

A Source Water Assessment (SWA) for

PWSID #220170 - Wasilla Creek Commons -Well #2 WL002

What is an SWA?

The Drinking Water Protection group of the Drinking Water Program is producing Source Water Assessments (SWAs) in compliance with the Safe Drinking Water Act (SDWA) Amendments of 1996. Each SWA includes:

- A delineation of the drinking water source area;
- Inventory of potential and existing sources of contamination;
- Risk ranking for the identified contaminants:
- Evaluation of the overall vulnerability to the PWS source.

What is a Protection Area?

The most probable area for contamination to reach the drinking water well is within the drinking water protection area (DWPA). The DWPA for a groundwater source is the area around the well (the area influenced by pumping) and also the area upgradient of the well, usually forming a parabola shape. Because releases of contaminants within the DWPA are most likely to impact the well, this area will serve as the focus for voluntary protection efforts.

The DWPAs established for wells by DEC are separated into two (2) zones, limited by the watershed. The following is a summary of the two (2) zones for wells and the estimated time-of-travel for each:

Zone	Definition
Α	Several months time-of-travel
В	Less than the 2 year time-of- travel

Natural Susceptibility

Susceptibility of a groundwater source is a measure of a water supply's potential to become contaminated based on information gathered on the wellhead and the aguifer.

Table 1: Public Water System Source Information						
PWS Name Wasilla Creek Commons						
PWSID Number	220170					
Federal Designation	Community water system (CWS)					
State Assigned ID	WL002					
Facility Name	WELL #2					
Source Type	Groundwater					
Total Depth of Well (ft bls*)	69					
Static Water Level (ft bls*)	17.5					
Aquifer Type	Unconfined					
Aquifer Formation	Gravel, sand					
Description and Cumulative	N/A					
Thickness of Barrier (ft)						
Date Well Completed	8/28/2007					
*"ft bls" = feet below land surface						

Executive Summary

The public water system (PWS) for WASILLA CREEK COMMONS is a Community water system (CWS) consisting of two (2) active wells at the time of this report, and is located in Wasilla, Alaska. This report is an assessment of well WL002 (WELL #2). An assessment of the susceptibility of the wellhead and aquifer to contamination, and the vulnerability of the well to potential and existing contamination were evaluated as of June, 2013. The wellhead for WL002 received a susceptibility rating of *Low* and the aquifer received a susceptibility rating of *High*. Combining these two ratings produces a **Low** rating for the natural susceptibility. Identified potential and existing sources of contamination for WASILLA CREEK COMMONS WL002 include construction trade areas and materials, Class V injection well large-capacity septic systems, a gravel quarry, residential areas, single-family septic systems, other public and private water wells, paved roads, and gravel/dirt roads. These are considered sources one or more of the following six (6) contaminant risk categories: 1) bacteria and viruses; 2) nitrates and/or nitrites; 3) volatile organic chemicals (VOCs); 4) heavy metals, cyanide, and other inorganic chemicals (inorganic chemicals); 5) synthetic organic chemicals (SOCs); and 6) other organic chemicals (OOCs).

Combining the natural susceptibility with the six (6) contaminant risk categories, WASILLA CREEK COMMONS WL002 received an overall vulnerability rating of *High* for bacteria and viruses; *High* for nitrates and/or nitrites; *Medium* for VOCs; *Low* for inorganic chemicals; and a *Low* for SOCs and *Low* for OOCs.

Introduction

Source Water Assessments (SWAs) are intended to provide PWS operators, owners, communities, and local governments with the best available information that may be used to protect the quality of their drinking water. The SWA for the WASILLA CREEK COMMONS WL002 is a tool to be used as the foundation or "stepping stone" to comprehensive management and protection of its groundwater resource. Protecting the quality of your drinking water is a sensible investment.

