

Environmental Assessment Program

Project Completion Memo

September 16, 2015

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SUBJECT: Assessment of PCBs in Spokane Valley Groundwater

Tracker Code: 15-007

Background

The Spokane River Regional Toxics Task Force (SRRTTF) is assessing the loading of PCBs to the Spokane River, with the ultimate goal of developing a management plan to control targeted PCB sources. A significant amount of PCB data has been collected over the years, which point to diffuse sources throughout the Spokane River Watershed. More than half of the PCB loading to the river, however, is unaccounted for. The SRRTTF Technical Consultant has identified groundwater contributions of dissolved PCBs as an important data gap. Therefore, a better understanding of the effect of groundwater on PCB loadings to the river is needed.

The Washington State Department of Ecology (Ecology) representative on the SRRTTF requested that Ecology's Environmental Assessment Program (EAP) perform preliminary research to determine if previous groundwater data and information regarding PCBs are available in areas that could inform analysis of loading to the river. The SRRTTF has identified FY2016 for environmental sampling and analysis to possibly include groundwater data collection.

Methods

The SRRTTF's technical consultant identified data gaps, developed a monitoring strategy, and wrote a draft QAPP for monitoring activities. The geographic scope of these activities includes the Spokane River from the outlet of Lake Coeur d'Alene in Idaho (RM 111) down to the Nine-Mile dam (RM 58) on Lake Spokane/Long Lake.

EAP's contribution to the project has been to identify and compile existing groundwater information and data, not yet evaluated, that could assist with the PCB loading analysis. Within the geographical area of the project, EAP focused on gaining reaches of the Spokane River that correspond to increased PCB loading.

Tasks focused on areas identified by the technical consultant as needing further data or information. The following work was completed for each of the identified tasks.

1. Identify status of Toxics Cleanup Program (TCP) sites with PCBs that could be contributing to groundwater

Ecology databases were searched for sites in Spokane that could be contributing PCB contamination to groundwater in the area of the Spokane River. These databases included: Ecology's Confirmed and Suspected Contaminated Sites List (CSCSL) within the Integrated Site Information System (ISIS) and the Environmental Information Management System (EIM).

Thirty-one cleanup sites were identified. The majority of the sites are located between Barker Rd. (USGS Gauge #12420500) and below Greene St. (USGS Gauge #12422000). (Figures 1 and 2, Appendix A)

Soils at 27 of the sites were sampled and analyzed for PCBs using method SW8082. Of these, 23 had confirmed releases. Groundwater was sampled at 10 of the sites. Five sites had confirmed releases of PCB to groundwater, as determined by analytical method SW8082.

Of the 23 sites with confirmed PCB releases to soils, 13 have undergone cleanups and received No Further Action (NFA) designation. Contaminated soils were removed at 12 of the sites. On-site containment was used at one site. Of the 10 remaining sites with confirmed releases of PCB, 6 are undergoing cleanups, 2 are in performance monitoring status, and 2 are awaiting cleanups. The 5 sites with confirmed PCB releases to groundwater are also in various stages of cleanup.

Fourteen of the 31 sites have data entered into the EIM system. Most of the data is for soils. Three sites with confirmed releases of PCB to groundwater have data entered into EIM (Kaiser Aluminum, Spokane River Upriver Dam, General Electric Co.). EIM search ID, data collection dates, range of results and other pertinent information are listed in Appendix A.

PCB analytical data for the cleanup sites were primarily generated using method SW8082, with a standard reporting limit range of 0.5-100 ug/Kg (PCB congeners) for soil and 0.0033-0.1 ug/L (PCB congeners) for water. Residual PCB contamination may still exist at some of the sites.

To further assist the SRRTTF in identifying sites of potential interest, EAP rated the identified sites. TCP staff from the Eastern Regional Office provided current site-specific information that assisted with the rating process. In general, the rating system was based on the following criteria: (1) confirmed or suspected release of PCBs to the environment and (2) site status with regard to cleanup activities. Sites were rated on a scale of 1 to 10, with 1 representing sites of most interest and 10 of lowest interest. For example, sites with confirmed release of PCBs and

remediation that included on-site containment were rated higher (1) than sites with no suspected use or confirmed release of PCBs to the environment (10). The rating system is explained more fully in Appendix A.

2. Perform well log review

Ecology's Water Resources Program maintains well log records for Washington. The well log database is extensive, ranging from water supply wells installed as far back as the 1930s to temporary soil borings installed during site investigations.

EAP focused its database search to monitoring wells that could be used in future PCB sampling efforts. Criteria for the search was developed in consultation with the SRRTTF technical consultant and included:

- wells adjacent to gaining reaches of the river between USGS river gauges #12420500 (Barker Rd.) and #12422000 (below Greene St.)
- wells within 1 mile of the river
- wells near identified PCB sources

Wells listed in Appendix B represent monitoring wells that may be present for future sampling. There are no apparent records that the listed wells have been decommissioned, so they are assumed to still be present. It should be noted that the information entered into the database is not always complete, accurate, or reliable. The location and construction details for any potentially selected well will need to be field-verified.

The well log database provides basic information such as well ownership, location, depth, and completion date. For more detailed information on well construction and lithology, the individual well log can be accessed through Ecology's well log website (<https://fortress.wa.gov/ecy/waterresources/map/WCLSWebMap/default.aspx>), using the Well Log ID number (See Appendix B).

About 250 potential monitoring wells were identified in the geographical area that was searched. The wells range in depth from approximately 15 to 197 feet.

EAP will continue to work in consultation with the technical consultant to identify wells of greatest interest for potential monitoring.

Well ownership appears to be as follows:

- 20% - some government entity (e.g., City of Spokane, Spokane County, Washington State Dept of Transportation, USGS)
- 30% - various railroads, primarily Burlington Northern/Santa Fe (BNSF)
- 50% - private companies or individuals

Monitoring wells that are owned by government agencies/departments or wells associated with cleanup sites that are managed by Ecology would probably be easiest to access.

It should be noted that monitoring wells associated with the Kaiser Aluminum site are listed separately. A great deal of information is already available on these actively monitored wells.

3. Research Underground Injection Program (UIC) wells in the area.

Ecology's Water Quality Program oversees the Underground Injection Control (UIC) Program. UICs are manmade wells or structures that are used to drain fluids into the subsurface. The UIC program protects groundwater quality by regulating the disposal of these fluids. UIC wells are to be operated, maintained, and closed in a way that protects groundwater quality.

As with the well log database, the UIC database is extensive. In Spokane County alone, approximately 14,000 UICs have been registered. Once again EAP focused its UIC search to between Barker Rd. and Greene St.

Within that river reach, the majority of UICs are classified as 5D2, which are stormwater drainage wells (drywells). These wells receive stormwater runoff from paved areas, such as parking lots, streets, residential subdivisions, building roofs, and highways. The 5D2 classification can be further divided based on registration types: municipal or non-municipal stormwater, and industrial or commercial facilities.

Due to the number of UICs, the search area was divided into two segments: Barker Rd to the E. Trent Ave bridge and from the bridge to just below Greene St. The number of UIC for each area had the following breakdown:

- Barker Rd to E Trent Ave bridge - 3,750 UICs
 - 99% – classified as 5D2 (stormwater) and range in depth up to 24 ft
 - 77% – municipal stormwater
 - 20% – non-municipal stormwater
 - 3% – industrial/commercial facilities

An area of interest to the SRRTTF is the Spokane Industrial Park which has approximately 500 UICs listed in the database. These UICs are registered as non-municipal stormwater and mostly range in depth from 7-10 ft.

- E Trent Ave bridge to Greene St - 6,275 UICs
 - 97% – classified as 5D2 (stormwater) and mostly range in depth up to 24 ft
 - 89% – municipal stormwater
 - 6% – non-municipal stormwater
 - 7% – industrial/commercial facilities
 - 2% – classified as 5D4 (industrial storm runoff)

The potential for groundwater contamination from UICs depends upon the UIC wells' construction and location, the type and quality of fluids being injected, and the geographic and subsurface setting in which the injection occurs. As stated previously, the majority of UICs identified in the area of interest were constructed to manage municipal and non-municipal stormwater.

For the most part, UICs used along roads and parking areas are not considered a high threat to groundwater if they have been built to meet the requirements of the *Guidance for UIC Wells that Manage Stormwater* (Ecology, 2006), which went into effect in February 2006.

UICs constructed before 2006 and used to manage stormwater are required to have a well assessment to determine if they pose a risk to groundwater. A well assessment evaluates the land use around the UIC, which may affect the quality of the discharge, and whether the UIC is located in a groundwater protection area. If a UIC well is considered a high threat to groundwater, the assessment may also include information on the local geology and depth to groundwater in relation to the UIC well. UICs are considered a higher threat to groundwater if land use includes such activities as: vehicle maintenance, repair, and washing; storage or handling of hazardous materials or wastes; storage of treated lumber; and certain types of recycling.

4. Research PCB-laden supply well pumps

Before 1978, PCBs were used as insulators in the electrical capacitors of some 2-wire submersible pumps. As the pumps age, the normal wear of operation may release small amounts of pump operating fluids that can leak from the pump into the water supply well. The Oregon Department of Human Services reported that for this to happen, the capacitor must first leak PCBs into the cooling oil of the pump, and then the pump seal must fail, releasing PCB-contaminated oil into the well water. (Oregon, 1986). Most pumps fail as a result of bearing or motor breakdowns, with no loss of coolant oil. An average pump life is reported to be approximately 10-15 years. Lists of pump types and models that may contain non-food-grade oils or capacitors filled with PCBs have been compiled by various government agencies and can be found online (Wisconsin, 2008).

References

Ecology Environmental Information Management (EIM) Database.
<http://www.ecy.wa.gov/eim/>

Ecology Toxics Cleanup Program Web Reporting.
<https://fortress.wa.gov/ecy/tcpwebreporting/Default.aspx>

Ecology Well Logs Database.
<https://fortress.wa.gov/ecy/waterresources/map/WCLSWebMap/default.aspx>

Shaleen-Hansen, M., 2015. Personal communication. Underground Injection Control Program Coordinator, Water Quality Program, Washington State Department of Ecology, Lacey, WA.

Ecology Underground Injection Control Program.
<http://www.ecy.wa.gov/programs/wq/grndwtr/uic/index.html>

Ecology, Watershed Management Section, 2006. Guidance for UIC Wells that Manage Stormwater. WA Dept of Ecology, Pub #05-10-067.

<https://fortress.wa.gov/ecy/publications/SummaryPages/0510067.html>

Oregon Dept of Human Services – Technical Bulletin: PCBs and Submersible Pumps, April 1986.

Treccani, S., 2015. Personal communication. Project Manager, Toxics Cleanup Program, Washington State Department of Ecology, Lacey, WA.

Wisconsin Dept. of Natural Resources, 2008. Submersible Wells Pumps and Water Contamination. WI Dept. of Natural Resources, Pub #2008-05-02.

<http://dnr.wi.gov/topic/wells/documents pcb.pdf>

Appendices

Appendix A: TCP Sites

Appendix B: Potential Spokane Monitoring Well Locations

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Jim Ross, Unit Supervisor, EAP-ERO
Melissa McCall (for Activity Tracker)



Figure 1.



Figure 2.

