June 18, 2019 Reference No. 11145847

Mr. Ted Uecker
Washington State Department of Ecology
Eastern Regional Office
4601 N. Monroe Street, Suite 202
Spokane, Washington 99205

Dear Mr. Uecker:

**Re: Site Assessment Work Plan**
**Phillips 66 Facility No. 6880**
**Geiger Corrections Facility**
**Spokane, Washington**
**Facility/Site No. 663**
**VCP Project No. EA0263**

GHD is submitting this *Site Assessment Work Plan* on behalf of Phillips 66 Company (P66) for the purpose of collecting the additional information necessary to complete the site characterization in accordance with Washington Administrative Code (WAC) 173-340-350 at the P66 Geiger Corrections Facility, located at the northwest corner of South Spotted Road and Will D Alton Road, Spokane, Spokane County, Washington (Property; Figure 1). The scope of work detailed below is based on the findings of GHD's *Remedial Investigation (RI) Report*, dated December 19, 2018, and Washington State Department of Ecology's (Ecology's) *Further Action* letter, dated January 22, 2019.

The Property currently consists of a Yellowstone Pipeline (YPL) Company pipeline easement within a minimum security prison, Geiger Corrections Center (Figure 2). The 3-inch YPL was constructed in 1968 and enters the Property near the intersection of South Spotted Road and West Will D Alton Road.

A review of previous site investigations and boring logs indicates that the site is underlain by aeolian silt and sand, and fluvial deposits of silt, sand, and gravel underlain by basalt to a maximum explored depth of 101 feet below ground surface (bgs). Basalt has been encountered at the Site at depths ranging from 3 to 37 feet bgs. Additionally, a scour channel fill deposit, consisting of fine to coarse sand and gravel lenses, is located on the central portion of the site (Figure 2). The scour channel fill deposit is underlain by competent to fractured basalt bedrock.

Shallow groundwater at the Site is present between approximately 2 to 6.5 feet bgs, and predominantly flows towards the northeast. The depth to water in the deeper water bearing zone at the site is present between 26 and 39 feet bgs. The groundwater flow for the deeper water bearing zone has historically been variable; however, in 2018 the flow was predominantly observed to be toward the northwest.

Based on previous investigations, concentrations of petroleum constituents exceeding applicable Model Toxics Control Act (MTCA) Method A cleanup levels have been identified in shallow soil, and shallow and deep groundwater immediately surrounding the YPL and to the west of the YPL, within the scour channel fill deposit. Ecology's MTCA site (Site) is defined as all affected areas from the

petroleum release associated with the Property. Based on the results of the RI completed by GHD in December 2018, the Site boundary is presented on Figure 2. For additional information regarding the Site history and remedial activities performed at the Site please refer to GHD's *Remedial Investigation* report, dated December 19, 2018.

# 1. Objectives and Scope

The objectives and scope of this site assessment are as follows:

- Delineate the extent of shallow and deep groundwater impacts at the Site to adequately define the Site boundary
- Evaluate current soil conditions in the vicinity of historical soil impacts
- Evaluate shallow soil conditions near occupied buildings for future vapor intrusion evaluation
- Delineate the vertical extent of soil impacts at the Site
- Collect the appropriate soil data to calculate site-specific MTCA Method B direct contact soil cleanup levels
- Gather appropriate data to allow for evaluation of potential remedial alternatives at the Site

Historical groundwater data are provided in Tables 1A and 1B, and historical soil data are provided in Table 2. Historical soil data, and historical soil and groundwater extents are provided on Figure 2.

# 2. Pre-field Activities

GHD will complete the following pre-field activities:

## 2.1 Health and Safety Plan

GHD will prepare a Site-specific Health and Safety Plan (HASP) in accordance with federal regulations (Title 40, Code of Federal Regulations, Section 1910.120). The HASP will identify potential physical and chemical hazards associated with the proposed field activities and will outline safe work practices.

## 2.2 Underground Utility Clearance

- Prior to any Site work involving soil disturbance, Washington State One Call Utility Notification Service will be called to alert the utility companies in the area of the scheduled work and to request identification of all underground utilities in the vicinity of the disturbance area. A private utility locating contractor will be retained to mark private utilities and to verify the absence of all underground utilities near each of the proposed boring locations.

  To further mitigate the chances of encountering a subsurface utility, each soil boring will be hand cleared to a depth of 5 feet bgs using a hand auger, air knife, or other appropriate method.

# 3. Investigation Activities

## 3.1 Soil Assessment

Seven soil borings (A through G) will be advanced to further characterize soil and groundwater impacts at the Site. The borings will be advanced by a Washington State licensed driller using a vacuum truck and/or sonic drill rig. Boring locations A through C will be completed as monitoring wells. The locations of the proposed borings are presented on Figure 2. The table below outlines sample location, sample depth, proposed well depth, purpose, and selected analysis per boring location.

**Table 3.1 Soil Boring Plan**

| Proposed Boring | Anticipated Soil Samples Per Boring | Anticipated Total Depth / Well Details | Purpose | Soil Analysis |
|---|---|---|---|---|
| A and B | Up to 2 samples:<br>1 sample at 6 feet bgs<br>1 sample at the water table | 15 feet bgs<br>Final depth based on field screening and depth to water<br>10 feet of well screen | Evaluate shallow groundwater bearing zone conditions and define MTCA boundary down gradient[1] of historical impacts | TPHg, TPHd, TPHo, BTEX, and naphthalene |
| C | Up to 3 samples:<br>1 sample at shallow water table<br>1 sample at deep water table<br>1 sample in vadose zone between water bearing zones | 40 feet bgs<br>Final depth based on field screening and depth to water<br>10 feet of well screen | Evaluate deep groundwater bearing zone conditions and define MTCA boundary down gradient[2] of historical impacts | TPHg, TPHd, TPHo, BTEX, and naphthalene |

| Proposed Boring | Anticipated Soil Samples Per Boring | Anticipated Total Depth | Purpose | Soil Analysis |
|---|---|---|---|---|
| D through F | Up to 2 samples:<br>1 sample at 6 feet bgs<br>1 sample at the water table | 10 feet bgs | Evaluate current soil conditions near historical soil sample locations GCC 29, GCC 21, and GCC 15 | TPHg, TPHd, TPHo, BTEX, naphthalene<br>VPH/EPH, n-hexane, and cPAHs analysis (1 sample from each boring based on field screening) |
| G | Up to 3 samples:<br>1 sample in the vadose zone<br>1 sample at 35 feet bgs<br>1 sample at 40 feet bgs | 40 feet bgs | Delineate vertical historical soil impacts near MW-5 | TPHg, TPHd, TPHo, BTEX, naphthalene |

bgs = below ground surface
TPHg = Gasoline range organics per Method Northwest Total Petroleum Hydrocarbon Identification (NWTPH) Gx
TPHd = Diesel range organics per Method Northwest Total Petroleum Hydrocarbon Identification (NWTPH) Dx
TPHo = Oil range organics per Method Northwest Total Petroleum Hydrocarbon Identification (NWTPH) Dx
BTEX = Benzene, Toluene, Ethylbenzene and Xylenes per EPA Method 8260B
Naphthalene = per EPA Method 8260B
cPAH = Carcinogenic polycyclic aromatic hydrocarbons per EPA Method 8270SIM
EPH = Extractable Petroleum Hydrocarbons per NWTPH EPH
VPH = Volatile Petroleum Hydrocarbons per NWTPH VPH
n-hexane per EPA Method 8260B
1 = Shallow groundwater migration predominately has been observed to the northeast
2 = Deep groundwater migration predominately has been observed to the northwest

### 3.2 Soil Sampling and Logging

The first 5 feet of all borings will be advanced using an air knife and vacuum truck and/or hand auger in order to further mitigate contact and damage to potential subsurface utility lines. The borings will then be advanced by a sonic drill rig to the depths noted above. Borings A through C will be completed as groundwater monitoring wells. Remaining borings will be backfilled with Portland Type II cement and finished to grade to match the surrounding surface.

Soil will be continuously logged during the first 5 feet and then every 5 feet below that using the modified Unified Soil Classification System. Soil samples will be screened at 5 foot intervals using a photo ionization detector (PID) and visual inspection. Soil samples will be collected in accordance with Table 3.1 above. Soil samples submitted for chemical analyses will be labeled, entered onto a chain of custody form, packed on ice, and sent to Eurofins Lancaster Laboratory of Lancaster, Pennsylvania.

### 3.3 Monitoring Well Installation

Soil borings A through C will be completed as monitoring wells. The final depths are estimated to be 15 feet bgs (location A and B) and 40 feet bgs (location C). The wells will be constructed with 2-inch Schedule 40, polyvinyl chloride (PVC), with a 0.010-inch slot screen, flush threaded with PVC blank well casing from the top of the screen to the top of the well. The well annulus will be backfilled with a

12/20 silica sand pack to a minimum of 1 foot above the top of the screen and sealed with a minimum of 1 foot of hydrated bentonite chips above the filter pack then filled with a mixture of neat Portland Type II cement with up to 5 percent bentonite powder. The surface of the wells will be completed with flush mount, traffic rated well boxes.

The wells will be developed following installation by surging the well screen with a surge block for 5-10 minutes followed by pumping on the well with a monsoon-style down-hole pump. Grab samples will be collected and analyzed for turbidity with a calibrated field turbidity meter after each well volume. Well development will be considered complete when turbidity is below 100 NTU or when the well has pumped dry.

The new wells will be surveyed by a licensed surveyor to determine the horizontal coordinates and vertical elevation of the top of well casing.

### 3.4 Investigation Derived Waste

Investigation derived waste (IDW) will include decontamination fluids, soil from borings, and purged well water. All IDW will be placed in properly labeled 55-gallon drums and stored on site pending analyses. All IDW will be disposed of according to P66 procedures and applicable regulatory requirements.

### 3.5 Groundwater Sampling

To establish points of compliance, the newly installed monitoring wells will be gauged and sampled a minimum of four consecutive quarters if analytes are detected but below MTCA Method A cleanup levels.

## 4. Reporting and Scheduling

Following completion of the above activities and receipt of laboratory analytical data, GHD will prepare a site investigation report that will include the following:

- A summary of soil boring and well installation activities
- Boring logs with well completion details
- Tabulated analytical results for soil and groundwater sampling
- Laboratory analytical reports and chain of custody forms for soil samples
- Summary of waste disposal
- GHD's conclusions and recommendations

GHD will begin the proposed work upon receipt of Ecology's approval of this work plan. GHD will submit a report of findings approximately 60 days following receipt of all final analytical data.

Please contact Moshghan Mansoori at (425) 563-6516 if you have any questions or require additional information.