Drinking Water Protection Area

For groundwater sources, a combination of a numerical flow model and natural factors such as drainage divides, subsurface barriers, and manmade structures are used to determine the size and shape of the Drinking Water Protection Area (DWPA). The orientation of the DWPA is typically drawn using a groundwater surface, or a land surface, elevation map. Because of uncertainties and changing site conditions, a factor of safety is added in calculating the size of the DWPA. (See Map1 of the Appendices)

Natural Susceptibility (Wellhead and Aquifer)

The susceptibility of a wellhead to the introduction of contaminants to the drinking water is determined by, but not limited to, the following risk factors: presence of a sanitary seal, protection from flooding, drainage, and presence of adequate grouting.

The wellhead for the WASILLA CREEK COMMONS WL002 received a **Low** susceptibility rating. The most recent sanitary survey (completed August 15, 2012) indicates that the well is capped with a sanitary seal, is not in a floodplain, the land surface is sloped to drain away from the wellhead, and that a subsurface grout seal was installed to the required depth. A sanitary seal prevents potential contaminants from entering the well while sloping of the land surface and grouting help to prevent potential contaminants from traveling down the outside of the well casing, or through casing seams/cracks to the inside of the well casing, and into the well and/or aquifer.

The susceptibility of an aquifer to the introduction of contaminants is determined by, but not limited to, the following risk factors: whether the aquifer is confined or unconfined, whether the well is completed in unconsolidated or fractured bedrock, whether other nearby wells and bore holes are penetrating the aquifer and if applicable the characteristics of the confining layer(s).

The WASILLA CREEK COMMONS WL002 draws water from an unconfined aquifer completed in varying proportions of sand and gravel. It received a *High* susceptibility rating primarily because of other water wells located within the DWPA. A confined aquifer is generally more protected than an unconfined aquifer from the infiltration of surface water potentially carrying contaminants migrating downward from the surface to the aquifer. However, other wells that penetrate the confining layers create a potential pathway for surface water and contaminants to the aquifer.

The Natural Susceptibility is a combination of the well and aquifer susceptibility to contamination, and is *Low*. Table 2 summarizes the susceptibility ratings for the WASILLA CREEK COMMONS WL002.

Table 2: Susceptibility	Ratings
Susceptibility of the wellhead	Low
+	
Susceptibility of the aquifer	High
=	
Natural susceptibility	Low

Inventory of Potential and Existing Sources Contamination

The Drinking Water Protection (DWP) group has completed an inventory of potential and existing sources of contamination within the DWPA for the WASILLA CREEK COMMONS WL002. This inventory was completed through a search of agency records and other publicly available information. Potential sources of contamination include a wide range of categories and types. Potential drinking water contaminants are found within agricultural, residential, commercial, and industrial areas, but can also occur within areas that have little or no development. The identified potential sources of contamination are summarized in Table 3 and are portrayed in Map 2 of the Appendices.

Table 3: Contaminant Source Inventory

Contaminant Source Type	Contaminant Source ID	Zone	Comments
Highways and roads, paved (cement or asphalt)	X20-01-20	А	Assumed less than 20
Highways and roads, dirt/gravel	X24-01-20	Α	Assumed less than 20
Construction trade areas and materials	C09-01	В	Construction Area
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10-01	В	Class V Septic System - Injection Wells
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10-02	В	Class V Septic System - Injection Wells
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10-03	В	Class V Septic System - Injection Wells
Quarries	E10-01	В	Gravel Quarry
Residential Areas	R01-01	В	Assumed less than 150 acres
Septic systems (serves one single-family home)	R02-01-30	В	Assumed less than 30 septic systems
Water supply wells	W09-01	В	Domestic wells identified by Water Rights and Google Street View
Highways and roads, paved (cement or asphalt)	X20-21-70	В	Assumed less than 50

Contaminant Risks

Inventoried contaminant sources are sorted by the Drinking Water Protection (DWP) group according to the six (6) major categories of contaminants regulated for drinking water: 1) bacteria and viruses; 2) nitrates and/or nitrites; 3) volatile organic chemicals (VOCs); 4) heavy metals, cyanide, and other inorganic chemicals (inorganic chemicals); 5) synthetic organic chemicals (SOCs); and 6) other organic chemicals (OOCs). The contaminant sources are then given a ranking (within each category) according to the density of sources within the DWPA, the PWS sampling history, as well as the degree of risk posed to human health based on the volume, toxicity, persistence, and the mobility of the contaminants involved. The contaminant risk rankings are summarized in Table 4.