Appendix A. Locations

County	Facility Site Id	Cleanup Id	Site	Cleanup Site Name ¹	Address	City	Zip Code	Region	Responsible Section	Latitude	Longitude	Approx. Distance to River	ECY Site Manager
Above Barker to Below Trent (USGS Gauge #12420500 - #12421500): Losing-Gaining													
Spokane	712	1813	SPOKANE INDUSTRIAL PARK G		3808 N SULLIVAN RD	SPOKANE	99216	Eastern	Eastern	47.691	-117.193		Patti Carter
Spokane	34795691	2733	GENERAL ELECTRIC CO SPOKANE SULLIVA		3919 N SULLIVAN RD	SPOKANE	99216	Eastern	Eastern	47.691	-117.198	1 mi	Patti Carter
Spokane	15442	12077	PENTZER WWTP DEMOLITION		W OF SULLIVAN RD N OF SPOKANE RIVER	SPOKANE VALLEY	99216	Eastern	Eastern	47.679	-117.204	Pipeline to river	Patti Carter
Spokane	53481373	7093	KAISER ALUMINUM & CHEMICAL CORP (Kaiser Trentwood)		15000 E EUCLID AVE	SPOKANE	99216	Eastern	Eastern	47.686048	-117.2056		Jeremy Schmidt
Spokane	52126416	4580	HOLCIM INC.		12207 E EMPIRE AVE	SPOKANE VALLEY	99206	Eastern	Eastern	47.691	-117.245		Jeremy Schmidt
Below Trent to Below Greene St (USGS Gauge #12421500 - #12422000): Gaining-Losing-Gaining													
Spokane	65178472	4213	SPOKANE RIVER UPRIVER DAM & DONKEY ISLAND			SPOKANE	99217	Eastern	Eastern	47.68778	-117.32083	In river sediments	Brendan Dowling
Spokane	28314355	365	APPLEWAY CHEVROLET INC., SALE LOT (FC28314355)		8500 E Sprague Ave	Spokane Valley	99212	Eastern	Eastern	47.65627	-117.29133	2.4 mi	Patti Carter
Spokane	74521817	4348	MARTINS AUTO SERVICE TRENT WALGREENS		ARGONNE RD & TRENT AVE NE CORNER	MILLWOOD	99206	Eastern	Eastern	47.681	-117.284	0.5 mi	Patti Carter
Spokane	84283894	3389	MED STAR HANGAR FELTS FIELD		6400 E RUTTER AVE	SPOKANE	99212	Eastern	Eastern	47.682	-117.315	0.4 mi	Patti Carter
Spokane	729	779	AVISTA CORP DOLLAR RD		2406 N DOLLAR RD	SPOKANE	99212	Eastern	Eastern	47.680	-117.317	0.6 mi	Patti Carter
Spokane	64145388	3011	MARTIN WOOD PRODUCTS PROPERTY		2105 N AIRPORT ST	SPOKANE	99212	Eastern	Eastern	47.677	-117.332	0.25 mi	Patti Carter
Spokane	676	1318	BNSF PARKWATER RAILYARD, SPOKANE		5302 E Trent Ave	Spokane	99212	Eastern	Eastern	47.675	-117.333	0.5 mi	Sandra Treccani
Spokane	9766365	2727	AVISTA CORP BEACON STORAGE YARD		4323 E UPRIVER DR	SPOKANE	99207	Eastern	Eastern	47.686	-117.347	0.1 mi	Patti Carter
Spokane	9889	11621	CUSTER COMMERCIAL CENTER SOIL REMEDIATION		5025 E Sprague Ave	Spokane Valley	99212	Eastern	Eastern	47.657	-117.337		Patti Carter
Spokane	630	1082	GENERAL ELECTRIC CO.		4323 E MISSION AVE	SPOKANE	99212-131	Eastern	Eastern	47.671836	-117.34681	0.12 mi	Huckleberry Palmer
Spokane	56816995	1059	ATLAS MINE & MILL SUPPLY INC		1115 N HAVANA ST	SPOKANE	99202	Eastern	Eastern	47.669	-117.348	0.6 mi	Patti Carter
Spokane	674	1225	SPOKANE FIRE DEPT TRAINING FAC		REBECCA & MISSION	SPOKANE	99201	Eastern	Eastern	47.673078	-117.35442	0.19mi	Patti Carter
Spokane	1677578	195	STOCKLAND LIVESTOCK EXCHANGE, SPOKANE		1004 N Freya St	SPOKANE	99206	Eastern	Eastern	47.667	-117.355	0.65 mi	Patti Carter
Spokane	670	1138	ALASKA STEEL & SUPPLY		3410 DESMET E	SPOKANE	99202-458	Eastern	Eastern	47.667284	-117.36008	0.64 mi	John Roland
Spokane	684	4958	WA CC SPOKANE COMMUNITY COLLEGE		2000 N GREEN ST	SPOKANE	99207	Eastern	Central	47.675	-117.363	0.28 mi	Jeff Newschander
Spokane	7617080	467	BARRIER TRUST PROPERTY		2616 E BROADWAY AVE	SPOKANE	99202	Eastern	Eastern	47.664167	-117.37182	0.88 mi	
Spokane	650	1023	CITY PARCEL		708 N COOK ST	SPOKANE	99202	Eastern	Eastern	47.6633	-117.37335	0.79 mi	Huckleberry Palmer
Spokane	640	1209	COLUMBIA PAINT & COATING		112 Haven St	Spokane	99202	Eastern	Eastern	47.659	-117.366	1.3 mi	Patti Carter
Spokane	125	2875	SPOKANE JUNK YARD		3322 N COOK ST	SPOKANE	99207	Eastern	Eastern	47.688	-117.373	0.6 mi	Patti Carter
Spokane	960924	1371	BNSF HILLYARD LEAD SOIL SITE		4800 TO 5300 BLOCK N FERRALL ST	SPOKANE	99207	Eastern	Eastern	47.70239	-117.35994	1.73 mi	Patti Carter
Spokane	4681	81484342	INLAND EMPIRE PAPER		3320 N ARGONNE RD	SPOKANE	99212	Eastern	Eastern	47.687	-117.282		Patti Carter
Below Greene St to Spokane River @ Spokane (USGS Gauge #12422000 - #12422500): Losing-Minimal Interaction													
Spokane	669	1808	INLAND METALS INC		534 E TRENT AVE	SPOKANE	99202	Eastern	Eastern	47.661	-117.403	0.05 mi	Patti Carter
Spokane	6724162	4643	SCHADE BREWERY		528 E TRENT	SPOKANE	99202	Eastern	Eastern	47.661	-117.402	0.05 mi	Patti Carter
Spokane	19213533		HUTTON SETTLEMENT, QWEST COMMUNICATIONS INC W00864		521 E Sprague Ave	Spokane	99202	Eastern	Eastern				Sandra Treccani
Spokane	654	1270	US DOE BPA BELL MAINTENANCE HQ		2400 E HAWTHORNE RD	MEAD	99021	Eastern	Eastern/HQ	47.75063	-117.38245	3.23 mi N of Spokane	Patti Carter / Barry Rogowski
Spokane River @ Spokane to Below Nine Mile Dam (USGS Gauge #12422500 - #12426000): Gaining-Losing													
Spokane	21329	3181	NINE MILE FALLS CAMPGROUND		11800 W CHARLES RD	NINE MILE FALLS	99026	Eastern	Eastern	47.788167	-117.57334	0.29 mi	Patti Carter/Phil Leinart

¹ Cleanup Site Name = Cleanup Status is still active. Cleanup Site Name = No Further Action (NFA) letter has been issued.

Appendix A (continued). Site Ratings

Site Rating ¹	Facility Site Id	Cleanup Id	Site	Cleanup Site Name	Any knowledge of PCB use at site?	Was soil sampled for PCBs using 8082?	Was there a confirmed soil release through sampling using 8082?	Was PCB-contaminated soil removed or contained on-site?	Was groundwater sampled for PCBs?	Was there a confirmed gw release through sampling using 8082?	Site Status	Date NFA Issued	TCP-ERO Comments
Above Barker to Below Trent (USGS Gauge #12420500 - #12421500): Losing-Gaining													
9	712	1813	SPOKANE INDUSTRIAL PARK G		no	yes	no	n/a	no	n/a	Remediated - No Further Action Required	7/28/1999	Issue was soil & debris pile; removed
8	34795691	2733	GENERAL ELECTRIC CO SPOKANE SULLIVA		yes	yes	yes	removed	yes	no	Remediated - No Further Action Required	5/9/2005	
8	15442	12077	PENTZER WWTP DEMOLITION		no	yes	yes	removed	no	n/a	Remediated - No Further Action Required	6/18/2013	Pipeline demolition and removal of pipeline and soils
1	53481373	7093	KAISET ALUMINUM & CHEMICAL CORP (Kaiser Trentwood)		yes	yes	yes	both	yes	yes	Cleanup Started		1668 used for some soil and groundwater
9	52126416	4580	HOLCIM INC.		no	yes	no	n/a	no	n/a	Cleanup Action Plan		
Below Trent to Below Greene St (USGS Gauge #12421500 - #12422000): Gaining-Losing-Gaining													
2	65178472	4213	SPOKANE RIVER UPRIVER DAM & DONKEY ISLAND		yes	sediment	yes	contained	surface water	yes	Construction Complete-Performance Monitoring		
8	28314355	365	APPLEWAY CHEVROLET INC., SALE LOT (FC28314355)		no	yes	yes	removed	yes	no	No Further Action Required	2/18/2014	old landfill
8	74521817	4348	MARTINS AUTO SERVICE TRENT WALGREENS		no	yes	yes	removed	no	n/a	Remediated - No Further Action Required	1/11/2008	PCBs in soils at base of hoist in auto repair garage
8	84283894	3389	MED STAR HANGAR FELTS FIELD		no	yes	yes	removed	no	n/a	No Further Action Required	8/21/2000	
10	729	779	AVISTA CORP DOLLAR RD		no	no	n/a	n/a	no	n/a	Remediated - No Further Action Required	8/7/2012	Issue was metals in shallow soil and soil piles
8	64145388	3011	MARTIN WOOD PRODUCTS PROPERTY		yes	yes	yes	removed	no	n/a	Remediated - No Further Action Required	8/10/2000	
8	676	1318	BNSF PARKWATER RAILYARD, SPOKANE		yes	yes	yes	removed	yes	no	Cleanup Started - Independent Action		
8	9766365	2727	AVISTA CORP BEACON STORAGE YARD		yes	yes	yes	removed	no	n/a	Remediated - No Further Action Required	9/20/2000	
9	9889	11621	CUSTER COMMERCIAL CENTER SOIL REMEDIATION		no	yes	no	n/a	no	n/a			TPH, PAHs, metals in soil - some soil removal; remaining soil capped
3	630	1082	GENERAL ELECTRIC CO (Mission)		yes	yes	yes	contained (vitrification and asphalt)	yes	yes	Construction Complete-Performance Monitoring		
8	56816995	1059	ATLAS MINE & MILL SUPPLY INC		no	yes	yes	removed	no	n/a	Remediated - No Further Action Required	1/15/2008	
10	674	1225	SPOKANE FIRE DEPT TRAINING FAC		no	no	n/a	n/a	yes	yes	Cleanup Started		PCBs in gw from adjacent GE site
8	1677578	195	STOCKLAND LIVESTOCK EXCHANGE, SPOKANE		no	yes	yes	removed	no	n/a	No Further Action Required	4/1/2008	
4	670	1138	ALASKA STEEL & SUPPLY		no	yes	yes	no	no	n/a	Awaiting Cleanup		
5	684	4958	WA CC SPOKANE COMMUNITY COLLEGE		no	yes	yes	contained	no	n/a	No Further Action Required	2/21/1995	Issue was maintenance building drywell
6	7617080	467	BARRIER TRUST PROPERTY		no	yes	yes	both	yes	yes	Cleanup Started		no PCBs were ever used on this property, all contamination is related to City Parcel
8	650	1023	CITY PARCEL		yes	yes	yes	removed	yes	no	Cleanup Started		
9	640	1209	COLUMBIA PAINT & COATING		no	yes	no	n/a	yes	no	Remediated - No Further Action Required	12/4/2009	
8	125	2875	SPOKANE JUNK YARD		yes	yes	yes	removed	no	n/a	No Further Action Required	8/18/1997	EPA removal action
5	960924	1371	BNSF HILLYARD LEAD SOIL SITE		no	yes	yes	contained	no	n/a	Cleanup Started		
10	81484342		INLAND EMPIRE PAPER		no	no	n/a	n/a	yes	no	No Further Action Required	3/12/2003	Issue was leaking fuel oil tank
Below Greene St to Spokane River @ Spokane (USGS Gauge #12422000 - #12422500): Losing-Minimal Interaction													
8	669	1808	INLAND METALS INC		yes	yes	yes	removed	no	n/a	Remediated - No Further Action Required	12/22/1992	salvage yard; now commercial building and paved
8	6724162	4643	SCHADE BREWERY		no	yes	yes	removed	no	n/a	Remediated - No Further Action Required	5/4/2006	now covered by building and paved
9	19213533		HUTTON SETTLEMENT, QWEST COMMUNICATIONS INC W00864		no	yes	no	n/a	no	n/a			
7	654	1270	US DOE BPA BELL MAINTENANCE HQ		yes	yes	yes	some soil removed	no	n/a	Cleanup Started		
Spokane River @ Spokane to Below Nine Mile Dam (USGS Gauge #12422500 - #12426000): Gaining-Losing													
4	21329	3181	NINE MILE FALLS CAMPGROUND		no	yes	yes	no	no	n/a	Awaiting Cleanup		landfill debris