Sincerely,

GHD

Heather Gadwa, LG

Christina McClelland, LG

Moshghan Mansoori

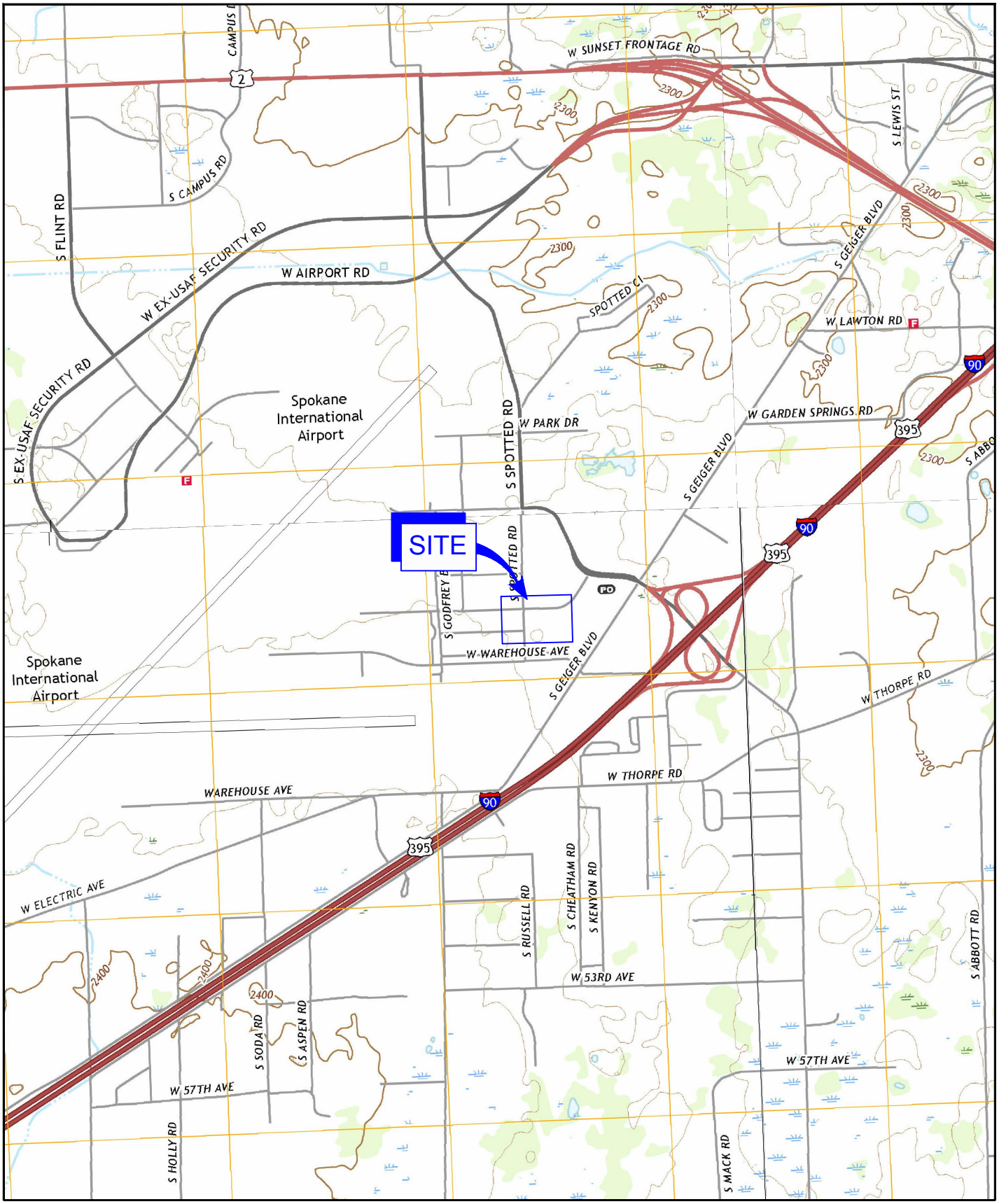
MM/md/1

Encl.

| | | |
|---|---|---|
| | Figure 1 | Site Location Map |
| | Figure 2 | Proposed Investigation Map |
| | Table 1A | Summary of Groundwater Monitoring Data – Shallow Wells |
| | Table 1B | Summary of Groundwater Monitoring Data – Deep Wells |
| | Table 2 | Summary of Soil Analytical Data |

cc: Mr. Rich Solomon, P66 (electronic copy)
Ms. Kathy Reimer, Spokane Airport Business Park (electronic copy)

# Figures




Source: USGS QUADRANGLE MAPS: SPOKANE NW, WA. (2017)., SPOKANE SW, WA. (2017)., FOUR LAKES, WA. (2017)., & AIRWAY HEIGHTS, WA. (2017).

0 1000 2000ft

Coordinate System:
WASHINGTON NORTH
STATE PLANE NAD83 FEET

PHILLIPS 66 FACILITY NO. 6880
GEIGER CORRECTIONS FACILITY
SPOKANE, WASHINGTON

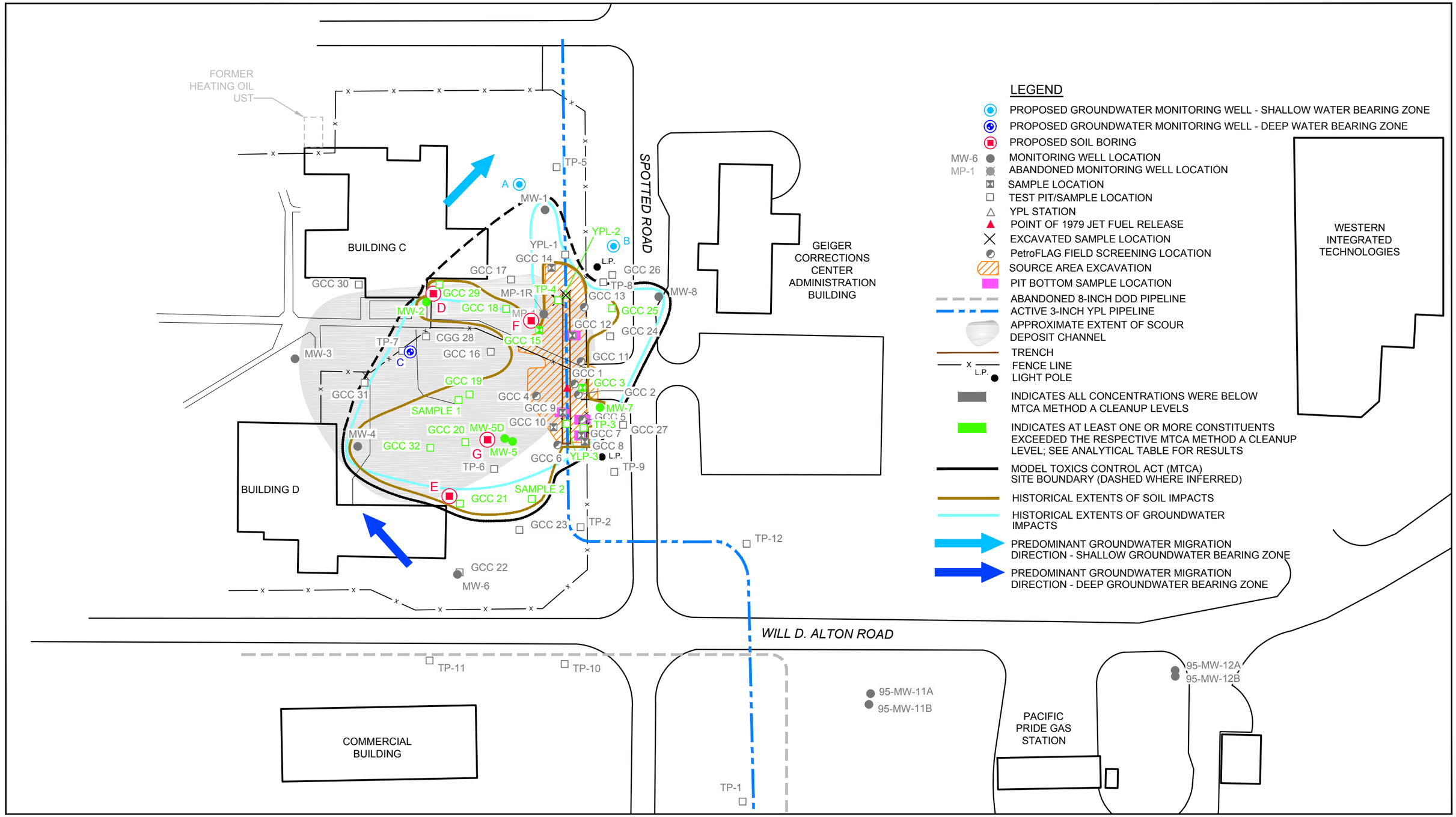
11145847-6RM00

Apr 18, 2019

SITE LOCATION MAP

FIGURE 1

CAD File: I:\Sonoma.Public\CAD\drawings\11140000s\11145847\11145847-MEMO\11145847-6RM00(MEMO001)GN\11145847-6RM00(MEMO001)GN-SO001.DWG




Source: Microsoft Product Screen Shot(s) Reprinted with permission from Microsoft Corporation, Acquisition Date Jun/2015 - Sep/2016, Accessed: 2017. Google ©2017 Image. AECOM SITE PLAN AND WELL LOCATIONS DATED 2/7/2014. MAXIM Technologies, Inc. Figures 3 and 4 dated July 2001.

0 40 80ft

PHILLIPS 66 FACILITY NO. 6880
GEIGER CORRECTIONS FACILITY
SPOKANE, WASHINGTON

11145847-6RM00

Apr 26, 2019

# PROPOSED SOIL INVESTIGATION MAP

FIGURE 2

CAD File: I:\Sonoma.Public\CAD\drawings\11140000s\11145847\11145847-MEMO\11145847-6RM00(MEMO001)GN\11145847-6RM00(MEMO001)GN-SO002.DWG

# Tables

**Summary of Groundwater Monitoring Data - Shallow Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Screening Levels (Shallow GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MP-1** | 08/20/01 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MP-1** | 11/30/01 | N | --- | --- | --- | --- | --- | **50,300** | <750 | <0.50 | <2.0 | <1.0 | <1.5 | **990** |
| **MP-1** | 03/25/02 | N | --- | --- | --- | --- | --- | **9,650** | <750 | <0.50 | <2.0 | 1.9 | 23 | **599** |
| **MP-1** | 06/04/02 | N | --- | --- | --- | --- | --- | **39,700** | <500 | <0.50 | <2.0 | 1.9 | <1.5 | **353** |
| **MP-1** | 08/20/02 | N | --- | --- | --- | --- | --- | **19,100** | <500 | <0.50 | <2.0 | 1.1 | 13 | **223** |
| **MP-1** | 10/29/02 | N | --- | --- | --- | --- | --- | **20,900** | <500 | <0.50 | <2.0 | 1.2 | 13 | **413** |
| **MP-1** | 02/19/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | 4.2 | 62 |
| **MP-1** | 06/05/03 | N | --- | --- | --- | --- | --- | **9,950** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | **268** |
| **MP-1** | 09/09/03 | N | --- | --- | --- | --- | --- | **8,430** | <500 | <0.50 | <2.0 | <1.0 | 17 | **459** |
| **MP-1** | 12/10/03 | N | --- | --- | --- | --- | --- | **13,600** | <500 | <0.50 | <2.0 | <1.0 | 5.9 | **184** |
| **MP-1** | 06/03/04 | N | --- | --- | --- | --- | --- | **16,800** | <500 | <0.50 | <2.0 | <1.0 | 9.5 | **246** |
| **MP-1** | 12/01/04 | N | --- | --- | --- | --- | --- | **14,800** | <500 | <0.50 | <2.0 | 1.7 | 16 | **246** |
| **MP-1** | 06/03/05 | N | --- | --- | --- | --- | --- | **17,400** | <500 | <0.50 | <2.0 | 3.1 | 29 | **178** |
| **MP-1** | 11/21/05 | N | --- | --- | --- | --- | --- | **9,900** | 500 | <0.50 | <2.0 | <1.0 | 17 | 32 |
| **MP-1** | 06/15/06 | N | --- | --- | --- | --- | --- | **11,200** | <500 | <0.50 | <2.0 | <1.0 | 18 | <20 |
| **MP-1** | 12/19/06 | N | --- | --- | --- | --- | --- | **2,700** | <500 | <0.50 | <2.0 | <1.0 | 7.2 | 114 |
| **MP-1** | 05/30/07 | N | --- | --- | --- | --- | --- | **6,100** | <500 | <0.50 | <2.0 | <1.0 | 19 | 120 |
| **MP-1** | 10/30/07 | removed from sampling schedule due to well obstruction | | | | | --- | --- | --- | --- | --- | --- | --- | --- |
| **MP-1** | 02/02/11 | --- | 2,354.90 | 3.96 | --- | 2350.94 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MP-1** | 04/26/11 | --- | 2,354.90 | 4.20 | --- | 2350.70 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MP-1** | 07/12/11 | --- | 2,354.90 | DRY | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MP-1** | 10/28/11 | --- | 2,354.90 | Obstruction in Well at 4.59 Feet | | | | --- | --- | --- | --- | --- | --- | --- |
| **MP-1** | 10/09/13 | --- | 2,354.90 | Well Decommissioned | | | --- | --- | --- | --- | --- | --- | --- | --- |