Table 4: Contaminant Risk Rankings

Contaminant Source Type	Contaminant Source ID	Zone	Bacteria & Viruses	Nitrates and/or Nitrites	VOCs	Inorganic Chemicals*	SOCs	OOCs
Highways and roads, paved (cement or asphalt)	X20-01-20	А	Low	Low	Low	Low	N/A	Low
Highways and roads, dirt/gravel	X24-01-20	Α	Low	Low	Low	Low	N/A	Low
Construction trade areas and materials	C09-01	В	N/A	N/A	Low	Low	N/A	Low
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10-01	В	High	High	Low	Low	Low	Low
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10-02	В	High	High	Low	Low	Low	Low
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10-03	В	High	High	Low	Low	Low	Low
Quarries	E10-01	В	N/A	Low	Low	N/A	N/A	Low
Residential Areas	R01-01	В	Low	Low	Low	Low	Low	Low
Septic systems (serves one single-family home)	R02-01-30	В	Low	Low	Low	Low	Low	Low
Highways and roads, paved (cement or asphalt)	X20-21-70	В	Low	Low	Low	Low	N/A	Low
Highways and roads, dirt/gravel	X24-21-70	В	Low	Low	Low	Low	N/A	Low
Contaminant Ca	Very High	Very High	Medium	Low	Low	Low		

^{*} Includes heavy metals, cyanide, and other inorganic chemicals.

The contaminant category risk ranking for Bacteria & Viruses is **Very High**. This ranking is driven primarily by several large-capacity septic systems, and the density of residential septic systems, roads, and residential areas located within the DWPA. A positive Total Coliform (which may include fecal coliform and *E. Coli*, but not a confirmation of the presence of either) has not been detected in recent years. Coliforms are naturally present in the environment, as well as feces; fecal coliforms and *E. Coli* only come from human and animal fecal waste. Total Coliforms is not a health threat in itself; it is used to indicate whether other potentially harmful bacteria may be present.

The contaminant category risk ranking for Nitrates and/or Nitrites is *Very High*. This ranking is driven primarily by several large-capacity septic systems, a gravel quarry, and the density of residential septic systems, roads, and residential areas located within the DWPA. Nitrates and/or nitrites have been detected in samples collected in recent years, but an increasing or decreasing trend is not apparent; the most recent sample collected August 2012, showed a total nitrate-nitrite concentration of 0.451 milligrams per liter (mg/L), which is 4.5% of the maximum contaminant level (MCL) of 10 mg/L for nitrate. Sources of nitrate and/or nitrite may include runoff from fertilizer use, leaking from septic tanks, sewage, and/or erosion from natural deposits. A relatively low concentration and absence of a clear trend implies that the source is natural, rather than anthropogenic. Potential health effects include serious illness and, if untreated, death for infants below the age of six months; symptoms include a shortness of breath and blue-baby syndrome.

The contaminant category risk ranking for VOCs is *Medium*. This ranking is driven primarily by a construction trade area and materials, several large-capacity septic systems, a gravel quarry, and the density of residential septic systems, roads, and residential areas located within the DWPA. VOCs have not been detected in samples collected in recent years. Sources of VOCs may be either natural or anthropogenic. Potential health effects are typically compounding long-term, and not acute.

The contaminant category risk ranking for Inorganic Chemicals is **Low**. This ranking is driven primarily by construction trade area and materials, several large-capacity septic systems, and the density of residential septic systems, roads, and residential areas located within the DWPA. Barium was detected at a concentration of 13 micrograms per liter (μ g/L) (.01% of the MCL of 2 mg/L) June 2011. Sources of barium may include discharge of drilling wastes; discharge from metal refineries; and erosion of natural deposits. A potential health effect from long-term exposure above the MCL may include an increase in blood pressure.