Notes for
table above:

¹ Site Rating

Key

- 1 Sites with confirmed release of PCBs to soil and groundwater using both methods 8082 and 1668. Sites remediation include soil removal and containment.
- 2 Sites with confirmed release of PCBs to sediment and groundwater. Sites remediation includes containment.
- 3 Sites with confirmed release of PCBs to soil and groundwater due to site activities. Sites remediation includes containment.
- 4 Sites with confirmed release of PCBs to soil. Sites waiting to be remediated.
- 5 Sites with confirmed release of PCBs to soil. Sites remediation included containment.
- 6 Sites with confirmed release of PCBs to soil and groundwater due to an off-site source. Sites remediation included some soil removal and containment.
- 7 Sites with confirmed release of PCBs to soil and/or groundwater. Sites remediation included some soil removal.
- 8 Sites with confirmed release of PCBs to soil and/or groundwater. Sites remediation included soil removal.
- 9 Sites with no suspected use of PCBs and no confirmed release of PCBs to soil or groundwater.
- 10 Sites with no suspected use of PCBs and no confirmed release of PCBs to soil or groundwater due to site activities.

Appendix A (continued). Data Sources

Site Rating	Facility Site Id	Cleanup Site Id	Cleanup Site Name	Date NFA Issued	EIM ID	Data Dates	Result/units	Lab Meth	MDL	Study QA Planning Level ¹	Study QA Assessment Level ²	Associated Cleanup Std	Pres of mw's	On-line Documents
Above Barker to Below Trent (USGS Gauge #12420500 - #12421500): Losing-Gaining														
9	712	1813	SPOKANE INDUSTRIAL PARK G	7/28/1999	n/a									None
8	34795691	2733	GENERAL ELECTRIC CO SPOKANE SULLIVA	5/9/2005	n/a								None Listed	None
8	15442	12077	PENTZER WWTP DEMOLITION	6/18/2013	VCEA0252	10/30/2012 - 12/5/2012	ND 48-2630 ug/kg; 62-15,200 ug/kg	SW8082A	MDL: 4.01-259 ug/kg	Level 1	Level 3	1 mg/kg	No	VCP - NFA Letter
1	53481373	7093	KAISET ALUMINUM & CHEMICAL CORP (Kaiser Trentwood)		FS53481373	1/23/2006-7/30/2014	Lots of Data	Soil: SW8082, SW8082A; GW: SW8082, SW8082A, EPA1668		Level 3	Level 4		Yes, multiple	Multiple
9	52126416	4580	HOLCIM INC.		n/a								Yes, 4 wells	Multiple. 2013 FS/RI
Below Trent to Below Greene St (USGS Gauge #12421500 - #12422000): Gaining-Losing-Gaining														
2	65178472	4213	SPOKANE RIVER UPRIVER DAM & DONKEY ISLAND		UPPRVRDAM	5/21/2003-10/7/2004	ND 2-48 ug/kg; 2.3-330 ug/kg	SW8082		Level 3	Level 4		N/A	Multiple. 10/2/2011 Final Year 4 Upriver Dam Cap Monitoring Results
8	28314355	365	APPLEWAY CHEVROLET INC., SALE LOT (FC28314355)	2/18/2014	VCEA0148	6/10/2008-5/9/2013	ND 0.00774-0.107 ug/L	SW8082	MDL: 0.00774 0.107 ug/L	Level 2	Level 3		Yes, 4 wells	Yes, proposed NFA
8	74521817	4348	MARTINS AUTO SERVICE TRENT WALGREENS	1/11/2008	VCEA0163	4/5/2007 - 4/30/2007	ND 51.5-66 ug/kg 184 ug/kg	SW8082	MRL: 51.5-66 ug/kg	Level 1	Level 5			None
8	84283894	3389	MED STAR HANGAR FELTS FIELD	8/21/2000									Yes, 1 well @ airport	None
10	729	779	AVISTA CORP DOLLAR RD	8/7/2012	VCEA0245	2/12/2010 - 12/16/2011	No PCB data			Level 1	Level 2			VCP - NFA Letter
8	64145388	3011	MARTIN WOOD PRODUCTS PROPERTY	8/10/2000										5-Year Review - 8/9/2000
8	676	1318	BNSF PARKWATER RAILYARD, SPOKANE		FS676	1/18/2007-10/23/2013	ND 0.472-0.476 ug/L	SW8082	0.472-0.476 ug/L	Level 1	Level 2		Yes, 23 wells	Yes, RI/FS, Draft Cleanup Action Plan
8	9766365	2727	AVISTA CORP BEACON STORAGE YARD	9/20/2000										None
9	9889	11621	CUSTER COMMERCIAL CENTER SOIL REMEDIATION		VCEA0224	11/22/2011-7/2/2014	ND 0.0976-0.102 mg/kg	SW8082		Level 3	Level 5		Yes, 4 wells	None
3	630	1082	GENERAL ELECTRIC CO		GE SPOKA	1/4/1994 - 2/19/2003	ND 0.003-0.01 ug/L 0.003-1.9 ug/L	SW8082/ SW8082M	0.05 ug/L	Level 2	Level 1	0.1 ug/L	Yes, 8 wells	Multiple (3 5-Year Reviews). More recent data included in reports.
8	56816995	1059	ATLAS MINE & MILL SUPPLY INC	1/15/2008	VCEA0164	Nov 2005 - Feb 2007	ND 26-6080 ug/kg 34.7-16,300 ug/kg	SW8082	PQL: 26-6080 ug/kg	Level 2	Level, 4			None
10	674	1225	SPOKANE FIRE DEPT TRAINING FAC											None
8	1677578	195	STOCKLAND LIVESTOCK EXCHANGE, SPOKANE	4/1/2008	VCEA0126	10/23/2006 - 4/6/2007	ND 0.472 U - 0.193 ug/L	SW8082		Level 2	Level 2		Maybe 2	None
4	670	1138	ALASKA STEEL & SUPPLY			n/a								None
5	684	4958	WA CC SPOKANE COMMUNITY COLLEGE	2/21/1995	n/a		1.2 mg/kg						1 mg/kg	5-Year Review - 6/28/2013
6	7617080	467	BARRIER TRUST PROPERTY			n/a								None
8	650	1023	CITY PARCEL		FS650	6/29/2009-7/18/2014	2014 Data: ND 39.7-26,700 ug/kg 41.5-17,000,000 ug/kg	SW8082A	MDL: 1.75-265,000 ug/kg	Level 3	Level 3	1-10 mg/kg	Decommissioned	Yes (2014 RI)
9	640	1209	COLUMBIA PAINT & COATING	12/4/2009	VCEA0176	11/5/1993-3/7/2008	ND 1 mg/kg	SW8080	MRL: 1 mg/kg	Level 3	Level 2		Yes, 5 wells	None
8	125	2875	SPOKANE JUNK YARD	8/18/1997	NA								1 mg/kg	None
5	960924	1371	BNSF HILLYARD LEAD SOIL SITE		n/a									None
10	4681	81484342	INLAND EMPIRE PAPER	3/12/2003									Yes, 3 wells	
Below Greene St to Spokane River @ Spokane (USGS Gauge #12422000 - #12422500): Losing-Minimal Interaction														
8	669	1808	INLAND METALS INC	12/22/1992										None
8	6724162	4643	SCHADE BREWERY	5/4/2006										None
9	19213533		HUTTON SETTLEMENT, QWEST COMMUNICATIONS INC W00864		G1400031	5/7/2014-5/8/2014	ND 0.1 mg/kg	SW8082	0.1 PQL	Level 3	Level 3		Direct Push	
7	654	1270	US DOE BPA BELL MAINTENANCE HQ											None
Spokane River @ Spokane to Below Nine Mile Dam (USGS Gauge #124222500 - #12426000): Gaining-Losing														
4	21329	3181	NINE MILE FALLS CAMPGROUND											8/20/2013 SHA

Notes for table on previous page:

¹ Study QA Planning Level

- 1: Informal or no QA documentation;
- 2: Generic or incomplete document;
- 3: QAPP, sample plan, or equivalent;
- 4: Approved QAPP or sample plan.

² Study QA Assessment Level

- 1: Data neither Verified nor Assessed for Usability;
- 2: Data Verified;
- 3: Data Verified and Assessed for Usability;
- 4: Data Verified and Assessed for Usability in a Formal Study Report;
- 5: Data Verified and Assessed for Usability in a Peer-Reviewed Study Report.