**Summary of Groundwater Monitoring Data - Shallow Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Screening Levels (Shallow GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MP-1R** | 10/12/13 | N | 2,354.78 | 4.86 | --- | 2349.92 | **3,210** | **1,200** | <400 | <1.0 | <1.0 | <1.0 | 13.9 | 16.3 |
| **MP-1R** | 03/11/14 | N | 2,354.78 | 2.15 | --- | 2352.63 | **1,260** | 500 | 500 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MP-1R** | 03/11/14 | FD | --- | --- | --- | --- | **1,300** | **520** | **640** | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MP-1R** | 06/03/14 | N | 2,354.78 | 4.95 | --- | 2349.83 | **3,890** | **1,400** | <420 | <1.0 | <1.0 | <1.0 | 13.5 | 10.6 |
| **MP-1R** | 04/06/17 | N | 2,354.78 | 3.58 | --- | 2351.20 | 430 | 290 | 110 J | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 |
| **MP-1R** | 04/06/17 | FD | --- | --- | --- | --- | 450 | 250 | 80 J | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 |
| **MP-1R** | 09/14/17 | N | 2,354.78 | 4.79 | --- | 2,349.99 | **2,200** | **1,400** | 140 J | <1 | <1 | <1 | <1 | 5 |
| **MP-1R** | 03/21/18 | N | 2354.78 | 3.88 | --- | 2350.90 | 540 | 280 | <260 | --- | --- | --- | --- | --- |
| **MP-1R** | 06/21/18 | N | 2354.78 | 4.79 | --- | 2349.99 | **1,900** | **1,500** | <270 | --- | --- | --- | --- | --- |
| **MP-1R** | 06/21/18 | FD | --- | --- | --- | --- | **1,900** | **1,400** | <260 | --- | --- | --- | --- | --- |
| **MP-1R** | 09/21/18 | N | 2354.78 | 4.91 | --- | 2349.87 | **1,600** | **1,400** | <270 | --- | --- | --- | --- | --- |
| **MP-1R** | 12/06/18 | N | 2354.78 | 4.27 | --- | 2350.51 | **2,800** | **1,400** | <260 | --- | --- | --- | --- | --- |
| **MP-1R** | 03/06/19 | N | 2354.78 | 4.31 | --- | 2350.47 | 700 | 360 | <260 | --- | --- | --- | --- | --- |
| **MP-1R** | 03/06/19 | FD | 2354.78 | 4.31 | --- | 2350.47 | 710 | 380 | <260 | --- | --- | --- | --- | --- |
| **MW-2** | 08/20/01 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-2** | 03/25/02 | N | --- | --- | --- | --- | --- | **19,800** | <750 | <0.50 | <2.0 | <1.0 | 11 | **216** |
| **MW-2** | 06/04/02 | N | --- | --- | --- | --- | --- | **22,100** | <500 | <0.50 | <2.0 | <1.0 | 8.2 | **1,320** |
| **MW-2** | 08/20/02 | N | --- | --- | --- | --- | --- | **4,970** | <500 | <0.50 | <2.0 | <1.0 | 6.7 | 156 |
| **MW-2** | 10/29/02 | N | --- | --- | --- | --- | --- | **13,700** | <500 | <0.50 | <2.0 | <1.0 | 6.1 | **199** |
| **MW-2** | 10/29/02 | FD | --- | --- | --- | --- | --- | **15,400** | <500 | <0.50 | <2.0 | <1.0 | 9.3 | **328** |
| **MW-2** | 02/19/03 | N | --- | --- | --- | --- | --- | **10,400** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 140 |
| **MW-2** | 06/05/03 | N | --- | --- | --- | --- | --- | **4,570** | <500 | <0.50 | <2.0 | <1.0 | 2.0 | 134 |
| **MW-2** | 06/05/03 | FD | --- | --- | --- | --- | --- | **4,320** | <500 | <0.50 | <2.0 | <1.0 | 2.4 | **182** |
| **MW-2** | 09/09/03 | N | --- | --- | --- | --- | --- | **2,560** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | **203** |
| **MW-2** | 09/09/03 | FD | --- | --- | --- | --- | --- | **2,440** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | **204** |

**Summary of Groundwater Monitoring Data - Shallow Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Screening Levels (Shallow GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-2** | 12/10/03 | N | --- | --- | --- | --- | --- | **42,100** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | **282** |
| **MW-2** | 06/03/04 | N | --- | --- | --- | --- | --- | **6,000** | <500 | <0.50 | 2.6 | <1.0 | 6.0 | **162** |
| **MW-2** | 06/03/04 | FD | --- | --- | --- | --- | --- | **6,500** | <500 | <0.50 | 2.1 | <1.0 | 5.4 | **170** |
| **MW-2** | 12/01/04 | N | --- | --- | --- | --- | --- | **2,410** | <500 | <0.50 | <2.0 | <1.0 | 5.2 | 38 |
| **MW-2** | 06/03/05 | N | --- | --- | --- | --- | --- | **2,810** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 129 |
| **MW-2** | 06/03/05 | FD | --- | --- | --- | --- | --- | **2,910** | <500 | <0.50 | <2.0 | <1.0 | 5.2 | 129 |
| **MW-2** | 11/21/05 | N | --- | --- | --- | --- | --- | **3,440** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 24 |
| **MW-2** | 11/21/05 | FD | --- | --- | --- | --- | --- | **3,680** | 500 | <0.50 | <2.0 | <1.0 | <1.5 | 23 |
| **MW-2** | 06/15/06 | N | --- | --- | --- | --- | --- | **2,750** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-2** | 06/16/06 | FD | --- | --- | --- | --- | --- | **11,200** | <500 | <0.50 | <2.0 | <1.0 | 18 | <20 |
| **MW-2** | 12/19/06 | N | --- | --- | --- | --- | --- | **2,340** | <500 | <0.50 | <2.0 | <1.0 | 2.6 | 95 |
| **MW-2** | 05/30/07 | N | --- | --- | --- | --- | --- | **2,790** | <500 | <0.50 | <2.0 | <1.0 | 1.7 | 98 |
| **MW-2** | 10/30/07 | N | --- | --- | --- | --- | **2,600** | **1,800** | 140 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |
| **MW-2** | 06/24/08 | N | --- | --- | --- | --- | **1,600** | **830** | <94 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |
| **MW-2** | 12/03/08 | N | --- | --- | --- | --- | **1,800** | **700** | <69 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |
| **MW-2** | 06/03/09 | N | --- | --- | --- | --- | **1,730** | **620** | <58 | <0.12 | <0.21 | <0.20 | <0.15 | --- |
| **MW-2** | 11/10/09 | N | --- | --- | --- | --- | **2,230** | **821** | <379 | <1.0 | <1.0 | <1.0 | <3.0 | 3.2 |
| **MW-2** | 02/02/10 | N | --- | --- | --- | --- | **1,450** | **940** | <388 | <1.0 | <1.0 | <1.0 | <3.0 | 3.9 |
| **MW-2** | 05/18/10 | N | --- | --- | --- | --- | **1,330** | **1,870** | <392 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-2** | 08/09/10 | N | --- | --- | --- | --- | **1,200** | **831** | <396 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-2** | 11/01/10 | N | --- | --- | --- | --- | **1,680** | **2,080** | <388 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-2** | 02/02/11 | N | --- | --- | --- | --- | **1,700** | **1,170** | <385 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-2** | 04/26/11 | N | --- | --- | --- | --- | **3,280** | **562** | <392 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-2** | 07/12/11 | N | --- | --- | --- | --- | **1,020** | **700** | <408 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-2** | 10/27/11 | N | --- | --- | --- | --- | **2,000** | **920** | <410 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-2** | 07/02/12 | N | 2,354.55 | 4.83 | --- | 2349.72 | **1,960** | **580** | <380 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-2** | 10/10/12 | N | 2,354.55 | 5.06 | --- | 2349.49 | **1,500** | **680** | <840 | <1.0 | <1.0 | <1.0 | <3.0 | 7.4 |

**Summary of Groundwater Monitoring Data - Shallow Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Screening Levels (Shallow GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-2** | 03/13/13 | N | 2,354.55 | 4.61 | --- | 2349.94 | **1,060** | **620** | <420 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-2** | 05/15/13 | N | 2,354.55 | 5.09 | --- | 2349.46 | **1,220** | **990** | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-2** | 08/06/13 | N | 2,354.55 | 4.68 | --- | 2350.51 | **924** | **560** | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-2** | 10/11/13 | N | 2,355.19 | 5.19 | --- | 2350.00 | **833** | **910** | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-2** | 03/11/14 | N | 2,355.19 | 3.21 | --- | 2351.98 | **1,900** | **910** | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-2** | 06/03/14 | N | 2,355.19 | 5.10 | --- | 2350.09 | **1,870** | **610** | <420 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-2** | 04/06/17 | N | 2,355.19 | 4.18 | --- | 2351.01 | **1,500** | **1,200** | <73 | <0.5 | <0.5 | <0.5 | <0.5 | 2.0 |
| **MW-2** | 09/14/17 | N | 2,355.19 | 4.89 | --- | 2,350.30 | **1,200** | **720** | <260 | <1 | <1 | <1 | <1 | <4 |
| **MW-2** | 03/21/18 | N | 2355.19 | 4.45 | --- | 2350.74 | **940** | 380 | <250 | --- | --- | --- | --- | --- |
| **MW-2** | 06/21/18 | N | 2355.19 | 4.78 | --- | 2350.41 | **1,000** | **540** | <280 | --- | --- | --- | --- | --- |
| **MW-2** | 09/21/18 | N | 2355.19 | 5.02 | --- | 2350.17 | **810** | **740** | <270 | --- | --- | --- | --- | --- |
| **MW-2** | 12/06/18 | N | 2355.19 | 4.57 | --- | 2350.62 | **1,400** | **510** | <250 | --- | --- | --- | --- | --- |
| **MW-2** | 12/06/18 | FD | 2355.19 | 4.57 | --- | 2350.62 | **1,400** | 400 | <260 | --- | --- | --- | --- | --- |
| **MW-2** | 03/06/19 | N | 2355.19 | 4.70 | --- | 2350.49 | **1,300** | 410 | <270 | --- | --- | --- | --- | --- |
| **MW-3** | 08/20/01 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 03/25/02 | N | --- | --- | --- | --- | --- | <250 | <750 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-3** | 06/04/02 | N | --- | --- | --- | --- | --- | 267 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-3** | 08/02/02 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-3** | 10/29/02 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-3** | 02/19/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-3** | 06/05/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-3** | 09/09/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-3** | 12/10/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <1.5 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-3** | 06/03/04 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 12/01/04 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 06/03/05 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |

**Summary of Groundwater Monitoring Data - Shallow Wells**
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| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Screening Levels (Shallow GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-3** | 11/21/05 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 06/15/06 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-3** | 12/19/06 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 05/30/07 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-3** | 10/30/07 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 06/24/08 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 12/03/08 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 06/03/09 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 11/10/09 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 02/02/10 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 05/18/10 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 08/09/10 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 11/01/10 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 02/02/11 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 04/26/11 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 07/12/11 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 10/27/11 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 07/02/12 | N | 2,355.18 | 4.92 | --- | 2350.26 | NS | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 10/11/12 | N | 2,355.18 | 5.17 | --- | 2350.01 | <50 | <160 | <820 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-3** | 03/13/13 | NS | 2,355.18 | 4.68 | --- | 2350.50 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 05/15/13 | N | 2,355.18 | 5.16 | --- | 2350.02 | <100 | <390 | <390 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-3** | 08/06/13 | NS | 2,355.18 | 4.64 | --- | 2350.80 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 10/11/13 | N | 2,355.44 | 5.28 | --- | 2350.16 | <100 | <420 | <420 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-3** | 03/11/14 | NS | 2,355.44 | 3.52 | --- | 2351.92 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 06/03/14 | N | 2,355.44 | 4.98 | --- | 2350.46 | <100 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-3** | 04/06/17 | N | 2,355.44 | 4.28 | --- | 2351.16 | <50 | <28 | <66 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 |
| **MW-3** | 09/14/17 | N | 2,355.44 | 4.89 | --- | 2,350.55 | <250 | <100 | <260 | <1 | <1 | <1 | <1 | <4 |

**Summary of Groundwater Monitoring Data - Shallow Wells**
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**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Screening Levels (Shallow GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-3** | 12/06/18 | NM | 2355.44 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-3** | 03/06/19 | NS | 2355.44 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-4** | 08/20/01 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-4** | 03/25/02 | N | --- | --- | --- | --- | --- | **10,600** | <750 | 1.1 | 3.2 | <1.0 | 1.9 | **526** |
| **MW-4** | 03/26/02 | N | --- | --- | --- | --- | --- | **5,770** | <750 | <0.50 | <2.0 | <1.0 | <1.5 | **344** |
| **MW-4** | 06/04/02 | N | --- | --- | --- | --- | --- | **11,400** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | **432** |
| **MW-4** | 06/05/02 | N | --- | --- | --- | --- | --- | **12,500** | <500 | <0.50 | <2.0 | 1.1 | 1.6 | **278** |
| **MW-4** | 08/20/02 | N | --- | --- | --- | --- | --- | **1,500** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 43 |
| **MW-4** | 10/29/02 | N | --- | --- | --- | --- | --- | **2,220** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 72 |
| **MW-4** | 02/19/03 | N | --- | --- | --- | --- | --- | **1,570** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 22 |
| **MW-4** | 06/05/03 | N | --- | --- | --- | --- | --- | **720** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 40 |
| **MW-4** | 09/09/03 | N | --- | --- | --- | --- | --- | **890** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 61 |
| **MW-4** | 12/10/03 | N | --- | --- | --- | --- | --- | **2,750** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-4** | 06/03/04 | N | --- | --- | --- | --- | --- | **710** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 41 |
| **MW-4** | 12/01/04 | N | --- | --- | --- | --- | --- | **620** | <500 | 0.69 | <2.0 | <1.0 | <1.5 | 22 |
| **MW-4** | 06/03/05 | N | --- | --- | --- | --- | --- | 370 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-4** | 11/21/05 | N | --- | --- | --- | --- | --- | **920** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 27 |
| **MW-4** | 06/15/06 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-4** | 12/19/06 | N | --- | --- | --- | --- | --- | 360 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 31 |
| **MW-4** | 12/19/06 | FD | --- | --- | --- | --- | --- | 380 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 27 |
| **MW-4** | 05/30/07 | N | --- | --- | --- | --- | --- | 449 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-4** | 05/30/07 | FD | --- | --- | --- | --- | --- | 445 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 27 |
| **MW-4** | 10/30/07 | N | --- | --- | --- | --- | 700 | --- | --- | <0.50 | <0.70 | <0.80 | <0.80 | 1.0 |
| **MW-4** | 10/30/07 | FD | --- | --- | --- | --- | 660 | **650** | <94 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |
| **MW-4** | 06/24/08 | N | --- | --- | --- | --- | 190 | 200 | <94 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |
| **MW-4** | 12/03/08 | N | --- | --- | --- | --- | 330 | 200 | <66 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |

**Summary of Groundwater Monitoring Data - Shallow Wells**
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**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Screening Levels (Shallow GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-4** | 06/03/09 | N | --- | --- | --- | --- | 193 | 120 | <59 | <0.12 | <0.21 | <0.20 | <0.15 | --- |
| **MW-4** | 11/10/09 | N | --- | --- | --- | --- | 380 | 363 | <381 | <1.0 | <1.0 | <1.0 | <3.0 | 2.9 |
| **MW-4** | 02/02/10 | N | --- | --- | --- | --- | 162 | 286 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | 2.7 |
| **MW-4** | 05/18/10 | N | --- | --- | --- | --- | 227 | **650** | <392 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-4** | 08/09/10 | N | --- | --- | --- | --- | 156 | 123 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-4** | 11/01/10 | N | --- | --- | --- | --- | 374 | 277 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-4** | 02/02/11 | N | --- | --- | --- | --- | 137 | 201 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-4** | 04/26/11 | N | --- | --- | --- | --- | **1,010** | 185 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-4** | 07/12/11 | N | --- | --- | --- | --- | 510 | 210 J | <392 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-4** | 10/27/11 | N | --- | --- | --- | --- | 173 | 340 | <380 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-4** | 07/02/12 | N | 2,356.37 | 5.85 | --- | 2350.52 | 241 | 180 | <380 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-4** | 10/09/12 | N | 2,356.37 | 6.15 | --- | 2350.22 | 113 | <160 | <810 | <1.0 | <1.0 | <1.0 | <3.0 | 5.1 |
| **MW-4** | 03/13/13 | N | 2,356.37 | 5.62 | --- | 2350.75 | <100 | <410 | <410 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-4** | 05/15/13 | N | 2,356.37 | 6.05 | --- | 2350.32 | 136 | <390 | <390 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-4** | 08/06/13 | N | 2,356.37 | 5.68 | --- | 2350.76 | 120 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-4** | 10/09/13 | N | 2,356.44 | 6.17 | --- | 2350.27 | <100 | <410 | <410 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-4** | 03/11/14 | N | 2,356.44 | 4.70 | --- | 2351.74 | 192 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-4** | 06/03/14 | N | 2,356.44 | 5.93 | --- | 2350.51 | 277 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-4** | 04/03/17 | N | 2,356.44 | 5.09 | --- | 2351.35 | J200 | 190 | <75 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 |
| **MW-4** | 09/14/17 | N | 2,356.44 | 6.27 | --- | 2,350.17 | 270 | 260 | <260 | <1 | <1 | <1 | <1 | <4 |
| **MW-4** | 03/21/18 | NS | 2356.44 | 5.47 | --- | 2350.97 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-4** | 06/21/18 | NS | 2356.44 | 5.80 | --- | 2350.64 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-4** | 09/21/18 | NS | 2356.44 | 6.07 | --- | 2350.37 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-4** | 12/06/18 | NS | 2356.44 | 5.61 | --- | 2350.83 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-4** | 03/06/19 | NS | 2356.44 | 5.76 | --- | 2350.68 | --- | --- | --- | --- | --- | --- | --- | --- |

**Summary of Groundwater Monitoring Data - Shallow Wells**
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**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Screening Levels (Shallow GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-5** | 08/20/01 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-5** | 03/25/02 | N | --- | --- | --- | --- | --- | **1,360** | <750 | **19.1** | 121 | 16 | 123 | 27 |
| **MW-5** | 06/04/02 | N | --- | --- | --- | --- | --- | **2,720** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-5** | 08/20/02 | N | --- | --- | --- | --- | --- | **774** | <500 | <0.50 | <2.0 | <1.0 | 1.6 | <20 |
| **MW-5** | 10/29/02 | N | --- | --- | --- | --- | --- | **2,580** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 56 |
| **MW-5** | 02/19/03 | N | --- | --- | --- | --- | --- | **1,510** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-5** | 06/05/03 | N | --- | --- | --- | --- | --- | **596** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 28 |
| **MW-5** | 09/09/03 | N | --- | --- | --- | --- | --- | --- | --- | <0.50 | <2.0 | <1.0 | <1.5 | 40 |
| **MW-5** | 12/10/03 | N | --- | --- | --- | --- | --- | **5,040** | **800** | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-5** | 06/03/04 | N | --- | --- | --- | --- | --- | 360 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-5** | 12/01/04 | N | --- | --- | --- | --- | --- | **4,600** | <500 | 1.8 | <2.0 | <1.0 | <1.5 | 28 |
| **MW-5** | 06/03/05 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-5** | 11/21/05 | N | --- | --- | --- | --- | --- | **2,150** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-5** | 06/15/06 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-5** | 12/19/06 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-5** | 05/30/07 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-5** | 10/30/07 | N | --- | --- | --- | --- | 250 | **2,500** | <94 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |
| **MW-5** | 06/24/08 | N | --- | --- | --- | --- | <50 | 170 | <94 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |
| **MW-5** | 12/03/08 | N | --- | --- | --- | --- | 240 | 73 | <68 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |
| **MW-5** | 06/03/09 | N | --- | --- | --- | --- | <13 | <36 | <59 | <0.12 | <0.21 | <0.20 | <0.15 | ------ |
| **MW-5** | 11/10/09 | N | --- | --- | --- | --- | <50 | 315 | <381 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-5** | 02/02/10 | N | --- | --- | --- | --- | <50 | 81 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-5** | 05/18/10 | N | --- | --- | --- | --- | <50 | 126 | <396 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-5** | 08/09/10 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-5** | 11/01/10 | N | --- | --- | --- | --- | <50 | <78 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-5** | 02/02/11 | N | --- | --- | --- | --- | <50 | <78 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-5** | 04/26/11 | N | --- | --- | --- | --- | <50 | <77 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | --- |