The contaminant category risk ranking for SOCs is **Low**. This ranking is driven primarily by several large-capacity septic systems, and the density of residential septic systems, and residential areas located within the DWPA. This PWS has received an SOC Monitoring Waiver for the compliance period 2011-2013.

The contaminant category risk ranking for OOCs is *Low*. This ranking is driven primarily by a construction trade area and materials, several large-capacity septic systems, a gravel quarry, and the density of residential septic systems, roads, and residential areas located within the DWPA. This PWS has received an SOC Monitoring Waiver for the compliance period 2011-2013.

Overall Vulnerability of the Drinking Water Source to Contamination

An overall vulnerability is determined by combining each of the contaminant category risk rankings with the natural susceptibility score:

Overall Vulnerability of the Drinking Water Source to Contamination = Natural Susceptibility + Contaminant Risks

^{**} Scores based on additional factors, such as sampling history, and number/density of sources.

Table 5 summarizes the overall vulnerability ratings for each of the six (6) contaminant categories.

Category	Rating
Bacteria and Viruses	High
Nitrates and/or Nitrites	High
Volatile Organic Chemicals	Medium
Heavy Metals, Cyanide, and Other Inorganic Chemicals	Low
Synthetic Organic Chemicals	Low
Other Organic Chemicals	Low

Using the Source Water Assessment

This assessment of contaminant risks and source vulnerability 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 WASILLA CREEK COMMONS PWS to protect public health. Communities can use the Source Water Assessment (SWA) to create a drinking water protection plan to manage the identified potential and existing sources of regulated drinking water contaminants and to prevent or minimize new contaminant threats in the drinking water protection area.

The WASILLA CREEK COMMONS PWS can use a number of different drinking water protection methods to limit or prevent contamination of its drinking water source.

- Non-Regulatory Options include:
 - Public education about where drinking water comes from and the effects of contaminants is probably the most effective and least costly method of protection;
 - Household hazardous waste collection household hazardous wastes are usually generated in small amounts but can have a big impact on the environment;
 - The source water assessment report is a tool that can be used to prioritize protection strategies identified in a drinking water protection plan;
 - Taking proactive measures towards proper waste storage and disposal can help eliminate the need to find an alternative drinking water source by preventing source water contamination;
 - Conservation easements easements can assist in protecting the area by limiting development;
 - Make a written plan on what you will do if an accidental spill happens that could contaminate your source of drinking water; and
 - o Local drinking water protection plan (an example or template is available from DEC).
- Regulatory Options include:
 - Source protection regulations prohibiting the presence or use of all or specific chemicals within the drinking water protection area;
 - Zoning ordinances to control development within the different protection areas around the source;
 - Subdivision ordinance; and
 - Operating standards for industrial and other activities within the different protection areas around the source.

Source Water Assessments can be updated to reflect any changes in the vulnerability and/or susceptibility of the WASILLA CREEK COMMONS WL002. The data that is used to generate the SWA is updated on an on-going basis as identified in the field or if changes are identified and brought to the attention of the Drinking Water Program.

Where to go from here?

The SWA is a comprehensive evaluation of the potential risk of contamination to the PWS and the source(s) of drinking water used by the system. Identifying potential sources of contamination and the vulnerability of the PWS is an important first step in protecting the drinking water source from contamination. However, in order to prevent contamination from occurring, action must be taken by the PWS owner and/or operator. The SWA can be used by the PWS to educate the local community and to prioritize community-driven protection strategies. Inviting community members, council members, and local government officials to help develop a drinking water protection plan is one essential component towards successful drinking water protection efforts. For questions regarding, or assistance to begin, the process of developing a drinking water protection plan, please contact the Drinking Water Protection group toll-free at #1-866-956-7656 (within Alaska only), or direct at #907-269-7656.