Appendix B. Wells

Well Log ID	Well Tag Number	Notice of Intent ID	Well Depth	Well Diameter	Well Owner	Township	Range	Range Direction	Section	Qrt Section	Qrt Qrt Section	Well Completion Date	County	Well Type	Well Log Received	Tax Parcel	State Plane X-Coordinate	State Plane Y-Coordinate
T25N, R45E (Sec 6, 7, 18)																		
210145	34961	94			WESTERN ELECTRIC	25	45	E	6	SW	SW		Spokane	R	8/16/1989		2459779	875915
210146	34961	96			WESTERN ELECTRIC	25	45	E	6	SW	SW		Spokane	R	8/17/1989		2459779	875915
210410	ACM052	R014465	100		SAB WELLHEAD PROTECTION	25	45	E	7	NE	NE		Spokane	R	9/18/1997		2463808	874760
185311		80	2		SPOKANE COUNTY	25	45	E	7	NE	NE	10/29/1998	Spokane	W	10/13/1998		2463808	874760
T26N, R44E (Sec 31-36)																		
451636	APK310	R068829	125	6	EAST VALLEY SCHOOL DIST	26	44	E	36	SW	SW	6/16/2006	Spokane	R	8/28/2006		2454254	881029
T25N, R44E (Sec 1-18)																		
451632	APK309	R068831	120	6	SPOKANE COUNTY PARKS	25	44	E	3	NW	NW	6/13/2006	Spokane	R	8/28/2006		2443762	879231
543911	BAS 358	R060000	35	2	CITY OF SPOKANE VALLEY	25	44	E	4	NE	SE	5/18/2008	Spokane	R	5/28/2008	45046-9062	2442511	877877
543913	BAS 357	R059999	35	2	CITY OF SPOKANE VALLEY	25	44	E	4	NE	SE	5/18/2008	Spokane	R	5/28/2008	45046-9062	2442511	877877
543915	BAS 356	R059999	35	2	CITY OF SPOKANE VALLEY	25	44	E	4	NE	SE	5/18/2008	Spokane	R	5/28/2008	45046-9062	2442511	877877
543916	BAS 355	R059999	35	2	CITY OF SPOKANE VALLEY	25	44	E	4	NE	SE	5/18/2008	Spokane	R	5/28/2008	45046-9062	2442511	877877
490615	APA373	R053630	80	6.5	HOLCIM INC GEO ENGINEERS	25	44	E	4	NE	SE	4/27/2007	Spokane	R	8/8/2007	34.080715	2442511	877877
490616	APA374	R053630	75	6.5	HOLCIM INC GEO ENGINEERS	25	44	E	4	NE	SE	4/27/2007	Spokane	R	8/8/2007	34.080715	2442511	877877
490618	APA375	R053630	80	6.5	HOLCIM INC GEO ENGINEERS	25	44	E	4	NE	SE	4/27/2007	Spokane	R	8/8/2007	34.080715	2442511	877877
490619	APA376	R053630	58	6.5	HOLCIM INC GEO ENGINEERS	25	44	E	4	NE	SE	4/27/2007	Spokane	R	8/8/2007	34.080715	2442511	877877
848109	BCE539	RE07301	30	6	The Neighborhood	25	44	E	4	SE	NE	7/25/2012	Spokane	R	8/20/2012	45045.1603	2442572	876580
848111	BCE 538	RE07301	40	6	The Neighborhood Geo Engineers	25	44	E	4	SE	NE	7/25/2012	Spokane	R	8/20/2012	45045.1603	2442572	876580
309470	AGG559	R035232	29.3		INLAND PAPER CO	25	44	E	5	SW	SW	6/1/2001	Spokane	R	7/11/2001		2433396	874862
309471	AGG561	R035232	43.2		INLAND PAPER CO	25	44	E	5	SW	SW	6/12/2001	Spokane	R	7/11/2001		2433396	874862
309477	AGG560	R035232	30		INLAND PAPER CO	25	44	E	5	SW	SW	6/4/2001	Spokane	R	7/11/2001		2433396	874862
159797			118	4	U S G S WELL #1	25	44	E	7	SE	NW	9/28/1978	Spokane	W	12/22/1978		2430911	870775
159798			118	4	U S G S WELL #2	25	44	E	7	SE	NW	9/22/1978	Spokane	W	12/22/1978		2430911	870775
159799			119	4	U S G S WELL #3	25	44	E	7	SE	NW	9/26/1978	Spokane	W	12/22/1978		2430911	870775
159800			117	4	U S G S WELL #4	25	44	E	7	SE	NW	9/20/1978	Spokane	W	12/22/1978		2430911	870775
159801			118	4	U S G S WELL #5	25	44	E	7	SE	NW	9/15/1978	Spokane	W	12/22/1978		2430911	870775
159802			119	4	U S G S WELL #6	25	44	E	7	SE	NW	9/13/1978	Spokane	W	12/22/1978		2430911	870775
159803			120	6	U S G S WELL #7	25	44	E	7	SE	SE	3/1/1979	Spokane	W	4/17/1979		2432262	869521
179934		75389			EXXON	25	44	E	8	NW	SW		Spokane	R			2433494	872232
1021451	BBH695	RE10884	75	6	City Of Spokane Valley	25	44	E	11	SE	SE	2/12/2015	Spokane	R	3/23/2015		2453467	870413
189641	AEK213	R035117	65		SAJB 136236 AMENDMENT #1	25	44	E	11	SE	SE	9/27/1998	Spokane	R			2453467	870413
189642	AEK214	R035117	66		SAJB 136236 AMENDMENT #1	25	44	E	11	SE	SE	9/28/1998	Spokane	R			2453467	870413
185307			85	2	SPOKANE COUNTY	25	44	E	11	SE	SE	10/29/1998	Spokane	W	10/13/1998		2453467	870413
688493	BBH845	RE05095	79	6	Union Pacific Railroad Pastor® Behling & Wheeler	25	44	E	11	SE	NW	10/20/2010	Spokane	R	10/27/2010	45114.903	2452070	871679
688495	BBH846	RE05095	67	6	Union Pacific Railroad Pastor® Behling & Wheeler	25	44	E	11	SE	NW	10/20/2010	Spokane	R	10/27/2010	45114.903	2452070	871679
688497	BBH847	RE05095	77	6	Union Pacific Railroad Pastor® Behling & Wheeler	25	44	E	11	SE	NW	10/20/2010	Spokane	R	10/27/2010	45114.903	2452070	871679
577459	BAS338	R060034	87	6	GE PUB FINANCE CORP	25	44	E	12	NW	NW	11/25/2008	Spokane	R	12/9/2008	55072-0332	2454584	874418
577460	BAS339	R060034	67	6	GE PUB FINANCE CORP	25	44	E	12	NW	NW	11/25/2008	Spokane	R	12/9/2008	55072-0332	2454584	874418
577461	BAS340	R060034	72	6	GE PUB FINANCE CORP	25	44	E	12	NW	NW	11/25/2008	Spokane	R	12/9/2008	55072-0332	2454584	874418
580792	BAS439	R060034	67	6	GE PUB FINANCE CORP	25	44	E	12	NW	NW	11/25/2008	Spokane	R	4/16/2009	55072-0332	2454584	874418
580793	BAS438	R060034	87	6	GE PUB FINANCE CORP	25	44	E	12	NW	NW	11/25/2008	Spokane	R	4/16/2009	55072-0332	2454584	874418
580794	BAS440	R060034	72	6	GE PUB FINANCE CORP	25	44	E	12	NW	NW	11/25/2008	Spokane	R	4/16/2009	55072-0332	2454584	874418
210344		33057			YELLOW FREIGHT - SPOKANE	25	44	E	12					R	10/11/1989		2456652	872513
309790	ABO462	R055134	20		GULL IND INC	25	44	E	13	SW	SW	8/21/2001	Spokane	R	9/21/2001		2455019	865174
210029			50		UNOCAL / SPRAGUE & BOWDISH (VP-6)	25	44	E	16	SW	SE		Spokane	R	8/3/1990		2440382	864593
149594			125	6	BALFOUR PARK	25	44	E	17	SE	SE	5/12/1977	Spokane	W (TW)		2437729	864479	
472309	APA357	R053625	82	6	CITY OF SPOKANE VALLEY	25	44	E	17	SE	SE	3/9/2007	Spokane	R	3/15/2007	45174.9059	2437729	864479
T25N, R43E (Sec 1-4, 8-16, 21)																		
178344		9438	30	1	CITY OF SPOKANE	25	43	E	2	SE	SE	1/24/1989	Spokane	W			2421592	874339
178345		9438	42	1	CITY OF SPOKANE	25	43	E	2	SE	SE	1/23/1989	Spokane	W			2421592	874339
150169		R043110	195	6	BURLINGTON NORTHEN SANTA FE RAILROAD	25	43	E	3	NW	NW	12/14/1998	Spokane	R	12/17/1998		2412186	877979
162559	AEC399	R043110	195	6	BURLINGTON NORTHEN SANTA FE RAILROAD	25	43	E	3	NW	NW	12/4/1998	Spokane	R			2412186	877979
162560	AEC400	R043110	195	6	BURLINGTON NORTHEN SANTA FE RAILROAD	25	43	E	3	NW	NW	12/9/1998	Spokane	R			2412186	877979
617879	BBH601	RE03426	197	6	Burlington Northern Railway (BNSF) GeoEngineers	25	43	E	3	NW	NW	5/26/2009	Spokane	R	7/2/2009	35032.4501	2412186	877979
617881	BBH602	RE03426	197	6	Burlington Northern Railway (BNSF) GeoEngineers	25	43	E	3	NW	NW	5/26/2009	Spokane	R	7/2/2009	35032.4501	2412186	877979
617883	BBH603	RE03426	197	6	Burlington Northern Railway (BNSF) GeoEngineers	25	43	E	3	NW	NW	5/26/2009	Spokane	R	7/2/2009	35032.4501	2412186	877979
617885		RE03426	197	6	Burlington Northern Railway (BNSF) GeoEngineers	25	43	E	3	NW	NW	5/26/2009	Spokane	R	7/2/2009	35032.4501	2412186	877979

