

December 7, 2020

Ms. Janine Boyette  
Response and Remediation SME  
Alyeska Pipeline Service Company  
P.O. BOX 196660  
Anchorage, AK 99519-6660

**Re: 2020 Product Recovery Report, Pump Station 9 Mainline Turbine Sump**

Dear Ms. Boyette,

SLR International Corporation (SLR) conducted recovery of separate phase hydrocarbons (hereafter referred to as free product) at the Mainline Turbine (MLT) Sump site at Pump Station 9 (PS09) for Alyeska Pipeline Service Company (Alyeska) in 2020 (Figure 1). Recovery well product thicknesses were gauged, and product was recovered during seven different site visits. The composition of recovered fluid (water vs. product) was also analyzed in 2020. This report summarizes the site activities including project approach, methodology, and product recovery.

#### **PROJECT BACKGROUND**

Alyeska encountered petroleum-contaminated soil during the removal of the PS09 MLT sump in October 1996 (Alyeska spill number 1996130). The site was excavated to the extent practical; however, diesel range organic contaminated soil remained in the subsurface at concentrations greater than the Alaska Department of Environmental Conservation soil cleanup level.

Environmental investigations have been ongoing at this site since 1997, when an Alyeska contractor advanced three soil borings to assess the extent of subsurface contamination underlying the former MLT sump. A subsurface investigation conducted in July 1997 confirmed the presence of contamination to at least 65 feet (ft) below ground surface (bgs) in the vicinity of the MLT sump. During this drilling, cobbles and boulders prevented boring advancement beyond 65 ft bgs. Later in 1997, an additional boring was advanced through the source area using an air rotary drill rig and was completed as monitoring well (MW) MW-1. While drilling MW-1, petroleum hydrocarbon-impacted soil was noted to extend to a depth of 110 ft bgs, where groundwater was encountered. A thin layer of free product was measured on the top of the groundwater table and was tentatively identified as weathered turbine fuel. Two additional monitoring wells, MW-2 and MW-3, were installed in 1997 to evaluate the direction of groundwater flow and the hydraulic gradient at the site. MW-2 was installed west of the MLT sump and MW-3 was installed approximately 200 ft southwest of the MLT sump (Figure 3; EMCON, 1998). Beginning in 1998, MW-1 was used as a product recovery well (Figures 2 and 3; EMCON, 1998).

In 1998, eight additional soil borings were advanced with seven converted into monitoring wells (MW-4 through MW-10). Soil and groundwater samples were also collected as part of the 1998 investigation. MW-9 was decommissioned and MW-4 was destroyed, leaving the current total of eight monitoring and recovery wells on site (EMCON, 1999).

Product recovery using both product bailers and product-selective sorbent socks (sorbents) has been conducted from 2011 to 2018. MW-6 was decommissioned in 2017 and is no longer used for product recovery (SLR, 2018). Since 2017, only MW-1 and MW-5 have been used for product recovery. Starting in 2019, product recovery using bailers was discontinued, and only sorbents have been used to recover product.

### **Physical Setting**

PS09 is located approximately 7 miles south of Delta Junction on the Richardson Highway in the Tanana-Kuskokwim lowlands region of interior Alaska (Figure 1). The pump station is situated in an area of relatively flat topography at an elevation of 1,500 ft above mean sea level. The pump station is built on a gravel pad and consists of several buildings, pipeline infrastructure, and a tank farm (Figure 2). Monitoring and free product recovery wells are situated around and hydraulically downgradient of the former MLT sump (Figure 3).

### **Geology and Hydrogeology**

Soil and sediments at PS09 consist of glacial outwash and Pleistocene surficial deposits of the Tanana River drainage. During subsurface investigations and monitoring well installations conducted in 1998, the soil underlying PS09 was found to be predominantly poorly-sorted, well-rounded sand and gravel with cobbles and boulders consistent with glacial outwash deposits (EMCON, 1999). The lithology description recorded on the PS09 drinking water well log indicates that the pump station is underlain by at least 420 ft of unconsolidated, coarse sediments consisting of sand, cobbles, and boulders also indicative of glacial outwash sediments. During the 1998 investigation, groundwater was encountered at approximately 110 ft below ground surface (bgs). This aquifer appeared to be discontinuous and only a few feet thick, terminating in a dry, dense stratum of gravel and cobbles (EMCON, 1999).

### **Free Product Recovery**

Free product recovery was initiated following the installation of MW-1 in 1997 and MW-5 and MW-6 in 1998. Product recovery has been performed each subsequent summer until the present (2020).

Overall, annual recovery of free product has varied following shutdown of the oil skimmer pumps in 2009. From 2011 to 2020, the volume of recovered product has varied between 8.7 gallons recovered in 2012 to 30.8 gallons recovered in 2013. In general, approximately 15 gallons of product have been recovered annually from 2011 to 2020.

## PROJECT OBJECTIVES

The objectives of the project activities completed in 2020 included continued recovery of free product from MW-1 and MW-5, analysis of recovered fluids to determine the ratio of product to water, and installation of heat trace in MW-1 and MW-5 at the conclusion of product recovery activities to facilitate recovery activities in early June 2021.

## SUMMARY OF FIELD ACTIVITIES

This section describes well thawing, product gauging, free product recovery, analysis of recovered product, and heat trace installation. Field activities were conducted in accordance with the 2020-2022 *Groundwater Monitoring and Product Recovery Work Plan* (Work Plan; SLR, 2020).

### Well Thawing

Heat trace wire installed the previous fall was used to thaw ice in the upper casing of MW-1 and MW-5 on July 1, 2020. Thawing of ice in recovery wells was necessary to facilitate early product measurements and product recovery. This is a significant improvement over waiting for natural thawing to occur, which occurred as late as August in previous years.

### Product Gauging

Product recovery activities were performed between July 29 and November 11, 2020 and included measurement of free product thicknesses and product recovery at MW-1 and MW-5. Both wells were gauged for free product and depth to water using an oil/water interface probe. The apparent product thickness in recovery wells was calculated by subtracting the depth to product from the depth to water. The interface probe was decontaminated using a non-ionic detergent solution following gauging activities. Product recovery activities are documented in the project field logbook (Attachment 1).

### Free Product Recovery

SLR visited the site on eight separate occasions in 2020 to thaw, gauge, or conduct product recovery from MW-1 and MW-5. Wells were thawed during an initial visit on July 1. Free product recovery was first conducted on July 29, then on each subsequent visit, for a total of seven product recovery events. The individual product recovery events were conducted on July 29, August 11, August 24, September 15, September 29, October 14, and November 11. Field measurements of depth to free product, depth to water, and free product thickness before and after recovery were recorded in the Field Logbook (Attachment 1) and are presented in Table 1.

## Recovery Method

Product recovery was accomplished using sorbents. Sorbents used were Durham Geo Slope Indicator SoakEase 2-inch and 4-inch socks. Sorbents were used as bailers through the 2020 field season since initial product thicknesses were approximately 0.3 ft. The sorbents typically reduced product thickness to less than 0.01 ft after three to five deployments.

## Product Volume Measurement

The volume of free product recovered using sorbents was estimated using a visually-determined measurement of free product absorbed by each sorbent, as indicated by product discoloration, and estimating a product volume using vendor specifications of sorbent capacity at full saturation. In the past (2014-2019), the assumption was made that all absorption that occurred was composed entirely of free product. However, in past years, a water and turbine fuel mix has been observed in the oily waste bags containing the spent sorbents. Therefore, the calculated volume of free product recovered with sorbents has been considered to be biased high, until now no correction has been made to adjust recovered product volumes to account for this bias.

Thickness of free product present in a formation (true thickness) is smaller than that floating on top of the water in a monitoring well (apparent thickness). Factors affecting the difference between the true thickness and the apparent thickness include the density of the free product, density of the groundwater, and the characteristics of the formation. All product thicknesses described in this report are presented in terms of apparent thickness as measured in the product recovery wells.

## Analysis of Recovered Fluid

The composition of recovered fluids from MW-1 and MW-5 was analyzed using a sorbent sock wringer, 1-liter capacity graduated cylinder, and an electronic scale. Recovered fluid was removed from sorbents using a wringer from MW-1 on three visits and from MW-5 on four visits. Recovered fluid was initially collected in a bucket below the wringer and was then transferred to a graduated cylinder. A volumetric measurement of product and water was then made to determine the percent (%) of recovered fluid composed of water, and the percent of recovered fluid composed of product. Analysis of recovered fluid is contained in Table 2A, which was used to correct product recovery estimates for MW-1 in Table 2B, and in Table 3A, which was used to correct product recovery estimates for MW-5 in Table 3B.

Sorbents that were run through a wringer were then weighed. The difference in weight between sorbents that had been wrung and unused sorbents was attributed to product remaining in the sorbent. The weight of product remaining in the sorbent was converted to a volume using a turbine fuel density measured in the field. The volume of product remaining in wrung sorbents was then added to the product recovered using the wringer and used in the calculation to determine the ratio of product to water recovered by each type of sorbent.

Evaluations of 2" and 4" sorbents were performed separately, and each evaluation was performed using the number of sorbents required to remove product from the associated well to a thickness less than 0.01-foot.

At MW-1, the measured volume of product recovered by 2" SoakEase sorbents was approximately 36% of the vendor capacity estimate based on visual saturation. At MW-5, the measured volume of product recovered by 4" SoakEase sorbents was approximately 60% of the vendor capacity estimate based on visual saturation.

Product recovery estimates for both 2019 and 2020 were updated based on the percentages (36% for 2" sorbents, and 60% for 4" sorbents). Years prior to 2019 could not be updated because product was recovered with both bailers and sorbents.

### **Heat Trace Emplacement**

SLR placed heat trace wire in MW-1 and MW-5 at the conclusion of the product recovery event on November 11, 2020. The heat traces extend to approximately 20 ft bgs in each well and are powered by a portable gasoline-powered generator placed in a rubber drip containment mat. Prior to placement of the heat trace in MW-5, 2.5" of well casing were removed to allow closure of the well vault over the wiring in the new well cap.

### **Work Plan Deviations**

One deviation to the Work Plan was noted. The density of recovered product was calculated on site at 826 grams per liter using the measured weight of one liter of recovered product, rather than using a density of 840 grams per liter as indicated in the Work Plan (SLR, 2020).

### **Waste Management**

Solid and liquid wastes generated during field activities were managed as follows:

- Disposable material (trash) was disposed of as non-oily waste and placed in the appropriate garbage receptacle at PS09.
- Used sorbents were placed in double-bagged oily-waste bags and left in the appropriate oily-waste receptacle at PS09 for offsite disposal.
- Recovered free product was transferred to a pipeline sump for injection into the pipeline.

Disposal of waste materials was discussed with the PS09 Waste Single Point of Contact and/or Operations and Maintenance Supervisor prior to each field event.

## RESULTS OF FIELD ACTIVITIES

This section describes the results of field activities completed in 2020 which included measurement of groundwater elevations, measurement of product thickness, and free product recovery. Measurements of groundwater elevations and product thickness at recovery wells are presented on Table 1. The maximum gauged product thicknesses from 1998 through 2010 and recovery volumes and product thicknesses for 2011 through 2020 for MW-1 and MW-5 are presented on Tables 2B and 3B, respectively. Field activities are documented in the Field Logbook (Attachment 1) and Photograph Log (Attachment 2).

### Groundwater Elevations

Groundwater elevations measured at MW-1 and MW-5 in 2020 were higher than the previous year, ranging from 5 to 7 ft above elevations measured on the same day in 2019 in both MW-1 and MW-5 (Table 1). The elevations collected over the life of the project in monitoring and product recovery wells suggest a general north-northwest flow direction; however, the aquifer is perched and discontinuous, therefore the assumed gradient is subject to uncertainty (SLR, 2018).

### Apparent Free Product Thickness

Apparent product thickness decreased in MW-1 over the course of the summer but was variable in MW-5. The magnitude of product thickness decrease achieved in each well was generally similar to results from previous years.

Historical product gauging results for MW-1 and MW-5 are shown on Tables 2B and 3B, respectively, and are summarized as follows:

- **MW-1:** The pre-recovery apparent product thickness of 0.61 ft in 2020 was greater than 0.25 ft measured in 2019, but was well below the high of 1.72 ft in 2014. Additionally, the final product thickness of 0.15 ft measured prior to the final recovery event was higher than the final measurement of 0.04 ft in 2019. The final product thickness was lower than the true product thickness of 0.27 to 0.30 ft determined from the 2015 baildown test.
- **MW-5:** The pre-recovery apparent product thickness of 0.30 ft was comparable to the 0.33 ft pre-recovery thickness measured in 2019. The final product thickness of 1.46 ft measured prior to the final recovery event was anomalous, and much higher than the final product thickness of 0.13 ft in 2019. In general, product thicknesses measured throughout the 2020 were slightly higher than measurements collected throughout 2019.

At MW-1, initial product thicknesses measured at the first event increased from 2015 to 2018 but decreased from 2018 to 2020. Product thicknesses at MW-1 typically decrease throughout the summer following each consecutive recovery event.

At MW-5, initial product thicknesses measured at the first event have generally remained constant from 2015 to 2018. The initial product thicknesses of 0.33 ft and 0.30 ft in 2019 and 2020, respectively, represent a substantial reduction in thickness from prior years. Product thicknesses at MW-5 typically decrease throughout the summer following each consecutive recovery event.

Sorbents were not left behind in each well as a means of passive product recovery between visits during the 2020 product recovery season. Passive recovery using sorbents between visits was eliminated in 2018 so that an initial measurement prior to product recovery would capture a measurement of product thickness in each well that was as accurate as possible.

Variations in product thickness between years may be the result of a combination of ice plug melt water in the beginning of each season, continued product recovery, and year-to-year changes in groundwater elevations. Overall, the apparent free product thicknesses have decreased since gauging of recovery wells began in 1997.

### **Free Product Recovery**

The total product volume recovered from MW-1 and MW-5 during the seven visits conducted in 2020 increased for MW-1 and decreased for MW-5 compared to 2019. The total product volume recovered at MW-1 in 2020 was 1.4 gallons, an increase from the 1.2 gallons recovered in 2019. The total product volume recovered at MW-5 in 2020 was 8.0 gallons, a decrease from the 13.5 gallons recovered in 2019.

The results of annual product recovery events completed for MW-1 and MW-5 are presented in Tables 2B and 3B, respectively and a comparison of product recovery periods is provided on Table 4. Results of 2020 product recovery activities are summarized as follows:

- **MW-1:** The total free product recovered was approximately 1.4 gal, an increase of 0.2 gal from 2019, but the fourth lowest amount of product recovered annually since 2011. The volume recovered in 2020 accounts for 4% of the 32.1 gal of product recovered from this well since 2011.
- **MW-5:** The total free product recovered was approximately 8.0 gal, a decrease of 5.5 gal compared to 2019. The volume recovered represents 7% of the 114.3 gal of product recovered from this well since 2011.

The year-end total product recovery volumes for MW-1 and MW-5 depicted on Table 4 are variable and do not correlate directly to the number of recovery events. This suggests that the effectiveness of recovery events varies from year to year. For example, 17.0 gal was recovered in nine events in 2018, for an average of 1.9 gal recovered per event. In 2020, 9.4 gal was recovered in seven events, for an average of 1.3 gal recovered per event (Table 4).

The total volume of recovered product to date of approximately 1,240 gal represents a substantial portion (62%) of the approximately 2,000 gal thought to have been released. The product recovered in 2020 represents only 0.8% of the total of approximately 1,240 gal of free product that have been recovered by all methods since discovery of the release in 1996 (Table 4). Additionally, the 155 gal of product recovered between 2011 and 2020 represents only a small fraction (12.5%) of the total volume of product recovered since 1996.

### CONCLUSIONS AND RECOMMENDATIONS

Recovered fluid was collected from 2" and 4" sorbents using a wringer and measured using a graduated cylinder and electronic scale. At MW-1, the measured volume of product recovered by 2" SoakEase sorbents was approximately 36% of the vendor capacity estimate based on visual saturation. At MW-5, the measured volume of product recovered by 4" SoakEase sorbents was approximately 60% of the vendor capacity estimate based on visual saturation. Reduced product capacity in the sorbents was due to water entrained in the hydrophobic sorbent material. Based on these measurements, actual product volume recovery estimates were updated for both 2019 and 2020. Product volume recovery estimates could not be updated for years up to and including 2018 because product bailers were used in addition to sorbents.

In 2020, product thickness in MW-1 and MW-5 varied during the summer but show an overall decrease between recovery events, with the exception of the anomalous apparent product thickness measured at MW-5 on November 11, 2020. The total volume of product recovered from both MW-1 and MW-5 decreased by 5.3 gal from 2019. Starting in 2019, product recovery has been conducted using sorbents only. Bailers were last used in 2018 due to decreasing effectiveness for recovering thin layers of product.

Based on the above findings, SLR recommends the following activities for 2021:

- Thaw MW-1 and MW-5 in early June to continue product recovery if apparent product thicknesses exceed the minimum of 0.1 ft.
- Conduct biennial groundwater monitoring in 2021 and continue product recovery according to the 2020-2022 Work Plan (SLR, 2020).

Sincerely,

**SLR International Corporation**



Brett Woelber, P.G.  
Associate Scientist



Carl Benson  
Principal Scientist

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Ms. Janine Boyette

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## REFERENCES

EMCON Alaska, Inc. (EMCON), 1998. Final Contamination Assessment Report, Former Main Line Turbine Sump, Pump Station 9, Trans Alaska Pipeline, Delta Junction, Alaska. May.

EMCON, 1999. Final Contamination Assessment Report, Former Main Line Turbine Sump, Pump Station 9, Trans Alaska Pipeline, Delta Junction, Alaska. February.

SLR International Corporation (SLR), 2018. 2017 Groundwater Monitoring and Product Recovery Report, Pump Station 9 Mainline Turbine Sump. March.

SLR, 2020. 2020-2022 Groundwater Monitoring and Product Recovery Work Plan, Pump Station 9 Mainline Turbine Sump. June.

Cc Ms. Janice Wiegers

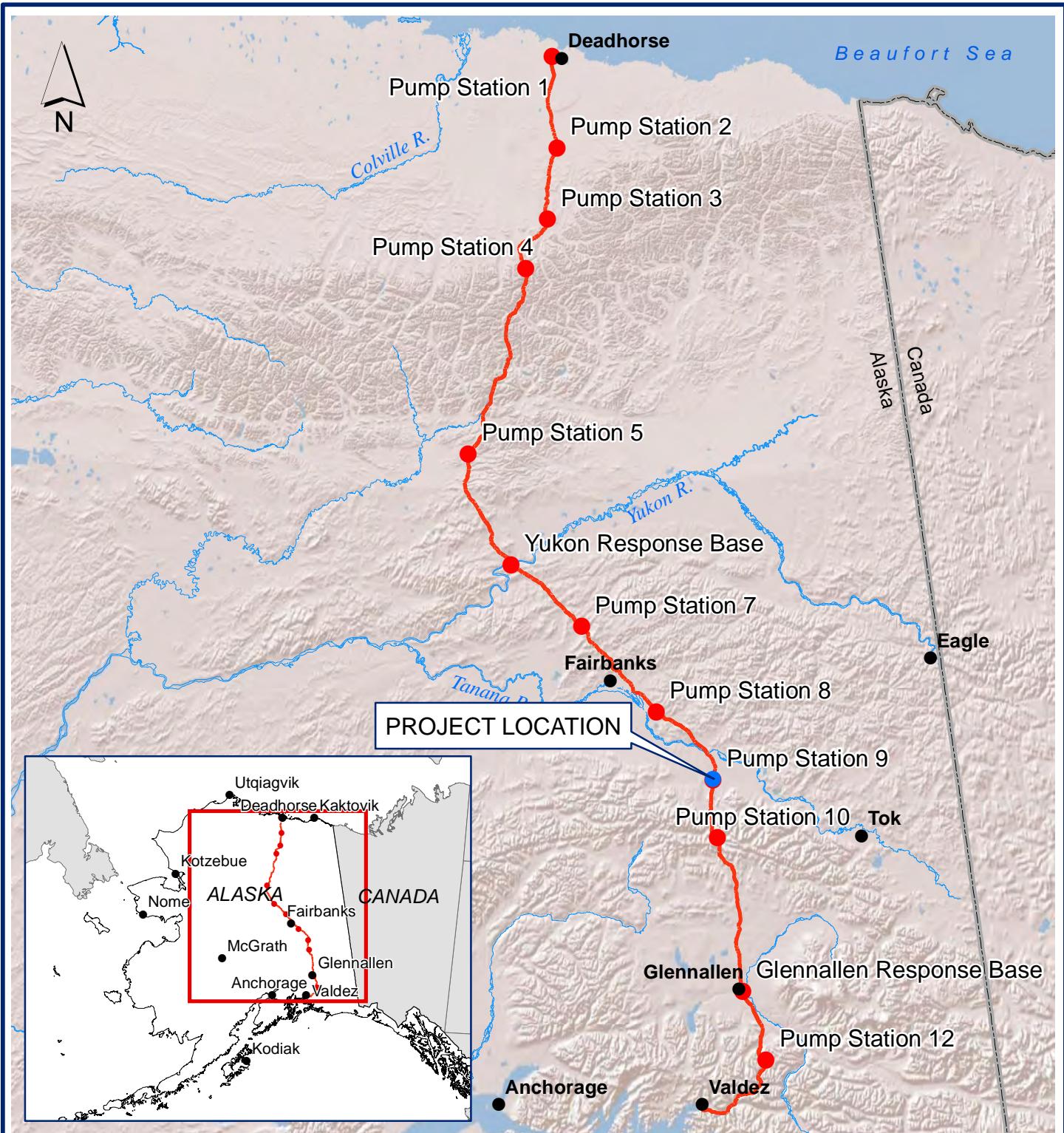
Enc Figure 1 – Site Location Map  
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Figure 3 – Groundwater Monitoring Well Locations  
Table 1 – Groundwater and Free Product Elevations  
Table 2A – 2020 Correction Factor Calculations for MW-1 Sorbent Sock Product Recovery  
Table 2B – 1998-2020 MW-1 Summary of Product Gauging and Recovery  
Table 3A – 2020 Correction Factor Calculations for MW-5 Sorbent Sock Product Recovery  
Table 3B – 1998-2020 MW-5 Summary of Product Gauging and Recovery  
Table 4 – 1998-2020 Annual Product Recovery Summary  
Attachment 1 – Field Logbook  
Attachment 2 – Photograph Log

## FIGURES

**Figure 1**      **Site Location Map**

**Figure 2**      **Site Vicinity Map**

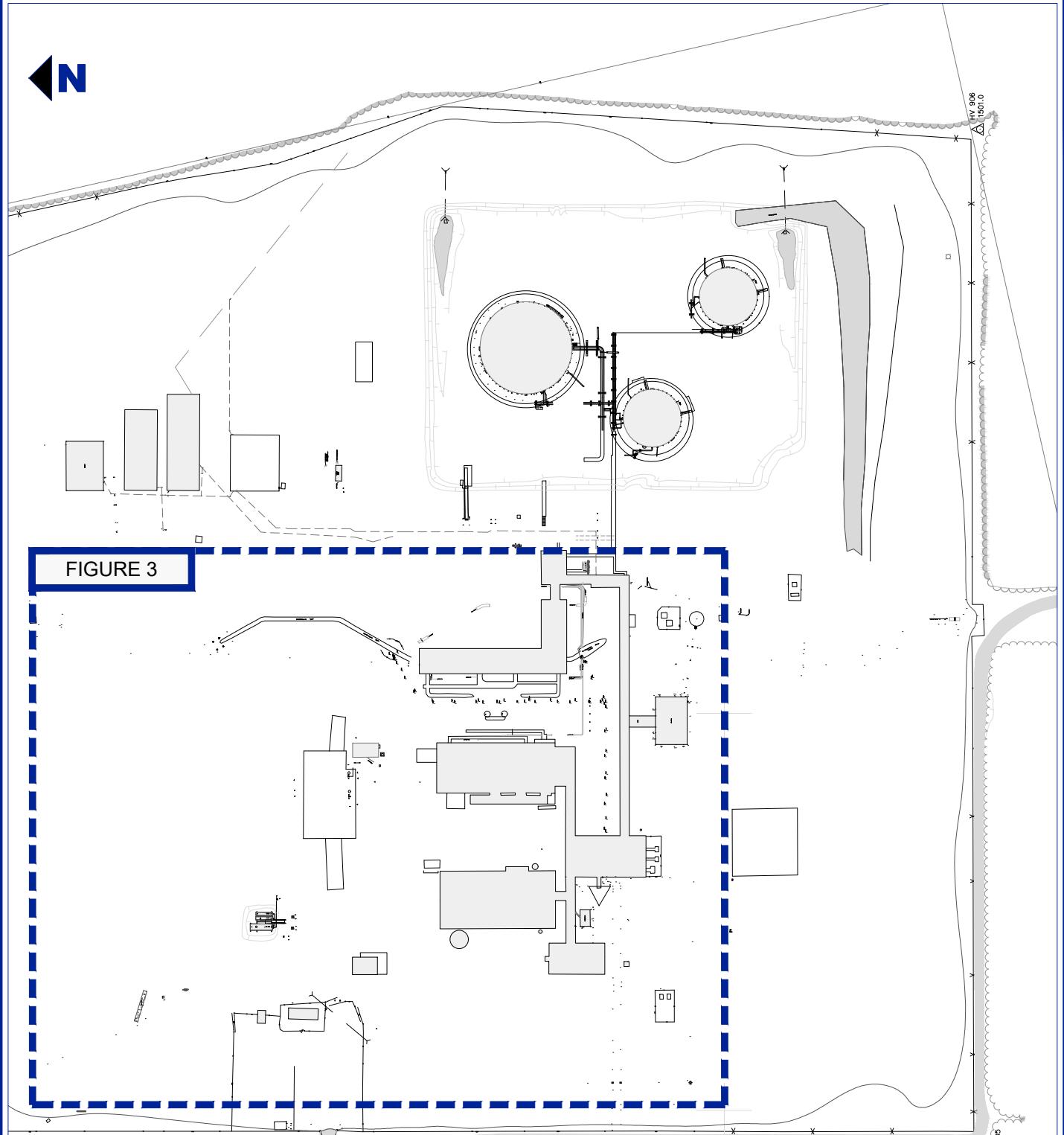
**Figure 3**      **Groundwater Monitoring Well Locations**



|           |   |                             |
|-----------|---|-----------------------------|
| Site      | ALYESKA PIPELINE SERVICE COMPANY<br>PUMP STATION 9<br>PIPELINE MILEPOST 548.7 |                             |
| Report    | 2020 PRODUCT RECOVERY REPORT<br>PUMP STATION 9 MAINLINE TURBINE SUMP          |                             |
| Drawing   | SITE LOCATION MAP   |                             |
| Drawing   | December 2020   | Scale As Shown              |
| File Name | F1 PS09 MLT RPT_20.mxd  | Project No. 105.01288.20025 |
| Fig. No.  | 1   |                             |