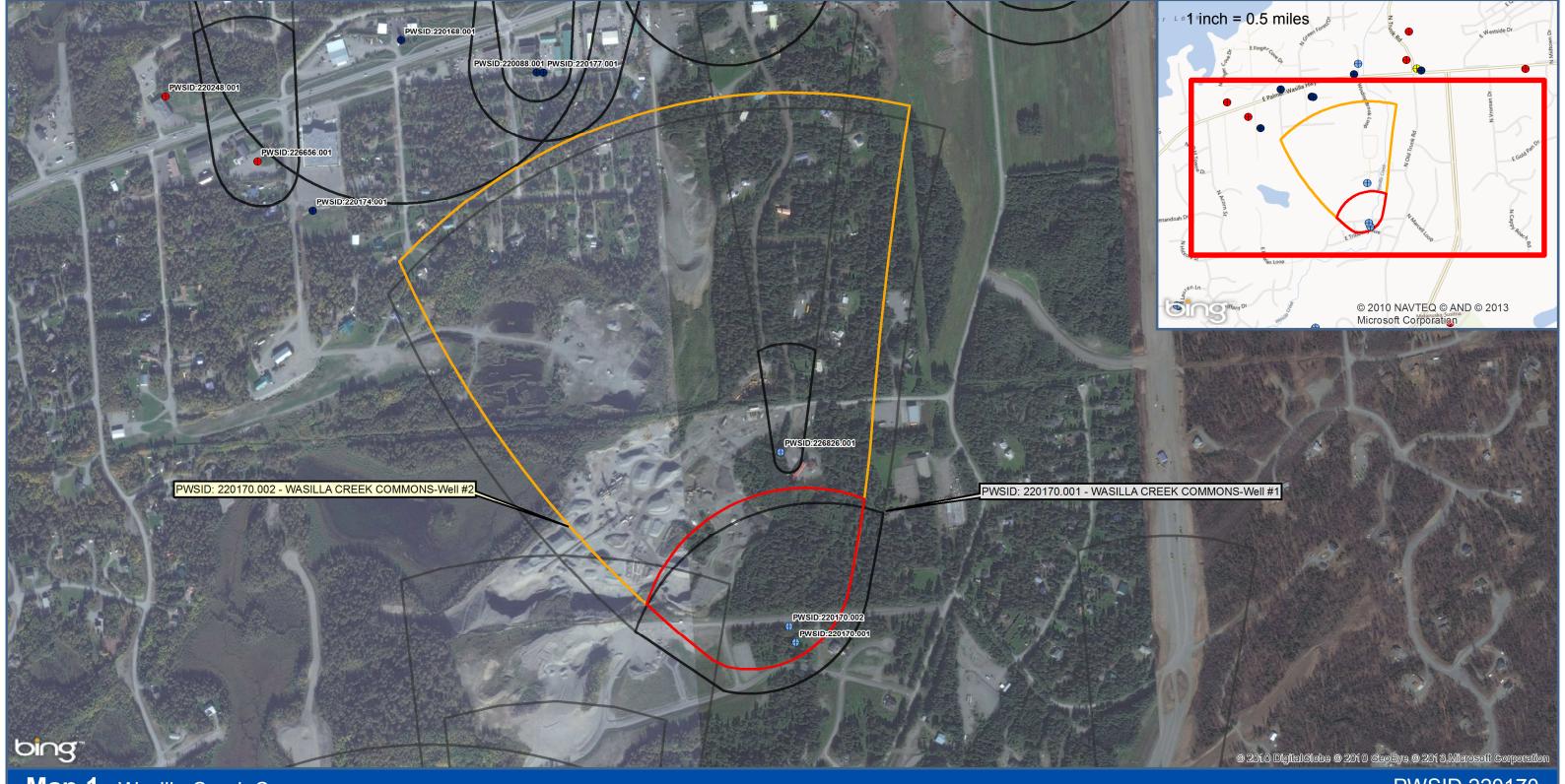
Other Resources

The Drinking Water Protection group, the Environmental Protection Agency (EPA), and local organizations are available to help you build on this SWA report as you continue to improve drinking water protection in your community.