Appendix B (continued). Wells

Well Log ID	Well Tag Number	Notice of Intent ID	Well Depth	Well Diameter	Well Owner	Township	Range	Range Direction	Section	Ort Section	Ort Ort Section	Well Completion Date	County	Well Type	Well Log Received	Tax Parcel	State Plane X-Coordinate	State Plane Y-Coordinate
617886	BBH604	RE03426	197	6	Burlington Northern Railway (BNSF) GeoEngineers	25	43	E	3	NW	NW	5/26/2009	Spokane	R	7/2/2009	35032.4501	2412186	877979
617888	BBH606	RE03426	197	6	Burlington Northern Railway (BNSF) GeoEngineers	25	43	E	3	NW	NW	5/26/2009	Spokane	R	7/2/2009	35032.4501	2412186	877979
210411	ACP668	R017890	175		BURLINGTON NORTHERN SANTA FE R.R.	25	43	E	3	NW	NW	6/2/1997	Spokane	R			2412186	877979
883043	BHP458	RE09131	175	2	Dave Clark - BNSF Railway	25	43	E	3	NW	SW	11/12/2013	Spokane	R	11/25/2013		2412225	876678
883057	BHP198	RE09131	176	2	Dave Clark - BNSF Railway	25	43	E	3	NW	SW	10/19/2013	Spokane	R	11/25/2013		2412225	876678
883041	BHP189	RE09131	183	2	Dave Clark - BNSF Railway ERM	25	43	E	3	NW	SW	11/13/2013	Spokane	R	11/25/2013		2412225	876678
883045	BHP188	RE09131	181	2	Dave Clark - BNSF Railway ERM	25	43	E	3	NW	SW	11/6/2013	Spokane	R	11/25/2013		2412225	876678
883047	BHP187	RE09131	167	2	Dave Clark - BNSF Railway ERM	25	43	E	3	NW	SW	11/4/2013	Spokane	R	11/25/2013		2412225	876678
883049	RE09131	186	2		Dave Clark - BNSF Railway ERM	25	43	E	3	NW	SW	11/2/2013	Spokane	R	11/25/2013		2412225	876678
883051	BHP199	RE09131	176	2	Dave Clark - BNSF Railway ERM	25	43	E	3	NW	SW	10/23/2013	Spokane	R	11/25/2013		2412225	876678
883053	BHP184	RE09131	182	2	Dave Clark - BNSF Railway ERM	25	43	E	3	NW	SW	10/23/2013	Spokane	R	11/25/2013		2412225	876678
883055	BHP183	RE09131	182	2	Dave Clark - BNSF Railway ERM	25	43	E	3	NW	SW	10/31/2013	Spokane	R	11/25/2013		2412225	876678
883059	BHP197	RE09131	177	2	Dave Clark - BNSF Railway ERM	25	43	E	3	NW	SW	10/17/2013	Spokane	R	11/25/2013		2412225	876678
883061	BHP185	RE09131	178	2	Dave Clark - BNSF Railway ERM	25	43	E	3	NW	SW	11/15/2013	Spokane	R	11/25/2013		2412225	876678
209805	R021042	35			RADIAN INTERNATIONAL (#1)	25	43	E	3	NW	NW		Spokane	R			2412186	877979
209806	R021042	35			RADIAN INTERNATIONAL (#3)	25	43	E	3	NW	NW		Spokane	R			2412186	877979
209807	R021042	20			RADIAN INTERNATIONAL (#2)	25	43	E	3	NW	NW		Spokane	R			2412186	877979
209808	R021042	35			RADIAN INTERNATIONAL (#4)	25	43	E	3	NW	NW		Spokane	R			2412186	877979
209809	R021042	20			RADIAN INTERNATIONAL (#5)	25	43	E	3	NW	NW		Spokane	R			2412186	877979
577198	BAS398	R060025	189	2	SEM MATERIALS LP	25	43	E	3	NW	NE	10/18/2008	Spokane	R	11/5/2008	35032-4401	2413501	878023
577402	BAS397	R060025	194	2	SEM MATERIALS LP	25	43	E	3	NW	NE	10/18/2008	Spokane	R	11/5/2008	35032-4401	2413501	878023
580339	BAF259	R060026	192	6	SEM MATERIALS LP	25	43	E	3	NW	NE	10/29/2008	Spokane	R	11/6/2008	35032-4401	2413501	878023
580340	BAF260	R060026	192	6	SEM MATERIALS LP	25	43	E	3	NW	NE	10/29/2008	Spokane	R	11/6/2008	35032-4401	2413501	878023
580341	BAF260	R060026	192	6	SEM MATERIALS LP	25	43	E	3	NW	NE	10/29/2008	Spokane	R	11/6/2008	35032-4401	2413501	878023
580342	BAF260	R060026	192	6	SEM MATERIALS LP	25	43	E	3	NW	NE	10/29/2008	Spokane	R	11/6/2008	35032-4401	2413501	878023
931289	BHW567	RE10483	184	6	SNSF Railway	25	43	E	3	SW	NW	9/29/2014	Spokane	R	10/31/2014	363430005	2412265	875379
209894	R036810	48			SPOKANE CITY SEWER	25	43	E	3	SE	NE		Spokane	R	1/23/1991		2416224	875535
339029	S004748	39.4			WA STATE DEPT OF TRANSPORTATION	25	43	E	3	SW	NW	7/27/2001	Spokane	R	8/20/2002		2412265	875379
576118	APK311	R068836	53	6	UPRR	25	43	E	14	SE	SW	6/21/2006	Spokane	R	8/28/2006	2409675	873974	
576119	APK312	R068835	54	6	UPRR KLEINFELDER	25	43	E	14	SW	SE	6/22/2006	Spokane	R	8/28/2006	2408364	873924	
576120	APK313	R068835	54	6	UPRR KLEINFELDER	25	43	E	14	SW	SE	6/22/2006	Spokane	R	8/28/2006	2408364	873924	
576121	APK314	R068835	54	6	UPRR KLEINFELDER	25	43	E	14	SW	SE	6/22/2006	Spokane	R	8/28/2006	2408364	873924	
576123	APK315	R068835	54	6	UPRR KLEINFELDER	25	43	E	14	SW	SE	6/22/2006	Spokane	R	8/28/2006	2408364	873924	
566876	AAV558	R021172	101	6	City of Spokane	25	43	E	8	NE	SE	8/31/1994	Spokane	R	5/12/1995		2405827	871190
295622					SPOKANE WELLHEAD PROTECTION	25	43	E	8	NE	SE		Spokane	R			2405827	871190
209821			45		RIVERPARKS APT (DM-2A)	25	43	E	9	SW	NE		Spokane	R			2408499	869985
209828		216272	51		RIVERPARKS APT (DM-5B)	25	43	E	9	SW	NE	5/21/1993	Spokane	R			2408499	869985
209829		216272	44		RIVERPARKS APT (DM-4)	25	43	E	9	SW	NE	5/20/1993	Spokane	R			2408499	869985
209830		216272	44		RIVERPARKS APT (DM-1)	25	43	E	9	SW	NE		Spokane	R			2408499	869985
209831		216272	41		RIVERPARKS APT (DM-6)	25	43	E	9	SW	NE		Spokane	R			2408499	869985
209832		216272	45		RIVERPARKS APT (DM-3)	25	43	E	9	SW	NE		Spokane	R			2408499	869985
187900	ABT594	35			W. W. P. MISSION ST.	25	43	E	9	SW	SW	12/18/1996	Spokane	R	12/24/1996		2407231	868609
187901	ABT595	30			W. W. P. MISSION ST.	25	43	E	9	SW	SW	12/18/1996	Spokane	R	12/24/1996		2407231	868609
186411			40	6	WASHINGTON WATER POWER	25	43	E	9	SW	SW	10/28/1996	Spokane	W			2407231	868609
187902	ABT599				WASHINGTON WATER POWER	25	43	E	9	SW	SW	4/7/1997	Spokane	R			2407231	868609
566879	ABT594	R017863	40	6	WASHINGTON WATER POWER	25	43	E	9	SW	SW	4/7/1997	Spokane	R	4/14/1997		2407231	868609
566880		R017863	30	6	WASHINGTON WATER POWER	25	43	E	9	SW	SW	4/7/1997	Spokane	R	4/14/1997		2407231	868609
565894			45	10	GE (MW12)	25	43	E	10	SE	SW		Spokane	R	3/8/1991		2415146	868940
180643		29936	32		GENERAL ELECTRIC (MW14)	25	43	E	10	SE	NE		Spokane	R			2416421	870305
180645		29935	45		GENERAL ELECTRIC (MW12)	25	43	E	10	SE	SW		Spokane	R			2415146	868940
209355		29935	44		GENERAL ELECTRIC (MW13)	25	43	E	10	SE	SE		Spokane	R			2416470	868985
209356		29935	46		GENERAL ELECTRIC (MW15)	25	43	E	10	SE	SE		Spokane	R			2416470	868985
209357		29935	48		GENERAL ELECTRIC (MW16)	25	43	E	10	SE	SE		Spokane	R			2416470	868985
209358		29935	120		GENERAL ELECTRIC (MW17)	25	43	E	10	SE	SE		Spokane	R			2416470	868985
1021970	BHV537	RE10720	80.5	6	WSDOT	25	43	E	10	NW	SW	1/8/2015	Spokane	R	4/30/2015		2412396	871464
565896			75	8	BECHTEL NATIONAL INC.	25	43	E	11	SW	SW	11/4/1986	Spokane	R	12/26/1986		2417797	869026
177426			74	6	BECHTEL NATIONAL INC.	25	43	E	11	SW	SW		Spokane	W			2417797	869026
177427			72	8	BECHTEL NATIONAL INC.	25	43	E	11	SW	SW		Spokane	W			2417797	869026