**Summary of Groundwater Monitoring Data - Shallow Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Screening Levels (Shallow GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-5** | 07/12/11 | N | --- | --- | --- | --- | <50 | <78 | <392 | <1.0 UJ | <1.0 UJ | <1.0 UJ | <3.0 UJ | --- |
| **MW-5** | 10/27/11 | N | --- | --- | --- | --- | <50 | **990** | <400 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-5** | 07/02/12 | N | 2,354.81 | 4.73 | --- | 2350.08 | <50 | <78 | <390 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-5** | 10/09/12 | N | 2,354.81 | 5.06 | --- | 2349.75 | <50 | <170 | <830 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-5** | 03/13/13 | N | 2,354.81 | 4.51 | --- | 2350.30 | <100 | <420 | <420 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-5** | 05/15/13 | N | 2,354.81 | 5.01 | --- | 2349.80 | <100 | <390 | <390 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-5** | 08/06/13 | N | 2,354.81 | 4.67 | --- | 2350.44 | <100 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-5** | 10/09/13 | N | 2,355.11 | 5.05 | --- | 2350.06 | <100 | <380 | <380 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-5** | 03/11/14 | N | 2,355.11 | 3.40 | --- | 2351.71 | <100 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-5** | 06/03/14 | N | 2,355.11 | 5.05 | --- | 2350.06 | <100 | <420 | <420 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-5** | 04/03/17 | N | 2,355.11 | 3.95 | --- | 2351.16 | <50 | <30 | <69 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 |
| **MW-5** | 09/14/17 | N | 2,355.11 | 4.89 | --- | 2,350.22 | <250 | <100 | <260 | <1 | <1 | <1 | <1 | <4 |
| **MW-5** | 03/21/18 | NS | 2355.11 | 4.39 | --- | 2350.72 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-5** | 06/21/18 | NS | 2355.11 | 4.84 | --- | 2350.27 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-5** | 09/21/18 | NS | 2355.11 | 4.97 | --- | 2350.14 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-5** | 12/06/18 | NS | 2355.11 | 4.55 | --- | 2350.56 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-5** | 03/06/19 | NS | 2355.11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

**Summary of Groundwater Monitoring Data - Shallow Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| **MTCA Method A Screening Levels (Shallow GW)** | | | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |

Notes:

DTW = Depth to Water in feet

GWE = Groundwater Elevation in feet above mean sea level; before August 13, 2009, relative to arbitrary benchmarks

TOC = Top of Casing in feet above mean sea level; before August 13, 2009, relative to arbitrary benchmarks

All results are in micrograms per liter (µg/L) unless otherwise indicated

TPHg = Total petroleum hydrocarbons as gasoline analyzed by NWTPH---Gx unless otherwise noted. The higher value is based on the assumption that no benzene is present in the groundwater sample. If any detectable amount of benzene is present in the groundwater sample, then the lower TPHg cleanup level is applicable.

TPHd = Total petroleum hydrocarbons as diesel, analyzed by NWTPH---Dx with silica gel cleanup unless otherwise noted.

TPHo = Total petroleum hydrocarbons as oil, analyzed by NWTPH---Dx with silica gel cleanup unless otherwise noted.

VOCs = Volatile organic compounds

BTEX = Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B unless otherwise noted.

Total Xylenes = o---xylene + m,p---xylene

<x = Not detected at laboratory reporting limit x

FD = Field duplicate

N = Normal

NS = Not sampled

NM = Not measured

--------- = Not analyzed

Concentrations in bold type indicate the analyte was detected above the Site-specific cleanup level.

J = Concentration is between the method detection limit (MDL) and the limit of quantitation (LOQ) and is therefore estimated.

>S = The cleanup level exceeds the saturation level; therefore, the absense of separate phase hydrocarbons (SPH) indicates compliance with the TPH cleanup level.

**Summary of Groundwater Monitoring Data - Deep Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Cleanup Levels (Deep GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-1** | 08/20/01 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-1** | 03/25/02 | N | --- | --- | --- | --- | --- | 274 | <750 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-1** | 06/04/02 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-1** | 08/20/02 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-1** | 10/29/02 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-1** | 02/19/03 | N | --- | --- | --- | --- | --- | **9,310** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-1** | 02/19/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-1** | 06/05/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-1** | 09/09/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-1** | 12/10/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-1** | 06/03/04 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-1** | 12/01/04 | N | --- | --- | --- | --- | --- | <250 | <500 | 3.6 | <2.0 | 1.5 | 2.0 | <20 |
| **MW-1** | 06/03/05 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-1** | 11/21/05 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-1** | 06/15/06 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-1** | 12/19/06 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-1** | 05/30/07 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-1** | 10/30/07 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-1** | 06/24/08 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-1** | 12/03/08 | N | --- | --- | --- | --- | <50 | <29 | <68 | <0.50 | <0.7 | <0.80 | <0.80 | <1.0 |
| **MW-1** | 06/03/09 | N | --- | --- | --- | --- | <13 | <35 | <58 | <0.12 | <0.21 | <0.20 | <0.15 | --- |
| **MW-1** | 11/10/09 | N | --- | --- | --- | --- | <50 | 80 | <383 | <1.0M0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-1** | 02/02/10 | N | --- | --- | --- | --- | <50 | <77 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-1** | 05/18/10 | N | --- | --- | --- | --- | <50 | <76 | <379 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-1** | 08/09/10 | N | --- | --- | --- | --- | <50 | <78 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-1** | 11/01/10 | N | --- | --- | --- | --- | <50 | <78 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | --- |

**Summary of Groundwater Monitoring Data - Deep Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Cleanup Levels (Deep GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-1** | 02/02/11 | N | --- | --- | --- | --- | <50 | <77 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-1** | 04/26/11 | N | --- | --- | --- | --- | <50 | <78 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-1** | 07/12/11 | N | --- | --- | --- | --- | <50 | <78 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-1** | 10/27/11 | N | --- | --- | --- | --- | <50 | <78 | <390 | <1.0 | < 1.0 | <1.0 | <3.0 | --- |
| **MW-1** | 10/27/11 | FD | --- | --- | --- | --- | <50 | <78 | <390 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-1** | 07/02/12 | N | 2,354.55 | 31.90 | --- | 2322.65 | <50 | <86 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-1** | 07/02/12 | FD | --- | --- | --- | --- | <50 | <82 | <410 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-1** | 10/10/12 | N | 2,354.55 | 36.02 | --- | 2318.53 | <50 | <160 | <810 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-1** | 10/10/12 | FD | --- | --- | --- | --- | <50 | <160 | <800 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-1** | 03/13/13 | FD | --- | --- | --- | --- | <100 | <460 | <460 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-1** | 05/15/13 | N | 2,354.55 | 32.62 | --- | 2321.93 | <100 | <430 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-1** | 05/15/13 | FD | --- | --- | --- | --- | <100 | <390 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-1** | 08/06/13 | N | 2,354.55 | 34.22 | --- | 2320.38 | <100 | <380 | <380 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-1** | 08/06/13 | FD | --- | --- | --- | --- | <100 | <430 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-1** | 10/11/13 | N | 2,354.60 | 35.79 | --- | 2318.81 | <100 | <430 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-1** | 10/11/13 | FD | --- | --- | --- | --- | <100 | <430 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-1** | 03/11/14 | N | 2,354.60 | 35.45 | --- | 2319.15 | <100 | <400 | 500 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-1** | 06/03/14 | N | 2,354.60 | 33.90 | --- | 2320.70 | <100 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-1** | 06/03/14 | FD | --- | --- | --- | --- | <100 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-1** | 04/06/17 | N | 2,354.60 | 27.10 | --- | 2327.50 | <50 | <29 | <68 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 |
| **MW-1** | 09/14/17 | N | 2,354.60 | 33.15 | --- | 2,321.45 | <250 | <110 | <270 | <1 | <1 | <1 | <1 | <4 |
| **MW-1** | 03/21/18 | NS | 2354.60 | 29.56 | --- | 2325.04 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-1** | 06/21/18 | NS | 2354.60 | 30.57 | --- | 2324.03 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-1** | 09/21/18 | NS | 2354.60 | 33.80 | --- | 2320.80 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-1** | 12/06/18 | NS | 2354.60 | 35.37 | --- | 2319.23 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-1** | 03/06/19 | NS | 2354.60 | 32.63 | --- | 2321.97 | --- | --- | --- | --- | --- | --- | --- | --- |

**Summary of Groundwater Monitoring Data - Deep Wells**
**Yellowstone Pipeline**
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**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Cleanup Levels (Deep GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-5D** | 10/11/13 | N | 2,355.03 | 35.57 | --- | 2319.46 | 614 | **1,100** | <450 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-5D** | 03/11/14 | N | 2,355.03 | 35.48 | --- | 2319.55 | <100 | <400 | **700** | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-5D** | 06/03/14 | N | 2,355.03 | 33.73 | --- | 2321.30 | 128 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-5D** | 09/14/17 | N | 2,355.03 | 32.48 | --- | 2,322.55 | <250 | **560** | <250 | <1 | <1 | <1 | <1 | <4 |
| **MW-5D** | 03/21/18 | N | 2355.03 | 29.02 | --- | 2326.01 | 69 J | 370 | <260 | --- | --- | --- | --- | --- |
| **MW-5D** | 03/21/18 | FD | 2355.03 | 29.02 | --- | 2326.01 | 57 J | **1,600 *** | **2,400 *** | --- | --- | --- | --- | --- |
| **MW-5D** | 06/21/18 | N | 2355.03 | 30.01 | --- | 2325.02 | <250 | **670** | <260 | --- | --- | --- | --- | --- |
| **MW-5D** | 09/21/18 | N | 2355.03 | 33.51 | --- | 2321.52 | 81 J | 160 | <280 | --- | --- | --- | --- | --- |
| **MW-5D** | 09/21/18 | FD | 2355.03 | 33.51 | --- | 2321.52 | <250 | 220 | <270 | --- | --- | --- | --- | --- |
| **MW-5D** | 12/06/18 | N | 2355.03 | 35.21 | --- | 2319.82 | <250 | 72 J | <260 | --- | --- | --- | --- | --- |
| **MW-5D** | 03/06/19 | N | 2355.03 | 32.46 | --- | 2322.57 | <250 | 110 | <260 | --- | --- | --- | --- | --- |
| **MW-6** | 08/20/01 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-6** | 03/25/02 | N | --- | --- | --- | --- | --- | <250 | <750 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-6** | 06/04/02 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-6** | 08/20/02 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-6** | 10/29/02 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-6** | 02/19/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-6** | 06/05/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-6** | 09/09/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-6** | 12/10/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-6** | 06/03/04 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-6** | 12/01/04 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-6** | 06/03/05 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-6** | 11/21/05 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

**Summary of Groundwater Monitoring Data - Deep Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Cleanup Levels (Deep GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-6** | 06/15/06 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-6** | 12/19/06 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-6** | 05/30/07 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-6** | 10/30/07 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-6** | 06/24/08 | N | --- | --- | --- | --- | <50 | <75 | <94 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |
| **MW-6** | 12/03/08 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-6** | 06/03/09 | N | --- | --- | --- | --- | <13 | <35 | <58 | <0.12 | <0.21 | <0.20 | <0.15 | --- |
| **MW-6** | 11/10/09 | N | --- | --- | --- | --- | <50 | 135 | <396 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-6** | 02/02/10 | N | --- | --- | --- | --- | <50 | <78 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-6** | 05/18/10 | N | --- | --- | --- | --- | <50 | <78 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-6** | 08/09/10 | N | --- | --- | --- | --- | <50 | <78 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-6** | 11/01/10 | N | --- | --- | --- | --- | <50 | <78 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-6** | 02/02/11 | N | --- | --- | --- | --- | <50 | <78 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-6** | 04/26/11 | N | --- | --- | --- | --- | <50 | <78 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-6** | 07/12/11 | N | --- | --- | --- | --- | <50 | <78 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-6** | 10/27/11 | N | --- | --- | --- | --- | <50 | <78 | <390 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-6** | 07/02/12 | N | 2,355.87 | 32.83 | --- | 2323.04 | <50 | <82 | <410 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-6** | 10/09/12 | N | 2,355.87 | 35.71 | --- | 2320.16 | <50 | <160 | <800 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-6** | 03/13/13 | N | 2,355.87 | 32.45 | --- | 2323.42 | <100 | <420 | <420 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-6** | 05/15/13 | N | 2,355.87 | 33.07 | --- | 2322.80 | <100 | <420 | <420 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 UJ |
| **MW-6** | 08/06/13 | N | 2,355.87 | 34.91 | --- | 2321.02 | <100 | <380 | <380 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-6** | 10/11/13 | N | 2,355.93 | 38.50 | --- | 2317.43 | <100 | <380 | <380 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-6** | 03/11/14 | N | 2,355.93 | 36.59 | --- | 2319.34 | <100 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-6** | 06/03/14 | N | 2,355.93 | 34.65 | --- | 2321.28 | <100 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-6** | 04/03/17 | N | 2,355.93 | 27.98 | --- | 2327.95 | <50 | <30 | <70 | <0.5 | <0..5 | <0.5 | <0.5 | <1.0 |
| **MW-6** | 09/14/17 | N | 2,355.93 | 33.26 | --- | 2,322.67 | <250 | <110 | <260 | <1 | <1 | <1 | <1 | <4 |