- DEC, Drinking Water Protection http://dec.alaska.gov/eh/dw/DWP/DWP main.html
- EPA, Drinking Water Protection http://cfpub.epa.gov/safewater/sourcewater/index.cfm
- Groundwater Foundation http://www.groundwater.org
- Groundwater Protection Council- http://www.gwpc.org
- National Ground Water Association: http://www.ngwa.org/Pages/default.aspx

Appendices

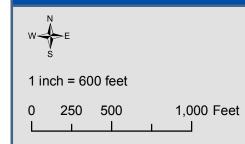
- WASILLA CREEK COMMONS WL002 Drinking Water Protection Area Location Map (Map 1);
- WASILLA CREEK COMMONS WL002 Drinking Water Protection Area with Potential and Existing Contaminant Sources (Map 2);
- Example Best Management Strategies for Potential Contaminants Identified within a Drinking Water Protection Area.



Identified Drinking Water Protection Areas (DWPAs)

Map 1 - Wasilla Creek Commons Well 2

PWSID 220170 WL002



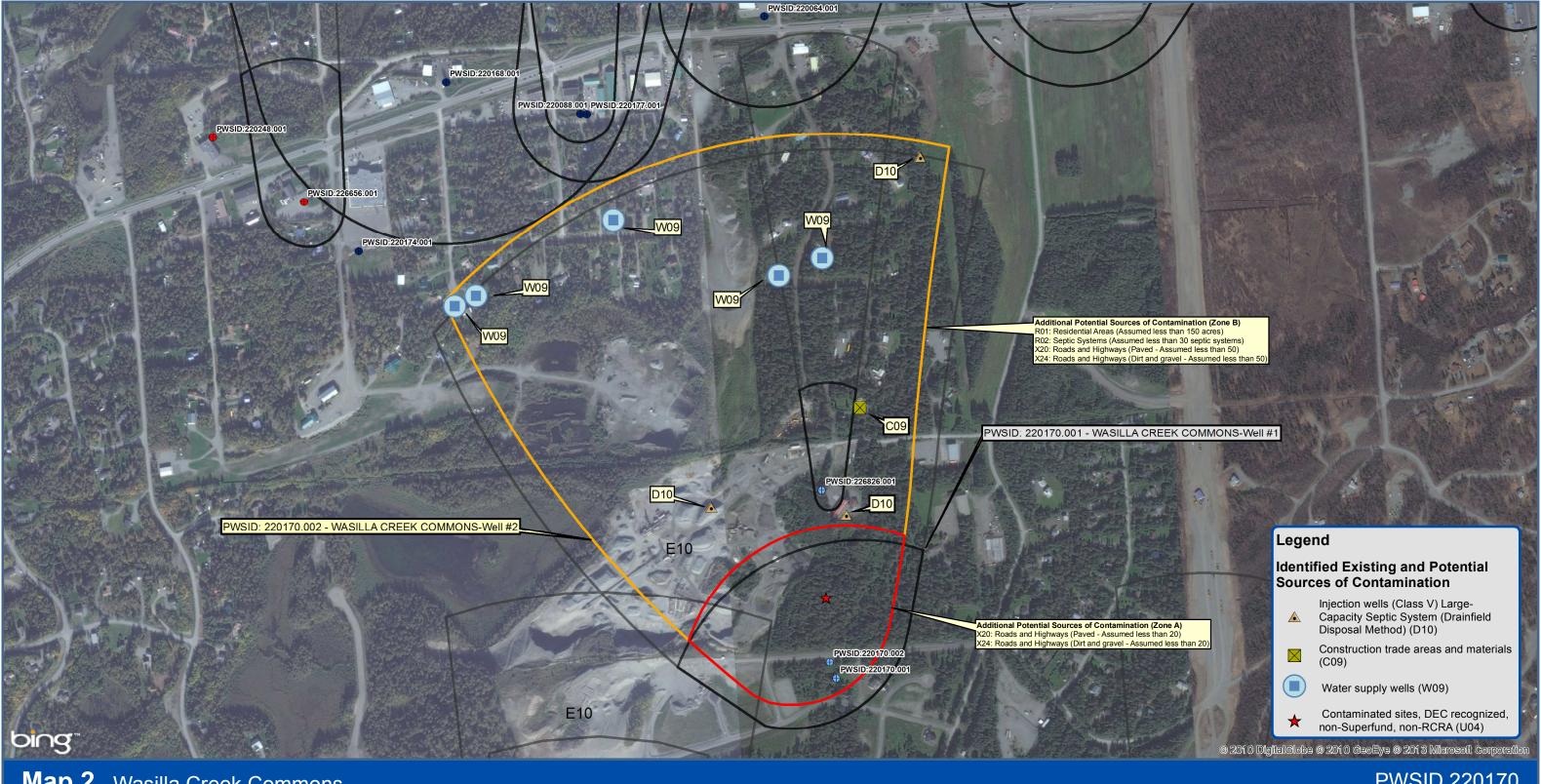
<u>Legend</u>

- **DWP-Regulated Water System Sources**
- ⊕ Community Water System (Formerly Class A)
- NonTransient/NonCommunity (Formerly Class A)
 Zone B (GW-2 Yr Time of Travel or SW-1 mile buffer) selection
- NonCommunity (Formerly Class B)
- NonPublic (Class C-State Regulated)

Other Relevant DWPAs

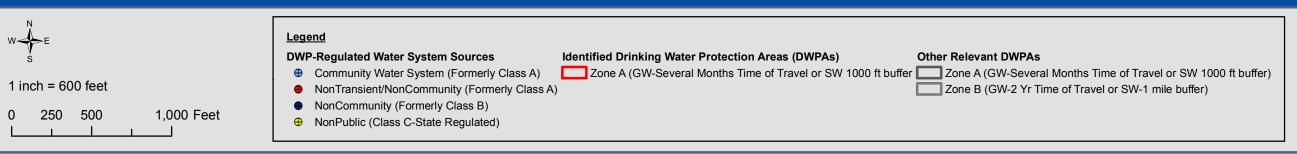
- Zone A (GW-Several Months Time of Travel or SW 1000 ft buffer Zone A (GW-Several Months Time of Travel or SW 1000 ft buffer)
 - Zone B (GW-2 Yr Time of Travel or SW-1 mile buffer)





Map 2 - Wasilla Creek Commons Well 2

PWSID 220170 *WL002*





Contaminant Source Inventory and Risk Ranking for

WASILLA CREEK COMMONS

WELL 2

AK2220170 WL002

Contaminant Source	CSI D	CSID Tag	Zone	Мар	Risk Rank	Comments
Bacteria and Viruses						