Appendix B (continued). Wells

Well Log ID	Well Tag Number	Notice of Intent ID	Well Depth	Well Diameter	Well Owner	Township	Range	Range Direction	Section	Ort Section	Ort Ort Section	Well Completion Date	County	Well Type	Well Log Received	Tax Parcel	State Plane X-Coordinate	State Plane Y-Coordinate
177428			74	8	BECHTEL NATIONAL INC.	25	43	E	11	SW	SW		Spokane	W			2417797	869026
177429			75	8	BECHTEL NATIONAL INC.	25	43	E	11	SW	SW		Spokane	W			2417797	869026
364077 AHR121	R053426	75	6	BNSF		25	43	E	11	SE	SW	5/20/2003	Spokane	R	7/2/2003		2420453	869093
364078 AHC499	R053426	75	6	BNSF		25	43	E	11	SE	SW	5/19/2003	Spokane	R	7/2/2003		2420453	869093
364079 AHR120	R053426	75	6	BNSF		25	43	E	11	SE	SW	5/19/2003	Spokane	R	7/2/2003		2420453	869093
364080 AHL500	R053426	75	6	BNSF		25	43	E	11	SE	SW	5/20/2003	Spokane	R	7/2/2003		2420453	869093
364081 AHR122	R053426	75	6	BNSF		25	43	E	11	SE	SW	5/22/2003	Spokane	R	7/2/2003		2420453	869093
364082 AHR123	R053426	75	6	BNSF		25	43	E	11	SE	SW	5/23/2003	Spokane	R	7/2/2003		2420453	869093
543898	R059962	65	2	BNSF		25	43	E	11	SE	SE	2/27/2008	Spokane	R	5/28/2008	35114.0027	2421781	869126
551032 BAS457	R059962	80	6.5	BNSF		25	43	E	11	SE	SE	2/22/2008	Spokane	R	4/25/2008	35114.0027	2421781	869126
543896	R059962	65	4	BNSF GEO ENGINEERS		25	43	E	11	SE	SE	2/27/2008	Spokane	R	5/28/2008	35114.0027	2421781	869126
543900	R059962	80	2	BNSF GEO ENGINEERS		25	43	E	11	SE	SE	2/27/2008	Spokane	R	5/28/2008	35114.0027	2421781	869126
543901	R059962	80	2	BNSF GEO ENGINEERS		25	43	E	11	SE	SE	2/27/2008	Spokane	R	5/28/2008	35114.0027	2421781	869126
543903	R059962	80	2	BNSF GEO ENGINEERS		25	43	E	11	SE	SE	2/27/2008	Spokane	R	5/28/2008	35114.0027	2421781	869126
543905	R059962	80	2	BNSF GEO ENGINEERS		25	43	E	11	SE	SE	2/27/2008	Spokane	R	5/28/2008	35114.0027	2421781	869126
543907	R059962	80	2	BNSF GEO ENGINEERS		25	43	E	11	SE	SE	2/27/2008	Spokane	R	5/28/2008	35114.0027	2421781	869126
543909	R060005	65	4	BNSF RAILWAY GEO ENGINEERS		25	43	E	11	SE	SE	2/25/2008	Spokane	R	5/28/2008	35114.0027	2421781	869126
504422 APN517	R071642	80	6.58	BNSF RAILWAY CO GEOENGINEERS INC.		25	43	E	11	SE	SE	6/28/2007	Spokane	R	12/5/2007	35114.0027	2421781	869126
504424 APA397	R071642	80	6.58	BNSF RAILWAY CO GEOENGINEERS INC.		25	43	E	11	SE	SE	6/28/2007	Spokane	R	12/5/2007	35114.0027	2421781	869126
504425 APA395	R071642	80	6.58	BNSF RAILWAY CO GEOENGINEERS INC.		25	43	E	11	SE	SE	6/28/2007	Spokane	R	12/5/2007	35114.0027	2421781	869126
504427	R071642	80	6.58	BNSF RAILWAY CO GEOENGINEERS INC.		25	43	E	11	SE	SE	6/28/2007	Spokane	R	12/5/2007	35114.0027	2421781	869126
504429 APA293	R071642	80	6.58	BNSF RAILWAY CO GEOENGINEERS INC.		25	43	E	11	SE	SE	6/28/2007	Spokane	R	12/5/2007	35114.0027	2421781	869126
504431 APA292	R071642	80	6.58	BNSF RAILWAY CO GEOENGINEERS INC.		25	43	E	11	SE	SE	6/28/2007	Spokane	R	12/5/2007	35114.0027	2421781	869126
576975 APA354	R053620	79	6	BNSF RAILWAY CO GEO ENGINEERS		25	43	E	11	SE	SE	2/15/2007	Spokane	R	2/21/2007	35114.0027	2421781	869126
576977 APA355	R053620	79	6	BNSF RAILWAY CO GEO ENGINEERS		25	43	E	11	SE	SE	2/15/2007	Spokane	R	2/21/2007	35114.0027	2421781	869126
576979 APA353	R053620	68	6	BNSF RAILWAY CO GEO ENGINEERS		25	43	E	11	SE	SE	2/15/2007	Spokane	R	2/21/2007	35114.0027	2421781	869126
576980 APA370	R053620	68	6	BNSF RAILWAY CO GEO ENGINEERS		25	43	E	11	SE	SE	2/15/2007	Spokane	R	2/21/2007	35114.0027	2421781	869126
688873 BBH840	RE04018	75	6	BNSF Railway Company GeoEngineers		25	43	E	11	SE	SE	12/3/2009	Spokane	R	1/8/2010	35114.1912	2421781	869126
688875 BBH839	RE04018	75	6	BNSF Railway Company GeoEngineers		25	43	E	11	SE	SE	12/3/2009	Spokane	R	1/8/2010	35114.1912	2421781	869126
362214 AHR143	R053427	74.6		BURLINGTON NORTHERN SANTA FE RR THE RETEC GRO		25	43	E	11	SE	SW	6/4/2003	Spokane	R	6/6/2003		2420453	869093
362215 AHR141	R053427	78		BURLINGTON NORTHERN SANTA FE RR THE RETEC GRO		25	43	E	11	SE	SW	6/3/2003	Spokane	R	6/6/2003		2420453	869093
362216 AHR142	R053427	74.6		BURLINGTON NORTHERN SANTA FE RR THE RETEC GRO		25	43	E	11	SE	SW	6/4/2003	Spokane	R	6/6/2003		2420453	869093
150685		120	6	CITY OF SPOKANE		25	43	E	11	NE	NW	11/14/1980	Spokane	W			2420312	873018
150686		78	6	CITY OF SPOKANE		25	43	E	11	NE	NW	11/18/1980	Spokane	W			2420312	873018
150691 AHC998		121		CITY OF SPOKANE		25	43	E	11	SE	NE	1/3/1951	Spokane	W			241734	870429
178339		27	8	CITY OF SPOKANE		25	43	E	11	NE	NE	4/20/1989	Spokane	W			241643	873036
178340		31	8	CITY OF SPOKANE		25	43	E	11	NE	NE	4/14/1989	Spokane	W			241643	873036
178341		35	8	CITY OF SPOKANE		25	43	E	11	NE	NE	4/13/1989	Spokane	W			241643	873036
178342		28	1	CITY OF SPOKANE		25	43	E	11	NE	NE	1/25/1989	Spokane	W			241643	873036
178343	9438	45	1	CITY OF SPOKANE		25	43	E	11	NE	NE	1/25/1989	Spokane	W			241643	873036
565897		45.5	1	CITY OF SPOKANE		25	43	E	11	NE	NE	1/25/1989	Spokane	R	2/21/1989		241643	873036
565899		27	8	CITY OF SPOKANE		25	43	E	11	NE	NE	4/20/1989	Spokane	R	6/1/1989		241643	873036
566891 AAV550	R021177	98	2	City of Spokane		25	43	E	11	SE	NE	9/27/1994	Spokane	R	5/12/1995		241734	870429
566892 AAV547	R021177	80	2	City of Spokane		25	43	E	11	SE	NE	9/27/1994	Spokane	R	5/12/1995		241734	870429
566893 AAV549	R021177	120	2	City of Spokane		25	43	E	11	SE	NE	9/27/1994	Spokane	R	5/12/1995		241734	870429
187204 ABI069	R007602	44	8	GENERAL ELECTRIC (MW18)		25	43	E	11	SW	SW	11/9/1993	Spokane	R			2417797	869026
580483 AEA925	R068811	40	2	GENERAL ELECTRIC GOLDER AND ASSOCIATES		25	43	E	11	SW	SW	9/13/2006	Spokane	R	10/12/2006		2417797	869026
580484 ABI069	R068811	44	2	GENERAL ELECTRIC GOLDER AND ASSOCIATES		25	43	E	11	SW	SW	9/13/2006	Spokane	R	10/12/2006		2417797	869026
189419 AEA923	R017964	71	6	GENERAL ELECTRIC CO.		25	43	E	11	SW	SW	8/31/1998	Spokane	R			2417797	869026
189420 AEA924	R017964	72	6	GENERAL ELECTRIC CO.		25	43	E	11	SW	SW	9/2/1998	Spokane	R			2417797	869026
189421 AEA925	R017964	42	6	GENERAL ELECTRIC CO.		25	43	E	11	SW	SW	9/3/1998	Spokane	R			2417797	869026
189422 AEA937	R017964	70	6	GENERAL ELECTRIC (MW20)		25	43	E	11	SW	SW	7/9/1998	Spokane	R	9/23/1998		2417797	869026
317348 AGT072	R058698	80		PARKWATER RAILROAD YARD		25	43	E	11	SE	SE	11/9/2001	Spokane	R	12/26/2001		2421781	869126
317349 AGT071	R058698	80		PARKWATER RAILROAD YARD		25	43	E	11	SE	SE	11/8/2001	Spokane	R	12/26/2001		2421781	869126
317351 AGT070	R058698	85		PARKWATER RAILROAD YARD		25	43	E	11	SE	SE	11/7/2001	Spokane	R	12/26/2001		2421781	869126
504433 APA290	R071641	80	6.58	BNSF RAILWAY CO GEOENGINEERS INC.		25	43	E	12	SW	SW	6/20/2007	Spokane	R	12/5/2007	35114.0027	2423099	869160
504435 APA291	R071641	80	6.58	BNSF RAILWAY CO GEOENGINEERS INC.		25	43	E	12	SW	SW	6/20/2007	Spokane	R	12/5/2007	35114.0027	2423099	869160
504436 APA396	R071641	80	6.58	BNSF RAILWAY CO GEOENGINEERS INC.		25	43	E	12	SW	SW	6/20/2007	Spokane	R	12/5/2007	35114.0027	2423099	869160

Appendix B (continued). Wells.