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FIGURE 3



Site  
ALYESKA PIPELINE SERVICE COMPANY  
PUMP STATION 9  
PIPELINE MILEPOST 548.7

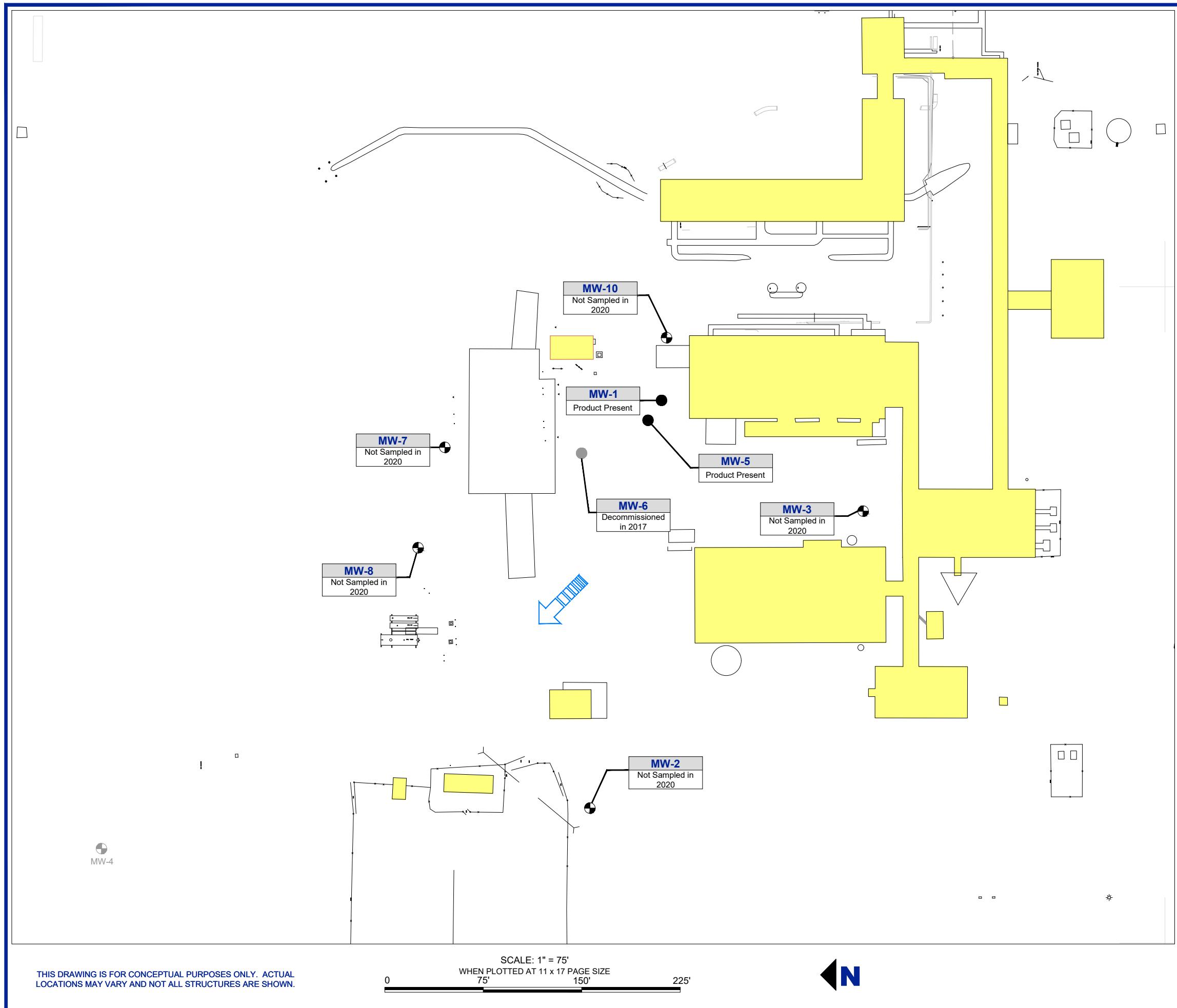
Report  
2020 PRODUCT RECOVERY REPORT  
PUMP STATION 9 MAINLINE TURBINE SUMP

Drawing  
SITE VICINITY MAP

|                              |                     |                             |
|------------------------------|---------------------|-----------------------------|
| Date December 2020           | Scale 1" = 100 Feet | Fig. No.                    |
| File Name F2 PS09 MLT RPT_20 |                     | Project No. 105.01288.20025 |

SCALE: 1" = 100 FEET  
WHEN PLOTTED AT 8.5 x 11 PAGE SIZE  
0 100 200 300 FEET

THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.



THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

SCALE: 1" = 75'  
WHEN PLOTTED AT 11 x 17 PAGE SIZE  
75' 150' 225'



**LEGEND**

-  MW-3 MONITORING WELL LOCATION
-  MW-4 DESTROYED MONITORING WELL
-  MW-1 RECOVERY WELL LOCATION
-  MW-6 RECOVERY WELL (DECOMMISSIONED)
-  APPARENT GROUNDWATER FLOW DIRECTION

**Site**  
ALYESKA PIPELINE SERVICE COMPANY  
PUMP STATION 9  
PIPELINE MILEPOST 548.7

**Report**  
2020 PRODUCT RECOVERY REPORT  
PUMP STATION 9 MAINLINE TURBINE SUMP

**Drawing**  
**GROUNDWATER MONITORING WELL LOCATIONS**

|                              |                             |          |
|------------------------------|-----------------------------|----------|
| Date December 2020           | Scale 1" = 75 Feet          | Fig. No. |
| File Name F3 PS09 MLT RPT_20 | Project No. 105.01288.20025 | 3        |



## TABLES

- Table 1** **Groundwater and Free Product Elevations**
- Table 2A** **2020 Correction Factor Calculations for MW-1 Sorbent Sock Product Recovery**
- Table 2B** **1998-2020 MW-1 Summary of Product Gauging and Recovery**
- Table 3A** **2020 Correction Factor Calculations for MW-5 Sorbent Sock Product Recovery**
- Table 3B** **1998-2020 MW-5 Summary of Product Gauging and Recovery**
- Table 4** **1998-2020 Annual Product Recovery Summary**

**Table 1 - Groundwater and Free Product Elevations**  
**PS09 Mainline Turbine Sump**

| Well Name | Date       | Well Elevation<br>(feet above<br>MSL) <sup>A</sup> | Depth to<br>Groundwater<br>(feet) | Groundwater<br>Elevation <sup>B</sup><br>(feet above MSL) | Depth to Free<br>Product (feet) | Free Product<br>Elevation<br>(feet above MSL) | Apparent Free<br>Product Thickness<br>(feet) |
|-----------|------------|--|-----------------------------------|---|---------------------------------|---|--|
| MW-1      | 11/7/1997  | 1504.98  | 114.77                            | 1390.21   | NM                              | NM  | NM   |
|           | 4/1/1998   | 1504.98  | 114.61                            | 1390.37   | NM                              | NM  | NM   |
|           | 11/22/1998 | 1504.98  | 114.73                            | 1390.25   | 114.54                          | 1390.44                                       | 0.19   |
|           | 12/1/1998  | 1504.98  | 114.78                            | 1390.20   | 114.59                          | 1390.39                                       | 0.19   |
|           | 6/8/1999   | 1504.98  | 116.03                            | 1388.95   | 115.13                          | 1389.85                                       | 0.90   |
|           | 9/16/1999  | 1504.98  | 115.93                            | 1389.05   | 115.58                          | 1389.40                                       | 0.35   |
|           | 10/7/1999  | 1504.98  | 116.71                            | 1388.27   | 115.48                          | 1389.50                                       | 1.23   |
|           | 11/11/1999 | 1504.98  | 116.66                            | 1388.32   | 115.51                          | 1389.47                                       | 1.15   |
|           | 5/17/2000  | 1504.98  | 115.52                            | 1389.46   | 114.52                          | 1390.46                                       | 1.00   |
|           | 12/28/2000 | 1504.98  | 112.00                            | 1392.98   | 104.80                          | 1400.18                                       | 7.20   |
|           | 7/19/2001  | 1501.23  | 106.40                            | 1394.83   | 101.92                          | 1399.31                                       | 4.48   |
|           | 9/19/2001  | 1501.23  | 104.25                            | 1396.98   | 103.65                          | 1397.58                                       | 0.60   |
|           | 6/10/2002  | 1501.23  | 108.90                            | 1392.33   | 108.56                          | 1392.67                                       | 0.34   |
|           | 10/2/2002  | 1501.23  | 109.58                            | 1391.65   | 109.37                          | 1391.86                                       | 0.21   |
|           | 6/3/2003   | 1501.23  | 111.07                            | 1390.16   | 110.12                          | 1391.11                                       | 0.95   |
|           | 6/23/2003  | 1501.23  | 110.52                            | 1390.71   | 110.20                          | 1391.03                                       | 0.32   |
|           | 7/24/2003  | 1501.23  | 110.88                            | 1390.35   | 110.41                          | 1390.82                                       | 0.47   |
|           | 8/28/2003  | 1501.23  | 111.36                            | 1389.87   | 110.71                          | 1390.52                                       | 0.65   |
|           | 9/15/2003  | 1501.23  | 111.56                            | 1389.67   | 110.89                          | 1390.34                                       | 0.67   |
|           | 10/3/2003  | 1501.23  | 111.37                            | 1389.86   | 110.72                          | 1390.51                                       | 0.65   |
|           | 6/2/2004   | 1501.23  | 111.89                            | 1389.34   | 110.99                          | 1390.24                                       | 0.90   |
|           | 6/3/2004   | 1501.23  | 111.44                            | 1389.79   | 111.15                          | 1390.08                                       | 0.29   |
|           | 6/10/2004  | 1501.23  | 110.90                            | 1390.33   | 110.81                          | 1390.42                                       | 0.09   |
|           | 7/8/2004   | 1501.23  | 110.46                            | 1390.77   | 110.44                          | 1390.79                                       | 0.02   |
|           | 7/20/2004  | 1501.23  | 110.22                            | 1391.01   | 110.22                          | 1391.01                                       | 0.00   |
|           | 8/12/2004  | 1501.23  | 110.14                            | 1391.09   | 110.08                          | 1391.15                                       | 0.06   |
|           | 9/2/2004   | 1501.23  | 109.83                            | 1391.40   | 109.82                          | 1391.41                                       | 0.01   |
|           | 10/19/2004 | 1501.23  | 109.88                            | 1391.35   | 109.84                          | 1391.39                                       | 0.04   |
|           | 6/20/2005  | 1501.23  | 110.74                            | 1390.49   | 110.74                          | 1390.49                                       | 0.00   |
|           | 6/28/2005  | 1501.23  | 109.52                            | 1391.71   | 109.52                          | 1391.71                                       | 0.00   |
|           | 10/17/2005 | 1501.23  | 109.19                            | 1392.04   | 109.19                          | 1392.04                                       | 0.00   |
|           | 11/3/2005  | 1501.23  | 109.18                            | 1392.05   | 109.15                          | 1392.08                                       | 0.03   |
|           | 5/31/2006  | 1501.23  | 111.41                            | 1389.82   | 110.70                          | 1390.53                                       | 0.71   |
|           | 7/13/2006  | 1501.23  | 111.02                            | 1390.21   | 110.79                          | 1390.44                                       | 0.23   |
|           | 10/5/2006  | 1501.23  | 108.54                            | 1392.69   | 108.02                          | 1393.21                                       | 0.52   |
|           | 5/30/2007  | 1501.23  | 109.54                            | 1391.69   | 108.78                          | 1392.45                                       | 0.76   |
|           | 7/18/2007  | 1501.23  | 109.74                            | 1391.49   | 109.32                          | 1391.91                                       | 0.42   |
|           | 8/3/2007   | 1501.23  | 110.05                            | 1391.18   | 109.57                          | 1391.66                                       | 0.48   |
|           | 8/17/2007  | 1501.23  | 109.51                            | 1391.72   | N/A                             | N/A   | 0.00   |
|           | 9/13/2007  | 1501.23  | 109.69                            | 1391.54   | 109.685                         | 1391.55                                       | 0.005  |
|           | 9/21/2007  | 1501.23  | 109.67                            | 1391.56   | N/A                             | N/A   | 0.00   |
|           | 10/5/2007  | 1501.23  | 109.29                            | 1391.94   | N/A                             | N/A   | 0.00   |
|           | 10/12/2007 | 1501.23  | 109.33                            | 1391.90   | N/A                             | N/A   | 0.00   |
|           | 11/2/2007  | 1501.23  | 109.25                            | 1391.98   | N/A                             | N/A   | 0.00   |
|           | 6/2/2008   | 1501.23  | 110.22                            | 1391.01   | 109.80                          | 1391.43                                       | 0.42   |
|           | 7/1/2008   | 1501.23  | 110.35                            | 1390.88   | N/A                             | N/A   | 0.00   |
|           | 7/18/2008  | 1501.23  | 110.43                            | 1390.80   | 110.38                          | 1390.85                                       | 0.05   |
|           | 7/23/2008  | 1501.23  | 110.59                            | 1390.64   | 110.50                          | 1390.73                                       | 0.09   |
|           | 7/25/2008  | 1501.23  | 110.60                            | 1390.63   | 110.54                          | 1390.69                                       | 0.06   |
|           | 8/12/2008  | 1501.23  | 110.41                            | 1390.82   | 110.40                          | 1390.83                                       | 0.01   |
|           | 9/3/2008   | 1501.23  | 109.70                            | 1391.53   | N/A                             | N/A   | 0.00   |
|           | 9/12/2008  | 1501.23  | 109.33                            | 1391.90   | 109.19                          | 1392.04                                       | 0.14   |
|           | 10/8/2008  | 1501.23  | 107.67                            | 1393.56   | 106.68                          | 1394.55                                       | 0.99   |
|           | 7/17/2009  | 1501.23  | 108.36                            | 1392.87   | 104.48                          | 1396.75                                       | 3.88   |
|           | 8/7/2010   | 1501.23  | 110.27                            | 1390.96   | 109.95                          | 1391.28                                       | 0.32   |
|           | 9/25/2010  | 1501.23  | 108.28                            | 1392.95   | 107.63                          | 1393.60                                       | 0.65   |
|           | 10/8/2010  | 1501.23  | 108.25                            | 1392.98   | 107.43                          | 1393.80                                       | 0.82   |
|           | 10/12/2010 | 1501.23  | 107.88                            | 1393.35   | 107.28                          | 1393.95                                       | 0.60   |
|           | 6/24/2011  | 1501.23  | 108.94                            | 1392.29   | 107.94                          | 1393.29                                       | 1.00   |
|           | 7/18/2011  | 1501.23  | 109.02                            | 1392.21   | 108.34                          | 1392.89                                       | 0.68   |
|           | 7/26/2011  | 1501.23  | 108.64                            | 1392.59   | 108.45                          | 1392.78                                       | 0.19   |
|           | 8/8/2011   | 1501.23  | 108.75                            | 1392.48   | 108.69                          | 1392.54                                       | 0.06   |
|           | 8/22/2011  | 1501.23  | 108.54                            | 1392.69   | 108.53                          | 1392.70                                       | 0.01   |
|           | 9/9/2011   | 1501.23  | 108.86                            | 1392.37   | 108.84                          | 1392.39                                       | 0.02   |
|           | 9/19/2011  | 1501.23  | 108.61                            | 1392.62   | 108.6                           | 1392.63                                       | 0.01   |
|           | 10/6/2011  | 1501.23  | 108.52                            | 1392.71   | 108.51                          | 1392.72                                       | 0.01   |

**Table 1 - Groundwater and Free Product Elevations**  
**PS09 Mainline Turbine Sump**

| Well Name                | Date       | Well Elevation<br>(feet above<br>MSL) <sup>A</sup> | Depth to<br>Groundwater<br>(feet) | Groundwater<br>Elevation <sup>B</sup><br>(feet above MSL) | Depth to Free<br>Product (feet) | Free Product<br>Elevation<br>(feet above MSL) | Apparent Free<br>Product Thickness<br>(feet) |
|--------------------------|------------|--|-----------------------------------|---|---------------------------------|---|--|
| MW-1<br><b>Continued</b> | 10/26/2011 | 1501.23  | 108.57                            | 1392.66   | 108.56                          | 1392.67                                       | 0.01   |
|                          | 6/5/2012   | 1501.23  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 6/20/2012  | 1501.23  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 7/5/2012   | 1501.23  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 7/20/2012  | 1501.23  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 8/3/2012   | 1501.23  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 8/9/2012   | 1501.23  | 110.06                            | 1391.17   | 109.70                          | 1391.53                                       | 0.36   |
|                          | 8/23/2012  | 1501.23  | 109.78                            | 1391.45   | 109.58                          | 1391.65                                       | 0.20   |
|                          | 9/6/2012   | 1501.23  | 109.90                            | 1391.33   | 109.75                          | 1391.48                                       | 0.15   |
|                          | 9/21/2012  | 1501.23  | 109.83                            | 1391.40   | 109.69                          | 1391.54                                       | 0.14   |
|                          | 10/8/2012  | 1501.23  | 109.88                            | 1391.35   | 109.75                          | 1391.48                                       | 0.13   |
|                          | 10/22/2012 | 1501.23  | 109.89                            | 1391.34   | 109.78                          | 1391.45                                       | 0.11   |
|                          | 6/19/2013  | 1501.23  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 6/27/2013  | 1501.23  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 7/19/2013  | 1501.23  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 8/2/2013   | 1501.23  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 8/14/2013  | 1501.23  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 8/29/2013  | 1501.23  | 112.62                            | 1388.61   | 111.41                          | 1389.82                                       | 1.21   |
|                          | 9/12/2013  | 1501.23  | 112.39                            | 1388.84   | 111.60                          | 1389.63                                       | 0.79   |
|                          | 10/4/2013  | 1501.23  | 112.43                            | 1388.80   | 111.69                          | 1389.54                                       | 0.74   |
|                          | 10/17/2013 | 1501.23  | 112.01                            | 1389.22   | 111.68                          | 1389.55                                       | 0.33   |
|                          | 6/3/2014   | 1501.23  | 114.28                            | 1386.95   | 112.57                          | 1388.66                                       | 1.71   |
|                          | 7/9/2014   | 1501.23  | 114.67                            | 1386.56   | 112.61                          | 1388.62                                       | 2.06   |
|                          | 7/28/2014  | 1501.23  | 113.63                            | 1387.60   | 112.85                          | 1388.38                                       | 0.78   |
|                          | 8/7/2014   | 1501.23  | 113.35                            | 1387.88   | 112.74                          | 1388.49                                       | 0.61   |
|                          | 8/26/2014  | 1501.23  | 113.48                            | 1387.75   | 112.53                          | 1388.70                                       | 0.95   |
|                          | 9/23/2014  | 1501.23  | 112.97                            | 1388.26   | 112.29                          | 1388.94                                       | 0.68   |
|                          | 10/9/2014  | 1501.23  | 112.43                            | 1388.80   | 112.00                          | 1389.23                                       | 0.43   |
|                          | 7/3/2015   | 1501.23  | 111.60                            | 1389.63   | 111.11                          | 1390.12                                       | 0.49   |
|                          | 7/14/2015  | 1501.23  | 112.06                            | 1389.17   | 111.48                          | 1389.75                                       | 0.58   |
|                          | 7/21/2015  | 1501.23  | 112.00                            | 1389.23   | 111.51                          | 1389.72                                       | 0.49   |
|                          | 8/12/2015  | 1501.23  | 112.14                            | 1389.09   | 111.72                          | 1389.51                                       | 0.42   |
|                          | 8/25/2015  | 1501.23  | 112.11                            | 1389.12   | 111.82                          | 1389.41                                       | 0.29   |
|                          | 9/13/2015  | 1501.23  | 112.09                            | 1389.14   | 111.86                          | 1389.37                                       | 0.23   |
|                          | 10/1/2015  | 1501.23  | 112.28                            | 1388.95   | 112.08                          | 1389.15                                       | 0.20   |
|                          | 6/1/2016   | 1501.23  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 6/2/2016   | 1501.23  | 112.23                            | 1389.00   | 111.64                          | 1389.59                                       | 0.59   |
|                          | 6/7/2016   | 1501.23  | 112.54                            | 1388.69   | 111.78                          | 1389.45                                       | 0.76   |
|                          | 6/11/2016  | 1501.23  | 112.27                            | 1388.96   | 111.78                          | 1389.45                                       | 0.49   |
|                          | 6/27/2016  | 1501.23  | 112.25                            | 1388.98   | 111.93                          | 1389.30                                       | 0.32   |
|                          | 7/10/2016  | 1501.23  | 112.24                            | 1388.99   | 112.03                          | 1389.20                                       | 0.21   |
|                          | 8/5/2016   | 1501.23  | 112.26                            | 1388.97   | 112.19                          | 1389.04                                       | 0.07   |
|                          | 8/18/2016  | 1501.23  | 112.34                            | 1388.89   | 112.24                          | 1388.99                                       | 0.10   |
|                          | 9/5/2016   | 1501.23  | 112.29                            | 1388.94   | 112.18                          | 1389.05                                       | 0.11   |
|                          | 9/16/2016  | 1501.23  | 112.33                            | 1388.90   | 112.22                          | 1389.01                                       | 0.11   |
|                          | 10/3/2016  | 1501.23  | 112.59                            | 1388.64   | 112.33                          | 1388.90                                       | 0.26   |
|                          | 10/13/2016 | 1501.23  | 112.42                            | 1388.81   | 112.25                          | 1388.98                                       | 0.17   |
|                          | 5/25/2017  | 1501.23  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 5/26/2017  | 1501.23  | 114.03                            | 1387.20   | 112.78                          | 1388.45                                       | 1.25   |
|                          | 6/7/2017   | 1501.23  | 114.17                            | 1387.06   | 112.76                          | 1388.47                                       | 1.41   |
|                          | 6/27/2017  | 1501.23  | 113.33                            | 1387.90   | 112.99                          | 1388.24                                       | 0.34   |
|                          | 7/24/2017  | 1501.23  | 113.43                            | 1387.80   | 113.14                          | 1388.09                                       | 0.29   |
|                          | 9/14/2017  | 1501.23  | 113.61                            | 1387.62   | 113.20                          | 1388.03                                       | 0.41   |
|                          | 9/28/2017  | 1501.23  | 113.45                            | 1387.78   | 113.16                          | 1388.07                                       | 0.29   |
|                          | 10/19/2017 | 1501.23  | 113.35                            | 1387.88   | 113.16                          | 1388.07                                       | 0.19   |
|                          | 6/4/2018   | 1501.23  | 114.97                            | 1386.26   | 113.31                          | 1387.92                                       | 1.66   |
|                          | 6/8/2018   | 1501.23  | 113.84                            | 1387.39   | 113.55                          | 1387.68                                       | 0.29   |
|                          | 6/25/2018  | 1501.23  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 7/19/2018  | 1501.23  | 113.77                            | 1387.46   | 113.52                          | 1387.71                                       | 0.25   |
|                          | 8/2/2018   | 1501.23  | 113.59                            | 1387.64   | 113.31                          | 1387.92                                       | 0.28   |
|                          | 8/16/2018  | 1501.23  | 113.71                            | 1387.52   | 113.21                          | 1388.02                                       | 0.50   |
|                          | 9/4/2018   | 1501.23  | 113.90                            | 1387.33   | 113.22                          | 1388.01                                       | 0.68   |
|                          | 9/18/2018  | 1501.23  | 113.31                            | 1387.92   | 113.10                          | 1388.13                                       | 0.21   |
|                          | 10/1/2018  | 1501.23  | 113.14                            | 1388.09   | 112.82                          | 1388.41                                       | 0.32   |
|                          | 5/24/2019  | 1501.23  | 110.8                             | 1390.43   | 110.55                          | 1390.68                                       | 0.25   |
|                          | 5/31/2019  | 1501.23  | 110.68                            | 1390.55   | 110.45                          | 1390.78                                       | 0.23   |