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	В	2	High	Class V Septic System - Injection Wells
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	В	2	High	Class V Septic System - Injection Wells
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	В	2	High	Class V Septic System - Injection Wells
Residential Areas	R01	R01-01	В	2	Low	Assumed less than 150 acres
Septic systems (serves one single-family home)	R02	R02-01-30	В	2	Low	Assumed less than 30 septic systems
Highways and roads, paved (cement or asphalt)	X20	X20-01-20	Α	2	Low	Assumed less than 20
Highways and roads, paved (cement or asphalt)	X20	X20-21-70	В	2	Low	Assumed less than 50
Highways and roads, dirt/gravel	X24	X24-01-20	Α	2	Low	Assumed less than 20
Highways and roads, dirt/gravel	X24	X24-21-70	В	2	Low	Assumed less than 50
Heavy Metals, Cyanide, and Other Inorg	ganic	Chemic	cals			
Construction trade areas and materials	C09	C09-01	В	2	Low	Construction Area
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	В	2	Low	Class V Septic System - Injection Wells
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	В	2	Low	Class V Septic System - Injection Wells
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	В	2	Low	Class V Septic System - Injection Wells
Residential Areas	R01	R01-01	В	2	Low	Assumed less than 150 acres
Septic systems (serves one single-family home)	R02	R02-01-30	В	2	Low	Assumed less than 30 septic systems
Highways and roads, paved (cement or asphalt)	X20	X20-01-20	Α	2	Low	Assumed less than 20
Highways and roads, paved (cement or asphalt)	X20	X20-21-70	В	2	Low	Assumed less than 50
Highways and roads, dirt/gravel	X24	X24-01-20	Α	2	Low	Assumed less than 20
Highways and roads, dirt/gravel	X24	X24-21-70	В	2	Low	Assumed less than 50