Well Log ID	Well Tag Number	Notice of Intent ID	Well Depth	Well Diameter	Well Owner	Township	Range	Range Direction	Section	Ort Section	Ort Ort Section	Well Completion Date	County	Well Type	Well Log Received	Tax Parcel	State Plane X-Coordinate	State Plane Y-Coordinate
566894	AAV560	R021175	80	2	City of Spokane	25	43	E	12	NW	NE	9/2/1994	Spokane	R	5/12/1995		2424271	873125
182450			79	6	KAYO OIL CO.	25	43	E	12	SE	NE	10/20/1986	Spokane	W	4/24/1987		2426981	870582
182452			81	6	KAYO OIL CO.	25	43	E	12	SE	NE	10/16/1986	Spokane	W	4/24/1987		2426981	870582
295263			80	6	KAYO OIL CO.	25	43	E	12	SE	NE		Spokane	R			2426981	870582
295621	AAV560		80		SPOKANE WELLHEAD PROTECTION	25	43	E	12	NW	NE		Spokane	R			2424271	873125
186409		R002821	50		WASHINGTON WATER POWER	25	43	E	12	SW	NE		Spokane	R			2424363	870503
252804	AFL317	R043216	65	6	CONICO INC.	25	43	E	13	NW	NW	4/17/2000	Spokane	R	3/4/2000		2423141	867845
252805	AFL318	R043216	65	6	CONICO INC.	25	43	E	13	NW	NW	4/17/2000	Spokane	R	3/4/2000		2423141	867845
252806	AFL319	R043216	65	6	CONICO INC.	25	43	E	13	NW	NW	4/18/2000	Spokane	R	3/4/2000		2423141	867845
252807	AFL320	R043216	65	6	CONICO INC.	25	43	E	13	NW	NW	4/18/2000	Spokane	R	3/4/2000		2423141	867845
188987	ACP749	R017919	65	6	DOUG BURBEE	25	43	E	13	NW	SE	10/20/1997	Spokane	R	11/3/1997		2424493	866554
188988	ACP750	R017920	65	6	DOUG BURBEE	25	43	E	13	NW	SE	10/21/1997	Spokane	R	11/3/1997		2424493	866554
189311	ACW944	R017920	65	6	DOUG BURBEE	25	43	E	13	NW	SE	10/21/1997	Spokane	R			2424493	866554
498301	ABW407	R017758	35	2	DOUG BURPEE SPOKANE DIESEL	25	43	E	13	NW	SE	11/16/1994	Spokane	R	12/16/1994		2424493	866554
577490	APN508	R053607	80	6	JENISYS ENGINEERING PROD ENVIRONCORP	25	43	E	13	NW	SW	9/8/2006	Spokane	R	10/11/2006		2423179	866522
577491	APN509	R053607	80	6	JENISYS ENGINEERING PROD ENVIRONCORP	25	43	E	13	NW	SW	9/8/2006	Spokane	R	10/11/2006		2423179	866522
577492	APN510	R053607	80	6	JENISYS ENGINEERING PROD ENVIRONCORP	25	43	E	13	NW	SW	9/8/2006	Spokane	R	10/11/2006		2423179	866522
566895	AAL261	R020678	67		SPOKANE DIESEL	25	43	E	13	NW	SE	7/12/1994	Spokane	R	7/19/1994		2424493	866554
566896	AAL262	R020678	67		SPOKANE DIESEL	25	43	E	13	NW	SE	7/12/1994	Spokane	R	7/19/1994		2424493	866554
764833	BHA190	RE06084	70	6	Spokane Exxon Terminal Cardno ERI	25	43	E	13	NW	NE	7/28/2011	Spokane	R	8/8/2011	34160064	2424453	867874
764835	BHA191	RE06084	70	6	Spokane Exxon Terminal Cardno ERI	25	43	E	13	NW	NE	7/28/2011	Spokane	R	8/8/2011	34160064	2424453	867874
764839	BHA098	RE06185	70	6	Spokane Exxon Terminal Cardno ERI	25	43	E	13	NW	NE	8/23/2011	Spokane	R	10/6/2011	34160064	2424453	867874
764841	BCN127	RE06185	70	6	Spokane Exxon Terminal Cardno ERI	25	43	E	13	NW	NE	8/30/2011	Spokane	R	10/6/2011	34160064	2424453	867874
764843	BCN128	RE06185	70	6	Spokane Exxon Terminal Cardno ERI	25	43	E	13	NW	NE	8/25/2011	Spokane	R	10/6/2011	34160064	2424453	867874
551125		R060022	69	2	UNIVAR USA INC	25	43	E	13	NW		9/12/2008	Spokane	R	9/16/2008	35132-0802	2423816	867198
548108	BAS395	R060021	75	2	UNIVAR USA INC ENVORONMENTAL WEST	25	43	E	13	NW		9/12/2008	Spokane	R	10/16/2008	35132-0802	2423816	867198
209064		62490	60		B. J. CARNEY	25	43	E	14	NE	SE	5/23/1991	Spokane	R			2421861	866486
209065		62490			B. J. CARNEY	25	43	E	14	NE	SE	5/22/1991	Spokane	R			2421861	866486
209066		62490			B. J. CARNEY	25	43	E	14	NE	SE	5/25/1991	Spokane	R			2421861	866486
209067		62490			B. J. CARNEY	25	43	E	14	NE	SE	5/26/1991	Spokane	R			2421861	866486
565955			70	4	B.J CARNEY	25	43	E	14	NE	SE	5/23/1991	Spokane	R	6/18/1991		2421861	866486
581702	ALR107	RE01701	79	6.7	MODERN MACHINERY ENVIROCON	25	43	E	14	NW	NW	1/31/2007	Spokane	R	3/30/2007	35142.0003	2417844	867702
189307	ACW940	R017922	68	6	NEVCO INC.	25	43	E	14	NE	SE	10/28/1997	Spokane	R			2421861	866486
566647	ACK350	R043142	60	6	UNION PACIFIC RAILROAD	25	43	E	14	SW	NE	5/10/1999	Spokane	R	5/14/1999		2419253	865088
187319	ABJ912		64	6	UNION PACIFIC RAILWAY	25	43	E	14	SE	SE	7/7/1995	Spokane	W			241936	863836
187320	ABJ913		65	6	UNION PACIFIC RAILWAY	25	43	E	14	SE	SE	7/6/1995	Spokane	W			241936	863836
187321	ABJ914		62	6	UNION PACIFIC RAILWAY	25	43	E	14	SE	SE	7/6/1995	Spokane	W			241936	863836
187322	ABJ915		65	6	UNION PACIFIC RAILWAY	25	43	E	14	SE	SE	7/6/1995	Spokane	W			241936	863836
187323	ABJ916		75	6	UNION PACIFIC RAILWAY	25	43	E	14	SE	SE	7/5/1995	Spokane	W			241936	863836
295742		80	6		VAN WATER & ROGERS	25	43	E	14	NW	NW		Spokane	R			2417844	867702
295743		84	6		VAN WATER & ROGERS	25	43	E	14	NW	NW		Spokane	R			2417844	867702
295744		86	6		VAN WATER & ROGERS	25	43	E	14	NW	NW		Spokane	R			2417844	867702
295745		86	6		VAN WATER & ROGERS	25	43	E	14	NW	NW		Spokane	R			2417844	867702
159918		53187	78	4	VAN WATERS & ROGERS	25	43	E	14	NW	NW	4/9/1991	Spokane	W			2417844	867702
800542	BHP110	RE07212	54	6	Walmart Stores~ Inc Fulcrum Environmental	25	43	E	14	SE	SW	6/22/2012	Spokane	R	6/27/2012	351459001	2420616	863799
800544	BHP109	RE07212	54	6	Walmart Stores~ Inc Fulcrum Environmental	25	43	E	14	SE	SW	6/21/2012	Spokane	R	6/27/2012	351459001	2420616	863799
800546	BHP108	RE07212	54	6	Walmart Stores~ Inc Fulcrum Environmental	25	43	E	14	SE	SW	6/21/2012	Spokane	R	6/27/2012	351459001	2420616	863799
842688	BHP116	RE07212	59	6	Walmart Stores~ Inc Fulcrum Environmental	25	43	E	14	SE	SW	8/13/2012	Spokane	R	8/20/2012	351459001	2420616	863799
566653	AEK201	R035113	105	6	CITY OF SPOKANE	25	43	E	15	SW	NW	8/14/1998	Spokane	R	8/31/1998		2412657	864861
579306	ALR665	R068817	65	2	COLUMBIA PAINT AND MFG	25	43	E	15	SW	SW	3/21/2006	Spokane	R	4/20/2006		2412714	863528
579307	ALR666	R068817	68	2	COLUMBIA PAINT AND MFG	25	43	E	15	SW	SW	3/21/2006	Spokane	R	4/20/2006		2412714	863528
579308	ALR667	R068817	67	2	COLUMBIA PAINT AND MFG	25	43	E	15	SW	SW	3/21/2006	Spokane	R	4/20/2006		2412714	863528
579309	ALR668	R068817	66	2	COLUMBIA PAINT AND MFG	25	43	E	15	SW	SW	3/21/2006	Spokane	R	4/20/2006		2412714	863528
579311	ALR669	R068817	67	2	COLUMBIA PAINT AND MFG	25	43	E	15	SW	SW	3/21/2006	Spokane	R	4/20/2006		2412714	863528
296036	ABJ967		6		CUMMINS QIEND	25	43	E	15	NE	NE		Spokane	R			2416518	867661
178672		8393	77	4	DAMES & MOORE	25	43	E	15	NW	NW	10/12/1989	Spokane	W	10/24/1989		2412600	866193
178673		8393	78	4	DAMES & MOORE	25	43	E	15	NW	NW	10/12/1989	Spokane	W	10/24/1989		2412600	866193
178674		8393	84	4	DAMES & MOORE	25	43	E	15	NW	NW	10/12/1989	Spokane	W	10/24/1989		2412600	866193

Appendix B (continued). Wells

Well Log ID	Well Tag Number	Notice of Intent ID	Well Depth	Well Diameter	Well Owner	Township	Range	Range Direction	Section	Ort Section	Ort Ort Section	Well Completion Date	County	Well Type	Well Log Received	Tax Parcel	State Plane X-	State Plane Y-Coordinate
178675		8393	76	8	DAMES & MOORE	25	43	E	15	NW	SW	10/12/1989	Spokane	W	10/24/1989		2412600	866193
565975			85	4	DAMES & MOORE	25	43	E	15	NW	SW	10/3/1989	Spokane	R	10/24/1989		2412600	866193
409447	AKF116	R067518	72.6		GULL IND	25	43	E	15	SW	SW	3/8/2005	Spokane	R	4/13/2005	5052320	2412714	863528
409449	AKF115	R067518	75.1		GULL IND	25	43	E	15	SW	SW	3/10/2005	Spokane	R	4/13/2005	5052320	2412714	863528
831592	BHP492	RE07810	60	6	Jack Brace	25	43	E	15	SE	SE	11/28/2012	Spokane	R	12/17/2012	35154.3903	2416658	863680
831594	BHP493	RE07810	65	6	Jack Brace Landau Associates	25	43	E	15	SE	SE	11/28/2012	Spokane	R	12/17/2012	35154.3903	2416658	863680
831596	BHP494	RE07810	65	6	Jack Brace Landau Associates	25	43	E	15	SE	SE	11/29/2012	Spokane	R	12/17/2012	35154.3903	2416658	863680
831598	BHP491	RE07810	55	6	Jack Brace Landau Associates	25	43	E	15	SE	SE	11/29/2012	Spokane	R	12/17/2012	35154.3903	2416658	863680
181725		R014491			JELD - WEN	25	43	E	15	SE	NW	6/24/1997	Spokane	R			2415293	864958
154360		W014493	80	6	JELD - WEN ATTN: KAREN OLSEN	25	43	E	15	SE	NW	6/24/1997	Spokane	W			2415293	864958
189635	AEK201	R035113			SABJ #136236. DC. 50	25	43	E	15	SW	NW	8/14/1998	Spokane	R			2412657	864861
189784	AEN475	R043129	40	6	BNSF	25	43	E	16	SW	SW	3/16/1999	Spokane	R	5/6/1999		2407430	863287
189785	AEN476	R043129	20	6	BNSF	25	43	E	16	SW	SW	3/16/1999	Spokane	R	5/6/1999		2407430	863287
189786	AEN477	R043129	20	6	BNSF	25	43	E	16	SW	SW	3/17/1999	Spokane	R	5/6/1999		2407430	863287
189787	AEN478	R043129	65	6	BNSF	25	43	E	16	SW	SW	3/19/1999	Spokane	R	5/6/1999		2407430	863287
189788	AEN479	R043129	15	6	BNSF	25	43	E	16	SW	SW	3/25/1999	Spokane	R	5/6/1999		2407430	863287
189789	AEN480	R043129	77	6	BNSF	25	43	E	16	SW	SW	3/24/1999	Spokane	R	5/6/1999		2407430	863287
189790	AEN481	R043129	19	6	BNSF	25	43	E	16	SW	SW	3/23/1999	Spokane	R	5/6/1999		2407430	863287
189791	AEN482	R043129	40	6	BNSF	25	43	E	16	SW	SW	3/22/1999	Spokane	R	5/6/1999		2407430	863287
952720	BHW560	RE10688	50	6	City Of Spokane	25	43	E	16	SW	SW	12/2/2014	Spokane	R	1/15/2015	CITY ROW	2407430	863287
1022171	BHW564	RE10689	50	2	City Of Spokane	25	43	E	16	SE	SW	12/3/2014	Spokane	R	1/15/2015	351641010	2410073	863409
189651	AEK265	R043133	45	6	TRI WEST COMPANY	25	43	E	16	SW	NW	3/26/1999	Spokane	R			2407379	864619
189652	AEK266	R043133	45	6	TRI WEST COMPANY	25	43	E	16	SW	NW	3/26/1999	Spokane	R			2407379	864619
189653	AEK267	R043133	45	6	TRI WEST COMPANY	25	43	E	16	SW	NW	3/26/1999	Spokane	R			2407379	864619
189654	AEK268	R043133	45	6	TRI WEST COMPANY	25	43	E	16	SW	NW	3/27/1999	Spokane	R			2407379	864619