**Table 1 - Groundwater and Free Product Elevations**  
**PS09 Mainline Turbine Sump**

| Well Name                | Date       | Well Elevation<br>(feet above<br>MSL) <sup>A</sup> | Depth to<br>Groundwater<br>(feet) | Groundwater<br>Elevation <sup>B</sup><br>(feet above MSL) | Depth to Free<br>Product (feet) | Free Product<br>Elevation<br>(feet above MSL) | Apparent Free<br>Product Thickness<br>(feet) |
|--------------------------|------------|--|-----------------------------------|---|---------------------------------|---|--|
| MW-1<br><b>Continued</b> | 6/14/2019  | 1501.23  | 110.67                            | 1390.56   | 110.55                          | 1390.68                                       | 0.12   |
|                          | 6/28/2019  | 1501.23  | 110.94                            | 1390.29   | 110.77                          | 1390.46                                       | 0.17   |
|                          | 7/12/2019  | 1501.23  | 110.95                            | 1390.28   | 110.79                          | 1390.44                                       | 0.16   |
|                          | 7/31/2019  | 1501.23  | 111.1                             | 1390.13   | 110.94                          | 1390.29                                       | 0.16   |
|                          | 8/9/2019   | 1501.23  | 111.2                             | 1390.03   | 111.04                          | 1390.19                                       | 0.16   |
|                          | 8/30/2019  | 1501.23  | 111.35                            | 1389.88   | 111.19                          | 1390.04                                       | 0.16   |
|                          | 9/13/2019  | 1501.23  | 111.1                             | 1390.13   | 110.98                          | 1390.25                                       | 0.12   |
|                          | 9/27/2019  | 1501.23  | 111.5                             | 1389.73   | 111.30                          | 1389.93                                       | 0.20   |
|                          | 10/14/2019 | 1501.23  | 111                               | 1390.23   | 110.93                          | 1390.30                                       | 0.07   |
|                          | 10/30/2019 | 1501.23  | 110.81                            | 1390.42   | 110.77                          | 1390.46                                       | 0.04   |
|                          | 7/1/2020   | 1501.23  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 7/29/2020  | 1501.23  | 105.52                            | 1395.71   | 104.91                          | 1396.32                                       | 0.61   |
|                          | 8/11/2020  | 1501.23  | 104.88                            | 1396.35   | 104.58                          | 1396.65                                       | 0.30   |
|                          | 8/24/2020  | 1501.23  | 104.28                            | 1396.95   | 104.04                          | 1397.19                                       | 0.24   |
|                          | 9/15/2020  | 1501.23  | 103.8                             | 1397.43   | 103.55                          | 1397.68                                       | 0.25   |
|                          | 9/29/2020  | 1501.23  | 104.2                             | 1397.03   | 103.91                          | 1397.32                                       | 0.29   |
|                          | 10/14/2020 | 1501.23  | 103.97                            | 1397.26   | 103.68                          | 1397.55                                       | 0.29   |
|                          | 11/11/2020 | 1501.23  | 103.15                            | 1398.08   | 103.00                          | 1398.23                                       | 0.15   |
| MW-2                     | 11/7/1997  | 1504.59  | NM                                | NM  | N/A                             | N/A   | N/A  |
|                          | 4/1/1998   | 1504.59  | 114.76                            | 1389.83   | N/A                             | N/A   | 0.00   |
|                          | 11/22/1998 | 1504.59  | 113.90                            | 1390.69   | N/A                             | N/A   | 0.00   |
|                          | 12/1/1998  | 1504.59  | 114.32                            | 1390.27   | N/A                             | N/A   | 0.00   |
|                          | 6/9/1999   | 1504.59  | 115.40                            | 1389.19   | N/A                             | N/A   | 0.00   |
|                          | 9/17/1999  | 1504.59  | 113.28                            | 1391.31   | N/A                             | N/A   | 0.00   |
|                          | 11/11/1999 | 1504.59  | 114.00                            | 1390.59   | N/A                             | N/A   | 0.00   |
|                          | 5/17/2000  | 1504.59  | 115.31                            | 1389.28   | N/A                             | N/A   | 0.00   |
|                          | 7/14/2000  | 1504.59  | 115.09                            | 1389.50   | N/A                             | N/A   | 0.00   |
|                          | 10/13/2000 | 1504.59  | 112.16                            | 1392.43   | N/A                             | N/A   | 0.00   |
|                          | 3/27/2001  | 1504.58  | 105.95                            | 1398.63   | N/A                             | N/A   | 0.00   |
|                          | 7/12/2001  | 1504.58  | 105.49                            | 1399.09   | N/A                             | N/A   | 0.00   |
|                          | 9/20/2001  | 1504.58  | 106.49                            | 1398.09   | N/A                             | N/A   | 0.00   |
|                          | 11/16/2001 | 1504.58  | 107.48                            | 1397.10   | N/A                             | N/A   | 0.00   |
|                          | 6/11/2002  | 1504.58  | 111.70                            | 1392.88   | N/A                             | N/A   | 0.00   |
|                          | 10/4/2002  | 1504.58  | 112.26                            | 1392.32   | N/A                             | N/A   | 0.00   |
|                          | 6/24/2003  | 1504.58  | 115.46                            | 1389.12   | N/A                             | N/A   | 0.00   |
|                          | 10/1/2003  | 1504.58  | 114.38                            | 1390.20   | N/A                             | N/A   | 0.00   |
|                          | 6/10/2004  | 1504.58  | 115.78                            | 1388.80   | N/A                             | N/A   | 0.00   |
|                          | 10/18/2004 | 1504.58  | 114.87                            | 1389.71   | N/A                             | N/A   | 0.00   |
|                          | 6/27/2005  | 1504.58  | 113.44                            | 1391.14   | N/A                             | N/A   | 0.00   |
|                          | 10/16/2005 | 1504.58  | 113.98                            | 1390.60   | N/A                             | N/A   | 0.00   |
|                          | 6/1/2006   | 1504.58  | 113.36                            | 1391.22   | N/A                             | N/A   | 0.00   |
|                          | 10/5/2006  | 1504.58  | 103.40                            | 1401.18   | N/A                             | N/A   | 0.00   |
|                          | 7/17/2006  | 1504.58  | 114.44                            | 1390.14   | N/A                             | N/A   | 0.00   |
|                          | 10/4/2007  | 1504.58  | 112.82                            | 1391.76   | N/A                             | N/A   | 0.00   |
|                          | 7/25/2008  | 1504.58  | 116.78                            | 1387.80   | N/A                             | N/A   | 0.00   |
|                          | 7/18/2009  | 1504.58  | 107.60                            | 1396.98   | N/A                             | N/A   | 0.00   |
|                          | 8/11/2010  | 1504.58  | 111.89                            | 1392.69   | N/A                             | N/A   | 0.00   |
|                          | 9/8/2011   | 1504.58  | 113.22                            | 1391.36   | N/A                             | N/A   | 0.00   |
|                          | 7/20/2012  | 1504.58  | 113.56                            | 1391.02   | N/A                             | N/A   | 0.00   |
|                          | 8/22/2013  | 1504.58  | 116.18                            | 1388.40   | N/A                             | N/A   | 0.00   |
|                          | 9/19/2013  | 1504.58  | 116.30                            | 1388.28   | N/A                             | N/A   | 0.00   |
|                          | 6/5/2014   | 1504.58  | 116.79                            | 1387.79   | N/A                             | N/A   | 0.00   |
|                          | 7/15/2015  | 1504.58  | 116.51                            | 1388.07   | N/A                             | N/A   | 0.00   |
|                          | 6/6/2016   | 1504.58  | 116.68                            | 1387.90   | N/A                             | N/A   | 0.00   |
|                          | 6/7/2017   | 1504.58  | 121.90                            | 1382.68   | N/A                             | N/A   | 0.00   |
|                          | 5/30/2019  | 1504.58  | 116.15                            | 1388.43   | N/A                             | N/A   | 0.00   |
| MW-3                     | 11/7/1997  | 1508.38  | 117.94                            | 1390.44   | N/A                             | N/A   | 0.00   |
|                          | 4/1/1998   | 1508.38  | 117.83                            | 1390.55   | N/A                             | N/A   | 0.00   |
|                          | 11/21/1998 | 1508.38  | 117.89                            | 1390.49   | N/A                             | N/A   | 0.00   |
|                          | 12/1/1998  | 1508.38  | 118.04                            | 1390.34   | N/A                             | N/A   | 0.00   |
|                          | 6/9/1999   | 1508.38  | 116.49                            | 1391.89   | N/A                             | N/A   | 0.00   |
|                          | 9/16/1999  | 1508.38  | 116.88                            | 1391.50   | N/A                             | N/A   | 0.00   |
|                          | 11/11/1999 | 1508.38  | 116.93                            | 1391.45   | N/A                             | N/A   | 0.00   |
|                          | 5/16/2000  | 1508.38  | 115.90                            | 1392.48   | N/A                             | N/A   | 0.00   |
|                          | 7/16/2000  | 1508.38  | 115.54                            | 1392.84   | N/A                             | N/A   | 0.00   |
|                          | 10/11/2000 | 1508.38  | 113.85                            | 1394.53   | N/A                             | N/A   | 0.00   |

**Table 1 - Groundwater and Free Product Elevations**  
**PS09 Mainline Turbine Sump**

| Well Name         | Date                   | Well Elevation<br>(feet above<br>MSL) <sup>A</sup> | Depth to<br>Groundwater<br>(feet) | Groundwater<br>Elevation <sup>B</sup><br>(feet above MSL) | Depth to Free<br>Product (feet) | Free Product<br>Elevation<br>(feet above MSL) | Apparent Free<br>Product Thickness<br>(feet) |
|-------------------|------------------------|--|-----------------------------------|---|---------------------------------|---|--|
| MW-3<br>Continued | 3/27/2001              | 1506.36  | 106.30                            | 1400.06   | N/A                             | N/A   | 0.00   |
|                   | 7/11/2001              | 1506.36  | 107.87                            | 1398.49   | N/A                             | N/A   | 0.00   |
|                   | 9/20/2001              | 1506.36  | 108.94                            | 1397.42   | N/A                             | N/A   | 0.00   |
|                   | 11/16/2001             | 1506.36  | 110.21                            | 1396.15   | N/A                             | N/A   | 0.00   |
|                   | 6/10/2002              | 1506.36  | 113.63                            | 1392.73   | N/A                             | N/A   | 0.00   |
|                   | 10/3/2002              | 1506.36  | 114.19                            | 1392.17   | N/A                             | N/A   | 0.00   |
|                   | 6/24/2003              | 1506.36  | 115.07                            | 1391.29   | N/A                             | N/A   | 0.00   |
|                   | 10/2/2003              | 1506.36  | 115.73                            | 1390.63   | N/A                             | N/A   | 0.00   |
|                   | 6/11/2004              | 1506.36  | 115.61                            | 1390.75   | N/A                             | N/A   | 0.00   |
|                   | 10/19/2004             | 1506.36  | 114.64                            | 1391.72   | N/A                             | N/A   | 0.00   |
|                   | 6/28/2005              | 1506.36  | 114.32                            | 1392.04   | N/A                             | N/A   | 0.00   |
|                   | 10/17/2005             | 1506.36  | 114.04                            | 1392.32   | N/A                             | N/A   | 0.00   |
|                   | 6/1/2006               | 1506.36  | 115.73                            | 1390.63   | N/A                             | N/A   | 0.00   |
|                   | 10/5/2006              | 1506.36  | 112.82                            | 1393.54   | N/A                             | N/A   | 0.00   |
|                   | 7/18/2007              | 1506.36  | 114.23                            | 1392.13   | N/A                             | N/A   | 0.00   |
|                   | 10/4/2007              | 1506.36  | 114.42                            | 1391.94   | N/A                             | N/A   | 0.00   |
|                   | 7/24/2008              | 1506.36  | 115.54                            | 1390.82   | N/A                             | N/A   | 0.00   |
|                   | 7/18/2009              | 1506.36  | 110.21                            | 1396.15   | N/A                             | N/A   | 0.00   |
|                   | 8/12/2010              | 1506.36  | 114.87                            | 1391.49   | N/A                             | N/A   | 0.00   |
|                   | 9/8/2011               | 1506.36  | 114.04                            | 1392.32   | N/A                             | N/A   | 0.00   |
|                   | 7/20/2012              | 1506.36  | 114.59                            | 1391.77   | N/A                             | N/A   | 0.00   |
|                   | 8/22/2013              | 1506.36  | 116.51                            | 1389.85   | N/A                             | N/A   | 0.00   |
|                   | 9/19/2013              | 1506.36  | 116.63                            | 1389.73   | N/A                             | N/A   | 0.00   |
|                   | 6/3/2014               | 1506.36  | 117.82                            | 1388.54   | N/A                             | N/A   | 0.00   |
|                   | 7/15/2015              | 1506.36  | 112.89                            | 1393.47   | N/A                             | N/A   | 0.00   |
|                   | 6/7/2016               | 1506.36  | 113.16                            | 1393.20   | N/A                             | N/A   | 0.00   |
|                   | 6/7/2017               | 1506.36  | 114.54                            | 1391.82   | N/A                             | N/A   | 0.00   |
|                   | 5/30/2019              | 1506.36  | 111.8                             | 1394.56   | N/A                             | N/A   | 0.00   |
| MW-4              | 11/21/1998             | 1497.70  | 109.38                            | 1388.32   | N/A                             | N/A   | 0.00   |
|                   | 12/1/1998              | 1497.70  | 109.52                            | 1388.18   | N/A                             | N/A   | 0.00   |
|                   | 6/9/1999               | 1497.70  | 110.68                            | 1387.02   | N/A                             | N/A   | 0.00   |
|                   | 9/16/1999              | 1497.70  | 111.24                            | 1386.46   | N/A                             | N/A   | 0.00   |
|                   | 11/11/1999             | 1497.70  | 111.42                            | 1386.28   | N/A                             | N/A   | 0.00   |
|                   | 5/16/2000              | 1497.70  | 111.66                            | 1386.04   | N/A                             | N/A   | 0.00   |
|                   | 7/14/2000              | 1497.70  | 111.59                            | 1386.11   | N/A                             | N/A   | 0.00   |
|                   | 10/13/2000             | 1497.70  | 110.10                            | 1387.60   | N/A                             | N/A   | 0.00   |
|                   | 3/27/2001              | 1497.69  | 107.30                            | 1390.39   | N/A                             | N/A   | 0.00   |
|                   | 7/12/2001              | 1497.69  | 106.58                            | 1391.11   | N/A                             | N/A   | 0.00   |
|                   | 9/20/2001              | 1497.69  | 105.61                            | 1392.08   | N/A                             | N/A   | 0.00   |
|                   | 11/16/2001             | 1497.69  | 105.62                            | 1392.07   | N/A                             | N/A   | 0.00   |
|                   | 6/10/2002              | 1497.69  | 107.48                            | 1390.21   | N/A                             | N/A   | 0.00   |
|                   | 10/4/2002              | 1497.69  | 107.69                            | 1390.00   | N/A                             | N/A   | 0.00   |
|                   | 6/24/2003              | 1497.69  | 110.74                            | 1386.95   | N/A                             | N/A   | 0.00   |
|                   | 10/2/2003              | 1497.69  | 111.90                            | 1385.79   | N/A                             | N/A   | 0.00   |
|                   | 6/11/2004              | 1497.69  | 113.15                            | 1384.54   | N/A                             | N/A   | 0.00   |
|                   | 10/18/2004             | 1497.69  | 112.47                            | 1385.22   | N/A                             | N/A   | 0.00   |
|                   | Well Destroyed in 2005 |  | N/A                               | N/A   | N/A                             | N/A   | N/A  |
| MW-5              | 11/21/1998             | 1501.22  | 111.31                            | 1389.91   | 110.78                          | 1390.44                                       | 0.53   |
|                   | 12/1/1998              | 1501.22  | 111.62                            | 1389.60   | 110.83                          | 1390.39                                       | 0.79   |
|                   | 9/16/1999              | 1501.22  | 113.56                            | 1387.66   | 111.51                          | 1389.71                                       | 2.05   |
|                   | 10/7/1999              | 1501.22  | 113.23                            | 1387.99   | 111.44                          | 1389.78                                       | 1.79   |
|                   | 11/11/1999             | 1501.22  | 113.52                            | 1387.70   | 111.55                          | 1389.67                                       | 1.97   |
|                   | 5/17/2000              | 1501.22  | 111.78                            | 1389.44   | 111.69                          | 1389.53                                       | 0.09   |
|                   | 7/16/2000              | 1501.22  | 111.37                            | 1389.85   | 110.36                          | 1390.86                                       | 1.01   |
|                   | 12/29/2000             | 1501.22  | 109.20                            | 1392.02   | 100.90                          | 1400.32                                       | 8.30   |
|                   | 7/19/2001              | 1501.22  | 109.30                            | 1391.92   | 101.30                          | 1399.92                                       | 8.00   |
|                   | 9/20/2001              | 1501.22  | 104.75                            | 1396.47   | 103.47                          | 1397.75                                       | 1.28   |
|                   | 6/10/2002              | 1501.22  | 109.60                            | 1391.62   | 108.53                          | 1392.69                                       | 1.07   |
|                   | 10/2/2002              | 1501.22  | 109.57                            | 1391.65   | 109.29                          | 1391.93                                       | 0.28   |
|                   | 6/3/2003               | 1501.22  | 110.85                            | 1390.37   | 110.10                          | 1391.12                                       | 0.75   |
|                   | 6/23/2003              | 1501.22  | 110.40                            | 1390.82   | 110.14                          | 1391.08                                       | 0.26   |
|                   | 7/24/2003              | 1501.22  | 110.48                            | 1390.74   | 110.42                          | 1390.80                                       | 0.06   |
|                   | 8/28/2003              | 1501.22  | 110.99                            | 1390.23   | 110.72                          | 1390.50                                       | 0.27   |
|                   | 9/15/2003              | 1501.22  | 111.12                            | 1390.10   | 110.92                          | 1390.30                                       | 0.20   |
|                   | 10/3/2003              | 1501.22  | 110.84                            | 1390.38   | 110.78                          | 1390.44                                       | 0.06   |
|                   | 6/2/2004               | 1501.22  | 111.72                            | 1389.50   | 110.94                          | 1390.28                                       | 0.78   |

**Table 1 - Groundwater and Free Product Elevations**  
**PS09 Mainline Turbine Sump**

| Well Name                | Date       | Well Elevation<br>(feet above<br>MSL) <sup>A</sup> | Depth to<br>Groundwater<br>(feet) | Groundwater<br>Elevation <sup>B</sup><br>(feet above MSL) | Depth to Free<br>Product (feet) | Free Product<br>Elevation<br>(feet above MSL) | Apparent Free<br>Product Thickness<br>(feet) |
|--------------------------|------------|--|-----------------------------------|---|---------------------------------|---|--|
| MW-5<br><b>Continued</b> | 6/3/2004   | 1501.22  | 111.34                            | 1389.88   | 111.09                          | 1390.13                                       | 0.25   |
|                          | 6/10/2004  | 1501.22  | 110.89                            | 1390.33   | 110.78                          | 1390.44                                       | 0.11   |
|                          | 7/8/2004   | 1501.22  | 110.60                            | 1390.62   | 110.36                          | 1390.86                                       | 0.24   |
|                          | 7/20/2004  | 1501.22  | 110.26                            | 1390.96   | 110.16                          | 1391.06                                       | 0.10   |
|                          | 8/12/2004  | 1501.22  | 110.04                            | 1391.18   | 110.00                          | 1391.22                                       | 0.04   |
|                          | 9/2/2004   | 1501.22  | 109.79                            | 1391.43   | 109.75                          | 1391.47                                       | 0.04   |
|                          | 10/19/2004 | 1501.22  | 109.85                            | 1391.37   | 109.76                          | 1391.46                                       | 0.09   |
|                          | 6/20/2005  | 1501.22  | 111.65                            | 1389.57   | 109.40                          | 1391.82                                       | 2.25   |
|                          | 6/28/2005  | 1501.22  | 109.47                            | 1391.75   | 109.47                          | 1391.75                                       | 0.00   |
|                          | 10/17/2005 | 1501.22  | 109.12                            | 1392.10   | 109.12                          | 1392.10                                       | 0.00   |
|                          | 11/3/2005  | 1501.22  | 109.21                            | 1392.01   | 109.15                          | 1392.07                                       | 0.06   |
|                          | 5/31/2006  | 1501.22  | 111.15                            | 1390.07   | 110.64                          | 1390.58                                       | 0.51   |
|                          | 7/13/2006  | 1501.22  | 111.02                            | 1390.20   | 110.70                          | 1390.52                                       | 0.32   |
|                          | 10/5/2006  | 1501.22  | 108.35                            | 1392.87   | 107.98                          | 1393.24                                       | 0.37   |
|                          | 5/30/2007  | 1501.22  | 108.94                            | 1392.28   | 108.72                          | 1392.50                                       | 0.22   |
|                          | 7/18/2007  | 1501.22  | 109.52                            | 1391.70   | 109.30                          | 1391.92                                       | 0.22   |
|                          | 8/3/2007   | 1501.22  | 109.57                            | 1391.65   | 109.56                          | 1391.66                                       | 0.01   |
|                          | 8/17/2007  | 1501.22  | 109.61                            | 1391.61   | 109.46                          | 1391.76                                       | 0.15   |
|                          | 8/24/2007  | 1501.22  | 109.63                            | 1391.59   | 109.51                          | 1391.71                                       | 0.12   |
|                          | 9/13/2007  | 1501.22  | 109.70                            | 1391.52   | 109.64                          | 1391.58                                       | 0.06   |
|                          | 9/21/2007  | 1501.22  | 109.56                            | 1391.66   | 109.53                          | 1391.69                                       | 0.03   |
|                          | 10/5/2007  | 1501.22  | 109.25                            | 1391.97   | N/A                             | N/A   | 0.00   |
|                          | 10/12/2007 | 1501.22  | 109.33                            | 1391.89   | 109.30                          | 1391.92                                       | 0.03   |
|                          | 11/2/2007  | 1501.22  | 109.20                            | 1392.02   | 109.14                          | 1392.08                                       | 0.06   |
|                          | 6/2/2008   | 1501.22  | 109.86                            | 1391.36   | 109.77                          | 1391.45                                       | 0.09   |
|                          | 7/1/2008   | 1501.22  | 110.49                            | 1390.73   | 110.27                          | 1390.95                                       | 0.22   |
|                          | 7/18/2008  | 1501.22  | 110.49                            | 1390.73   | 110.31                          | 1390.91                                       | 0.18   |
|                          | 7/23/2008  | 1501.22  | 110.63                            | 1390.59   | 110.43                          | 1390.79                                       | 0.20   |
|                          | 7/25/2008  | 1501.22  | 110.50                            | 1390.72   | 110.49                          | 1390.73                                       | 0.01   |
|                          | 8/12/2008  | 1501.22  | 110.49                            | 1390.73   | 110.37                          | 1390.85                                       | 0.12   |
|                          | 9/3/2008   | 1501.22  | 109.63                            | 1391.59   | 109.61                          | 1391.61                                       | 0.02   |
|                          | 9/12/2008  | 1501.22  | 109.14                            | 1392.08   | 109.12                          | 1392.10                                       | 0.02   |
|                          | 10/8/2008  | 1501.22  | 106.58                            | 1394.64   | 106.56                          | 1394.66                                       | 0.02   |
|                          | 7/18/2009  | 1501.22  | 108.25                            | 1392.97   | 104.42                          | 1396.80                                       | 3.83   |
|                          | 8/6/2010   | 1501.22  | 110.17                            | 1391.05   | 109.83                          | 1391.39                                       | 0.34   |
|                          | 9/25/2010  | 1501.22  | 108.20                            | 1393.02   | 107.57                          | 1393.65                                       | 0.63   |
|                          | 10/8/2010  | 1501.22  | 108.20                            | 1393.02   | 107.32                          | 1393.90                                       | 0.88   |
|                          | 10/12/2010 | 1501.22  | 108.12                            | 1393.10   | 107.12                          | 1394.10                                       | 1.00   |
|                          | 6/24/2011  | 1501.22  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 7/18/2011  | 1501.22  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 7/26/2011  | 1501.22  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 8/8/2011   | 1501.22  | 108.80                            | 1392.42   | 108.61                          | 1392.61                                       | 0.19   |
|                          | 8/22/2011  | 1501.22  | 108.60                            | 1392.62   | 108.42                          | 1392.80                                       | 0.18   |
|                          | 9/9/2011   | 1501.22  | 108.86                            | 1392.36   | 108.80                          | 1392.42                                       | 0.06   |
|                          | 9/19/2011  | 1501.22  | 108.61                            | 1392.61   | 108.54                          | 1392.68                                       | 0.07   |
|                          | 10/6/2011  | 1501.22  | 108.46                            | 1392.76   | 108.44                          | 1392.78                                       | 0.02   |
|                          | 10/26/2011 | 1501.22  | 108.43                            | 1392.79   | 108.40                          | 1392.82                                       | 0.03   |
|                          | 6/5/2012   | 1501.22  | 110.05                            | 1391.17   | 109.68                          | 1391.54                                       | 0.37   |
|                          | 6/20/2012  | 1501.22  | 110.13                            | 1391.09   | 109.77                          | 1391.45                                       | 0.36   |
|                          | 7/5/2012   | 1501.22  | 110.04                            | 1391.18   | 109.70                          | 1391.52                                       | 0.34   |
|                          | 7/20/2012  | 1501.22  | 109.94                            | 1391.28   | 109.67                          | 1391.55                                       | 0.27   |
|                          | 8/3/2012   | 1501.22  | 110.03                            | 1391.19   | 109.71                          | 1391.51                                       | 0.32   |
|                          | 8/9/2012   | 1501.22  | 109.92                            | 1391.30   | 109.68                          | 1391.54                                       | 0.24   |
|                          | 8/23/2012  | 1501.22  | 109.71                            | 1391.51   | 109.51                          | 1391.71                                       | 0.20   |
|                          | 9/6/2012   | 1501.22  | 109.87                            | 1391.35   | 109.67                          | 1391.55                                       | 0.20   |
|                          | 9/21/2012  | 1501.22  | 109.79                            | 1391.43   | 109.59                          | 1391.63                                       | 0.20   |
|                          | 10/8/2012  | 1501.22  | 109.85                            | 1391.37   | 109.66                          | 1391.56                                       | 0.19   |
|                          | 10/22/2012 | 1501.22  | 109.85                            | 1391.37   | 109.75                          | 1391.47                                       | 0.10   |
|                          | 6/19/2013  | 1501.22  | 111.66                            | 1389.56   | 111.00                          | 1390.22                                       | 0.66   |
|                          | 6/27/2013  | 1501.22  | 112.07                            | 1389.15   | 111.10                          | 1390.12                                       | 0.97   |
|                          | 7/19/2013  | 1501.22  | NM                                | NM  | NM                              | NM  | NM   |
|                          | 8/2/2013   | 1501.22  | 111.94                            | 1389.28   | 111.22                          | 1390.00                                       | 0.72   |
|                          | 8/14/2013  | 1501.22  | 112.38                            | 1388.84   | 111.52                          | 1389.70                                       | 0.86   |
|                          | 8/29/2013  | 1501.22  | 112.50                            | 1388.72   | 111.62                          | 1389.60                                       | 0.88   |
|                          | 9/12/2013  | 1501.22  | 112.48                            | 1388.74   | 111.55                          | 1389.67                                       | 0.93   |
|                          | 10/4/2013  | 1501.22  | 112.50                            | 1388.72   | 111.61                          | 1389.61                                       | 0.89   |