**Summary of Groundwater Monitoring Data - Deep Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Cleanup Levels (Deep GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-6** | 03/21/18 | NS | 2355.93 | 30.08 | --- | 2325.85 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-6** | 06/21/18 | NS | 2355.93 | 30.93 | --- | 2325.00 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-6** | 09/21/18 | NS | 2355.93 | 34.40 | --- | 2321.53 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-6** | 12/06/18 | NS | 2355.93 | 36.13 | --- | 2319.80 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-6** | 03/06/19 | NS | 2355.93 | 33.36 | --- | 2322.57 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-7** | 08/20/01 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-7** | 03/25/02 | N | --- | --- | --- | --- | --- | **6,280** | <750 | <0.50 | <2.0 | <1.0 | 25 | 154 |
| **MW-7** | 06/04/02 | N | --- | --- | --- | --- | --- | **13,100** | <500 | <0.50 | <2.0 | <1.0 | **14** | **221** |
| **MW-7** | 08/21/02 | N | --- | --- | --- | --- | --- | **6,850** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 65 |
| **MW-7** | 08/21/02 | N | --- | --- | --- | --- | --- | **6,100** | <500 | 0.82 | 4.0 | 1.9 | 13 | 92 |
| **MW-7** | 10/29/02 | N | --- | --- | --- | --- | --- | **5,460** | <500 | 0.70 | <2.0 | <1.0 | **9** | **172** |
| **MW-7** | 02/19/03 | N | --- | --- | --- | --- | --- | **7,390** | <500 | <0.50 | <2.0 | <1.0 | 6 | <20 |
| **MW-7** | 06/05/03 | N | --- | --- | --- | --- | --- | **770** | <500 | 0.99 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-7** | 09/09/03 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-7** | 09/11/03 | N | --- | --- | --- | --- | --- | **1,250** | <500 | <0.50 | <2.0 | 4.7 | 30 | 81 |
| **MW-7** | 12/10/03 | N | --- | --- | --- | --- | --- | **7,120** | <500 | <0.50 | <2.0 | 1.2 | 15 | 114 |
| **MW-7** | 06/03/04 | N | --- | --- | --- | --- | --- | **1,000** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 48 |
| **MW-7** | 12/01/04 | N | --- | --- | --- | --- | --- | **1540** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 21 |
| **MW-7** | 06/03/05 | N | --- | --- | --- | --- | --- | **830** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 24 |
| **MW-7** | 11/21/05 | N | --- | --- | --- | --- | --- | **2,970** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 48 |
| **MW-7** | 06/15/06 | N | --- | --- | --- | --- | --- | **1,410** | <500 | <0.50 | <2.0 | <1.0 | <1.5 | 23 |
| **MW-7** | 12/19/06 | N | --- | --- | --- | --- | --- | **1,300** | <500 | <0.50 | 6.42 | 2.74 | 9.43 | 24 |
| **MW-7** | 05/30/07 | N | --- | --- | --- | --- | --- | **961** | <500 | 0.71 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-7** | 10/30/07 | N | --- | --- | --- | --- | **2,700** | **14,000** | <4,700 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |
| **MW-7** | 06/24/08 | N | --- | --- | --- | --- | **1,600** | **1,200** | <95 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |

**Summary of Groundwater Monitoring Data - Deep Wells**
**Yellowstone Pipeline**
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**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Cleanup Levels (Deep GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-7** | 12/04/08 | N | --- | --- | --- | --- | **1,400** | <29 | <68 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |
| **MW-7** | 06/04/09 | N | --- | --- | --- | --- | 155 | **560** | <58 | <0.12 | <0.21 | <0.20 | <0.15 | --- |
| **MW-7** | 11/10/09 | N | --- | --- | --- | --- | 577 | **7,600** | <388 | <1.0 | <1.0 | <1.0 | <3.0 | 2.7 |
| **MW-7** | 02/02/10 | N | --- | --- | --- | --- | 214 | **2,000** | <377 | <1.0 | <1.0 | <1.0 | <3.0 | 2.4 |
| **MW-7** | 05/18/10 | N | --- | --- | --- | --- | 717 | **16,900** | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-7** | 08/09/10 | N | --- | --- | --- | --- | **928** | **22,100** | <388 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-7** | 11/01/10 | N | --- | --- | --- | --- | **3,130** | **28,300** | <388 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-7** | 02/02/11 | N | --- | --- | --- | --- | 704 | **10,700** | <392 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-7** | 04/26/11 | N | --- | --- | --- | --- | **5,710** | **3,690** | <400 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-7** | 07/12/11 | N | --- | --- | --- | --- | 278 | **2,540** | <392 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-7** | 10/26/11 | N | --- | --- | --- | --- | **2,420** | **37,200** | <380 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-7** | 07/02/12 | N | 2,356.25 | 31.84 | --- | 2324.41 | <50 | 78 | <380 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-7** | 10/10/12 | N | 2,356.25 | 35.24 | --- | 2321.01 | 207 | 350 | <820 | <1.0 | <1.0 | <1.0 | <3.0 | 5.4 |
| **MW-7** | 03/13/13 | N | 2,356.25 | 31.94 | --- | 2324.31 | 104 | <440 | <440 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-7** | 05/14/13 | N | 2,356.25 | 32.74 | --- | 2323.51 | < 100 | <390 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-7** | 08/06/13 | N | 2,356.25 | 34.54 | --- | 2321.77 | 250 | <420 | <420 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-7** | 10/12/13 | N | 2,356.31 | 36.11 | --- | 2320.20 | 410 | **600** | < 450 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-7** | 03/11/14 | N | 2,356.31 | 35.62 | --- | 2320.69 | 448 | 430 | **550** | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-7** | 06/04/14 | N | 2,356.31 | 34.37 | --- | 2321.94 | 201 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-7** | 04/05/17 | NS | 2,356.31 | 26.25 | --- | 2330.06 | ORC sock stuck in well - unable to sample | | | | --- | --- | --- | --- |
| **MW-7** | 09/14/17 | NS | 2,356.31 | 33.17 | --- | 2,323.14 | ORC sock stuck in well - unable to sample | | | | --- | --- | --- | --- |
| **MW-7** | 03/21/18 | NS | 2356.31 | 29.59 | --- | 2326.72 | ORC sock stuck in well - unable to sample | | | | --- | --- | --- | --- |
| **MW-7** | 06/21/18 | NS | 2356.31 | 30.76 | --- | 2325.55 | ORC sock stuck in well - unable to sample | | | | --- | --- | --- | --- |
| **MW-7** | 09/21/18 | NS | 2356.31 | 34.13 | --- | 2322.18 | ORC sock stuck in well - unable to sample | | | | --- | --- | --- | --- |
| **MW-7** | 12/06/18 | NS | 2356.31 | 36.09 | --- | 2320.22 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-7** | 03/06/19 | NS | 2356.31 | 33.05 | --- | 2323.26 | --- | --- | --- | --- | --- | --- | --- | --- |

**Summary of Groundwater Monitoring Data - Deep Wells**
**Yellowstone Pipeline**
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**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Cleanup Levels (Deep GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-8** | 08/20/01 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-8** | 03/25/02 | N | --- | --- | --- | --- | --- | <250 | <750 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-8** | 06/04/02 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-8** | 08/21/02 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-8** | 10/29/02 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-8** | 02/19/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-8** | 06/05/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-8** | 09/09/03 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-8** | 09/11/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-8** | 12/10/03 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-8** | 06/03/04 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-8** | 12/01/04 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-8** | 06/03/05 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-8** | 11/21/05 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-8** | 06/15/06 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-8** | 12/19/06 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-8** | 05/30/07 | N | --- | --- | --- | --- | --- | <250 | <500 | <0.50 | <2.0 | <1.0 | <1.5 | <20 |
| **MW-8** | 10/30/07 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-8** | 06/24/08 | N | --- | --- | --- | --- | <50 | <75 | <94 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |
| **MW-8** | 12/04/08 | N | --- | --- | --- | --- | <50 | **35,000** | <3,500 | <0.50 | <0.70 | <0.80 | <0.80 | <1.0 |
| **MW-8** | 06/04/09 | N | --- | --- | --- | --- | <13.4 | <36 | <59 | <0.12 | <0.21 | <0.20 | <0.15 | --- |
| **MW-8** | 11/10/09 | N | --- | --- | --- | --- | <50 | <79 | <396 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-8** | 02/02/10 | N | --- | --- | --- | --- | <50 | <76 | <381 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-8** | 05/18/10 | N | --- | --- | --- | --- | <50 | <78 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-8** | 08/09/10 | N | --- | --- | --- | --- | <50 | <79 | <396 | <1.0 | <1.0 | <1.0 | <3.0 | --- |

**Summary of Groundwater Monitoring Data - Deep Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Cleanup Levels (Deep GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-8** | 11/01/10 | N | --- | --- | --- | --- | <50 | <78 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-8** | 02/02/11 | N | --- | --- | --- | --- | <50 | <78 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-8** | 04/26/11 | N | --- | --- | --- | --- | <50 | <80 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-8** | 07/12/11 | N | --- | --- | --- | --- | <50 | <77 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-8** | 10/26/11 | N | --- | --- | --- | --- | <50 | <76 | <380 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-8** | 07/02/12 | N | 2,356.57 | 32.36 | --- | 2324.21 | <50 | <86 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-8** | 10/10/12 | N | 2,356.57 | 35.56 | --- | 2321.01 | <50 | <170 | <830 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-8** | 03/13/13 | N | 2,356.57 | 32.66 | --- | 2323.91 | <100 | <440 | <440 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-8** | 05/14/13 | N | 2,356.57 | 33.12 | --- | 2323.45 | <100 | <390 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-8** | 08/06/13 | N | 2,356.57 | 34.83 | --- | 2321.77 | <100 | <410 | <410 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-8** | 10/12/13 | N | 2,356.60 | 36.36 | --- | 2320.24 | <100 | <430 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-8** | 03/11/14 | N | 2,356.60 | 36.98 | --- | 2319.62 | <100 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-8** | 06/04/14 | N | 2,356.60 | 34.75 | --- | 2321.85 | <100 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-8** | 04/05/17 | N | 2,356.60 | 29.20 | --- | 2327.40 | <50 | <30 | <69 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 |
| **MW-8** | 09/14/17 | N | 2,356.60 | 33.04 | --- | 2,323.56 | <250 | <100 | <250 | <1 | <1 | <1 | <1 | <4 |
| **MW-8** | 03/21/18 | NS | 2356.60 | 30.79 | --- | 2325.81 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-8** | 06/21/18 | NS | 2356.60 | 31.11 | --- | 2325.49 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-8** | 09/21/18 | NS | 2356.60 | 34.24 | --- | 2322.36 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-8** | 12/06/18 | NS | 2356.60 | 36.15 | --- | 2320.45 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-8** | 03/06/19 | NS | 2356.60 | 33.58 | --- | 2323.02 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11A** | | | | removed from sampling schedule due to well obstruction | | | | | | | | | | |
| **MW-11A** | 02/02/11 | NS | 2,357.25 | Obstruction in Well at 3.25 Feet | | | | --- | --- | --- | --- | --- | --- | --- |
| **MW-11A** | 04/26/11 | NS | 2,357.25 | Obstruction in Well at 3.25 Feet | | | | --- | --- | --- | --- | --- | --- | --- |
| **MW-11A** | 09/14/17 | NS | 2,357.25 | 34.47 | --- | 2,322.78 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11A** | 03/21/18 | NS | 2357.25 | 30.76 | --- | 2326.49 | --- | --- | --- | --- | --- | --- | --- | --- |

