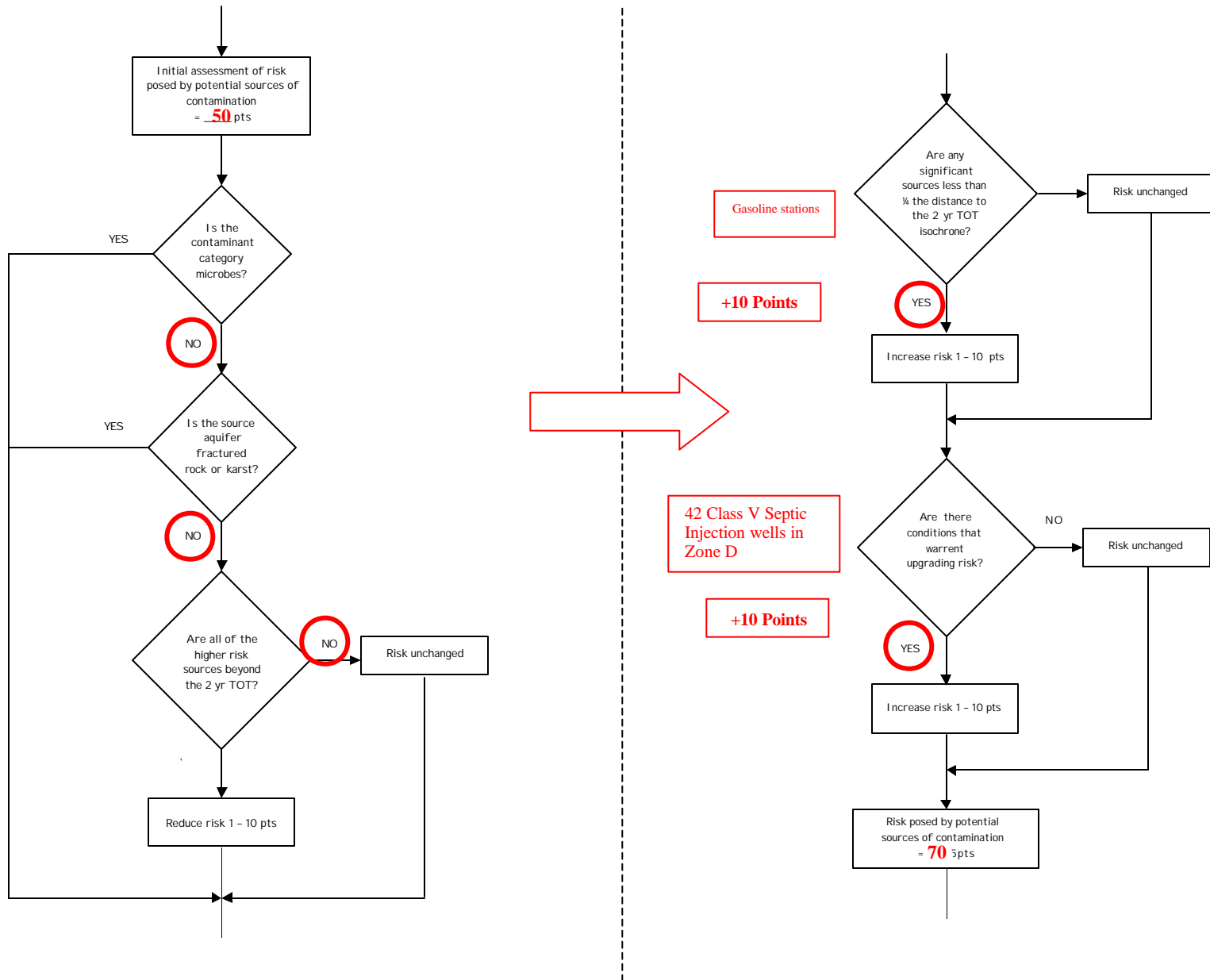


Chart 7. Contaminant risks for Pilgrims Baptist Church – Volatile Organic Chemicals (Continued)