**Table 1 - Groundwater and Free Product Elevations**  
**PS09 Mainline Turbine Sump**

| Well Name         | Date       | Well Elevation<br>(feet above<br>MSL) <sup>A</sup> | Depth to<br>Groundwater<br>(feet) | Groundwater<br>Elevation <sup>B</sup><br>(feet above MSL) | Depth to Free<br>Product (feet) | Free Product<br>Elevation<br>(feet above MSL) | Apparent Free<br>Product Thickness<br>(feet) |
|-------------------|------------|--|-----------------------------------|---|---------------------------------|---|--|
| MW-5<br>Continued | 10/17/2013 | 1501.22  | 112.40                            | 1388.82   | 111.68                          | 1389.54                                       | 0.72   |
|                   | 6/3/2014   | 1501.22  | 114.43                            | 1386.79   | 112.48                          | 1388.74                                       | 1.95   |
|                   | 7/9/2014   | 1501.22  | 114.67                            | 1386.55   | 112.61                          | 1388.61                                       | 2.06   |
|                   | 7/28/2014  | 1501.22  | 114.21                            | 1387.01   | 112.64                          | 1388.58                                       | 1.57   |
|                   | 8/7/2014   | 1501.22  | 113.87                            | 1387.35   | 112.59                          | 1388.63                                       | 1.28   |
|                   | 8/26/2014  | 1501.22  | 113.02                            | 1388.20   | 112.52                          | 1388.70                                       | 0.50   |
|                   | 9/23/2014  | 1501.22  | 112.54                            | 1388.68   | 112.29                          | 1388.93                                       | 0.25   |
|                   | 10/9/2014  | 1501.22  | 112.23                            | 1388.99   | 111.94                          | 1389.28                                       | 0.29   |
|                   | 6/4/2015   | 1501.22  | NM                                | NM  | NM                              | NM  | NM   |
|                   | 7/3/2015   | 1501.22  | NM                                | NM  | NM                              | NM  | NM   |
|                   | 7/14/2015  | 1501.22  | 112.44                            | 1388.78   | 111.31                          | 1389.91                                       | 1.13   |
|                   | 7/21/2015  | 1501.22  | 112.26                            | 1388.96   | 111.38                          | 1389.84                                       | 0.88   |
|                   | 8/12/2015  | 1501.22  | 112.82                            | 1388.40   | 111.60                          | 1389.62                                       | 1.22   |
|                   | 8/25/2015  | 1501.22  | 111.68                            | 1389.54   | 111.57                          | 1389.65                                       | 0.11   |
|                   | 9/13/2015  | 1501.22  | 112.98                            | 1388.24   | 111.58                          | 1389.64                                       | 1.40   |
|                   | 10/1/2015  | 1501.22  | 113.22                            | 1388.00   | 111.79                          | 1389.43                                       | 1.43   |
|                   | 6/1/2016   | 1501.22  | 112.20                            | 1389.02   | 111.46                          | 1389.76                                       | 0.74   |
|                   | 6/2/2016   | 1501.22  | 112.23                            | 1388.99   | 111.64                          | 1389.58                                       | 0.59   |
|                   | 6/7/2016   | 1501.22  | 113.06                            | 1388.16   | 111.58                          | 1389.64                                       | 1.48   |
|                   | 6/11/2016  | 1501.22  | 112.85                            | 1388.37   | 111.60                          | 1389.62                                       | 1.25   |
|                   | 6/27/2016  | 1501.22  | 113.05                            | 1388.17   | 111.81                          | 1389.41                                       | 1.24   |
|                   | 7/10/2016  | 1501.22  | 113.00                            | 1388.22   | 111.89                          | 1389.33                                       | 1.11   |
|                   | 8/5/2016   | 1501.22  | 112.93                            | 1388.29   | 111.97                          | 1389.25                                       | 0.96   |
|                   | 8/18/2016  | 1501.22  | 113.09                            | 1388.13   | 112.12                          | 1389.10                                       | 0.97   |
|                   | 9/5/2016   | 1501.22  | 112.62                            | 1388.60   | 112.10                          | 1389.12                                       | 0.52   |
|                   | 9/16/2016  | 1501.22  | 112.49                            | 1388.73   | 112.09                          | 1389.13                                       | 0.40   |
|                   | 10/3/2016  | 1501.22  | 112.56                            | 1388.66   | 112.25                          | 1388.97                                       | 0.31   |
|                   | 10/13/2016 | 1501.22  | 112.38                            | 1388.84   | 112.17                          | 1389.05                                       | 0.21   |
|                   | 5/25/2017  | 1501.22  | NM                                | NM  | NM                              | NM  | NM   |
|                   | 5/26/2017  | 1501.22  | 113.83                            | 1387.39   | 112.72                          | 1388.50                                       | 1.11   |
|                   | 6/7/2017   | 1501.22  | 114.03                            | 1387.19   | 112.70                          | 1388.52                                       | 1.33   |
|                   | 6/27/2017  | 1501.22  | 113.75                            | 1387.47   | 112.84                          | 1388.38                                       | 0.91   |
|                   | 7/24/2017  | 1501.22  | 113.86                            | 1387.36   | 113.05                          | 1388.17                                       | 0.81   |
|                   | 9/14/2017  | 1501.22  | 114.02                            | 1387.20   | 113.12                          | 1388.10                                       | 0.90   |
|                   | 9/28/2017  | 1501.22  | 113.38                            | 1387.84   | 112.93                          | 1388.29                                       | 0.45   |
|                   | 10/19/2017 | 1501.22  | 113.48                            | 1387.74   | 113.05                          | 1388.17                                       | 0.43   |
|                   | 6/4/2018   | 1501.22  | 114.80                            | 1386.42   | 113.28                          | 1387.94                                       | 1.52   |
|                   | 6/8/2018   | 1501.22  | 114.29                            | 1386.93   | 113.49                          | 1387.73                                       | 0.80   |
|                   | 6/25/2018  | 1501.22  | NM                                | NM  | NM                              | NM  | NM   |
|                   | 7/19/2018  | 1501.22  | 114.15                            | 1387.07   | 113.33                          | 1387.89                                       | 0.82   |
|                   | 8/2/2018   | 1501.22  | 113.67                            | 1387.55   | 113.16                          | 1388.06                                       | 0.51   |
|                   | 8/16/2018  | 1501.22  | 113.71                            | 1387.51   | 113.21                          | 1388.01                                       | 0.50   |
|                   | 9/4/2018   | 1501.22  | 113.55                            | 1387.67   | 113.11                          | 1388.11                                       | 0.44   |
|                   | 9/18/2018  | 1501.22  | 113.16                            | 1388.06   | 112.98                          | 1388.24                                       | 0.18   |
|                   | 10/1/2018  | 1501.22  | 112.85                            | 1388.37   | 112.72                          | 1388.50                                       | 0.13   |
|                   | 5/24/2019  | 1501.22  | 110.78                            | 1390.44   | 110.45                          | 1390.77                                       | 0.33   |
|                   | 5/31/2019  | 1501.22  | NM                                | NM  | NM                              | NM  | NM   |
|                   | 6/14/2019  | 1501.22  | 110.78                            | 1390.44   | 110.46                          | 1390.76                                       | 0.32   |
|                   | 6/28/2019  | 1501.22  | 111.03                            | 1390.19   | 110.65                          | 1390.57                                       | 0.38   |
|                   | 7/12/2019  | 1501.22  | 111.02                            | 1390.20   | 110.64                          | 1390.58                                       | 0.38   |
|                   | 7/31/2019  | 1501.22  | 111.20                            | 1390.02   | 110.80                          | 1390.42                                       | 0.40   |
|                   | 8/9/2019   | 1501.22  | 111.28                            | 1389.94   | 110.92                          | 1390.30                                       | 0.36   |
|                   | 8/30/2019  | 1501.22  | 111.47                            | 1389.75   | 111.07                          | 1390.15                                       | 0.40   |
|                   | 9/13/2019  | 1501.22  | 111.15                            | 1390.07   | 110.89                          | 1390.33                                       | 0.26   |
|                   | 9/27/2019  | 1501.22  | 111.60                            | 1389.62   | 111.15                          | 1390.07                                       | 0.45   |
|                   | 10/14/2009 | 1501.22  | 111.03                            | 1390.19   | 110.84                          | 1390.38                                       | 0.19   |
|                   | 10/30/2019 | 1501.22  | 110.75                            | 1390.47   | 110.62                          | 1390.60                                       | 0.13   |
|                   | 7/1/2020   | 1501.22  | 106.54                            | 1394.68   | 106.24                          | 1394.98                                       | 0.30   |
|                   | 7/29/2020  | 1501.22  | 106.02                            | 1395.20   | 104.70                          | 1396.52                                       | 1.32   |
|                   | 8/11/2020  | 1501.22  | 105.10                            | 1396.12   | 104.42                          | 1396.80                                       | 0.68   |
|                   | 8/24/2020  | 1501.22  | 104.51                            | 1396.71   | 103.89                          | 1397.33                                       | 0.62   |
|                   | 9/15/2020  | 1501.22  | 104.29                            | 1396.93   | 103.34                          | 1397.88                                       | 0.95   |
|                   | 9/29/2020  | 1501.22  | 104.41                            | 1396.81   | 103.83                          | 1397.39                                       | 0.58   |
|                   | 10/14/2020 | 1501.22  | 104.23                            | 1396.99   | 103.59                          | 1397.63                                       | 0.64   |
|                   | 11/11/2020 | 1501.01  | 103.93                            | 1397.08   | 102.47                          | 1398.54                                       | 1.46   |

**Table 1 - Groundwater and Free Product Elevations**  
**PS09 Mainline Turbine Sump**

| Well Name | Date       | Well Elevation<br>(feet above<br>MSL) <sup>A</sup> | Depth to<br>Groundwater<br>(feet) | Groundwater<br>Elevation <sup>B</sup><br>(feet above MSL) | Depth to Free<br>Product (feet) | Free Product<br>Elevation<br>(feet above MSL) | Apparent Free<br>Product Thickness<br>(feet) |
|-----------|------------|--|-----------------------------------|---|---------------------------------|---|--|
| MW-6      | 11/21/1998 | 1501.21  | 112.66                            | 1388.55   | 110.52                          | 1390.69                                       | 2.14   |
|           | 12/1/1998  | 1501.21  | 113.55                            | 1387.66   | 110.45                          | 1390.76                                       | 3.10   |
|           | 6/9/1999   | 1501.21  | 115.92                            | 1385.29   | 110.59                          | 1390.62                                       | 5.33   |
|           | 9/16/1999  | 1501.21  | 111.82                            | 1389.39   | 111.79                          | 1389.42                                       | 0.03   |
|           | 10/7/1999  | 1501.21  | 111.97                            | 1389.24   | 111.69                          | 1389.52                                       | 0.28   |
|           | 11/11/1999 | 1501.21  | 112.53                            | 1388.68   | 111.73                          | 1389.48                                       | 0.80   |
|           | 5/17/2000  | 1501.21  | 110.85                            | 1390.36   | NM                              | NM  | NM   |
|           | 12/29/2000 | 1501.21  | 103.00                            | 1398.21   | 102.15                          | 1399.06                                       | 0.85   |
|           | 7/19/2001  | 1501.32  | 104.50                            | 1396.82   | 102.23                          | 1399.09                                       | 2.27   |
|           | 9/20/2001  | 1501.32  | 106.10                            | 1395.22   | 103.20                          | 1398.12                                       | 2.90   |
|           | 6/11/2002  | 1501.32  | 110.49                            | 1390.83   | 108.45                          | 1392.87                                       | 2.04   |
|           | 10/2/2002  | 1501.32  | 109.56                            | 1391.76   | 109.38                          | 1391.94                                       | 0.18   |
|           | 6/4/2003   | 1501.32  | 116.13                            | 1385.19   | 109.19                          | 1392.13                                       | 6.94   |
|           | 6/23/2003  | 1501.32  | 110.33                            | 1390.99   | 110.18                          | 1391.14                                       | 0.15   |
|           | 7/24/2003  | 1501.32  | 110.53                            | 1390.79   | 110.42                          | 1390.90                                       | 0.11   |
|           | 8/28/2003  | 1501.32  | 110.92                            | 1390.40   | 110.78                          | 1390.54                                       | 0.14   |
|           | 9/15/2003  | 1501.32  | 111.12                            | 1390.20   | 110.97                          | 1390.35                                       | 0.15   |
|           | 10/3/2003  | 1501.32  | 110.96                            | 1390.36   | 110.81                          | 1390.51                                       | 0.15   |
|           | 6/2/2004   | 1501.32  | 111.87                            | 1389.45   | 110.99                          | 1390.33                                       | 0.88   |
|           | 6/3/2004   | 1501.32  | 111.20                            | 1390.12   | 111.18                          | 1390.14                                       | 0.02   |
|           | 6/10/2004  | 1501.32  | 110.86                            | 1390.46   | NM                              | NM  | NM   |
|           | 7/8/2004   | 1501.32  | 110.47                            | 1390.85   | 110.43                          | 1390.89                                       | 0.04   |
|           | 7/20/2004  | 1501.32  | 110.30                            | 1391.02   | 110.22                          | 1391.10                                       | 0.08   |
|           | 8/12/2004  | 1501.32  | 110.03                            | 1391.29   | 109.96                          | 1391.36                                       | 0.07   |
|           | 9/2/2004   | 1501.32  | 109.94                            | 1391.38   | 109.86                          | 1391.46                                       | 0.08   |
|           | 10/19/2004 | 1501.32  | 110.16                            | 1391.16   | 109.80                          | 1391.52                                       | 0.36   |
|           | 6/20/2005  | 1501.32  | 111.65                            | 1389.67   | 109.40                          | 1391.92                                       | 2.25   |
|           | 6/28/2005  | 1501.32  | 109.51                            | 1391.81   | 109.51                          | 1391.81                                       | 0.00   |
|           | 10/17/2005 | 1501.32  | 109.22                            | 1392.10   | 109.21                          | 1392.11                                       | 0.01   |
|           | 5/31/2006  | 1501.32  | 113.28                            | 1388.04   | 110.36                          | 1390.96                                       | 2.92   |
|           | 7/13/2006  | 1501.32  | 111.23                            | 1390.09   | 110.77                          | 1390.55                                       | 0.46   |
|           | 10/5/2006  | 1501.32  | 110.02                            | 1391.30   | 107.72                          | 1393.60                                       | 2.30   |
|           | 5/30/2007  | 1501.32  | 112.79                            | 1388.53   | 108.09                          | 1393.23                                       | 4.70   |
|           | 7/18/2007  | 1501.32  | 109.81                            | 1391.51   | 109.28                          | 1392.04                                       | 0.53   |
|           | 8/3/2007   | 1501.32  | 109.64                            | 1391.68   | 109.62                          | 1391.70                                       | 0.02   |
|           | 8/17/2007  | 1501.32  | 109.53                            | 1391.79   | N/A                             | N/A   | 0.00   |
|           | 9/13/2007  | 1501.32  | 109.71                            | 1391.61   | N/A                             | N/A   | 0.00   |
|           | 9/21/2007  | 1501.32  | 109.65                            | 1391.67   | N/A                             | N/A   | 0.00   |
|           | 10/5/2007  | 1501.32  | 109.71                            | 1391.61   | N/A                             | N/A   | 0.00   |
|           | 10/12/2007 | 1501.32  | 109.38                            | 1391.94   | 109.32                          | 1392.00                                       | 0.06   |
|           | 11/2/2007  | 1501.32  | 109.56                            | 1391.76   | 109.20                          | 1392.12                                       | 0.36   |
|           | 4/16/2008  | 1501.32  | 111.79                            | 1389.53   | 109.10                          | 1392.22                                       | 2.69   |
|           | 6/2/2008   | 1501.32  | 112.23                            | 1389.09   | 109.39                          | 1391.93                                       | 2.84   |
|           | 7/1/2008   | 1501.32  | 110.36                            | 1390.96   | 110.30                          | 1391.02                                       | 0.06   |
|           | 7/18/2008  | 1501.32  | 110.42                            | 1390.90   | 110.38                          | 1390.94                                       | 0.04   |
|           | 7/23/2008  | 1501.32  | 110.54                            | 1390.78   | 110.51                          | 1390.81                                       | 0.03   |
|           | 8/12/2008  | 1501.32  | 110.10                            | 1391.22   | N/A                             | N/A   | 0.00   |
|           | 9/3/2008   | 1501.32  | 110.00                            | 1391.32   | 109.65                          | 1391.67                                       | 0.35   |
|           | 9/12/2008  | 1501.32  | 109.55                            | 1391.77   | 109.15                          | 1392.17                                       | 0.40   |
|           | 10/8/2008  | 1501.32  | 108.43                            | 1392.89   | 106.25                          | 1395.07                                       | 2.18   |
|           | 7/17/2009  | 1501.32  | 108.12                            | 1393.20   | 104.46                          | 1396.86                                       | 3.66   |
|           | 8/7/2010   | 1501.32  | 112.59                            | 1388.73   | 109.48                          | 1391.84                                       | 3.11   |
|           | 8/23/2010  | 1501.32  | 110.10                            | 1391.22   | 109.44                          | 1391.88                                       | 0.66   |
|           | 9/25/2010  | 1501.32  | 108.49                            | 1392.83   | 107.59                          | 1393.73                                       | 0.90   |
|           | 10/8/2010  | 1501.32  | 108.30                            | 1393.02   | 107.40                          | 1393.92                                       | 0.90   |
|           | 10/12/2010 | 1501.32  | 107.78                            | 1393.54   | 107.29                          | 1394.03                                       | 0.49   |
|           | 6/24/2011  | 1501.32  | NM                                | NM  | N/A                             | N/A   | N/A  |
|           | 7/18/2011  | 1501.32  | NM                                | NM  | N/A                             | N/A   | N/A  |
|           | 7/26/2011  | 1501.32  | NM                                | NM  | N/A                             | N/A   | N/A  |
|           | 8/8/2011   | 1501.32  | NM                                | NM  | N/A                             | N/A   | N/A  |
|           | 8/22/2011  | 1501.32  | 110.90                            | 1390.42   | 108.09                          | 1393.23                                       | 2.81   |
|           | 9/9/2011   | 1501.32  | 108.91                            | 1392.41   | 108.90                          | 1392.42                                       | 0.01   |
|           | 9/19/2011  | 1501.32  | 108.62                            | 1392.70   | 108.61                          | 1392.71                                       | 0.01   |
|           | 10/6/2011  | 1501.32  | 108.53                            | 1392.79   | 108.52                          | 1392.80                                       | 0.01   |
|           | 10/26/2011 | 1501.32  | 108.53                            | 1392.79   | 108.52                          | 1392.80                                       | 0.01   |
|           | 6/5/2012   | 1501.32  | 110.09                            | 1391.23   | 109.71                          | 1391.61                                       | 0.38   |

**Table 1 - Groundwater and Free Product Elevations**  
**PS09 Mainline Turbine Sump**

| Well Name             | Date                        | Well Elevation<br>(feet above<br>MSL) <sup>A</sup> | Depth to<br>Groundwater<br>(feet) | Groundwater<br>Elevation <sup>B</sup><br>(feet above MSL) | Depth to Free<br>Product (feet) | Free Product<br>Elevation<br>(feet above MSL) | Apparent Free<br>Product Thickness<br>(feet) |
|-----------------------|-----------------------------|--|-----------------------------------|---|---------------------------------|---|--|
| MW-6<br><br>Continued | 6/20/2012                   | 1501.32  | 110.20                            | 1391.12   | 109.82                          | 1391.50                                       | 0.38   |
|                       | 7/5/2012                    | 1501.32  | 110.12                            | 1391.20   | 109.75                          | 1391.57                                       | 0.37   |
|                       | 7/20/2012                   | 1501.32  | 110.10                            | 1391.22   | 109.62                          | 1391.70                                       | 0.48   |
|                       | 8/3/2012                    | 1501.32  | 110.15                            | 1391.17   | 109.77                          | 1391.55                                       | 0.38   |
|                       | 8/9/2012                    | 1501.32  | 110.05                            | 1391.27   | 109.69                          | 1391.63                                       | 0.36   |
|                       | 8/23/2012                   | 1501.32  | 109.62                            | 1391.70   | 109.59                          | 1391.73                                       | 0.03   |
|                       | 9/6/2012                    | 1501.32  | 109.77                            | 1391.55   | 109.75                          | 1391.57                                       | 0.02   |
|                       | 9/21/2012                   | 1501.32  | 109.71                            | 1391.61   | 109.70                          | 1391.62                                       | 0.01   |
|                       | 10/8/2012                   | 1501.32  | 109.79                            | 1391.53   | 109.78                          | 1391.54                                       | 0.01   |
|                       | 10/22/2012                  | 1501.32  | 109.83                            | 1391.49   | 109.82                          | 1391.50                                       | 0.01   |
|                       | 6/19/2013                   | 1501.32  | 112.26                            | 1389.06   | 110.96                          | 1390.36                                       | 1.30   |
|                       | 6/27/2013                   | 1501.32  | 112.41                            | 1388.91   | 111.12                          | 1390.20                                       | 1.29   |
|                       | 7/19/2013                   | 1501.32  | 112.51                            | 1388.81   | 111.20                          | 1390.12                                       | 1.31   |
|                       | 8/2/2013                    | 1501.32  | 111.41                            | 1389.91   | 111.40                          | 1389.92                                       | 0.01   |
|                       | 8/14/2013                   | 1501.32  | 111.55                            | 1389.77   | 111.55                          | 1389.77                                       | 0.00   |
|                       | 8/29/2013                   | 1501.32  | 111.62                            | 1389.70   | 111.60                          | 1389.72                                       | 0.02   |
|                       | 9/12/2013                   | 1501.32  | 111.73                            | 1389.59   | 111.72                          | 1389.60                                       | 0.01   |
|                       | 10/4/2013                   | 1501.32  | 111.77                            | 1389.55   | 111.76                          | 1389.56                                       | 0.01   |
|                       | 10/17/2013                  | 1501.32  | 111.79                            | 1389.53   | 111.78                          | 1389.54                                       | 0.01   |
|                       | 6/3/2014                    | 1501.32  | 113.11                            | 1388.21   | 112.80                          | 1388.52                                       | 0.31   |
|                       | 7/9/2014                    | 1501.32  | 113.14                            | 1388.18   | 112.90                          | 1388.42                                       | 0.24   |
|                       | 7/28/2014                   | 1501.32  | 113.07                            | 1388.25   | 112.94                          | 1388.38                                       | 0.13   |
|                       | 8/7/2014                    | 1501.32  | 112.89                            | 1388.43   | 112.80                          | 1388.52                                       | 0.09   |
|                       | 8/26/2014                   | 1501.32  | 112.68                            | 1388.64   | 112.64                          | 1388.68                                       | 0.04   |
|                       | 9/23/2014                   | 1501.32  | 112.41                            | 1388.91   | 112.40                          | 1388.92                                       | 0.01   |
|                       | 10/9/2014                   | 1501.32  | 112.01                            | 1389.31   | N/A                             | N/A   | 0.00   |
|                       | 6/4/2015                    | 1501.32  | NM                                | NM  | NM                              | NM  | NM   |
|                       | 7/3/2015                    | 1501.32  | NM                                | NM  | NM                              | NM  | NM   |
|                       | 7/14/2015                   | 1501.32  | 111.65                            | 1389.67   | 111.54                          | 1389.78                                       | 0.11   |
|                       | 7/21/2015                   | 1501.32  | 111.65                            | 1389.67   | 111.56                          | 1389.76                                       | 0.09   |
|                       | 8/12/2015                   | 1501.32  | 111.94                            | 1389.38   | N/A                             | N/A   | 0.00   |
|                       | 8/25/2015                   | 1501.32  | 111.85                            | 1389.47   | N/A                             | N/A   | 0.00   |
|                       | 9/13/2015                   | 1501.32  | 111.91                            | 1389.41   | N/A                             | N/A   | 0.00   |
|                       | 10/1/2015                   | 1501.32  | 112.07                            | 1389.25   | N/A                             | N/A   | 0.00   |
|                       | 6/1/2016                    | 1501.32  | 111.69                            | 1389.63   | 111.61                          | 1389.71                                       | 0.08   |
|                       | 6/2/2016                    | 1501.32  | 111.74                            | 1389.58   | 111.66                          | 1389.66                                       | 0.08   |
|                       | 6/7/2016                    | 1501.32  | NM                                | NM  | NM                              | NM  | NM   |
|                       | 6/11/2016                   | 1501.32  | 111.95                            | 1389.37   | 111.85                          | 1389.47                                       | 0.10   |
|                       | 6/27/2016                   | 1501.32  | 112.02                            | 1389.30   | 112.01                          | 1389.31                                       | 0.01   |
|                       | 7/10/2016                   | 1501.32  | 112.05                            | 1389.27   | 112.04                          | 1389.28                                       | 0.01   |
|                       | 8/5/2016                    | 1501.32  | 112.20                            | 1389.12   | 112.18                          | 1389.14                                       | 0.02   |
|                       | 8/18/2016                   | 1501.32  | 112.27                            | 1389.05   | 112.22                          | 1389.10                                       | 0.05   |
|                       | 9/5/2016                    | 1501.32  | 112.22                            | 1389.10   | 112.21                          | 1389.11                                       | 0.01   |
|                       | 9/16/2016                   | 1501.32  | 112.21                            | 1389.11   | N/A                             | N/A   | 0.00   |
|                       | 10/3/2016                   | 1501.32  | 112.38                            | 1388.94   | 112.37                          | 1388.95                                       | 0.01   |
|                       | 10/13/2016                  | 1501.32  | 112.26                            | 1389.06   | 112.25                          | 1389.07                                       | 0.01   |
|                       | Well Decommissioned in 2017 |  | NM                                | NM  | NM                              | NM  | NM   |
| MW-7                  | 11/21/1998                  | 1498.75  | 112.83                            | 1385.92   | N/A                             | N/A   | 0.00   |
|                       | 12/1/1998                   | 1498.75  | 112.95                            | 1385.80   | N/A                             | N/A   | 0.00   |
|                       | 9/16/1999                   | 1498.75  | 116.86                            | 1381.89   | N/A                             | N/A   | 0.00   |
|                       | 11/11/1999                  | 1498.75  | 116.87                            | 1381.88   | N/A                             | N/A   | 0.00   |
|                       | 5/17/2000                   | 1498.75  | 116.55                            | 1382.20   | N/A                             | N/A   | 0.00   |
|                       | 7/14/2000                   | 1498.75  | 116.56                            | 1382.19   | N/A                             | N/A   | 0.00   |
|                       | 3/27/2001                   | 1502.44  | NM                                | NM  | N/A                             | N/A   | 0.00   |
|                       | 7/12/2001                   | 1502.44  | 103.82                            | 1398.62   | N/A                             | N/A   | 0.00   |
|                       | 9/21/2001                   | 1502.44  | 112.66                            | 1389.78   | N/A                             | N/A   | 0.00   |
|                       | 11/19/2001                  | 1502.44  | 113.53                            | 1388.91   | N/A                             | N/A   | 0.00   |
|                       | 6/12/2002                   | 1502.44  | 115.12                            | 1387.32   | N/A                             | N/A   | 0.00   |
|                       | 10/4/2002                   | 1502.44  | 114.77                            | 1387.67   | N/A                             | N/A   | 0.00   |
|                       | 6/24/2003                   | 1502.44  | 114.71                            | 1387.73   | N/A                             | N/A   | 0.00   |
|                       | 10/1/2003                   | 1502.44  | 114.99                            | 1387.45   | N/A                             | N/A   | 0.00   |
|                       | 6/11/2004                   | 1502.44  | 114.88                            | 1387.56   | N/A                             | N/A   | 0.00   |
|                       | 10/18/2004                  | 1502.44  | 114.50                            | 1387.94   | N/A                             | N/A   | 0.00   |
|                       | 6/27/2005                   | 1502.44  | 114.26                            | 1388.18   | N/A                             | N/A   | 0.00   |
|                       | 10/17/2005                  | 1502.44  | 114.04                            | 1388.40   | N/A                             | N/A   | 0.00   |
|                       | 6/2/2006                    | 1502.44  | 114.73                            | 1387.71   | N/A                             | N/A   | 0.00   |