**Summary of Groundwater Monitoring Data - Deep Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Cleanup Levels (Deep GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-11A** | 06/21/18 | NS | 2357.25 | 31.98 | --- | 2325.27 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11A** | 09/21/18 | NS | 2357.25 | 35.48 | --- | 2321.77 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11A** | 12/06/18 | NS | 2357.25 | 37.18 | --- | 2320.07 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11A** | 03/06/19 | NS | 2357.25 | 34.11 | --- | 2323.14 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 08/20/01 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 03/25/02 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 06/04/02 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 10/29/02 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 02/19/03 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 06/05/03 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 09/09/03 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 12/10/03 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 06/03/04 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 12/01/04 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 06/03/05 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 11/21/05 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 06/15/06 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 12/19/06 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 05/30/07 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 10/30/07 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 06/24/08 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 12/03/08 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 06/03/09 | N | --- | --- | --- | --- | <13 | <35 | <58 | <0.12 | <0.21 | <0.20 | <0.15 | --- |
| **MW-11B** | 11/10/09 | N | --- | --- | --- | --- | <50 | 144 | <381 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-11B** | 02/02/10 | N | --- | --- | --- | --- | <50 | <76 | <381 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |

**Summary of Groundwater Monitoring Data - Deep Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Cleanup Levels (Deep GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-11B** | 05/18/10 | N | --- | --- | --- | --- | <50 | <77 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-11B** | 08/09/10 | N | --- | --- | --- | --- | <50 | <78 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-11B** | 11/01/10 | N | --- | --- | --- | --- | <50 | <78 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-11B** | 02/02/11 | N | --- | --- | --- | --- | <50 | <79 | <396 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-11B** | 04/26/11 | N | --- | --- | --- | --- | <50 | <80 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-11B** | 07/12/11 | N | --- | --- | --- | --- | <50 | <78 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-11B** | 10/26/11 | N | --- | --- | --- | --- | <50 | <75 | <380 | <1.0 | <1.0 | <1.0 | <3.0 | --- |
| **MW-11B** | 07/02/12 | N | 2,357.78 | 33.82 | --- | 2323.96 | <50 | <77 | <380 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-11B** | 10/10/12 | N | 2,357.78 | 37.18 | --- | 2320.60 | <50 | <160 | <810 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 |
| **MW-11B** | 03/13/13 | N | 2,357.78 | 33.67 | --- | 2324.11 | <100 | <410 | <410 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-11B** | 05/14/13 | N | 2,357.78 | 34.52 | --- | 2323.26 | <100 | <450 | <450 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-11B** | 08/06/13 | N | 2,357.78 | 36.34 | --- | 2321.51 | <100 | <380 | <380 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-11B** | 10/12/13 | N | 2,357.85 | 37.96 | --- | 2319.89 | <100 | <410 | <410 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-11B** | 03/12/14 | N | 2,357.85 | 38.10 | --- | 2319.75 | <100 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-11B** | 06/04/14 | N | 2,357.85 | 35.97 | --- | 2321.88 | <100 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <4.0 |
| **MW-11B** | 04/05/17 | N | 2,357.85 | 28.38 | --- | 2329.47 | <50 | <30 | <70 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 |
| **MW-11B** | 09/14/17 | N | 2,357.85 | 34.78 | --- | 2,323.07 | <250 | <110 | <260 | <1 | <1 | <1 | <1 | <4 |
| **MW-11B** | 03/21/18 | NS | 2357.85 | 31.19 | --- | 2326.66 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 06/21/18 | NS | 2357.85 | 32.27 | --- | 2325.58 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 09/21/18 | NS | 2357.85 | 34.76 | --- | 2323.09 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 12/06/18 | NS | 2356.71 | 36.51 | --- | 2320.20 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-11B** | 03/06/19 | NS | 2356.71 | 33.42 | --- | 2323.29 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 08/20/01 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 03/25/02 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 06/04/02 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

**Summary of Groundwater Monitoring Data - Deep Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Cleanup Levels (Deep GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-12A** | 10/29/02 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 02/19/03 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 06/05/03 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 09/09/03 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 12/10/03 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 06/03/04 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 12/01/04 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 06/03/05 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 11/21/05 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 06/15/06 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 12/19/06 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 05/30/07 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 10/30/07 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 06/24/08 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 12/03/08 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 06/03/09 | N | --- | --- | --- | --- | <13 | <35 | <58 | <0.12 | <0.21 | <0.20 | <0.15 | --- |
| **MW-12A** | 07/02/12 | NS | 2,355.12 | 31.23 | --- | 2323.89 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 10/09/12 | NS | 2,355.12 | 34.66 | --- | 2320.46 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 03/12/13 | NS | 2,355.12 | 30.97 | --- | 2324.15 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 05/14/13 | NS | 2,355.12 | 32.00 | --- | 2323.12 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 08/05/13 | NS | 2,355.12 | 33.74 | --- | 2321.48 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 10/18/13 | NS | 2,355.22 | 35.36 | --- | 2319.86 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 03/11/14 | NS | 2,355.22 | 35.02 | --- | 2320.20 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 06/02/14 | NS | 2,355.22 | 33.38 | --- | 2321.84 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 04/03/17 | NS | 2,355.22 | 25.76 | --- | 2329.46 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 09/14/17 | NS | 2,355.22 | 32.27 | --- | 2,322.95 | --- | --- | --- | --- | --- | --- | --- | --- |

**Summary of Groundwater Monitoring Data - Deep Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Cleanup Levels (Deep GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-12A** | 03/21/18 | NS | 2355.22 | 23.53 | --- | 2331.69 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 06/21/18 | NS | 2355.22 | 29.80 | --- | 2325.42 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 09/21/18 | NS | 2355.22 | 33.28 | --- | 2321.94 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 12/06/18 | NS | 2355.22 | 34.91 | --- | 2320.31 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12A** | 03/06/19 | NS | 2355.22 | 31.85 | --- | 2323.37 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 08/20/01 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 03/25/02 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 06/04/02 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 10/29/02 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 02/19/03 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 06/05/03 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 09/09/03 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 12/10/03 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 06/03/04 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 12/01/04 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 06/03/05 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 11/21/05 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 06/15/06 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 12/19/06 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 05/30/07 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 10/30/07 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 06/24/08 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 12/03/08 | NS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 06/03/09 | N | --- | --- | --- | --- | <13 | <35 | <58 | <0.12 | <0.21 | <0.20 | <0.15 | --- |
| **MW-12B** | 07/02/12 | NS | 2,355.02 | 30.85 | --- | 2324.17 | --- | --- | --- | --- | --- | --- | --- | --- |

**Summary of Groundwater Monitoring Data - Deep Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| | | **MTCA Method A Cleanup Levels (Deep GW)** | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |
| **MW-12B** | 10/09/12 | NS | 2,355.02 | 34.24 | --- | 2320.78 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 03/12/13 | NS | 2,355.02 | 30.72 | --- | 2324.30 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 05/14/13 | NS | 2,355.02 | 31.56 | --- | 2323.46 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 08/05/13 | NS | 2,355.02 | 33.36 | --- | 2321.73 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 10/18/13 | NS | 2,355.09 | 35.00 | --- | 2320.09 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 03/11/14 | NS | 2,355.09 | 34.99 | --- | 2320.10 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 06/02/14 | NS | 2,355.09 | 33.03 | --- | 2322.06 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 04/03/17 | NS | 2,355.09 | 26.35 | --- | 2328.74 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 09/14/17 | NS | 2,355.09 | 31.76 | --- | 2,323.33 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 03/21/18 | NS | 2355.09 | 28.18 | --- | 2327.91 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 06/21/18 | NS | 2355.09 | 29.22 | --- | 2325.87 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 09/21/18 | NS | 2355.09 | 32.81 | --- | 2322.28 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 12/06/18 | NS | 2355.09 | 34.55 | --- | 2320.54 | --- | --- | --- | --- | --- | --- | --- | --- |
| **MW-12B** | 03/06/19 | NS | 2355.09 | 32.62 | --- | 2322.47 | --- | --- | --- | --- | --- | --- | --- | --- |

**Summary of Groundwater Monitoring Data - Deep Wells**
**Yellowstone Pipeline**
**Geiger Correctional Facility**
**Spokane, Washington**

| | | | | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Date** | **Sample Type** | **TOC** | **DTW** | **SPH** | **GWE** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **Naph** |
| **MTCA Method A Cleanup Levels (Deep GW)** | | | | | | | **800** | **500** | **500** | **5** | **1000** | **700** | **1000** | **160** |
| | | | | | | | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** | **ug/L** |

Notes:

DTW = Depth to Water in feet

GWE = Groundwater Elevation in feet above mean sea level; before August 13, 2009, relative to arbitrary benchmarks

TOC = Top of Casing in feet above mean sea level; before August 13, 2009, relative to arbitrary benchmarks

All results are in micrograms per liter (µg/L) unless otherwise indicated

TPHg = Total petroleum hydrocarbons as gasoline analyzed by NWTPH---Gx unless otherwise noted. The higher value is based on the assumption that no benzene is present in the groundwater sample. If any detectable amount of benzene is present in the groundwater sample, then the lower TPHg cleanup level is applicable.

TPHd = Total petroleum hydrocarbons as diesel, analyzed by NWTPH---Dx with silica gel cleanup unless otherwise noted.

TPHo = Total petroleum hydrocarbons as oil, analyzed by NWTPH---Dx with silica gel cleanup unless otherwise noted.

VOCs = Volatile organic compounds

BTEX = Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B unless otherwise noted.

Total Xylenes = o---xylene + m,p---xylene

<x = Not detected at laboratory reporting limit x

FD = Field duplicate

N = Normal

NS = Not sampled

NM = Not measured

--- = Not analyzed

Concentrations in bold type indicate the analyte was detected above the Model Toxics Control Act (MTCA) Method A cleanup level

* = Field duplicate concentration is not consistent with the "parent" sample; therefore, this data is considered anomalous.