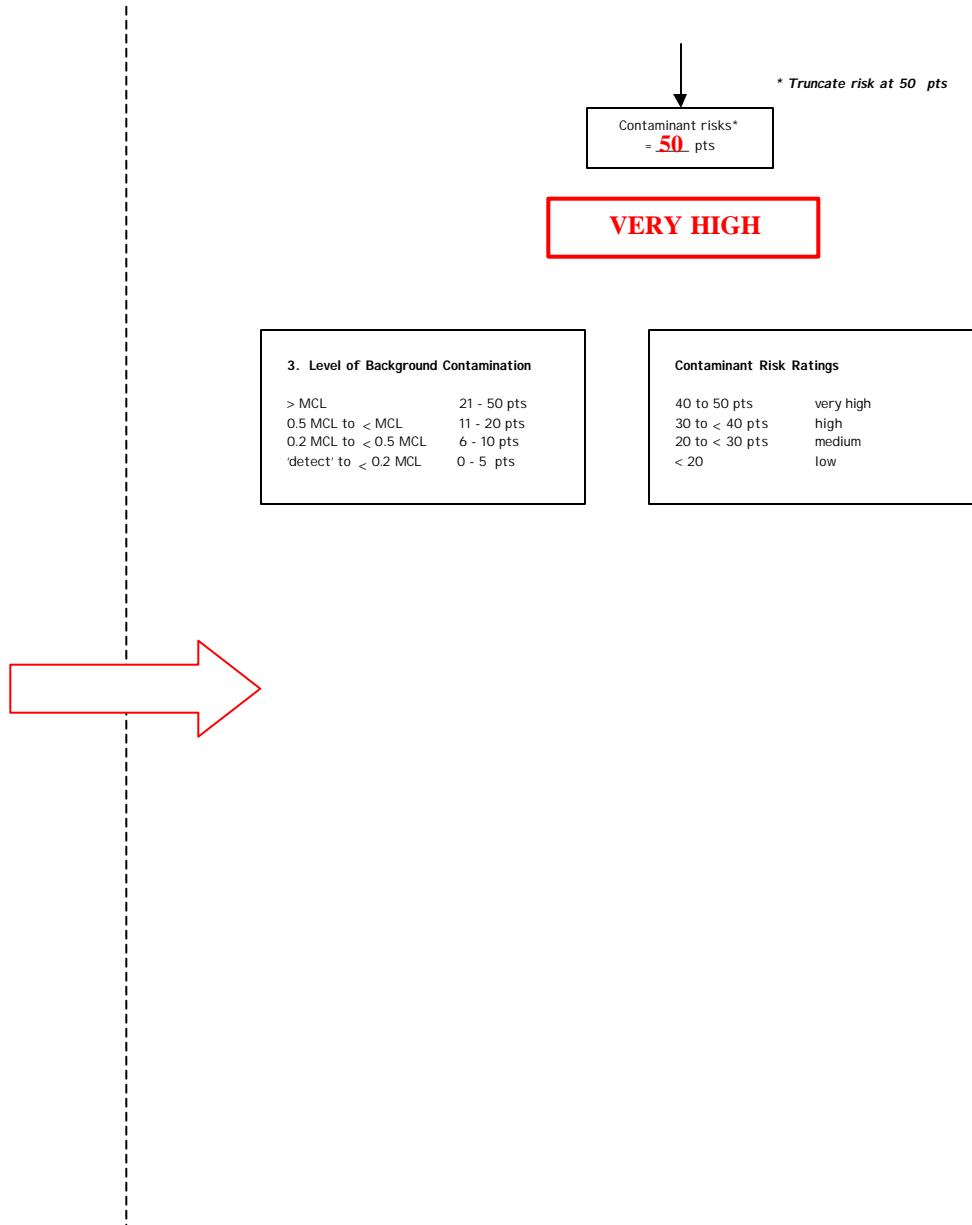
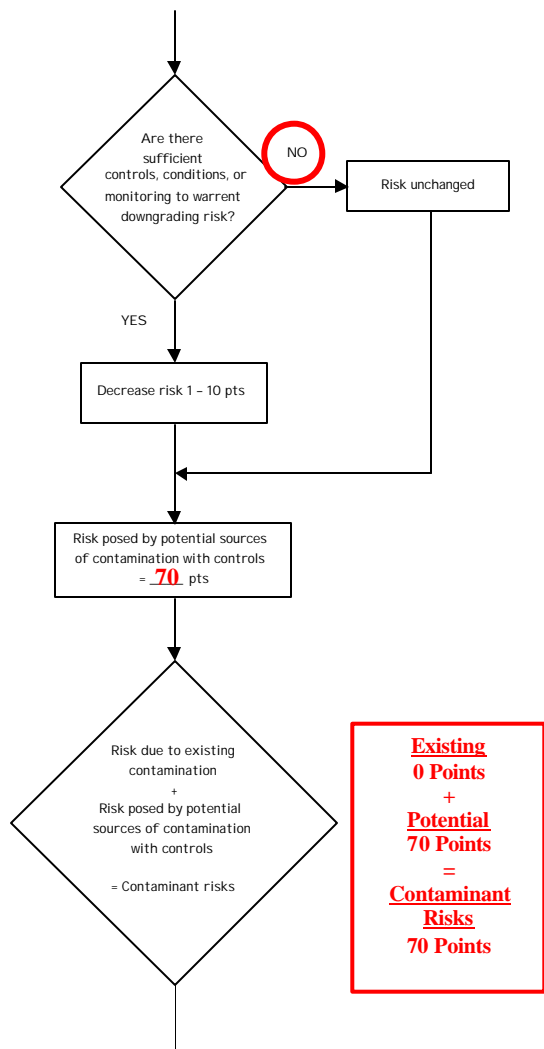


Table 3. Risk Matrix for Contaminant Sources for Pilgrims Baptist Church – Volatile Organic Chemicals

Level of Risk Associated with the Highest Risk Sources

Next Highest Risk Sources(s)	Plastic and synthetic fiber manufacturer, 23.5 acres of residential area	LOW 10 pts	MEDIUM 20 pts	HIGH 30 pts	VERY HIGH 40 pts
	Low	≥10 sources + 10 pts	≥10 sources + 5 pts	≥20 sources + 5 pts	---
	Medium	---	≥2 sources + 5 pts	≥5 sources + 5 pts	≥10 sources + 5 pts
	High	---	---	1 source + 10 pts	≥2 sources + 10 pts
	Very High	---	---	---	1 source + 10 pts

Chart 8. Vulnerability analysis for Pilgrims Baptist Church – Volatile Organic Chemicals