**Table 1 - Groundwater and Free Product Elevations**  
**PS09 Mainline Turbine Sump**

| Well Name         | Date       | Well Elevation<br>(feet above<br>MSL) <sup>A</sup> | Depth to<br>Groundwater<br>(feet) | Groundwater<br>Elevation <sup>B</sup><br>(feet above MSL) | Depth to Free<br>Product (feet) | Free Product<br>Elevation<br>(feet above MSL) | Apparent Free<br>Product Thickness<br>(feet) |
|-------------------|------------|--|-----------------------------------|---|---------------------------------|---|--|
| MW-7<br>Continued | 10/5/2006  | 1502.44  | 113.52                            | 1388.92   | N/A                             | N/A   | 0.00   |
|                   | 7/17/2007  | 1502.44  | 114.06                            | 1388.38   | N/A                             | N/A   | 0.00   |
|                   | 10/4/2007  | 1502.44  | 114.37                            | 1388.07   | N/A                             | N/A   | 0.00   |
|                   | 7/24/2008  | 1502.44  | 114.76                            | 1387.68   | N/A                             | N/A   | 0.00   |
|                   | 7/17/2009  | 1502.44  | 111.38                            | 1391.06   | N/A                             | N/A   | 0.00   |
|                   | 8/11/2010  | 1502.44  | 115.50                            | 1386.94   | N/A                             | N/A   | 0.00   |
|                   | 9/8/2011   | 1502.44  | 115.18                            | 1387.26   | N/A                             | N/A   | 0.00   |
|                   | 7/20/2012  | 1502.44  | 115.09                            | 1387.35   | N/A                             | N/A   | 0.00   |
|                   | 8/22/2013  | 1502.44  | 115.75                            | 1386.69   | N/A                             | N/A   | 0.00   |
|                   | 9/19/2013  | 1502.44  | 115.69                            | 1386.75   | N/A                             | N/A   | 0.00   |
|                   | 6/5/2014   | 1502.44  | 116.02                            | 1386.42   | N/A                             | N/A   | 0.00   |
|                   | 7/15/2015  | 1502.44  | 115.44                            | 1387.00   | N/A                             | N/A   | 0.00   |
|                   | 6/6/2016   | 1502.44  | 114.00                            | 1388.44   | N/A                             | N/A   | 0.00   |
|                   | 6/7/2017   | 1502.44  | 114.97                            | 1387.47   | N/A                             | N/A   | 0.00   |
|                   | 5/30/2019  | 1502.44  | 114.81                            | 1387.63   | N/A                             | N/A   | 0.00   |
| MW-8              | 11/22/1998 | 1498.64  | 113.34                            | 1385.30   | N/A                             | N/A   | 0.00   |
|                   | 12/1/1998  | 1498.64  | 113.67                            | 1384.97   | N/A                             | N/A   | 0.00   |
|                   | 6/9/1999   | 1498.64  | 113.98                            | 1384.66   | N/A                             | N/A   | 0.00   |
|                   | 9/17/1999  | 1498.64  | 114.52                            | 1384.12   | N/A                             | N/A   | 0.00   |
|                   | 5/17/2000  | 1498.64  | 115.02                            | 1383.62   | N/A                             | N/A   | 0.00   |
|                   | 7/14/2000  | 1498.64  | 115.24                            | 1383.40   | N/A                             | N/A   | 0.00   |
|                   | 10/13/2000 | 1498.64  | 112.60                            | 1386.04   | N/A                             | N/A   | 0.00   |
|                   | 3/27/2001  | 1498.37  | NM                                | NM  | N/A                             | N/A   | 0.00   |
|                   | 7/12/2001  | 1498.37  | 99.45                             | 1398.92   | N/A                             | N/A   | 0.00   |
|                   | 9/21/2001  | 1498.37  | 100.39                            | 1397.98   | N/A                             | N/A   | 0.00   |
|                   | 11/19/2001 | 1498.37  | NM                                | NM  | N/A                             | N/A   | 0.00   |
|                   | 6/12/2002  | 1498.37  | 106.21                            | 1392.16   | N/A                             | N/A   | 0.00   |
|                   | 10/4/2002  | 1498.37  | 108.68                            | 1389.69   | N/A                             | N/A   | 0.00   |
|                   | 6/25/2003  | 1498.37  | 114.64                            | 1383.73   | N/A                             | N/A   | 0.00   |
|                   | 10/1/2003  | 1498.37  | 114.77                            | 1383.60   | N/A                             | N/A   | 0.00   |
|                   | 6/11/2004  | 1498.37  | 115.16                            | 1383.21   | N/A                             | N/A   | 0.00   |
|                   | 10/18/2004 | 1498.37  | 115.28                            | 1383.09   | N/A                             | N/A   | 0.00   |
|                   | 6/27/2005  | 1498.37  | 114.49                            | 1383.88   | N/A                             | N/A   | 0.00   |
|                   | 10/16/2005 | 1498.37  | 114.77                            | 1383.60   | N/A                             | N/A   | 0.00   |
|                   | 6/2/2006   | 1498.37  | NM                                | NM  | N/A                             | N/A   | 0.00   |
|                   | 10/5/2006  | 1498.37  | 113.55                            | 1384.82   | N/A                             | N/A   | 0.00   |
|                   | 7/17/2007  | 1498.37  | 114.67                            | 1383.70   | N/A                             | N/A   | 0.00   |
|                   | 10/4/2007  | 1498.37  | 114.70                            | 1383.67   | N/A                             | N/A   | 0.00   |
|                   | 7/24/2008  | 1498.37  | 114.89                            | 1383.48   | N/A                             | N/A   | 0.00   |
|                   | 7/18/2009  | 1498.37  | 101.56                            | 1396.81   | N/A                             | N/A   | 0.00   |
|                   | 8/11/2010  | 1498.37  | 109.79                            | 1388.58   | N/A                             | N/A   | 0.00   |
|                   | 9/8/2011   | 1498.37  | 110.10                            | 1388.27   | N/A                             | N/A   | 0.00   |
|                   | 7/20/2012  | 1498.37  | 111.38                            | 1386.99   | N/A                             | N/A   | 0.00   |
|                   | 8/22/2013  | 1498.37  | 114.46                            | 1383.91   | N/A                             | N/A   | 0.00   |
|                   | 9/19/2013  | 1498.37  | 114.67                            | 1383.70   | N/A                             | N/A   | 0.00   |
|                   | 6/5/2014   | 1498.37  | 114.89                            | 1383.48   | N/A                             | N/A   | 0.00   |
|                   | 7/15/2015  | 1498.37  | 114.17                            | 1384.20   | N/A                             | N/A   | 0.00   |
|                   | 6/7/2016   | 1498.37  | 114.60                            | 1383.77   | N/A                             | N/A   | 0.00   |
|                   | 6/7/2017   | 1498.37  | 115.31                            | 1383.06   | N/A                             | N/A   | 0.00   |
|                   | 5/30/2019  | 1498.37  | 113.38                            | 1384.99   | N/A                             | N/A   | 0.00   |
| MW-10             | 12/1/1998  | 1501.01  | 110.61                            | 1390.40   | N/A                             | N/A   | 0.00   |
|                   | 6/9/1999   | 1501.01  | 111.12                            | 1389.89   | N/A                             | N/A   | 0.00   |
|                   | 9/16/1999  | 1501.01  | 111.49                            | 1389.52   | N/A                             | N/A   | 0.00   |
|                   | 11/11/1999 | 1501.01  | 111.62                            | 1389.39   | N/A                             | N/A   | 0.00   |
|                   | 5/17/2000  | 1501.01  | 110.53                            | 1390.48   | N/A                             | N/A   | 0.00   |
|                   | 7/16/2000  | 1501.01  | 110.19                            | 1390.82   | N/A                             | N/A   | 0.00   |
|                   | 10/11/2000 | 1501.01  | 108.60                            | 1392.41   | N/A                             | N/A   | 0.00   |
|                   | 3/27/2001  | 1501.01  | 101.05                            | 1399.96   | N/A                             | N/A   | 0.00   |
|                   | 7/12/2001  | 1501.01  | 102.54                            | 1398.47   | N/A                             | N/A   | 0.00   |
|                   | 9/20/2001  | 1501.01  | 103.50                            | 1397.51   | N/A                             | N/A   | 0.00   |
|                   | 11/19/2001 | 1501.01  | 104.71                            | 1396.30   | N/A                             | N/A   | 0.00   |
|                   | 6/12/2002  | 1501.01  | 108.42                            | 1392.59   | N/A                             | N/A   | 0.00   |
|                   | 10/3/2002  | 1501.01  | 108.82                            | 1392.19   | N/A                             | N/A   | 0.00   |
|                   | 6/24/2003  | 1501.01  | 109.67                            | 1391.34   | N/A                             | N/A   | 0.00   |
|                   | 10/2/2003  | 1501.01  | 110.26                            | 1390.75   | N/A                             | N/A   | 0.00   |
|                   | 6/10/2004  | 1501.01  | 110.33                            | 1390.68   | N/A                             | N/A   | 0.00   |

**Table 1 - Groundwater and Free Product Elevations**  
**PS09 Mainline Turbine Sump**

| Well Name          | Date       | Well Elevation<br>(feet above<br>MSL) <sup>A</sup> | Depth to<br>Groundwater<br>(feet) | Groundwater<br>Elevation <sup>B</sup><br>(feet above MSL) | Depth to Free<br>Product (feet) | Free Product<br>Elevation<br>(feet above MSL) | Apparent Free<br>Product Thickness<br>(feet) |
|--------------------|------------|--|-----------------------------------|---|---------------------------------|---|--|
| MW-10<br>Continued | 10/19/2004 | 1501.01  | 109.21                            | 1391.80   | N/A                             | N/A   | 0.00   |
|                    | 6/28/2005  | 1501.01  | 109.02                            | 1391.99   | N/A                             | N/A   | 0.00   |
|                    | 10/16/2005 | 1501.01  | 108.80                            | 1392.21   | N/A                             | N/A   | 0.00   |
|                    | 6/1/2006   | 1501.01  | 110.41                            | 1390.60   | N/A                             | N/A   | 0.00   |
|                    | 10/6/2006  | 1501.01  | 107.60                            | 1393.41   | N/A                             | N/A   | 0.00   |
|                    | 7/17/2007  | 1501.01  | 108.80                            | 1392.21   | N/A                             | N/A   | 0.00   |
|                    | 10/4/2007  | 1501.01  | 108.70                            | 1392.31   | N/A                             | N/A   | 0.00   |
|                    | 7/24/2008  | 1501.01  | 110.13                            | 1390.88   | N/A                             | N/A   | 0.00   |
|                    | 7/17/2009  | 1501.01  | 104.74                            | 1396.27   | N/A                             | N/A   | 0.00   |
|                    | 8/12/2010  | 1501.01  | 109.47                            | 1391.54   | N/A                             | N/A   | 0.00   |
|                    | 9/8/2011   | 1501.01  | 102.88                            | 1398.13   | N/A                             | N/A   | 0.00   |
|                    | 7/20/2012  | 1501.01  | 109.20                            | 1391.81   | N/A                             | N/A   | 0.00   |
|                    | 8/22/2013  | 1501.01  | 111.10                            | 1389.91   | N/A                             | N/A   | 0.00   |
|                    | 9/19/2013  | 1501.01  | 111.23                            | 1389.78   | N/A                             | N/A   | 0.00   |
|                    | 6/3/2014   | 1501.01  | 112.44                            | 1388.57   | N/A                             | N/A   | 0.00   |
|                    | 7/15/2015  | 1501.01  | 111.30                            | 1389.71   | N/A                             | N/A   | 0.00   |
|                    | 6/7/2016   | 1501.01  | 111.42                            | 1389.59   | N/A                             | N/A   | 0.00   |
|                    | 6/6/2017   | 1501.01  | 112.50                            | 1388.51   | N/A                             | N/A   | 0.00   |
|                    | 5/30/2019  | 1501.01  | 109.89                            | 1391.12   | N/A                             | N/A   | 0.00   |

**Notes:**

- A 2001 and later elevation data based on December 2001 survey  
B Recovery well groundwater elevations have not been corrected to account for presence of free product

**Abbreviations:**

- |     |  |
|-----|--|
| MSL | mean sea level                             |
| N/A | not applicable; no measurable free product |
| NM  | not measured                               |

**Table 2A - 2020 Correction Factor Calculations for MW-1 Sorbent Sock Product Recovery  
PS09 Mainline Turbine Sump**

| Date      | Number of 2" Sorbents Used <sup>A</sup> | Volume of Product Wrung (gal) <sup>B</sup> | Mass of Residual Product in Socks (grams) <sup>C</sup> | Volume of Product Recovered (gal) <sup>D</sup> | Volume of Water Recovered (gal) <sup>E</sup> | Fraction of Total Volume as Product <sup>F</sup> | Recovered Product Estimate Using % Saturation and Vendor Capacity (gal) <sup>G</sup> | Visually Observed Saturation Estimate vs Measured Product <sup>H</sup> |
|-----------|---|--|--|--|--|--|--|--|
| 8/24/2020 | 1.77                                    | 0.02                                       | 374  | 0.14   | 0.15   | 50%  | 0.44   | 308%   |
| 9/15/2020 | 2.13                                    | 0.02                                       | 599  | 0.21   | 0.21   | 50%  | 0.53   | 256%   |
| 9/29/2020 | 2.13                                    | 0.01                                       | 605  | 0.20   | 0.17   | 55%  | 0.53   | 265%   |

Correction factor to yield actual product recovered from visually estimated results: 0.36  
 Corrected gallons of product recovered from MW-1 in 2019: 1.16

**Notes:**

- A The number of sorbents presented is a sum of all partial sorbents used during each product recovery visit.
- B The volume of product wrung from sorbents is a sum of all sorbents used during each product recovery visit. The volume of wrung product was measured using a graduated cylinder.
- C The mass of residual product was obtained by weighing a wrung sorbent and then subtracting the weight of an unused sorbent.
- D The volume of product recovered is a sum of product wrung from the sock and product remaining in the sorbent. The mass of liquid retained by the sorbent was assumed to consist entirely of product.
- E The volume of water recovered was measured using a graduated cylinder.
- F The fraction of total volume recovered as product is the percent of total fluid recovered by sorbents that consists of product.
- G The recovered product estimate is vendor-specified product capacity in gallons per inch of sorbent that is saturated.
- H This measurement is a calculation of how much a visual estimate of product recovered overestimates actual (measured) recovered product.

**Table 2B - 1998-2020 MW-1 Summary of Product Gauging and Recovery  
PS09 Mainline Turbine Sump**

| Year   | Date       | Description                  | Amount Recovered (gal), Unadjusted | Depth to Product (ft) | Depth to Water (ft) | Product Thickness (ft) |
|--|------------|------------------------------|------------------------------------|-----------------------|---------------------|------------------------|
| 1998 to 2010 Maximum Apparent Thickness <sup>A</sup> | 11/22/1998 | --                           | N/A                                | 114.54                | 114.73              | 0.19                   |
|  | 10/7/1999  | --                           | N/A                                | 115.48                | 116.71              | 1.23                   |
|  | 12/28/2000 | --                           | N/A                                | 104.80                | 112.00              | 7.20                   |
|  | 7/19/2001  | --                           | N/A                                | 101.92                | 106.40              | 4.48                   |
|  | 6/10/2002  | --                           | N/A                                | 108.56                | 108.90              | 0.34                   |
|  | 6/3/2003   | --                           | N/A                                | 110.12                | 111.07              | 0.95                   |
|  | 6/2/2004   | --                           | N/A                                | 110.99                | 111.89              | 0.90                   |
|  | 5/31/2006  | --                           | N/A                                | 110.70                | 111.41              | 0.71                   |
|  | 6/2/2008   | --                           | N/A                                | 109.80                | 110.22              | 0.42                   |
|  | 7/17/2009  | --                           | N/A                                | 104.48                | 108.36              | 3.88                   |
|  | 10/8/2010  | --                           | N/A                                | 107.43                | 108.25              | 0.82                   |
|  |            | Initial Measurement          | N/A                                | 107.94                | 108.94              | 1.00                   |
| 2011   | 6/24/2011  | Deployment 1                 | 0.1875                             | 108.03                | 108.3               | 0.27                   |
|  |            | Deployment 2                 | 0.025                              | 108.03                | 108.25              | 0.22                   |
|  |            | Deployment 3                 | 0.125                              | 108.08                | 108.1               | 0.02                   |
|  |            | Initial Measurement          | N/A                                | 108.34                | 109.02              | 0.68                   |
|  | 7/18/2011  | Deployment 1                 | 0.0625                             | 108.39                | 108.61              | 0.22                   |
|  |            | Deployment 2                 | 0.125                              | 108.41                | 108.44              | 0.03                   |
|  |            | Initial Measurement          | N/A                                | 108.45                | 108.64              | 0.19                   |
|  | 7/26/2011  | Deployment 1                 | sheen                              | 108.5                 | 108.53              | 0.03                   |
|  |            | Initial Measurement          | 0.0825                             | 108.69                | 108.75              | 0.06                   |
|  |            | Deployment 1                 | 0.0125                             | 108.7                 | 108.71              | 0.01                   |
| 2012   | 8/8/2011   | Initial Measurement          | 0.0625                             | 108.53                | 108.54              | 0.01                   |
|  |            | Deployment 1                 | 0.0625                             | 108.84                | 108.86              | 0.02                   |
|  |            | Initial Measurement          | sheen                              | 108.6                 | 108.61              | 0.01                   |
|  |            | Deployment 1                 | sheen                              | 108.51                | 108.52              | 0.01                   |
|  | 8/22/2011  | Initial Measurement          | 0.025                              | 108.56                | 108.57              | 0.01                   |
|  |            | Initial Measurement          | N/A                                | 109.70                | 110.06              | 0.36                   |
|  |            | Deployment 1                 | 0.0625                             | 109.58                | 109.78              | 0.2                    |
|  |            | Initial Measurement          | sheen                              | 109.75                | 109.90              | 0.15                   |
|  | 9/6/2012   | Deploy 2" Rigid Sorbent      | 0.162                              | 109.75                | 109.90              | 0.15                   |
|  |            | Deploy 2" Rigid Sorbent      | 0.162                              | NM                    | NM                  | NM                     |
|  |            | Deploy 2" Rigid Sorbent      | 0.162                              | 109.78                | 109.80              | 0.02                   |
|  |            | Initial Measurement          | 0.031                              | 109.69                | 109.83              | 0.14                   |
| 2013   | 9/21/2012  | Deploy 2" Rigid Sorbent      | 0.162                              | NM                    | NM                  | NM                     |
|  |            | Deploy 2" Rigid Sorbent      | 0.162                              | NM                    | NM                  | NM                     |
|  |            | Deploy 2" Rigid Sorbent      | 0.081                              | NM                    | NM                  | NM                     |
|  |            | Deploy 2" Rigid Sorbent      | 0.081                              | 109.70                | 109.73              | 0.03                   |
|  | 10/8/2012  | Initial Measurement          | 0.005                              | 109.75                | 109.88              | 0.13                   |
|  |            | Deploy 2" Rigid Sorbent      | 0.162                              | NM                    | NM                  | NM                     |
|  |            | Deploy 2" Rigid Sorbent      | 0.162                              | 109.78                | 109.81              | 0.03                   |
|  |            | Deploy 2" Rigid Sorbent      | 0.162                              | 109.80                | 109.81              | 0.01                   |
|  | 10/22/2012 | Initial Measurement          | 0.005                              | 109.78                | 109.89              | 0.11                   |
|  |            | Deploy 2" Rigid Sorbent      | 0.162                              | 109.82                | 109.83              | 0.01                   |
|  | 6/19/2013  | Frozen                       | N/A <sup>B</sup>                   | NM                    | NM                  | NM                     |
|  | 6/27/2013  | Frozen                       | N/A <sup>B</sup>                   | NM                    | NM                  | NM                     |
|  | 7/19/2013  | Frozen                       | N/A <sup>B</sup>                   | NM                    | NM                  | NM                     |
|  | 8/2/2013   | Frozen                       | N/A <sup>B</sup>                   | NM                    | NM                  | NM                     |
|  | 8/14/2013  | Frozen                       | N/A <sup>B</sup>                   | NM                    | NM                  | NM                     |
|  | 8/29/2013  | Initial Measurement          | N/A                                | 111.41                | 112.62              | 1.21                   |
|  |            | 2" SoakEase deployment 1     | 0.17                               | 111.44                | 112.45              | 1.01                   |
|  |            | 2" SoakEase deployment 2     | 0.17                               | 111.45                | 112.40              | 0.95                   |
|  |            | 2" SoakEase deployment 3     | 0.25                               | 111.49                | 112.32              | 0.83                   |
|  |            | 2" SoakEase deployment 4     | 0.25                               | 111.50                | 112.20              | 0.70                   |
|  |            | 2" SoakEase (2 socks)        | 0.12                               | 111.52                | 112.16              | 0.64                   |
|  |            | 1.66" Product bailer         | 0.06                               | NM                    | NM                  | NM                     |
|  |            | 2" SoakEase (2 socks)        | 0.12                               | 111.56                | 112.04              | 0.48                   |
|  |            | 2" SoakEase (2 socks)        | 0.12                               | 111.55                | 111.95              | 0.40                   |
|  | 9/12/2013  | Initial Measurement          | 0.00                               | 111.60                | 112.39              | 0.79                   |
|  |            | 2" SoakEase deployment 1     | 0.12                               | 111.62                | 112.24              | 0.62                   |
|  |            | 2" SoakEase deployment 2     | 0.25                               | 111.64                | 112.15              | 0.51                   |
|  |            | 2" SoakEase deployment 3     | 0.25                               | 111.65                | 112.10              | 0.45                   |
|  |            | 2" SoakEase deployment 4     | 0.25                               | 111.66                | 112.04              | 0.38                   |
|  |            | 2" SoakEase deployment 5     | 0.25                               | 111.67                | 112.04              | 0.37                   |
|  | 10/4/2013  | Initial Measurement          | 0.25                               | 111.69                | 112.43              | 0.74                   |
|  |            | 2" SoakEase deployments 1-2  | 0.50                               | 111.73                | 112.23              | 0.50                   |
|  |            | 2" SoakEase deployments 3-4  | 0.50                               | 111.74                | 112.15              | 0.41                   |
|  |            | 2" SoakEase deployments 5-6  | 0.50                               | 111.78                | 111.96              | 0.18                   |
|  |            | 2" SoakEase deployments 7-8  | 0.50                               | 111.79                | 111.88              | 0.09                   |
|  |            | 2" SoakEase deployments 9-10 | 0.50                               | 111.79                | 111.80              | 0.01                   |
|  | 10/17/2013 | Initial Measurement          | 0.12                               | 111.68                | 112.01              | 0.33                   |
|  |            | 2" SoakEase deployment 1     | 0.12                               | 111.72                | 111.84              | 0.12                   |
|  |            | 2" SoakEase deployment 2     | 0.25                               | 111.74                | 111.80              | 0.06                   |
|  |            | 2" SoakEase deployment 3     | 0.06                               | 111.74                | 111.76              | 0.02                   |
| 2014   | 5/8/2014   | Initial Measurement          | N/A <sup>B</sup>                   | 112.43                | 114.15              | 1.72                   |
|  | 6/3/2014   | Initial Measurement          | N/A <sup>B</sup>                   | 112.57                | 114.28              | 1.71                   |