Contaminant Source Inventory and Risk Ranking for

WASILLA CREEK COMMONS

WELL 2

AK2220170 WL002

						1123
Nitrates/Nitrites						
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	В	2	High	Class V Septic System - Injection Wells
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	В	2	High	Class V Septic System - Injection Wells
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	В	2	High	Class V Septic System - Injection Wells
Quarries	E10	E10-01	В	2	Low	Gravel Quarry
Residential Areas	R01	R01-01	В	2	Low	Assumed less than 150 acres
Septic systems (serves one single-family home)	R02	R02-01-30	В	2	Low	Assumed less than 30 septic systems
Highways and roads, paved (cement or asphalt)	X20	X20-01-20	Α	2	Low	Assumed less than 20
Highways and roads, paved (cement or asphalt)	X20	X20-21-70	В	2	Low	Assumed less than 50
Highways and roads, dirt/gravel	X24	X24-01-20	Α	2	Low	Assumed less than 20
Highways and roads, dirt/gravel	X24	X24-21-70	В	2	Low	Assumed less than 50
Other Organic Chemicals						
Construction trade areas and materials	C09	C09-01	В	2	Low	Construction Area
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	В	2	Low	Class V Septic System - Injection Wells
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	В	2	Low	Class V Septic System - Injection Wells
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	В	2	Low	Class V Septic System - Injection Wells
Quarries	E10	E10-01	В	2	Low	Gravel Quarry
Residential Areas	R01	R01-01	В	2	Low	Assumed less than 150 acres
Septic systems (serves one single-family home)	R02	R02-01-30	В	2	Low	Assumed less than 30 septic systems
Highways and roads, paved (cement or asphalt)	X20	X20-01-20	Α	2	Low	Assumed less than 20
Highways and roads, paved (cement or asphalt)	X20	X20-21-70	В	2	Low	Assumed less than 50
Highways and roads, dirt/gravel	X24	X24-01-20	Α	2	Low	Assumed less than 20
Highways and roads, dirt/gravel	X24	X24-21-70	В	2	Low	Assumed less than 50

Contaminant Source Inventory and Risk Ranking for

WASILLA CREEK COMMONS

WELL 2

AK2220170 WL002

Synthetic Organic Chemicals						
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	В	2	Low	Class V Septic System - Injection Wells
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	В	2	Low	Class V Septic System - Injection Wells
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	В	2	Low	Class V Septic System - Injection Wells
Residential Areas	R01	R01-01	В	2	Low	Assumed less than 150 acres
Septic systems (serves one single-family home)	R02	R02-01-30	В	2	Low	Assumed less than 30 septic systems
Volatile Organic Chemicals						
Construction trade areas and materials	C09	C09-01	В	2	Low	Construction Area
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-01	В	2	Low	Class V Septic System - Injection Wells
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-02	В	2	Low	Class V Septic System - Injection Wells
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-03	В	2	Low	Class V Septic System - Injection Wells
Quarries	E10	E10-01	В	2	Low	Gravel Quarry
Residential Areas	R01	R01-01	В	2	Low	Assumed less than 150 acres
Septic systems (serves one single-family home)	R02	R02-01-30	В	2	Low	Assumed less than 30 septic systems
Highways and roads, paved (cement or asphalt)	X20	X20-01-20	Α	2	Low	Assumed less than 20
Highways and roads, paved (cement or asphalt)	X20	X20-21-70	В	2	Low	Assumed less than 50
Highways and roads, dirt/gravel	X24	X24-01-20	Α	2	Low	Assumed less than 20
Highways and roads, dirt/gravel	X24	X24-21-70	В	2	Low	Assumed less than 50