# Table 2

## Summary of Soil Analytical Data
## Yellowstone Pipeline
## Geiger Correctional Facility
## Spokane, Washington

| | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | OXYGENATES | PAHs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Consultant** | **Sample Date** | **Sample Depth** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **MTBE** | **Naphthalenes** |
| | **MTCA Method A Screening Levels** | | | **30/100** | **2,000** | **2,000** | **0.03** | **7** | **6** | **9** | **0.1** | **5** |
| | | | ***ft bgs*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** |
| TP-2-3.5 | Maxim | 03/19/01 | 3.5 | 6.98 | <10 | <25 | <0.050 | <0.100 | <0.050 | 0.108 | <0.200 | <0.01 |
| TP-3-2.0 | Maxim | 03/19/01 | 2 | 1,460 | 690 | <25 | <0.250 | <0.500 | 0.488 | 1.37 | <1.00 | 0.163 |
| TP-3-2.0 (dup) | Maxim | 03/19/01 | 2 | **699** | 804 | <25 | <0.100 | <0.200 | 0.268 | 0.733 | <0.400 | 0.130 |
| TP-4-6.0 | Maxim | 03/19/01 | 6 | **4,250** | **11,600** | <275 | <0.500 | <1.00 | 1.5 | 7.06 | <2.00 | 9.30 |
| TP-5-3.5 | Maxim | 03/19/01 | 3.5 | <5.00 | <10 | <25 | <0.050 | <0.100 | <0.050 | <0.100 | <0.200 | <0.01 |
| TP-6-5.5 | Maxim | 03/19/01 | 5.5 | 44.8 | 69.9 | <25 | <0.050 | <0.100 | <0.050 | <0.100 | <0.200 | <0.01 |
| TP-7-4.0 | Maxim | 03/19/01 | 4 | 10.3 | <10 | <25 | <0.050 | <0.100 | <0.050 | <0.100 | <0.200 | <0.01 |
| TP-8-4.0 | Maxim | 03/19/01 | 4 | <5.00 | <10 | <25 | <0.050 | <0.100 | <0.050 | <0.100 | <0.200 | <0.01 |
| TP-9-4.0 | Maxim | 03/19/01 | 4 | <5.00 | <10 | <25 | <0.050 | <0.100 | <0.050 | <0.100 | <0.200 | <0.01 |
| YPL#2-5.0 | Maxim | 03/21/01 | 5 | 1,070 | **5,390** | <250 | <0.050 | <0.100 | 0.123 | 0.716 | <0.200 | 0.0515 |
| YPL#3-5.0 | Maxim | 03/21/01 | 5 | 414 | 971 | <25 | <0.050 | <0.100 | 0.130 | 0.411 | <0.200 | 0.0829 |
| GCC-3 | Maxim | 10/15/01 | 2-5 | --- | 756 | <25 | <0.100 | <0.800 | <0.800 | <0.800 | --- | **11.2** |
| GCC-7 | Maxim | 10/15/01 | 4 | --- | 343 | <25 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | 4.12 |
| GCC8-3.5 | Maxim | 10/16/01 | 3.5 | --- | <10 | <25 | --- | --- | --- | --- | --- | --- |
| GCC9-6 | Maxim | 10/16/01 | 6 | --- | 25.4 | <25 | --- | --- | --- | --- | --- | --- |
| GCC10-4 | Maxim | 10/16/01 | 4 | --- | <10 | <25 | --- | --- | --- | --- | --- | --- |
| GCC12-6 | Maxim | 10/16/01 | 6 | --- | 190 | <25 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | 4.48 |
| GCC14-5 | Maxim | 10/16/01 | 5 | --- | 808 | <25 | --- | --- | --- | --- | --- | --- |
| GCC15-5.5 | Maxim | 10/17/01 | 5.5 | --- | **6,180** | <250 | --- | --- | --- | --- | --- | --- |
| GCC16-6 | Maxim | 10/17/01 | 6 | --- | 14.6 | <25 | --- | --- | --- | --- | --- | --- |
| GCC17-5.5 | Maxim | 10/17/01 | 5.5 | --- | <10 | <25 | --- | --- | --- | --- | --- | --- |
| GCC18-5.5 | Maxim | 10/17/01 | 5.5 | --- | **2,690** | <250 | --- | --- | --- | --- | --- | --- |
| GCC19-6 | Maxim | 10/17/01 | 6 | --- | 1,510 | <250 | <0.0250 | <0.200 | <0.200 | 0.702 | --- | **17.3** |
| GCC20-6 | Maxim | 10/17/01 | 6 | --- | **3,470** | <250 | --- | --- | --- | --- | --- | --- |
| GCC21-6 | Maxim | 10/17/01 | 6 | --- | **5,780** | <250 | --- | --- | --- | --- | --- | --- |
| GCC22-6 | Maxim | 10/17/01 | 6 | --- | <10 | <25 | --- | --- | --- | --- | --- | --- |
| GCC23-7 | Maxim | 10/17/01 | 7 | --- | 57.5 | <25 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | <0.500 |
| GCC24-6.5 | Maxim | 10/18/01 | 6.5 | --- | 11 | 29.8 | --- | --- | --- | --- | --- | --- |
| GCC25-6 | Maxim | 10/18/01 | 6 | --- | **3,940** | <250 | --- | --- | --- | --- | --- | --- |
| GCC26-6 | Maxim | 10/18/01 | 6 | --- | 11.3 | <25 | --- | --- | --- | --- | --- | --- |
| GCC27-6 | Maxim | 10/18/01 | 6 | --- | <10 | <25 | --- | --- | --- | --- | --- | --- |
| GCC28-6 | Maxim | 10/18/01 | 6 | --- | 690 | <25 | --- | --- | --- | --- | --- | --- |
| GCC29-6 | Maxim | 10/18/01 | 6 | --- | **8,280** | <250 | --- | --- | --- | --- | --- | --- |
| GCC30-6 | Maxim | 10/18/01 | 6 | --- | <10 | <25 | --- | --- | --- | --- | --- | --- |

# Table 2

## Summary of Soil Analytical Data
## Yellowstone Pipeline
## Geiger Correctional Facility
## Spokane, Washington

| | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | OXYGENATES | PAHs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Consultant** | **Sample Date** | **Sample Depth** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **MTBE** | **Naphthalenes** |
| | **MTCA Method A Screening Levels** | | | **30/100** | **2,000** | **2,000** | **0.03** | **7** | **6** | **9** | **0.1** | **5** |
| | | | ***ft bgs*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** |
| GCC31-6 | Maxim | 10/18/01 | 6 | --- | <10 | <25 | --- | --- | --- | --- | --- | --- |
| GCC32-6 | Maxim | 10/18/01 | 6 | --- | **2,810** | <250 | --- | --- | --- | --- | --- | --- |
| MW-1-45 | Maxim | 03/18/02 | 45 | --- | 67.1 | 98.5 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | <0.500 |
| MW-2-10-10.5 | Maxim | 03/19/02 | 10-10.5 | --- | 87.9 | 27 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | **27.8** |
| MW-3-4-6 | Maxim | 03/19/02 | 4-6 | --- | <10 | <25 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | <0.500 |
| MW-4-7-9 | Maxim | 03/19/02 | 7-9 | --- | 505 | 40.2 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | **13.6** |
| MW-4-12-14 | Maxim | 03/19/02 | 12-14 | --- | 15.2 | <25 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | <0.500 |
| MW-5-4-6 | Maxim | 03/19/02 | 4-6 | --- | 328 | <25 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | **16.8** |
| MW-5-9.5-11.5 | Maxim | 03/19/02 | 9.5-11.5 | --- | 45.4 | 40.3 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | 0.544 |
| MW-6-22-24 | Maxim | 3/19/2002 | 22-24 | --- | 68 | <25 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | 1.6 |
| MW-6-42 | Maxim | 3/20/2002 | 42 | --- | 27.9 | 29.2 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | <0.500 |
| MW-7-4-4.5 | Maxim | 3/20/2002 | 4-4.5 | --- | 301 | <25 | <0.0250 | <0.200 | <0.200 | 0.402 | --- | **20.3** |
| MW-7-37 | Maxim | 3/20/2002 | 37 | --- | 87.1 | 47.4 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | <0.500 |
| MW-8-4-6 | Maxim | 3/20/2002 | 4-6 | --- | <10 | <25 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | <0.500 |
| MW-8-36 | Maxim | 3/20/2002 | 36 | --- | 26.7 | 35.1 | <0.0250 | <0.200 | <0.200 | <0.200 | --- | <0.500 |

# Table 2

## Summary of Soil Analytical Data
## Yellowstone Pipeline
## Geiger Correctional Facility
## Spokane, Washington

| | | | | HYDROCARBONS | | | PRIMARY VOCs | | | | OXYGENATES | PAHs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **Consultant** | **Sample Date** | **Sample Depth** | **TPHg** | **TPHd** | **TPHo** | **B** | **T** | **E** | **X** | **MTBE** | **Naphthalenes** |
| | **MTCA Method A Screening Levels** | | | **30/100** | **2,000** | **2,000** | **0.03** | **7** | **6** | **9** | **0.1** | **5** |
| | | | ***ft bgs*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** | ***(mg/kg)*** |
| MP-1R-4.5-4.6-1013 | AECOM | 10/8/2013 | 4.5-4.6 | <6.7 | 47.3 | <101 | <0.0274 | <0.0685 | <0.0685 | <0.205 | --- | --- |
| MW-5D-4.9-5.9-1013 | AECOM | 10/7/2013 | 4.9-5.9 | **412** | **2,580** | <84.9 | <0.0237 | <0.0592 | <0.0592 | <0.178 | --- | --- |
| MW-5D-35-35.2-1013 | AECOM | 10/7/2013 | 35-35.2 | **117** | 54.9 | <87.8 | <0.0282 | <0.0706 | <0.0706 | <0.212 | --- | --- |
| MW-90-4.4-4.5-1013 | AECOM | 10/15/2013 | 4.4-4.5 | <4.9 | <21.2 | <84.2 | <0.0229 | <0.0573 | <0.0573 | <0.172 | --- | --- |
| MW-9-4.4-4.5-1013 | AECOM | 10/15/2013 | 4.4-4.5 | <8.1 | <21.1 | <84.4 | <0.0221 | <0.0553 | <0.0553 | <0.166 | --- | --- |

Notes:

MTCA = Model Toxics Control Act

-- = Not analyzed or not reported

All results in milligrams per kilogram (mg/kg) unless otherwise indicated.

Results in bold indicate an exceedance of the MTCA Method A cleanup levels.

ft bgs = feet below ground surface

TPHg = Total petroleum hydrocarbons as gasoline range organics analyzed by NWTPH-Gx; before May 20, 2008, analyzed by EPA Method 8015, unless otherwise noted

TPHd = Total petroleum hydrocarbons as diesel range organics analyzed by NWTPH-Dx; before May 20, 2008, analyzed by Method WTPH-HICD; before June 2, 1992, analyzed by EPA Method 8015, unless otherwise noted

TPHo = Total petroleum hydrocarbons as heavy oil range organics analyzed by NWTPH-Dx; before May 20, 2008, analyzed by Method WTPH-HCID, unless otherwise noted

BTEX = Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B; before May 20, 2008, analyzed by EPA Method 8020 unless otherwise noted

VOCs = volatile organic compounds

<x = Not detected at reporting limit x

Shading indicates the soil sample has been overexcavated.

* = Generic direct contact TPHg cleanup level from *Model Remedies for Sites with Petroleum Contaminated Soils*