**Table 2B - 1998-2020 MW-1 Summary of Product Gauging and Recovery  
PS09 Mainline Turbine Sump**

| Year              | Date                       | Description                               | Amount Recovered (gal), Unadjusted | Depth to Product (ft) | Depth to Water (ft) | Product Thickness (ft) |
|-------------------|----------------------------|---|------------------------------------|-----------------------|---------------------|------------------------|
| 2014<br>Continued | 6/4/2014 <sup>D</sup>      | Initial Measurement                       | N/A                                | 112.60                | 114.32              | 1.72                   |
|                   |                            | Submersible pump                          | 1.50                               | 112.83                | 112.96              | 0.13                   |
|                   |                            | 2" SoakEase deployment 1                  | 0.20                               | 112.81                | 113.12              | 0.31                   |
|                   |                            | 2" SoakEase deployment 2                  | 0.13                               | 112.80                | 113.10              | 0.30                   |
|                   |                            | 2" SoakEase deployment 3                  | 0.07                               | 112.83                | 113.00              | 0.17                   |
|                   |                            | 2" SoakEase deployment 4                  | 0.03                               | 112.83                | 112.96              | 0.13                   |
|                   | 6/5/2014 <sup>D</sup>      | Final Measurement                         | N/A                                | 112.73                | 113.19              | 0.46                   |
|                   | 7/9/2014                   | Initial Measurement                       | N/A                                | 112.81                | 113.80              | 0.99                   |
|                   |                            | 1.66" Product bailer                      | 0.38                               | 112.88                | 113.35              | 0.47                   |
|                   | 7/28/2014                  | Initial Measurement                       | N/A                                | 112.85                | 113.63              | 0.78                   |
|                   |                            | 1.66" Product bailer                      | 0.38                               | 112.91                | 113.18              | 0.27                   |
|                   |                            | 2" SoakEase deployment 1                  | 0.15                               | 112.93                | 113.07              | 0.14                   |
|                   |                            | 2" SoakEase deployment 2                  | 0.15                               | 112.94                | 112.96              | 0.02                   |
|                   | 8/7/2014                   | Initial Measurement                       | N/A                                | 112.74                | 113.55              | 0.81                   |
|                   |                            | 1.66" Product bailer                      | 0.20                               | 112.80                | 113.13              | 0.33                   |
|                   | 8/26/2014                  | Initial Measurement                       | N/A                                | 112.53                | 113.48              | 0.95                   |
|                   |                            | 1.66" Product bailer                      | 0.40                               | 112.62                | 113.05              | 0.43                   |
|                   |                            | 2" SoakEase deployment 1                  | 0.10                               | 112.68                | 112.69              | 0.01                   |
|                   |                            | Initial Measurement                       | N/A                                | 112.29                | 112.93              | 0.64                   |
| 2015              | 9/23/2014                  | 1.66" Product bailer                      | 0.25                               | 112.32                | 112.72              | 0.40                   |
|                   |                            | 2" SoakEase (3 socks)                     | 0.25                               | 112.38                | 112.39              | 0.01                   |
|                   |                            | Initial Measurement                       | N/A                                | 112.00                | 112.43              | 0.43                   |
|                   | 10/9/2014                  | 2" SoakEase (3 socks)                     | 0.55 <sup>C</sup>                  | 112.01                | 112.43              | 0.42                   |
|                   |                            | Initial Measurement                       | N/A <sup>B</sup>                   | N/A                   | N/A                 | N/A                    |
|                   |                            | 1.66" Product bailer                      | 0.26                               | 111.43                | 111.70              | 0.27                   |
|                   | 7/22/2015 <sup>D</sup>     | 2" SoakEase (2 socks)                     | 0.26                               | 111.43                | 111.72              | 0.29                   |
|                   |                            | Initial Measurement <sup>C</sup>          | N/A                                | 111.72                | 112.14              | 0.42                   |
|                   |                            | 1.66" Product bailer                      | 0.26                               | 111.76                | 111.99              | 0.23                   |
|                   |                            | Initial Measurement <sup>C</sup>          | 0.12                               | 111.82                | 112.11              | 0.29                   |
| 2016              | 8/12/2015                  | 2" SoakEase (2 socks)                     | 0.13                               | 111.82                | 111.84              | 0.02                   |
|                   |                            | Initial Measurement <sup>C</sup>          | N/A                                | 111.82                | 112.11              | 0.29                   |
|                   |                            | 2" SoakEase (2 socks)                     | 0.21                               | 111.82                | 111.84              | 0.02                   |
|                   | 9/13/2015                  | Initial Measurement <sup>C</sup>          | N/A                                | 112.08                | 112.28              | 0.20                   |
|                   |                            | 1.66" Product bailer                      | 0.1                                | NM                    | NM                  | NM                     |
|                   |                            | 2" Soakease (2 socks)                     | 0.25                               | NM                    | NM                  | NM                     |
|                   | 10/1/2015                  | Frozen                                    | N/A <sup>B</sup>                   | NM                    | NM                  | NM                     |
|                   |                            | Initial Measurement                       | N/A                                | 111.64                | 112.23              | 0.59                   |
|                   |                            | 1.66" Product bailer                      | 0.14                               | 111.78                | 112.54              | 0.76                   |
|                   | 6/11/2016                  | Initial 2" SoakEase Recovery <sup>C</sup> | 0.08                               | 111.78                | 112.27              | 0.49                   |
|                   |                            | 2" Soakease (4 socks)                     | 0.50                               | 111.85                | 111.86              | 0.01                   |
|                   |                            | Initial 2" SoakEase Recovery <sup>C</sup> | 0.13                               | 111.93                | 112.25              | 0.32                   |
|                   | 6/27/2016                  | 2" Soakease (2 socks)                     | 0.25                               | 112.01                | 112.14              | 0.13                   |
|                   |                            | Initial Measurement                       | N/A                                | 112.03                | 112.24              | 0.21                   |
|                   |                            | 2" Soakease (2 socks)                     | 0.17                               | 112.05                | 112.09              | 0.04                   |
|                   | 7/10/2016                  | Initial 2" SoakEase Recovery <sup>C</sup> | 0.20                               | 112.19                | 112.26              | 0.07                   |
|                   |                            | 2" Soakease (1 sock)                      | 0.06                               | 112.19                | 112.24              | 0.05                   |
|                   |                            | Initial 2" SoakEase Recovery <sup>C</sup> | 0.17                               | 112.24                | 112.34              | 0.10                   |
|                   | 8/5/2016                   | 2" Soakease (1 sock)                      | 0.08                               | 112.25                | 112.26              | 0.01                   |
|                   |                            | Initial 2" SoakEase Recovery <sup>C</sup> | 0.13                               | 112.18                | 112.29              | 0.11                   |
|                   |                            | 1.66" Product bailer                      | 0.09                               | 112.20                | 112.21              | 0.01                   |
|                   | 9/5/2016                   | Initial Measurement                       | N/A                                | 112.22                | 112.33              | 0.11                   |
|                   |                            | 2" Soakease (2 socks)                     | 0.15                               | 112.22                | 112.23              | 0.01                   |
|                   |                            | Initial Measurement                       | N/A                                | 112.33                | 112.59              | 0.26                   |
|                   | 9/16/2016                  | 1.66" Product bailer                      | 0.06                               | 112.36                | 112.49              | 0.13                   |
|                   |                            | 2" Soakease (2 socks)                     | 0.17                               | NM                    | 112.39              | 0.00                   |
|                   |                            | Initial Measurement                       | N/A                                | 112.25                | 112.42              | 0.17                   |
|                   | 10/3/2016                  | 2" Soakease (2 socks)                     | 0.26                               | 112.28                | 112.28              | 0.00                   |
|                   |                            | Frozen                                    | N/A <sup>B</sup>                   | NM                    | NM                  | NM                     |
|                   |                            | Initial Measurement                       | N/A                                | 112.27                | 114.03              | 1.25                   |
| 2017              | 6/5/2017<br>to<br>6/7/2017 | Initial Measurement                       | N/A                                | 112.76                | 114.17              | 1.41                   |
|                   |                            | 1.66" Product bailer                      | 0.92                               | NM                    | NM                  | 0.20                   |
|                   |                            | 1.66" Product bailer                      | 0.26                               | NM                    | NM                  | NM                     |
|                   |                            | 2" Soakease (2 socks)                     | 0.25                               | NM                    | NM                  | NM                     |
|                   |                            | 2" Soakease (1 sock)                      | 0.06                               | 112.96                | 113.11              | 0.15                   |
|                   | 6/27/2017                  | Initial 2" SoakEase Recovery <sup>C</sup> | 0.13                               | 112.99                | 113.33              | 0.34                   |
|                   |                            | 2" Soakease (2 socks)                     | 0.38                               | NM                    | 113.01              | NM                     |
|                   | 7/24/2017                  | Initial 2" SoakEase Recovery <sup>C</sup> | 0.13                               | 113.14                | 113.43              | 0.29                   |
|                   |                            | 2" Soakease (3 socks)                     | 0.44                               | 113.17                | 113.20              | 0.03                   |
|                   | 9/14/2017                  | Initial 2" SoakEase Recovery <sup>C</sup> | 0.25                               | 113.2                 | 113.61              | 0.41                   |
|                   |                            | 1.66" Product bailer                      | 0.08                               | NM                    | NM                  | NM                     |
|                   |                            | 2" Soakease (3 socks)                     | 0.50                               | 113.24                | 113.29              | 0.05                   |
|                   | 9/28/2017                  | Initial 2" SoakEase Recovery <sup>C</sup> | 0.25                               | 113.16                | 113.45              | 0.29                   |
|                   |                            | 2" Soakease (3 socks)                     | 0.18                               | 113.10                | 113.14              | 0.04                   |

**Table 2B - 1998-2020 MW-1 Summary of Product Gauging and Recovery  
PS09 Mainline Turbine Sump**

| Year                      | Date       | Description                               | Amount Recovered<br>(gal), Unadjusted | Depth to<br>Product<br>(ft) | Depth to Water<br>(ft) | Product<br>Thickness<br>(ft) |
|---------------------------|------------|---|---------------------------------------|-----------------------------|------------------------|------------------------------|
| <b>2017<br/>Continued</b> | 10/19/2017 | Initial 2" SoakEase Recovery <sup>C</sup> | 0.13                                  | 113.16                      | 113.35                 | 0.19                         |
|                           |            | 2" Soakease (3 socks)                     | 0.25                                  | 113.18                      | 113.19                 | 0.01                         |
|                           |            | Initial Measurement                       | N/A                                   | 113.31                      | 114.97                 | <b>1.66</b>                  |
|                           |            | 1.66" Product bailer                      | 1.45                                  | 113.45                      | 113.82                 | 0.37                         |
|                           |            | 2" Soakease (3 socks)                     | 0.31                                  | 113.50                      | 113.69                 | 0.19                         |
|                           |            | Initial 2" SoakEase Recovery <sup>C</sup> | 0.17                                  | 113.55                      | 113.84                 | 0.29                         |
|                           |            | 1.66" Product bailer                      | 0.02                                  | NM                          | NM                     | NM                           |
|                           |            | 2" Soakease (3 socks)                     | 0.23                                  | 113.56                      | 113.64                 | 0.08                         |
|                           |            | 1.66" Product bailer                      | 0.33                                  | NM                          | NM                     | NM                           |
|                           |            | 2" Soakease (3 socks)                     | 0.17                                  | NM                          | NM                     | NM                           |
|                           |            | Initial Measurement                       | N/A                                   | 113.52                      | 113.77                 | 0.25                         |
|                           |            | 1.66" Product bailer                      | 0.13                                  | NM                          | NM                     | NM                           |
|                           |            | 2" Soakease (3 socks)                     | 0.11                                  | 113.53                      | 113.64                 | 0.11                         |
|                           |            | Initial Measurement                       | N/A                                   | 113.31                      | 113.59                 | 0.28                         |
|                           |            | 1.66" Product bailer                      | 0.26                                  | NM                          | NM                     | NM                           |
|                           |            | 2" Soakease (3 socks)                     | 0.25                                  | 113.34                      | 113.45                 | 0.11                         |
|                           |            | Initial Measurement                       | N/A                                   | 113.29                      | 113.99                 | 0.70                         |
|                           |            | 1.66" Product bailer                      | 0.20                                  | NM                          | NM                     | NM                           |
|                           |            | 2" Soakease (8 socks)                     | 0.96                                  | 113.28                      | 113.41                 | 0.13                         |
|                           |            | Initial Measurement                       | N/A                                   | 113.22                      | 113.90                 | 0.68                         |
|                           |            | 1.66" Product bailer                      | 0.26                                  | NM                          | NM                     | NM                           |
|                           |            | 2" Soakease (10 socks)                    | 0.78                                  | 113.30                      | 113.39                 | 0.09                         |
|                           |            | Initial Measurement                       | N/A                                   | 113.10                      | 113.31                 | 0.21                         |
|                           |            | 1.66" Product bailer                      | 0.06                                  | NM                          | NM                     | NM                           |
|                           |            | 2" Soakease (3 socks)                     | 0.12                                  | 113.14                      | 113.15                 | 0.01                         |
|                           |            | Initial Measurement                       | N/A                                   | 112.82                      | 113.14                 | 0.32                         |
|                           |            | 2" Soakease (2 socks)                     | 0.20                                  | 112.88                      | 112.90                 | 0.02                         |
|                           | 5/24/2019  | Initial Measurement                       | N/A <sup>B</sup>                      | 110.55                      | 110.80                 | <b>0.25</b>                  |
|                           | 5/31/2019  | Initial Measurement                       | N/A                                   | 110.45                      | 110.68                 | 0.23                         |
|                           |            | 2" Pig (5 socks)                          | 0.50                                  | ND                          | 110.49                 | 0.00                         |
|                           | 6/14/2019  | Initial Measurement                       | N/A                                   | 110.55                      | 110.67                 | 0.12                         |
|                           |            | 2" Pig (4 socks)                          | 0.26                                  | 110.56                      | 110.57                 | 0.01                         |
|                           | 6/28/2019  | Initial Measurement                       | N/A                                   | 110.77                      | 110.94                 | 0.17                         |
|                           |            | 2" Soakease (5 socks)                     | 0.53                                  | ND                          | 110.70                 | 0.00                         |
|                           | 7/12/2019  | Initial Measurement                       | N/A                                   | 110.79                      | 110.95                 | 0.16                         |
|                           |            | 2" Soakease (5 socks)                     | 0.38                                  | ND                          | 110.82                 | 0.00                         |
|                           | 7/31/2019  | Initial Measurement                       | N/A                                   | 110.94                      | 111.10                 | 0.16                         |
|                           |            | 2" Soakease (4 socks)                     | 0.38                                  | ND                          | 110.95                 | 0.00                         |
|                           | 8/9/2019   | Initial Measurement                       | N/A                                   | 111.04                      | 111.20                 | 0.16                         |
|                           |            | 2" Soakease (3 socks)                     | 0.33                                  | ND                          | 111.07                 | 0.00                         |
|                           | 8/30/2019  | Initial Measurement                       | N/A                                   | 111.19                      | 111.35                 | 0.16                         |
|                           |            | 2" Soakease (3 socks)                     | 0.25                                  | ND                          | 111.20                 | 0.00                         |
|                           | 9/13/2019  | Initial Measurement                       | N/A                                   | 110.98                      | 111.10                 | 0.12                         |
|                           |            | 2" Soakease (2 socks)                     | 0.25                                  | ND                          | 111.03                 | 0.00                         |
|                           | 9/27/2019  | Initial Measurement                       | N/A                                   | 111.30                      | 111.50                 | 0.20                         |
|                           |            | 2" Soakease (2 socks)                     | 0.19                                  | ND                          | 111.33                 | 0.00                         |
|                           | 10/14/2019 | Initial Measurement                       | N/A                                   | 110.93                      | 111.00                 | 0.07                         |
|                           |            | 2" Soakease (2 socks)                     | 0.08                                  | ND                          | 110.94                 | 0.00                         |
|                           | 10/30/2019 | Initial Measurement                       | N/A                                   | 110.77                      | 110.81                 | 0.04                         |
|                           |            | 2" Soakease (2 socks)                     | 0.06                                  | ND                          | 110.77                 | 0.00                         |
|                           | 7/1/2020   | Well Thawing Trip                         | N/A <sup>B</sup>                      | NM <sup>B</sup>             | NM <sup>B</sup>        | NM <sup>B</sup>              |
|                           | 7/29/2020  | Initial Measurement                       | N/A                                   | 104.91                      | 105.52                 | <b>0.61</b>                  |
|                           |            | 2" Soakease (5 socks)                     | 1.09                                  | 104.98                      | 105.00                 | 0.02                         |
|                           | 8/11/2020  | Initial Measurement                       | N/A                                   | 104.58                      | 104.88                 | 0.30                         |
|                           |            | 2" Soakease (4 socks)                     | 0.59                                  | ND                          | 104.60                 | 0.00                         |
|                           | 8/24/2020  | Initial Measurement                       | N/A                                   | 104.04                      | 104.28                 | 0.24                         |
|                           |            | 2" Soakease (3 socks)                     | 0.44                                  | ND                          | 104.07                 | 0.00                         |
|                           | 9/15/2020  | Initial Measurement                       | N/A                                   | 103.55                      | 103.80                 | 0.25                         |
|                           |            | 2" Soakease (3 socks)                     | 0.53                                  | ND                          | 103.58                 | 0.00                         |
|                           | 9/29/2020  | Initial Measurement                       | N/A                                   | 103.91                      | 104.20                 | 0.29                         |
|                           |            | 2" Soakease (3 socks)                     | 0.38                                  | ND                          | 103.99                 | 0.00                         |
|                           | 10/14/2020 | Initial Measurement                       | N/A                                   | 103.68                      | 103.97                 | 0.29                         |
|                           |            | 2" Soakease (3 socks)                     | 0.40                                  | ND                          | 103.78                 | 0.00                         |
|                           | 11/11/2020 | Initial Measurement                       | N/A                                   | 103.00                      | 103.15                 | 0.15                         |
|                           |            | 2" Soakease (3 socks)                     | 0.50                                  | ND                          | 103.03                 | 0.00                         |

**Table 2B - 1998-2020 MW-1 Summary of Product Gauging and Recovery  
PS09 Mainline Turbine Sump**

| Year                         | Date                   | Description | Amount Recovered (gal), Unadjusted | Depth to Product (ft)                       | Depth to Water (ft) | Product Thickness (ft) |
|------------------------------|------------------------|-------------|------------------------------------|---|---------------------|------------------------|
| Product Recovery Summary     | Year                   |             | Gallons                            | Percent of 2011-2020 Total Recovered Volume |                     |                        |
|                              | 1998-2010 <sup>A</sup> |             | N/A                                | N/A   |                     |                        |
|                              | 2011                   |             | 0.8                                | 2%  |                     |                        |
|                              | 2012                   |             | 1.7                                | 5%  |                     |                        |
|                              | 2013                   |             | 8.2                                | 25%   |                     |                        |
|                              | 2014                   |             | 4.7                                | 15%   |                     |                        |
|                              | 2015                   |             | 1.3                                | 4%  |                     |                        |
|                              | 2016                   |             | 2.6                                | 8%  |                     |                        |
|                              | 2017                   |             | 4.2                                | 13%   |                     |                        |
|                              | 2018                   |             | 6.0                                | 19%   |                     |                        |
| 2019 (Adjusted) <sup>E</sup> |                        |             | 1.2                                | 4%  |                     |                        |
| 2020 (Adjusted) <sup>E</sup> |                        |             | 1.4                                | 4%  |                     |                        |
| Total 2011 to 2020           |                        |             | 32.1                               | --  |                     |                        |

**Notes:**

**0.01**

BOLD values indicate the maximum measured product thickness for each year.

**A** Product recovery cannisters were operated for recovery of product during this period, recovery volumes were not noted for individual wells.

**B** Ice plug above product depth prevented canister from being deployed for recovery.

**C** Product measurement following removal of sorbent sock.

**D** Product measurements during baildown test.

**E** Total volume of recovered product from visual assessment of 2" Soak Ease™ 2" socks is corrected using correction factor of 0.36 based on results of wringing 2" socks in 2020.

Pig ® 2" down-well socks absorb approximately 0.13 gallon of product each

Soak Ease™ 2" down-well socks absorb approximately 0.25 gallon of product each

Soak Ease™ 4" down-well socks absorb approximately 0.75 gallon of product each

**Abbreviations:**

|     |         |     |                |    |            |
|-----|---------|-----|----------------|----|------------|
| ft  | feet    | N/A | not applicable | ND | non detect |
| gal | gallons | NM  | not measured   |    |            |

**Table 3A - 2020 Correction Factor Calculations for MW-5 Sorbent Sock Product Recovery  
PS09 Mainline Turbine Sump**

| Date      | Number of 4" Sorbents Used <sup>A</sup> | Volume of Product Wrung (gal) <sup>B</sup> | Mass of Residual Product in Socks (grams) <sup>C</sup> | Volume of Product Recovered (gal) <sup>D</sup> | Volume of Water Recovered (gal) <sup>E</sup> | Fraction of Total Volume as Product <sup>F</sup> | Recovered Product Estimate Using % Saturation and Vendor Capacity (gal) <sup>G</sup> | Visually Observed Saturation Estimate vs Measured Product <sup>H</sup> |
|-----------|---|--|--|--|--|--|--|--|
| 8/11/2020 | 2.17                                    | 0.33                                       | 1595   | 0.84   | 0.34   | 71%  | 1.63   | 193%   |
| 8/24/2020 | 2.30                                    | 0.40                                       | 1452   | 0.87   | 0.28   | 76%  | 1.73   | 199%   |
| 9/15/2020 | 2.00                                    | 0.54                                       | 1577   | 1.04   | 0.32   | 77%  | 1.50   | 144%   |
| 9/29/2020 | 1.53                                    | 0.39                                       | 1515   | 0.87   | 0.45   | 66%  | 1.15   | 132%   |

Correction factor to yield actual product recovered from visually estimated results: 0.60

Corrected gallons of product recovered from MW-5 in 2019: 13

**Notes:**

- A The number of sorbents presented is a sum of all partial sorbents used during each product recovery visit.
- B The volume of product wrung from sorbents is a sum of all sorbents used during each product recovery visit. The volume of wrung product was measured using a graduated cylinder.
- C The mass of residual product was obtained by weighing a wrung sorbent and then subtracting the weight of an unused sorbent.
- D The volume of product recovered is a sum of product wrung from the sock and product remaining in the sorbent. The mass of liquid retained by the sorbent was assumed to consist entirely of product.
- E The volume of water recovered was measured using a graduated cylinder.
- F The fraction of total volume recovered as product is the percent of total fluid recovered by sorbents that consists of product.
- G The recovered product estimate is vendor-specified product capacity in gallons per inch of sorbent that is saturated.
- H This measurement is a calculation of how much a visual estimate of product recovered overestimates actual (measured) recovered product.

**Table 3B - 1998-2020 MW-5 Summary of Product Gauging and Recovery  
PS09 Mainline Turbine Sump**

| Year   | Date       | Description           | Amount Recovered (gal) | Depth to Product (ft) | Depth to Water (ft) | Product Thickness (ft) |
|--|------------|-----------------------|------------------------|-----------------------|---------------------|------------------------|
| 1998 to 2010 Maximum Apparent Thickness <sup>A</sup> | 12/1/1998  | --                    | --                     | 110.83                | 111.62              | 0.79                   |
|  | 9/16/1999  | --                    | --                     | 111.51                | 113.56              | 2.05                   |
|  | 12/29/2000 | --                    | --                     | 100.90                | 109.20              | 8.30                   |
|  | 7/19/2001  | --                    | --                     | 101.30                | 109.30              | 8.00                   |
|  | 6/10/2002  | --                    | --                     | 108.53                | 109.60              | 1.07                   |
|  | 6/3/2003   | --                    | --                     | 110.10                | 110.85              | 0.75                   |
|  | 6/2/2004   | --                    | --                     | 110.94                | 111.72              | 0.78                   |
|  | 6/20/2005  | --                    | --                     | 109.40                | 111.65              | 2.25                   |
|  | 5/31/2006  | --                    | --                     | 110.64                | 111.15              | 0.51                   |
|  | 5/30/2007  | --                    | --                     | 108.72                | 108.94              | 0.22                   |
|  | 7/1/2008   | --                    | --                     | 110.27                | 110.49              | 0.22                   |
|  | 7/18/2009  | --                    | --                     | 104.42                | 108.25              | 3.83                   |
|  | 10/12/2010 | --                    | --                     | 107.12                | 108.12              | 1.00                   |
|  | 6/24/2011  | Frozen                | N/A                    | NM                    | NM                  | N/A                    |
|  | 7/18/2011  | Frozen                | N/A                    | NM                    | NM                  | N/A                    |
|  | 7/26/2011  | Frozen                | N/A                    | NM                    | NM                  | N/A                    |
| 2011   | 8/8/2011   | Initial Measurement   | N/A                    | 108.61                | 108.8               | 0.19                   |
|  |            | Deployment 1          | 0.75                   | 108.63                | 108.75              | 0.12                   |
|  |            | Deployment 2          | 0.75                   | 108.64                | 108.7               | 0.06                   |
|  |            | Deployment 3          | 0.25                   | 108.63                | 108.66              | 0.03                   |
|  | 8/22/2011  | Initial Measurement   | N/A                    | 108.42                | 108.6               | 0.18                   |
|  |            | Deployment 1          | 0.33                   | 108.45                | 108.53              | 0.08                   |
|  |            | Deployment 2          | 0.33                   | 108.46                | 108.49              | 0.03                   |
|  | 9/9/2011   | Initial Measurement   | 1                      | 108.8                 | 108.86              | 0.06                   |
|  |            | Deployment 1          | 0.75                   | 108.84                | 108.87              | 0.03                   |
|  | 9/19/2011  | Initial Measurement   | 1                      | 108.54                | 108.61              | 0.07                   |
|  |            | Deployment 1          | 0.5                    | 108.55                | 108.56              | 0.01                   |
|  | 10/6/2011  | Initial Measurement   | sheen                  | 108.44                | 108.46              | 0.02                   |
|  | 10/26/2011 | Initial Measurement   | 1                      | 108.4                 | 108.43              | 0.03                   |
| 2012   | 6/5/2012   | Initial Measurement   | N/A <sup>B</sup>       | 109.68                | 110.05              | 0.37                   |
|  | 6/20/2012  | Initial Measurement   | N/A <sup>B</sup>       | 109.77                | 110.13              | 0.36                   |
|  | 7/5/2012   | Initial Measurement   | N/A <sup>B</sup>       | 109.70                | 110.04              | 0.34                   |
|  | 7/20/2012  | Initial Measurement   | N/A                    | 109.67                | 109.94              | 0.27                   |
|  |            | Deployment 1          | 0.00                   | 109.63                | 109.93              | 0.3                    |
|  | 8/3/2012   | Initial Measurement   | 0.00                   | 109.71                | 110.03              | 0.32                   |
|  |            | Deployment 1          | 0.00                   | 109.71                | 110.03              | 0.32                   |
|  | 8/9/2012   | Initial Measurement   | 1                      | 109.68                | 109.92              | 0.24                   |
|  |            | Deployment 1          | 0.00                   | 109.68                | 109.92              | 0.24                   |
|  | 8/23/2012  | Initial Measurement   | 1                      | 109.51                | 109.71              | 0.2                    |
|  | 9/6/2012   | Initial Measurement   | 1                      | 109.67                | 109.87              | 0.2                    |
|  | 9/21/2012  | Initial Measurement   | 1                      | 109.59                | 109.79              | 0.2                    |
|  | 10/8/2012  | Initial Measurement   | 1                      | 109.66                | 109.85              | 0.19                   |
|  | 10/22/2012 | Initial Measurement   | 1                      | 109.75                | 109.85              | 0.1                    |
| 2013   | 6/19/2013  | Initial Measurement   | N/A <sup>B</sup>       | 111.00                | 111.66              | 0.66                   |
|  | 6/27/2013  | Initial Measurement   | N/A <sup>B</sup>       | 111.10                | 112.07              | 0.97                   |
|  | 7/19/2013  | Frozen                | N/A <sup>B</sup>       | NM                    | NM                  | NM                     |
|  | 8/2/2013   | Initial Measurement   | N/A                    | 111.22                | 111.94              | 0.72                   |
|  | 8/14/2013  | Initial Measurement   | 0.03                   | 111.52                | 112.38              | 0.86                   |
|  | 8/29/2013  | Initial Measurement   | 0.01                   | 111.62                | 112.50              | 0.88                   |
|  |            | 2" SoakEase (3 socks) | 0.75                   | 111.50                | 112.21              | 0.71                   |
|  |            | 2" SoakEase (4 socks) | 0.75                   | 111.55                | 112.02              | 0.47                   |
|  |            | 2" SoakEase (3 socks) | 0.75                   | 111.56                | 111.95              | 0.39                   |
|  |            | 2" SoakEase (3 socks) | 0.75                   | 111.58                | 111.85              | 0.27                   |
|  |            | 2" SoakEase (3 socks) | 0.75                   | 111.62                | 111.77              | 0.15                   |
|  |            | 2" SoakEase (2 socks) | 0.50                   | 111.60                | 111.71              | 0.11                   |
|  | 9/12/2013  | Initial Measurement   | 0.50                   | 111.55                | 112.48              | 0.93                   |
|  |            | 2" SoakEase (3 socks) | 0.75                   | 111.57                | 112.33              | 0.76                   |
|  |            | 2" SoakEase (3 socks) | 0.75                   | 111.61                | 112.18              | 0.57                   |
|  |            | 2" SoakEase (3 socks) | 0.75                   | 111.64                | 112.01              | 0.37                   |
|  |            | 2" SoakEase (3 socks) | 0.75                   | 111.67                | 111.85              | 0.18                   |
|  |            | 2" SoakEase (3 socks) | 0.75                   | 111.72                | 111.81              | 0.09                   |
|  | 10/4/2013  | Initial Measurement   | 0.75                   | 111.61                | 112.50              | 0.89                   |
|  |            | 4" SoakEase (2 socks) | 1.50                   | 111.76                | 112.22              | 0.46                   |
|  |            | 4" SoakEase (2 socks) | 1.50                   | 111.80                | 112.11              | 0.31                   |
|  |            | 4" SoakEase (2 socks) | 1.50                   | 111.75                | 112.00              | 0.25                   |
|  |            | 4" SoakEase (2 socks) | 1.50                   | 111.80                | 111.90              | 0.10                   |
|  |            | 4" SoakEase (2 socks) | 1.50                   | 111.90                | 111.92              | 0.02                   |
|  | 10/17/2013 | Initial Measurement   | 0.75                   | 111.66                | 112.40              | 0.74                   |
|  |            | 4" SoakEase (1 sock)  | 0.75                   | 111.74                | 112.36              | 0.62                   |
|  |            | 2" SoakEase (3 socks) | 0.75                   | 111.79                | 112.19              | 0.40                   |
|  |            | 2" SoakEase (3 socks) | 0.75                   | 111.85                | 112.05              | 0.20                   |
|  |            | 2" SoakEase (2 socks) | 0.34                   | 111.80                | 111.95              | 0.15                   |