Appendix B. Kaiser wells

Well Log ID	Well Tag Number	Notice of Intent ID	Well Depth	Well Diameter	Well Owner	Township	Range	Range Direction	Section	Qrt Section	Qrt Qt Section	Well Completion Date	County	Well Type	Well Log Received	Tax Parcel	State Plane X Coordinate	State Plane Y Coordinate
T25N, R44E (Sec 2,3,10,11)																		
392065	AHT901	R053575	90	6	KAISER ALUMINUM	25	44	E	2	SW	NW	9/20/2004	Spokane	R	11/9/2004	2449149	876858	
407755	ALB755	R053584	88	6	KAISER ALUMINUM	25	44	E	2	SW	SW	1/4/2005	Spokane	R	1/28/2005	2449219	875548	
407757	ALB754	R053584	90	6	KAISER ALUMINUM	25	44	E	2	SW	SW	1/4/2005	Spokane	R	1/28/2005	2449219	875548	
407759	ALB753	R053584	90	6	KAISER ALUMINUM	25	44	E	2	SW	SW	1/4/2005	Spokane	R	1/28/2005	2449219	875548	
407761	ALB756	R053584	91	6	KAISER ALUMINUM	25	44	E	2	SW	SW	1/4/2005	Spokane	R	1/28/2005	2449219	875548	
408815	ALB791	R053585	80	2	KAISER ALUMINUM	25	44	E	2	SW	SW	1/29/2005	Spokane	R	2/1/2005	2449219	875548	
523649	R018132	60	Kaiser Aluminum	25	44	E	2	SW	SW	8/16/1995	Spokane	R	8/16/1995	2449219	875548			
523650	R018132	83	Kaiser Aluminum	25	44	E	2	SW	SW	8/16/1995	Spokane	R	8/16/1995	2449219	875548			
523651	R018132	52	Kaiser Aluminum	25	44	E	2	SW	SW	8/16/1995	Spokane	R	8/16/1995	2449219	875548			
523652	R018132	74	Kaiser Aluminum	25	44	E	2	SW	SW	8/16/1995	Spokane	R	8/16/1995	2449219	875548			
523653	R018132	97	Kaiser Aluminum	25	44	E	2	SW	SW	8/16/1995	Spokane	R	8/16/1995	2449219	875548			
523654	R018132	97.6	Kaiser Aluminum	25	44	E	2	SW	SW	8/16/1995	Spokane	R	8/16/1995	2449219	875548			
523655	R018132	95	Kaiser Aluminum	25	44	E	2	SW	SW	8/16/1995	Spokane	R	8/16/1995	2449219	875548			
580467	AKY201	R053595	85	6	KAISER ALUMINUM	25	44	E	2	SW	SW	5/18/2005	Spokane	R	7/12/2005	2449219	875548	
580468	AKY202	R053595	85	6	KAISER ALUMINUM	25	44	E	2	SW	SW	5/18/2005	Spokane	R	7/12/2005	2449219	875548	
155280		118	6 KAISER ALUMINUM - TRENTWOOD WORKS	25	44	E	2	SW	NW	1/21/1985	Spokane	W			2449149	876858		
577462	APN549	R068802	90	2	KAISER ALUMINUM HART CROWSER	25	44	E	2	SW	SW	2/16/2006	Spokane	R	3/23/2006	2449219	875548	
577463	APN550	R068802	90	2	KAISER ALUMINUM HART CROWSER	25	44	E	2	SW	SW	2/16/2006	Spokane	R	3/23/2006	2449219	875548	
372297	AHR167	R053446	91	KAISER ALUMINUM AND CHEMICAL CORP	25	44	E	2	SW	SW	9/26/2003	Spokane	R	11/25/2003	2449219	875548		
372298	AHR168	R053446	150	KAISER ALUMINUM AND CHEMICAL CORP	25	44	E	2	SW	SW	10/1/2003	Spokane	R	11/25/2003	2449219	875548		
372299	AHR199	R053447	91	KAISER ALUMINUM AND CHEMICAL CORP	25	44	E	2	SW	NW	10/5/2003	Spokane	R	11/25/2003	2449149	876858		
372300	AHR166	R053447	91	KAISER ALUMINUM AND CHEMICAL CORP	25	44	E	2	SW	NW	9/28/2003	Spokane	R	11/25/2003	2449149	876858		
155281		112	6 KAISER ALUMINUM CORP.	25	44	E	2	SE	NE	2/3/1981	Spokane	W	4/1/1981	2453126	877013			
617386	BA5448	RE03764	90	6	Kaiser Aluminum Fabricated Product Hart Crowser Inc.	25	44	E	2	SW	NW	9/29/2009	Spokane	R	10/26/2009	45116.9	2449149	876858
617388	BA5449	RE03764	90	6	Kaiser Aluminum Fabricated Product Hart Crowser Inc.	25	44	E	2	SW	NW	9/29/2009	Spokane	R	10/26/2009	45116.9	2449149	876858
467052		150	2 KAISER ALUMINUM PROD LLC	25	44	E	2	SW	SW	9/5/2006	Spokane	R	2/6/2007	45116.9	2449219	875548		
574709	APK362	R053608	6	KAISER ALUMINUM PROD LLC	25	44	E	2	SW	SW	9/5/2006	Spokane	R	12/11/2006	45116.9	2449219	875548	
574711	APK360	R053608	90	6 KAISER ALUMINUM PROD LLC	25	44	E	2	SW	SW	9/5/2006	Spokane	R	12/11/2006	45116.9	2449219	875548	
484040	ALR700	R053645	90	2 KAISER ALUMINUM PROD LLC GEO ENGINEERS	25	44	E	2	SW	SW	6/7/2007	Spokane	R	6/15/2007	45116.9	2449219	875548	
574707	APN507	R053608	80	6 KAISER ALUMINUM PROD LLC HART CROWSER	25	44	E	2	SW	SW	9/5/2006	Spokane	R	12/11/2006	45116.9	2449219	875548	
574708		150	6 KAISER ALUMINUM PROD LLC HART CROWSER	25	44	E	2	SW	SW	9/5/2006	Spokane	R	12/11/2006	45116.9	2449219	875548		
574710	APK361	R053608	90	6 KAISER ALUMINUM PROD LLC HART CROWSER	25	44	E	2	SW	SW	9/5/2006	Spokane	R	12/11/2006	45116.9	2449219	875548	
574712	APK359	R053608	90	6 KAISER ALUMINUM PROD LLC HART CROWSER	25	44	E	2	SW	SW	9/5/2006	Spokane	R	12/11/2006	45116.9	2449219	875548	
155289		120	6 KAISER ALUMINUM TRENYWOOD WORKS	25	44	E	2	SE	NE	10/11/1979	Spokane	W			2453126	877013		
161325	ABV294	W016252	70	12 KAISER TRENTWOOD	25	44	E	2	SW	SW	10/14/1994	Spokane	W			2449219	875548	
161326	ABV295	W016419	189	24 KAISER TRENTWOOD	25	44	E	2	SW	SW	12/19/1994	Spokane	W			2449219	875548	
161327	ABV296	W016257	94	12 KAISER TRENTWOOD	25	44	E	2	SW	SW	1/6/1995	Spokane	W	9/8/1995		2449219	875548	
182407		R036782	KAISER			25	44	E	3	SE	SE		Spokane	R		2447899	875498	
209450		R036782	KAISER ALUMINUM			25	44	E	3	SE	SE		Spokane	R		2447899	875498	
574486	APN547	R068801	94	2 KAISER ALUMINUM HART CROWSER	25	44	E	3	SE	SE	2/14/2006	Spokane	R	3/23/2006	2447899	875498		
574487	APN548	R068801	150	2 KAISER ALUMINUM HART CROWSER	25	44	E	3	SE	SE	2/14/2006	Spokane	R	3/23/2006	2447899	875498		
574488	APN548	R068801	89	2 KAISER ALUMINUM HART CROWSER	25	44	E	3	SE	SE	2/14/2006	Spokane	R	3/23/2006	2447899	875498		
484041	APA389	R053646	90	6 KAISER ALUMINUM PROD LLC GEO ENGINEERS	25	44	E	3	SE	SE	6/8/2007	Spokane	R	6/15/2007	45116.9	2447899	875498	

Appendix B (continued). Kaiser wells

Well Log ID	Well Tag Number	Notice of Intent ID	Well Depth	Well Diameter	Well Owner	Township	Range	Range Direction	Section	Qrt Section	Qrt Qt Section	Well Completion Date	County	Well Type	Well Log Received	Tax Parcel	State Plane X-Coordinate	State Plane Y-Coordinate
T25N, R44E (Sec 2,3,10,11)																		
155286			120	6	KAISER ALUMINUM TRENTWOOD WORKS	25	44	E	3	SE	SE	10/9/1979	Spokane	W	11/7/1979		2447899	875498
155287			90	6	KAISER ALUMINUM TRENTWOOD WORKS	25	44	E	3	SE	SE	10/2/1979	Spokane	W			2447899	875498
155284			115	6	KAISER ALUMINUM TRENTWOOD WORKS	25	44	E	10	NE	NE	9/27/1979	Spokane	W			2447963	874179
182409	58832		84	6	KAISER ALUM. TRENTWOOD PLANT	25	44	E	11	NW	NE	8/19/1992	Spokane	W			2450611	874277
392051	AHT905	R053576	85	6	KAISER ALUMINUM	25	44	E	11	NW	NE	10/13/2004	Spokane	R	11/9/2004		2450611	874277
392052	AHT904	R053576	85	6	KAISER ALUMINUM	25	44	E	11	NW	NE	10/12/2004	Spokane	R	11/9/2004		2450611	874277
392054	AHT914	R053576	85	6	KAISER ALUMINUM	25	44	E	11	NW	NE	10/12/2004	Spokane	R	11/9/2004		2450611	874277
392056	AHT903	R053576	86	6	KAISER ALUMINUM	25	44	E	11	NW	NE	9/28/2004	Spokane	R	11/9/2004		2450611	874277
392058	AHT902	R053576	90	6	KAISER ALUMINUM	25	44	E	11	NW	NE	9/27/2004	Spokane	R	11/9/2004		2450611	874277
392060	AHT957	R053576	90	6	KAISER ALUMINUM	25	44	E	11	NW	NE	9/24/2004	Spokane	R	11/9/2004		2450611	874277
392061	AHT958	R053576	90	6	KAISER ALUMINUM	25	44	E	11	NW	NE	9/23/2004	Spokane	R	11/9/2004		2450611	874277
392063	AHT956	R053576	90	6	KAISER ALUMINUM	25	44	E	11	NW	NE	9/23/2004	Spokane	R	11/9/2004		2450611	874277
449015	AKY259	R068804	90	2	KAISER ALUMINUM	25	44	E	11	SE	SE	2/22/2006	Spokane	R	3/23/2006		2453467	870413
209465		75089			KAISER PLANT TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209466		75089			KAISER PLANT TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209467		75089			KAISER PLANT TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209468		75089			KAISER PLANT TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209469		75089			KAISER PLANT TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209470		75089			KAISER PLANT TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209471		75089			KAISER PLANT TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209472		75089			KAISER PLANT TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209473		75089			KAISER PLANT TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209474		75089			KAISER PLANT TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209475		75089			KAISER PLANT TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209476		75089			KAISER PLANT TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209477		84123			KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R	12/20/1991		2453398	871732
209478		84123			KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R	12/20/1991		2453398	871732
209479		84123			KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R	12/20/1991		2453398	871732
209480		84123			KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R	12/20/1991		2453398	871732
209481		84123			KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R	12/20/1991		2453398	871732
209482		84123			KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R	12/20/1991		2453398	871732
209483		84123			KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R	12/20/1991		2453398	871732
209484		84123			KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R	12/20/1991		2453398	871732
209485		84123			KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R	12/20/1991		2453398	871732
209486		84123			KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R	12/20/1991		2453398	871732
209487		84123			KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R	12/20/1991		2453398	871732
209488		84123			KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R	12/20/1991		2453398	871732
209489					KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209490					KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209491					KAISER TRENTWOOD	25	44	E	11	SE	NE		Spokane	R			2453398	871732
209492		75118			KAISER TRENTWOOD	25	44	E	11	SE	NE	2/23/1991	Spokane	R			2453398	871732
209493		62497			KAISER TRENTWOOD	25	44	E	11	SE	NE	6/7/1991	Spokane	R			2453398	871732
209494		62497			KAISER TRENTWOOD	25	44	E	11	SE	NE	6/9/1991	Spokane	R			2453398	871732
209495		62497			KAISER TRENTWOOD	25	44	E	11	SE	NE	6/8/1991	Spokane	R			2453398	871732
209496		62497			KAISER TRENTWOOD	25	44	E	11	SE	NE	6/6/1991	Spokane	R			2453398	871732
209497		62497			KAISER TRENTWOOD	25	44	E	11	SE	NE	6/10/1991	Spokane	R			2453398	871732