**Table 3B - 1998-2020 MW-5 Summary of Product Gauging and Recovery  
PS09 Mainline Turbine Sump**

| Year | Date                       | Description                               | Amount Recovered<br>(gal) | Depth to<br>Product<br>(ft) | Depth to Water<br>(ft) | Product<br>Thickness<br>(ft) |
|------|----------------------------|---|---------------------------|-----------------------------|------------------------|------------------------------|
| 2014 | 5/8/2014                   | Initial Measurement                       | N/A                       | 112.32                      | 114.30                 | 1.98                         |
|      | 6/3/2014                   | Initial Measurement                       | N/A <sup>B</sup>          | 112.48                      | 114.43                 | 1.95                         |
|      | 6/4/2014 <sup>D</sup>      | Initial Measurement                       | N/A                       | 112.48                      | 114.45                 | 1.97                         |
|      |                            | Submersible pump                          | 3.49                      | 112.41                      | 113.35                 | 0.94                         |
|      | 6/5/2014 <sup>D</sup>      | 4" SoakEase (1 sock)                      | 0.26                      | 112.90                      | 112.92                 | 0.02                         |
|      |                            | Final Measurement                         | N/A                       | 112.59                      | 113.24                 | 0.65                         |
|      | 7/9/2014                   | Initial Measurement                       | N/A <sup>B</sup>          | 112.61                      | 114.67                 | <b>2.06</b>                  |
|      |                            | Initial Measurement                       | N/A                       | 112.64                      | 114.21                 | 1.57                         |
|      |                            | 3.33" Product bailer                      | 2.25                      | 112.95                      | 113.52                 | 0.57                         |
|      | 7/28/2014                  | 4" SoakEase (1 sock)                      | 0.66                      | 112.92                      | 113.04                 | 0.12                         |
|      |                            | Initial Measurement                       | N/A                       | 112.59                      | 113.87                 | 1.28                         |
|      | 8/7/2014                   | 3.33" Product bailer                      | 1.90                      | 112.75                      | 113.04                 | 0.29                         |
|      |                            | Initial Measurement                       | N/A                       | 112.52                      | 113.02                 | 0.50                         |
|      | 8/26/2014                  | 3.33" Product bailer                      | 1.00                      | 112.64                      | 112.77                 | 0.13                         |
|      |                            | 4" SoakEase (1 sock)                      | 0.10                      | 112.68                      | 112.70                 | 0.02                         |
|      | 9/23/2014                  | Initial Measurement                       | N/A                       | 112.29                      | 112.54                 | 0.25                         |
|      |                            | 3.33" Product bailer                      | 0.33                      | 112.34                      | 112.46                 | 0.12                         |
|      |                            | 4" SoakEase (1 sock)                      | 0.07                      | 112.43                      | 112.44                 | 0.01                         |
|      | 10/9/2014                  | Initial Measurement                       | N/A                       | 111.94                      | 112.23                 | 0.29                         |
|      |                            | 3.33" Product bailer                      | 0.5                       | 112.00                      | 112.05                 | 0.05                         |
|      |                            | Initial Measurement                       | N/A                       | 112.01                      | 112.01                 | 0.00                         |
|      |                            | 4" SoakEase (2 socks)                     | 0.25                      | 112.02                      | 112.03                 | 0.01                         |
| 2015 | 6/4/2015                   | Initial Measurement                       | N/A <sup>B</sup>          | 111.04                      | 111.70                 | 0.66                         |
|      | 7/3/2015                   | Initial Measurement                       | N/A <sup>B</sup>          | N/A                         | N/A                    | N/A                          |
|      |                            | 4" SoakEase (1 sock)                      | 0.16 <sup>C</sup>         | N/A                         | N/A                    | N/A                          |
|      | 7/14/2015                  | Initial Measurement                       | N/A                       | 111.31                      | 112.44                 | 1.13                         |
|      |                            | Initial Measurement                       | N/A                       | 111.41                      | 112.31                 | 0.90                         |
|      | 7/21/2015 <sup>D</sup>     | Submersible pump                          | 1.9                       | 111.62                      | 111.70                 | 0.08                         |
|      |                            | Initial Measurement <sup>C</sup>          | 0.5                       | 111.60                      | 112.82                 | 1.22                         |
|      | 8/12/2015                  | 3.33" Product bailer                      | 2.1                       | 111.71                      | 112.05                 | 0.34                         |
|      |                            | Initial Measurement <sup>C</sup>          | 0.5                       | 111.57                      | 112.68                 | 1.11                         |
|      | 8/25/2015                  | 3.33" Product bailer, 4" SoakEase         | 2.0                       | 111.21                      | 111.84                 | 0.63                         |
|      |                            | Initial Measurement <sup>C</sup>          | N/A                       | 111.58                      | 112.98                 | <b>1.40</b>                  |
|      | 9/13/2015                  | 3.33" Product bailer, 4" SoakEase         | 2.1                       | 111.90                      | 112.33                 | 0.43                         |
|      |                            | Initial Measurement <sup>C</sup>          | N/A                       | 111.79                      | 113.22                 | 1.43                         |
|      | 10/1/2015                  | 3.33" Product bailer, 4" SoakEase         | 4.25                      | 112.11                      | 112.18                 | 0.07                         |
| 2016 | 6/1/2016                   | Initial Measurement                       | N/A                       | 111.46                      | 112.20                 | 0.74                         |
|      | 6/2/2016                   | Initial Measurement                       | N/A                       | 111.50                      | 112.43                 | 0.93                         |
|      | 6/7/2016                   | Initial Measurement                       | N/A                       | 111.58                      | 113.06                 | <b>1.48</b>                  |
|      | 6/11/2016                  | Initial Measurement                       | N/A                       | 111.60                      | 112.85                 | 1.25                         |
|      |                            | 1.66" bailer, 4" SoakEase (3 socks)       | 1.60                      | NM                          | NM                     | NM                           |
|      | 6/27/2016                  | Initial 4" SoakEase Recovery <sup>C</sup> | 0.26                      | 111.81                      | 113.05                 | 1.24                         |
|      |                            | 4" SoakEase (6 sock)                      | 2.00                      | not recorded                | not recorded           | 0.23                         |
|      | 7/10/2016                  | Initial 4" SoakEase Recovery <sup>C</sup> | 0.26                      | 111.89                      | 113.00                 | 1.11                         |
|      |                            | 3.33" bailer, 4" SoakEase                 | 2.05                      | 111.97                      | 112.38                 | 0.41                         |
|      | 8/5/2016                   | Initial 4" SoakEase Recovery <sup>C</sup> | 0.26                      | 111.97                      | 112.93                 | 0.96                         |
|      |                            | 3.33" bailer                              | 2.20                      | NM                          | NM                     | NM                           |
|      | 8/18/2016                  | 4" SoakEase (1 sock)                      | 0.40                      | 111.26                      | 111.49                 | 0.23                         |
|      |                            | Initial 4" SoakEase Recovery <sup>C</sup> | 0.40                      | 112.12                      | 113.09                 | 0.97                         |
|      | 9/5/2016                   | 3.33" bailer                              | 1.50                      | NM                          | NM                     | NM                           |
|      |                            | 4" SoakEase (1 sock)                      | 0.40                      | 112.28                      | 112.48                 | 0.20                         |
|      | 9/16/2016                  | Initial 4" SoakEase Recovery <sup>C</sup> | 0.40                      | 112.10                      | 112.62                 | 0.52                         |
|      |                            | 4" SoakEase (1 sock)                      | 0.40                      | NM                          | NM                     | NM                           |
|      | 10/3/2016                  | 3.33" bailer                              | 0.31                      | 112.14                      | 112.33                 | 0.19                         |
|      |                            | Initial Measurement                       | N/A                       | 112.09                      | 112.49                 | 0.40                         |
|      | 10/13/2016                 | 3.33" bailer                              | 0.50                      | 112.14                      | 112.36                 | 0.22                         |
|      |                            | 4" SoakEase (2 socks)                     | 0.30                      | 112.22                      | 112.25                 | 0.03                         |
| 2017 | 5/25/2017                  | Initial Measurement                       | N/A <sup>B</sup>          | NM                          | NM                     | NM                           |
|      |                            | Frozen                                    | N/A <sup>B</sup>          | NM                          | NM                     | NM                           |
|      | 5/26/2017                  | Initial Measurement                       | N/A                       | 112.72                      | 113.83                 | 1.11                         |
|      |                            | Initial Measurement                       | N/A                       | 112.70                      | 114.03                 | <b>1.33</b>                  |
|      | 6/5/2017<br>to<br>6/7/2017 | 3.33" bailer                              | 1.18                      | 112.70                      | 114.02                 | 1.32                         |
|      |                            | 4" SoakEase (1 sock)                      | 0.25                      | NM                          | NM                     | NM                           |
|      | 6/27/2017                  | 4" SoakEase (1 sock)                      | 0.25                      | 112.89                      | 113.22                 | 0.33                         |
|      |                            | Initial 4" SoakEase Recovery <sup>C</sup> | 0.3                       | 112.84                      | 113.75                 | 0.91                         |
|      | 7/24/2017                  | 3.33" bailer                              | 1.58                      | NM                          | NM                     | NM                           |
|      |                            | 4" SoakEase (2 socks)                     | 1.50                      | 113.08                      | 113.12                 | 0.04                         |
|      | 4" SoakEase (1 sock)       | Initial 4" SoakEase Recovery <sup>C</sup> | 0.6                       | 113.05                      | 113.86                 | 0.81                         |
|      |                            | 3.33" bailer                              | 0.53                      | NM                          | NM                     | NM                           |

**Table 3B - 1998-2020 MW-5 Summary of Product Gauging and Recovery  
PS09 Mainline Turbine Sump**

| Year              | Date                 | Description                               | Amount Recovered (gal) | Depth to Product (ft) | Depth to Water (ft) | Product Thickness (ft) |
|-------------------|----------------------|---|------------------------|-----------------------|---------------------|------------------------|
| 2017<br>Continued | 9/14/2017            | Initial 4" SoakEase Recovery <sup>C</sup> | 0.38                   | 113.12                | 114.02              | 0.90                   |
|                   |                      | 3.33" bailer                              | 0.80                   | NM                    | NM                  | NM                     |
|                   |                      | 4" SoakEase (1 sock)                      | 0.56                   | 113.24                | 113.29              | 0.05                   |
|                   | 9/28/2017            | Initial Measurement                       | N/A                    | 112.93                | 113.38              | 0.45                   |
|                   |                      | 3.33" bailer                              | 0.53                   | NM                    | NM                  | NM                     |
|                   |                      | 4" SoakEase (2 socks)                     | 0.50                   | 113.10                | 113.18              | 0.08                   |
|                   | 10/19/2017           | Initial 4" SoakEase Recovery <sup>C</sup> | 0.25                   | 113.05                | 113.48              | 0.43                   |
|                   |                      | 3.33" bailer                              | 0.38                   | 113.12                | 113.25              | 0.13                   |
|                   |                      | 4" SoakEase (1 sock)                      | 0.06                   | 113.14                | 113.16              | 0.02                   |
| 2018              | 6/2/2018 to 6/4/2018 | Initial Measurement                       | N/A                    | 113.28                | 114.80              | 1.52                   |
|                   |                      | 3.33" bailer                              | 1.45                   | NM                    | NM                  | NM                     |
|                   |                      | 4" SoakEase (3 socks)                     | 0.56                   | 113.44                | 113.74              | 0.30                   |
|                   | 6/8/2018             | Initial 2" SoakEase Recovery <sup>C</sup> | 0.38                   | 113.49                | 114.29              | 0.80                   |
|                   |                      | 3.33" bailer                              | 0.50                   | NM                    | NM                  | NM                     |
|                   |                      | 4" SoakEase (6 socks)                     | 0.93                   | 113.55                | 113.63              | 0.08                   |
|                   | 6/25/2018            | 3.33" bailer                              | 1.00                   | NM                    | NM                  | NM                     |
|                   |                      | 4" SoakEase (4 socks)                     | 0.50                   | NM                    | NM                  | NM                     |
|                   |                      | Initial Measurement                       | N/A                    | 113.33                | 114.15              | 0.82                   |
|                   | 7/19/2018            | 3.33" bailer                              | 0.86                   | NM                    | NM                  | NM                     |
|                   |                      | 4" SoakEase (4 socks)                     | 0.68                   | 113.55                | 113.63              | 0.08                   |
|                   |                      | Initial Measurement                       | N/A                    | 113.16                | 113.67              | 0.51                   |
|                   | 8/2/2018             | 3.33" bailer                              | 0.80                   | NM                    | NM                  | NM                     |
|                   |                      | 4" SoakEase (2 socks)                     | 0.30                   | 113.32                | 113.42              | 0.10                   |
|                   |                      | Initial Measurement                       | N/A                    | 113.21                | 113.71              | 0.50                   |
|                   | 8/16/2018            | 3.33" bailer                              | 0.53                   | NM                    | NM                  | NM                     |
|                   |                      | 4" SoakEase (4 socks)                     | 0.55                   | 113.36                | 113.42              | 0.06                   |
|                   |                      | Initial Measurement                       | N/A                    | 113.11                | 113.55              | 0.44                   |
|                   | 9/4/2018             | 3.33" bailer                              | 0.46                   | NM                    | NM                  | NM                     |
|                   |                      | 4" SoakEase (4 socks)                     | 0.65                   | 113.26                | 113.32              | 0.06                   |
|                   |                      | Initial Measurement                       | N/A                    | 112.98                | 113.16              | 0.18                   |
|                   | 9/18/2018            | 3.33" bailer                              | 0.25                   | NM                    | NM                  | NM                     |
|                   |                      | 4" SoakEase (2 socks)                     | 0.25                   | 113.04                | 113.05              | 0.01                   |
|                   |                      | Initial Measurement                       | N/A                    | 112.72                | 112.85              | 0.13                   |
| 2019              | 10/1/2018            | 4" SoakEase (2 socks)                     | 0.38                   | 112.78                | 112.79              | 0.01                   |
|                   |                      | Initial Measurement                       | N/A <sup>B</sup>       | 110.45                | 110.78              | 0.33                   |
|                   |                      | Well Thawing Trip                         | N/A <sup>B</sup>       | NM <sup>B</sup>       | NM <sup>B</sup>     | NM <sup>B</sup>        |
|                   | 5/24/2019            | Initial Measurement                       | N/A                    | 110.46                | 110.78              | 0.32                   |
|                   |                      | 4" SoakEase (4 socks)                     | 1.62                   | 110.48                | 110.62              | 0.14                   |
|                   |                      | Initial Measurement                       | N/A                    | 110.65                | 111.03              | 0.38                   |
|                   | 6/28/2019            | 4" SoakEase (8 socks)                     | 4.56                   | 110.74                | 110.82              | 0.08                   |
|                   |                      | Initial Measurement                       | N/A                    | 110.64                | 111.02              | 0.38                   |
|                   |                      | 4" SoakEase (7 socks)                     | 3.75                   | 110.78                | 110.81              | 0.03                   |
|                   | 7/12/2019            | Initial Measurement                       | N/A                    | 110.80                | 111.20              | 0.40                   |
|                   |                      | 4" SoakEase (7 socks)                     | 2.85                   | 110.95                | 110.96              | 0.01                   |
|                   |                      | Initial Measurement                       | N/A                    | 110.92                | 111.28              | 0.36                   |
|                   | 7/31/2019            | 4" SoakEase (6 socks)                     | 2.63                   | 111.11                | 111.16              | 0.05                   |
|                   |                      | Initial Measurement                       | N/A                    | 111.07                | 111.47              | 0.40                   |
|                   |                      | 4" SoakEase (6 socks)                     | 2.91                   | 111.20                | 111.24              | 0.04                   |
|                   | 8/9/2019             | Initial Measurement                       | N/A                    | 110.89                | 111.15              | 0.26                   |
|                   |                      | 4" SoakEase (3 socks)                     | 0.94                   | ND                    | 111.04              | 0.00                   |
|                   |                      | Initial Measurement                       | N/A                    | 111.15                | 111.60              | 0.45                   |
|                   | 9/27/2019            | 4" SoakEase (4 socks)                     | 2.03                   | 111.39                | 111.42              | 0.03                   |
|                   |                      | Initial Measurement                       | N/A                    | 110.84                | 111.03              | 0.19                   |
|                   |                      | 4" SoakEase (2 socks)                     | 0.71                   | 110.90                | 110.93              | 0.03                   |
| 2020              | 10/14/2009           | Initial Measurement                       | N/A                    | 110.62                | 110.75              | 0.13                   |
|                   |                      | 4" SoakEase (2 socks)                     | 0.56                   | ND                    | 110.66              | 0.00                   |
|                   |                      | Initial Measurement                       | N/A <sup>B</sup>       | 106.24                | 106.54              | 0.30                   |
|                   | 7/1/2020             | Well Thawing Trip                         | N/A <sup>B</sup>       | NM <sup>B</sup>       | NM <sup>B</sup>     | NM <sup>B</sup>        |
|                   |                      | Initial Measurement                       | N/A                    | 104.70                | 106.02              | 1.32                   |
|                   |                      | 4" SoakEase (6 socks)                     | 3.69                   | 104.91                | 104.92              | 0.01                   |
|                   | 7/29/2020            | Initial Measurement                       | N/A                    | 104.42                | 105.10              | 0.68                   |
|                   |                      | 4" SoakEase (3 socks)                     | 1.69                   | 104.53                | 104.54              | 0.01                   |
|                   |                      | Initial Measurement                       | N/A                    | 103.98                | 104.51              | 0.53                   |
|                   | 8/11/2020            | 4" SoakEase (3 socks)                     | 1.73                   | ND                    | 104.03              | 0.00                   |
|                   |                      | Initial Measurement                       | N/A                    | 103.34                | 104.29              | 0.95                   |
|                   |                      | 4" SoakEase (3 socks)                     | 1.50                   | 103.50                | 103.51              | 0.01                   |
|                   | 8/24/2020            | Initial Measurement                       | N/A                    | 103.83                | 104.41              | 0.58                   |
|                   |                      | 4" SoakEase (3 socks)                     | 1.60                   | ND                    | 103.97              | 0.00                   |
|                   |                      | Initial Measurement                       | N/A                    | 103.59                | 104.23              | 0.64                   |
|                   | 9/15/2020            | 4" SoakEase (3 socks)                     | 1.20                   | ND                    | 103.74              | 0.00                   |
|                   |                      | Initial Measurement                       | N/A                    | 102.47                | 103.93              | 1.46                   |
|                   |                      | 4" SoakEase (3 socks)                     | 1.88                   | ND                    | 102.73              | 0.00                   |

**Table 3B - 1998-2020 MW-5 Summary of Product Gauging and Recovery  
PS09 Mainline Turbine Sump**

| Year                     | Date                         | Description | Amount Recovered<br>(gal) | Depth to<br>Product<br>(ft)                 | Depth to Water<br>(ft) | Product<br>Thickness<br>(ft) |
|--------------------------|------------------------------|-------------|---------------------------|---|------------------------|------------------------------|
| Product Recovery Summary | Year                         |             | Gallons                   | Percent of 2011-2020 Total Recovered Volume |                        |                              |
|                          | 1998-2010 <sup>D</sup>       |             | N/A                       |   | N/A                    |                              |
|                          | 2011                         |             | 6.7                       |   | 6%                     |                              |
|                          | 2012                         |             | 6.0                       |   | 5%                     |                              |
|                          | 2013                         |             | 20.1                      |   | 18%                    |                              |
|                          | 2014                         |             | 10.8                      |   | 9%                     |                              |
|                          | 2015                         |             | 13.5                      |   | 12%                    |                              |
|                          | 2016                         |             | 14.6                      |   | 13%                    |                              |
|                          | 2017                         |             | 10.1                      |   | 9%                     |                              |
|                          | 2018                         |             | 11.0                      |   | 10%                    |                              |
|                          | 2019 (Adjusted) <sup>E</sup> |             | 13.5                      |   | 12%                    |                              |
|                          | 2020 (Adjusted) <sup>E</sup> |             | 8.0                       |   | 7%                     |                              |
| Total 2011 to 2020       |                              |             | 114.3                     |   | --                     |                              |

**Notes:**

- 0.01** BOLD values indicate the maximum measured product thickness for each year.
- A Product recovery cannisters were operated for recovery of product during this period, recovery volumes were not noted for individual wells.
- B Ice plug above product depth prevented canister or sock from being deployed for recovery.
- C Product measurement following removal of sorbent sock.
- D Product measurements during baildown test.
- E Total volume of recovered product from visual assessment of 4" Soak Ease™ socks is corrected using correction factor of 0.60 based on results of wringing 4" socks in 2020.

**Notes Continued:**

Soak Ease™ 2" down-well socks absorb approximately 0.25 gallon of product each

Soak Ease™ 4" down-well socks absorb approximately 0.75 gallon of product each

**Abbreviations:**

|     |         |     |                |    |            |
|-----|---------|-----|----------------|----|------------|
| ft  | feet    | N/A | not applicable | ND | non detect |
| gal | gallons | NM  | not measured   |    |            |

**Table 4 - 1998-2020 Annual Product Recovery Summary  
PS09 Mainline Turbine Sump**

| Product Recovery Summary | Period                 | Volume Recovered (gallons) | Percent of Total Recovered Volume <sup>A</sup> (gallons) | Number of Recovery Events | Recovery Volume per Event (gallons) |
|--------------------------|------------------------|----------------------------|--|---------------------------|-------------------------------------|
|                          |                        |                            |  |                           |                                     |
|                          | 1998-2010 <sup>B</sup> | 1,085                      | 87%  | N/A                       | N/A                                 |
|                          | 2011 <sup>C</sup>      | 11.2                       | 0.9%   | 4                         | 2.8                                 |
|                          | 2012 <sup>D</sup>      | 8.7                        | 0.7%   | 4                         | 2.2                                 |
|                          | 2013 <sup>D</sup>      | 30.8                       | 2.5%   | 4                         | 7.7                                 |
|                          | 2014 <sup>E</sup>      | 16.2                       | 1.3%   | 7                         | 2.3                                 |
|                          | 2015 <sup>E</sup>      | 15.1                       | 1.2%   | 5                         | 3.0                                 |
|                          | 2016 <sup>E</sup>      | 17.8                       | 1.4%   | 10                        | 1.8                                 |
|                          | 2017 <sup>E</sup>      | 14.3                       | 1.2%   | 6                         | 2.4                                 |
|                          | 2018 <sup>E</sup>      | 17.0                       | 1.4%   | 9                         | 1.9                                 |
|                          | 2019 <sup>F, H</sup>   | 14.7                       | 1.2%   | 11                        | 1.3                                 |
|                          | 2020 <sup>H</sup>      | 9.4                        | 0.8%   | 7                         | 1.3                                 |
|                          | <b>Grand Total</b>     | <b>1,240</b>               | <b>100%</b>  | <b>67</b>                 | --                                  |

**Notes:**

- Not applicable
- A Total annual recovery for Monitoring wells MW-1, MW-5, and MW-6 1998 though 2016, monitoring wells MW-1 and MW-5 in 2017.
- B Product recovery using oil skimmer pump and pneumatically-driven pumps for 1998 through 2009 and product bailers in 2010.
- C Product Recovery using Keck® Product Recovery Canisters as an active recovery system
- D Product Recovery using bailers and Keck® Product Recovery Canisters as passive recovery systems
- E Product recovery using Durham Geo Slope Indicator SoakEase™ sorbent socks and product-selective bailers.
- F Product recovery using Durham Geo Slope Indicator SoakEase™ and Pig® sorbent socks.
- G Total volume of recovered product is considered biased-high due to separate-phase water recovered with product using 4-inch sorbent socks.
- H Product recovery using Durham Geo Slope Indicator SoakEase™ sorbent socks. Product and water cut determined through wringing socks and measuring water/product volumes and weighing residual product in wrung socks. Correction factor applied to visually-

## ATTACHMENT 1

**Field Logbook**

**=DEFYING=**  
**MOTHER NATURE®**  
SINCE 1916



All components of  
this product are recyclable

**Rite in the Rain**  
A patented, environmentally  
responsible, all-weather writing paper  
that sheds water and enables you to  
write anywhere, in any weather.

Using a pencil or all-weather pen,  
*Rite in the Rain* ensures that your  
notes survive the rigors of the field,  
regardless of the conditions.

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JL DARLING LLC  
Tacoma, WA 98424-1017 USA  
[www.RiteintheRain.com](http://www.RiteintheRain.com)

Item No. 391FX  
ISBN: 978-1-60134-188-4

Made in the USA  
US Pat No. 6,863,940

7

19

6 32281 03919 8

A standard linear barcode representing the item number 6 32281 03919 8.

PSOA PRODUCT REPORT  
105.01298.20025



*Rite in the Rain*.

ALL-WEATHER  
**JOURNAL**

Nº 391FX



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RYAN COURSEY-NILLES

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452-2276 (DIRECT) CARL

Project PS09 PRODUCT RECOVERY  
105.0288.20025



## CONTENTS

PAGE

REFERENCE

DATE

2 840N C-60 6/30/2020 ASOA PRODUCT RECOVERY  
1230 PICKUP MATERIALS FOR PRODUCT  
RECOVERY.

1300 TEST GENERATOR FOR WELL THAWING  
RUNS WELL, BUT WILL NEED OIL CHANGE

*PCO*

1500 PACK PRODUCT RECOVERY ITEMS  
FOR 1<sup>ST</sup> VISIT 7/1/20.



7/1/20 Ryan GW ASOA PROD. RECOVERY SURVEY<sup>3</sup>  
0800 FINAL PREP FOR SITE VISIT. HEAD TO DIFF.  
0900 AT DIFF. TRUCK LOADED.

TRAVEL NOTICE TO ASOA SECURITY.

8 → GET SCREENING @ DIFF FOR  
SILVERSTAR. ADDITIONAL SCREEN  
REQUIRED EVERY 2 WEEKS!

0930 DEPART FOR ASOA.

1155 ARRIVE AT ASOA. PERMIT FROM JOES.

1200 SET UP GENERATOR TO PUMP HEAT TRACE.

→ ICE PLUGS @ ~12 FT BESIDE TIC

1440 STILL THAWING WELLS

MW-5 ICE @ 9.08 FT BTIC - SMALL HOLE IS  
FORMING AROUND HEAT TRACE NOT ENOUGH TO  
GET PROBE THROUGH

MW-1 ICE @ 8.4 FT BTIC - HEAT TRACE  
WARM BUT NO HOLES SEEN.

1600 MW-5 HAS HOLE LARGE ENOUGH TO PASS PRODUCT  
INTERFACE PROBE.

DTP: 106.24 ft

DTW: 106.54 ft

PRODUCT THICKNESS 0.30 ft

1645 PACKING UP SITE. + CLOSE PERMIT

1700 HEAD BACK TO FAIRBANKS.

1905 BACK TO FAIRBANKS. CHECK OUT w/ ASOA SECURITY

1930 DEMOED. DAYEND

*Ryan in the Rain*

7/21/2020 FLYING W - RCG PRODUCT REC  
0730 IMP FLSR + TOUGH MANAGEMENT  
FOR ADSC  
0800 CHECK PERMIT.

CALL DI C FOR NOTIFY OF TRIP DOWN.  
0830 TAILGATE MEETING.

PUT TOGETHER GEAR KIT  
0915 FINISHED GEARING UP.  
CALLED RCG SECURITY.

DRIVE TO PSCA.  
1144 AT PSCA, CHECK IN ON PERMIT.

1138 BOTH WELLS OPEN, NO ICE PLUGS OBSERVED.

|                                  | DTP(ft) | DTW(ft) | PRODUCT THICKNESS (ft) |
|----------------------------------|---------|---------|------------------------|
| 4" <sup>mm</sup> / <sub>-5</sub> | 104.70  | 106.02  | 1.32 ft                |
| 2" <sup>mm</sup> / <sub>-1</sub> | 104.91  | 109.32  | 0.41 ft                |

1150 DEPLOYING SOCKS.

RECOVERED SOCKS

MW-5: 1+1+1+1 +  $\frac{2}{3}$  +  $\frac{1}{4}$

MW-1: 1+1+1+ $\frac{3}{8}$  +  $\frac{1}{2}$  w/H2O

|      | DTP (ft) | DTW (ft) | PRODUCT THICKNESS (ft) |
|------|----------|----------|------------------------|
| MW-1 | 104.98   | 105.00   | 0.02 ft                |
| MW-5 | 104.91   | 104.92   | 0.01 ft                |

1342 CLEANED UP, 2 BACS OF OIL WASTE TO  
DISPOSAL CONTAINER

1400 HEAD BACK TO FBX

1600 BACK TO FBX, RETURN CLEANED W/SECURITY

1630 GEAR STORED. DAYEND.

8/11/2020 PSCA PRODUCT RECOVERY DAY 5  
PENICWT CALL 28 <sup>in</sup>  
0700 START GEAR RECOVERY DAY. JACK UP.  
0745 CALL TO BL40 REQUESTS TO CHECK IN ON WORK FOR TODAY.  
0800 PERMITS SUBMITTED ONLINE  
0935 LEAVE FOR PSCA AFTER NOTICE TO SECURITY  
1143 AT PSCA, UNUSUAL APPROVAL FOR WORK GIVEN BY BL40.  
1200 CHECK PRODUCT THICKNESSES.

| DTP(ft)     | DTW(ft) | THICKNESS (ft) |
|-------------|---------|----------------|
| MW-1 104.58 | 104.88  | 0.30 ft        |
| MW-5 104.42 | 105.10  | 0.68 ft        |

- 1205 DEPLOYING SOCKS  
0 BUCKET WT: 774g  
OCK SOCK WEIGHTS

$$- 192g, 200g, 145g, 219g, 198g \Rightarrow \text{AVG} = 199.2g \text{ per sock}$$

MW-5

SOCK 1: 199.2g  $\rightarrow$  838g <sup>638.8g</sup> AFTER CLEANING

SOCK 2:  $\rightarrow$  713g <sup>513.6g</sup>

SOCK 3: 8  $\rightarrow$  642g <sup>442.8g</sup>

1315 CHECK PRODUCT THICKNESSES

| DTP  | DTW    | THICKNESS |
|------|--------|-----------|
| MW-1 | 104.60 | -         |
| MW-5 | 104.53 | 0.01 ft   |

MW-1 SOCKS: 1 +  $\frac{3}{4}$  +  $\frac{1}{2}$  +  $\frac{1}{8}$

MW-5 SOCKS: 1 +  $\frac{3}{4}$  +  $\frac{1}{2}$

Ron in the Rain

6 8/11/20 R. COOPER-WILLIS SESSION FOR ~55F  
 1330 MEASURE OUT LIQUIDS PRODUCT  
 1: 1.01L TOTAL, 0.120L H<sub>2</sub>O, 0.890L  
 2: 0.98L TOTAL, 0.680L H<sub>2</sub>O, 0.300L  
 3: 0.650L TOTAL 0.480L H<sub>2</sub>O, -0.700L  
                                   0.070L

1.26L PRODUCT  $\neq$  1.28L H<sub>2</sub>O

154L LIQUID REMOVED FROM SINKS

155.4g PRODUCT IN SOCKS  $\approx$  0.638L NEW  
                                   ~ 2.492L product

1355 CLEANING UP.

1411 DISPOSE OF OILY WASTE IN OILY WASTE  
 CONEX.

1419 CLOSE OUT PERMIT WITH RAD VERBALLY  
 HEAD BACK TO FAIRBANK

1630 BACK TO AIRSANKS. CHECK OUT w/ SEARLS

1710 BACK TO OFFICE / FINISH DEMOS.  
 (Q4 ENDS)

8/21/2008 Ryan Gu, Carl B. RECENT ~55F  
 ORG MEET AT OFFICE FOR FINAL CEAR  
 PBO.

DECONTAMINATE + VEHICLE INSPECTION

0810 TRUCK NOTICE INSECURE.

HEAD TO BSCN.

1025 ARRIVE AT BSCN. VERBAL PERMIT  
 APPROVAL BY PI.

1030 INITIAL PRODUCT THICKNESS GAUGING.

| WELL | DTP(FT) | DTW(FT) | PERC. THICKNESS(FT) |
|------|---------|---------|---------------------|
|------|---------|---------|---------------------|

|      |        |        |      |
|------|--------|--------|------|
| MW-1 | 104.04 | 104.28 | 0.24 |
|------|--------|--------|------|

|      |        |        |      |
|------|--------|--------|------|
| MW-5 | 105.89 | 104.51 | 0.42 |
|------|--------|--------|------|

1040 DEPLOYING SOCKS. 2"  $\frac{2}{28}$   $\frac{2}{28}$   $\frac{2}{28}$  unused  
 RECOVERED SOCKS

MW-1: 1 +  $\frac{1}{2}$  +  $\frac{1}{2}$

MW-5:  $\frac{1}{2}$  +  $\frac{1}{2}$  +  $\frac{1}{2}$

RECOVERED QUANTITIES: 199.2g socks

MW-1 SOCK WEIGHTS AFTER WRINKLING

#1: 8415g, #2: 765g, #3: 440g

H<sub>2</sub>O/producing 460mL, 440mL/500mL, 520/70mL

| WELL | DTP | DTW     | Product Thickness(FT) |
|------|-----|---------|-----------------------|
| MW-5 | N/A | 104.03' | 0                     |
| MW-1 | N/A | 104.07  | 0                     |

8/24/20

1200 H<sub>2</sub>O / PRODUCT SPLIT FOR MW-1  
MW-1 SOIL WEIGHTS AFTER WRINGER  
#1: 295g, #2: 233g, #3: 144g

MW-1  
H<sub>2</sub>O / PRODUCT: 550mL / 90mL

1250 CLEANUP WORK AREA

1300 CLOSE PERMIT. HEAD BACK TO  
FAIRBANKS.

1500 BACK TO FAIRBANKS.

9/15/2020 ALT Sock, Clutch, socks  
Other parts Chiropractic equipment &  
Review Bed Bug Stockers  
0735 leaving Fairbanks Corpse 9.  
0945 Arrive PSOQ & Stage gear &  
complete work permit.

1015 Partial Product Thickness Recovery  
Well DT<sub>P</sub> DT<sub>W</sub> Product Thickness (fr)

|      | 103.55 | 103.80 | 0.25' |
|------|--------|--------|-------|
| MW-5 | 103.34 | 104.29 | 0.95' |

Deploying Socks in MW-5 + MW-1  
MW-5 Recovery = 1 + 2/3 + 1/3 + 0  
MW-1 Recovery = 1 + 1 + 1/8

4" Sock weight = 199.2g  
2" Sock weight = 99.3g

MW-5 Soil strengths after wringing:  
#1=640g, #2=593g, #3=638, #4=498

MW-1 Soil weights after wringing:  
#1=334g, #2=324g, #3=239g

H<sub>2</sub>O / product splits from MW-5:

|      | DT <sub>P</sub> | DT <sub>W</sub> | PT             |
|------|-----------------|-----------------|----------------|
| MW-5 | 103.51          | 103.52          | ~0.01 after #3 |

Rain in the Rain.

10 9/15/2020

## Final DTP/DTW

|      | DTP    | DTW    | Column        |
|------|--------|--------|---------------|
| MW-5 | 103.50 | 103.51 | 0.01' clarity |
| MW-1 | MAT    | 103.58 | \$            |

Recovered fluids from MW-5:1-Liter Product + ~~200 ml H<sub>2</sub>O~~ + 80 ml product200 ml H<sub>2</sub>O + 80 ml product790 ml H<sub>2</sub>O + 220 ml product215 ml H<sub>2</sub>O + 15 ml product

Density of product = 826 g/lavml

Recovered fluids from MW-1:800 ml H<sub>2</sub>O + 60 ml product

13W oily waste disposed, product quarter placed in sump, work permit closed

1330 leaving PSO 90 for geowit closure.

1530 putting away field gear &amp; return 1/2 truck to NER

16W time @ place after cleanup  
disrupt at airport

Estab.

9/29/20 MLT Sump Portion cloudy ~38°F 11

0700 Pick up Evan at FAI airport

0730 Dead truck battery. Called maintenance for a jump start.

0830 Leaving Fairbanks for PSO9

1045 Arrive at PSO9. Obtain verbal permit verification from Lead OP

| Well | DTP(f) | DTW(f) | Product Thickness |
|------|--------|--------|-------------------|
| MW-1 | 103.91 | 104.20 | 0.29'             |
| MW5  | 103.83 | 104.41 | 0.58'             |

## Replaying Scales:

MW-1: 1 + 1/3 + 1/5

MW-5: 8 + 1 + 1/3

MW-5 scale weights after running:

#1 = 612g; #2 = 781g; #3 = 720g

## Final DTP/DTW:

| Well | DTP    | DTW    | Product Column |
|------|--------|--------|----------------|
| MW-5 | 103.97 | 103.97 | \$             |
| MW-1 | 103.99 | 103.99 | \$             |

12 9/29/20

MW-1 Sack weights after wringing

#1 = 385g

#2 = 296g

#3 = 222g

Recovered fluids from MW-5

960mL product + 50mL H<sub>2</sub>O

900mL product + 600mL H<sub>2</sub>O

90mL product + 910mL H<sub>2</sub>O

10mL product + 140mL H<sub>2</sub>O

Recovered fluids from MW-7

30mL product + 630mL H<sub>2</sub>O

1340-Dispose of oily waste (product & water) in Samp.

1405-Close permit out. Depart from PSO9 enroute to Fairbanks.

1600-Unpack equipment at storage unit. Drop off trash at DTF

10/14/2020 Cert. Board, PSO9, cloudy, calm 25°F

0800 Arrive C1511E + Do load clearance for travel, load gear at storage unit. Check in with PSO9 control for permit issuance and PSO9 securing for travel northbound.

0900 Leave Fairbanks for PSO9

1100 Arrive C1509 and call to nearby control room about workhibition and deer signs from movements at MW-1 and MW-5.

Initial Product/water measurements:

| well | DTP    | DW     | Product Thickness |
|------|--------|--------|-------------------|
| MW-5 | 103.59 | 104.23 | 0.64"             |
| MW-5 | 103.69 | 103.97 | 0.29"             |

Sack Recovery Summary:

Well Sacks used (except 1 product)

MW-1 1 + 1/2 + trace 1/10

MW-5 1 + 1/2 + 1/10

\* = 2" sack case sack

\*\* = 4" sack case sack

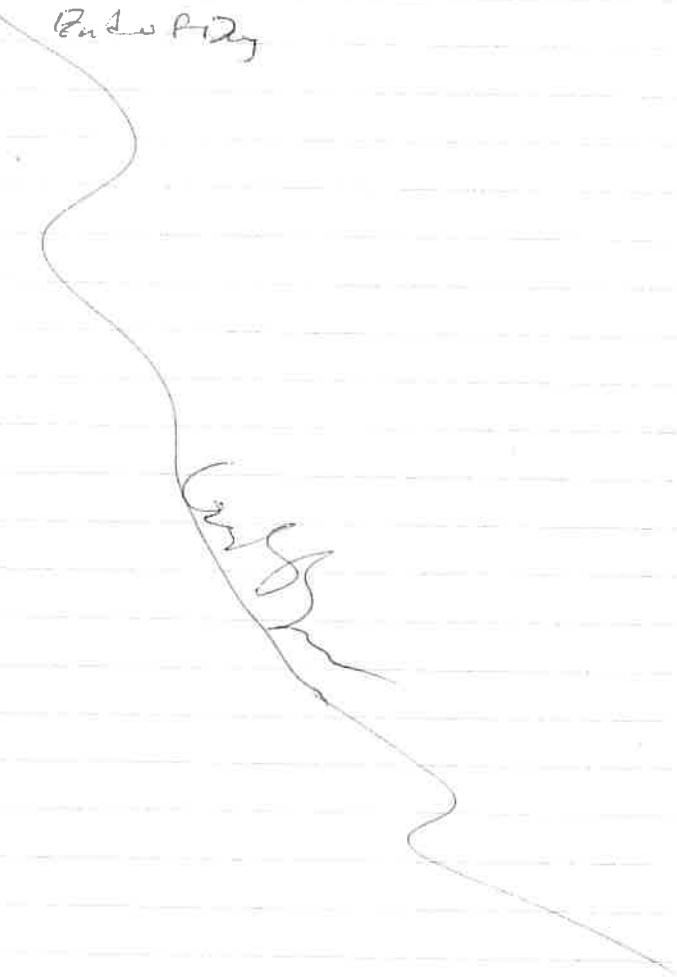
- Vehicle needs: winter tires changed over, passenger side running light replaced, and exhaust fluid reservoir filled.

Final Product/water measurements:

| well | DTP    | DW | Product Thickness |
|------|--------|----|-------------------|
| MW-1 | 103.78 | WT | 0"                |
| MW-5 | 103.71 | WT | 0"                |

~ 57  
OS

Rain on Rain

- 14 10/11/2020 PSO9 MLT Sump Carl Bass  
 1335 Area cleaned up. Could not run  
 4" casing in MW-5 using running tool.  
 Disposing of city waste. Close Permit  
 1350 Leaving PSO9 for Riverbank,  
 1600 Arrived Riverbank  
 End P12
- 

- 14 11/11/2020 Carl Bass MLT Sump P12cc. 24-16 Wind 15  
 0700 Checking in w/ security and  
 getting placed badge soon.  
 Shoveling snow from truck, loading  
 field gear and College PSO9 security  
 Fire garage light illuminated &  
 truck has ASRE to check. The  
 Mechanic adjusted fire sensors to  
 correct sides & clear alarm.  
 1115 Arrive C psog & activate  
 permit w/ control room. Clear  
 snow from Monuments & tested  
 wells. Cut 2.5" from top of  
 Casing (4" Schedule 80 pvc) at  
 MW-5.

Invert Product measurements:

| Well | DTP    | DTW    | Packer Column |
|------|--------|--------|---------------|
| MW-1 | 103.00 | 103.15 | 0.15"         |
| MW-5 | 102.47 | 103.93 | 1.46"         |

Sock Recovery Summary:

| Well   | Socks used (if scaled w/packer) |
|--------|---------------------------------|
| MW-1*  | 1 + 1/2 + 1/2 + trace           |
| MW-5** | 1 + 3/4 + 3/4 + trace           |

\* ~ 2" Scale case Socks

\*\* ~ 4" Scale case Socks

<sup>16</sup> 11/4/2020 PSUG MTR sampling River Roray.

River Product Measurements

| WAN | DTP | DTW | Product cm |
|-----|-----|-----|------------|
|-----|-----|-----|------------|

NW-1 NW- 103.03 Ø'

NW-5 NW- 102.73 Ø'

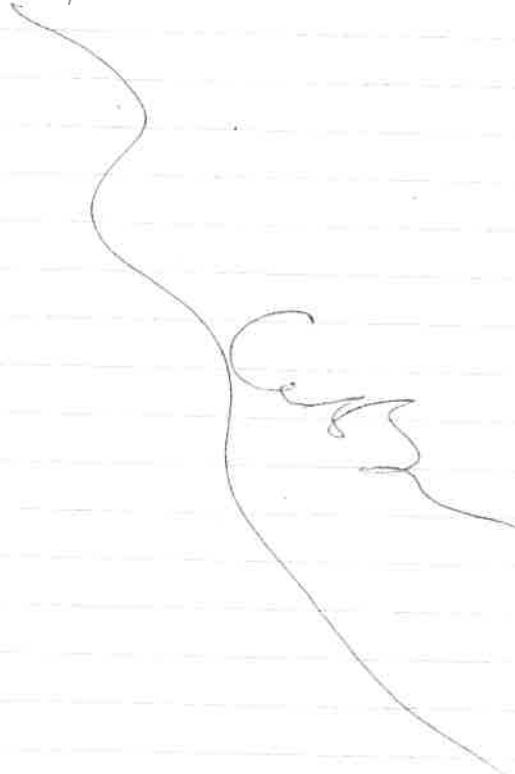
1330 - Placing waste trace in wells.

1350 - Disposing waste & closing points

4W - leaving PSUG

1620 - Arrive in Stowbank 800.890 m

1700 - Impacts over Culture, Fishery,



## ATTACHMENT 2

### Photograph Log

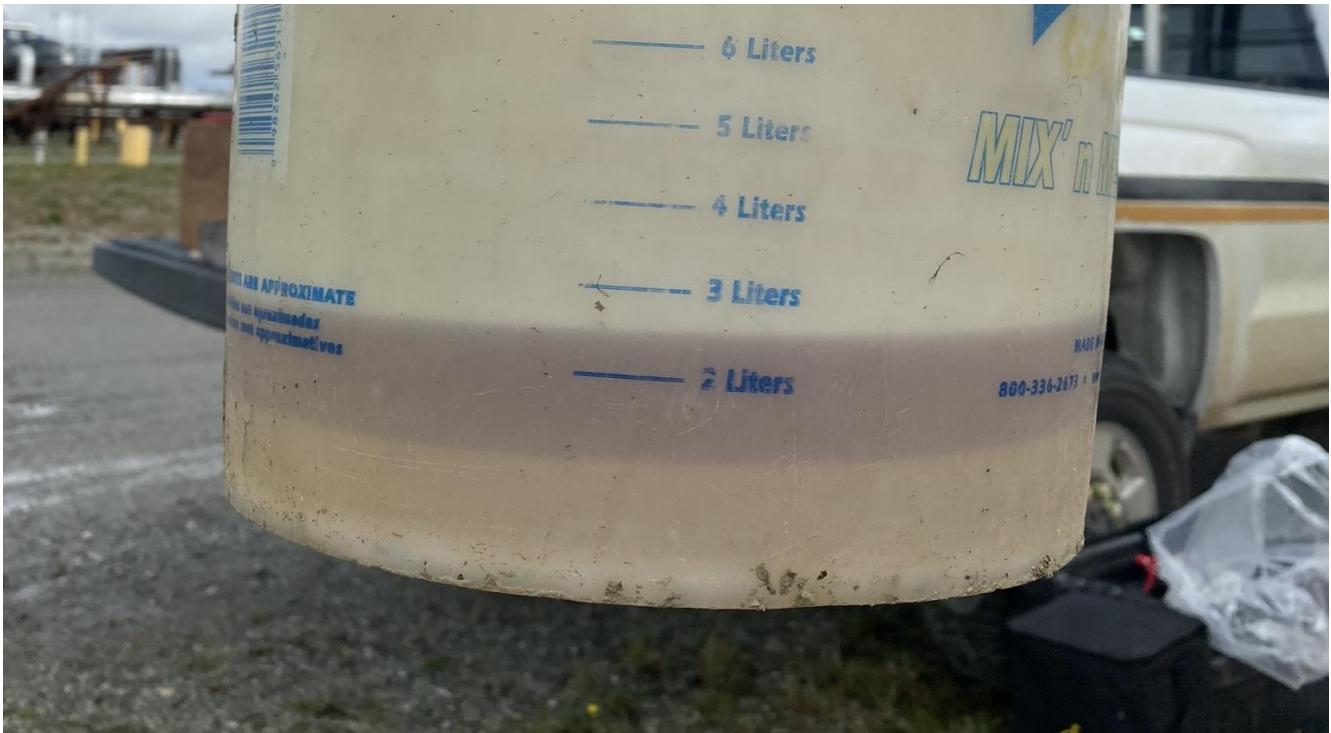


**Photo 1:** Draining excess product from a 4" sorbent before running the sorbent through a wringer (September 15, 2020).



**Photo 2:** Running a 4" sorbent through the wringer. Product was collected in the red bin, and then emptied into a bucket prior to measurement in a graduated cylinder (August 11, 2020).

|   |   |
|---|---|
| <br>PHOTOGRAPH LOG<br>2020 | 2020 Product Recovery Report<br>Pump Station 9 Mainline Turbine Sump<br><br>Job No: 105.01288.20025 |
|---|---|



**Photo 3:** Lower density free product floating on groundwater, both recovered in sorbents (August 11, 2020).



**Photo 4:** Two different photos showing variations in the ratio of product to water recovered by sorbents during different recovery events (left photo August 11, 2020; right photo August 25, 2020).

|   |   |
|---|---|
| <br>PHOTOGRAPH LOG<br>2020 | 2020 Product Recovery Report<br>Pump Station 9 Mainline Turbine Sump<br><br>Job No: 105.01288.20025 |
|---|---|