



Stantec Consulting Services Inc.
725 East Fireweed Lane Suite 200, Anchorage AK 99503-2245

December 12, 2019

Stantec Project Number: 185751218

Anastasia Duarte, REHS/RS
Retail Environmental Remediation Administrator, Pacific Division
Speedway LLC
3450 South 344th Way, Suite 135
Auburn, Washington 98001-5931

**Reference: Corrective Action Work Plan for 2020
Speedway Store 5313/IFC (former Tesoro 2 Go Mart 101/IFC)**
3569 South Cushman Street, Fairbanks, Alaska
ADEC Facility ID #2960; ADEC File #100.26.022

Dear Ms. Duarte:

This letter presents the 2020 (calendar year) Corrective Action Work Plan for the investigation and/or remediation of contamination at the above referenced site. This 2020 Corrective Action Work Plan will be presented at the annual Alaska Department of Environmental Conservation (ADEC)/Speedway (former Tesoro Alaska Company) work session scheduled for December 12, 2019, at the Anchorage office of Stantec Consulting Services Inc. (Stantec).

The following section provides a summary of the work plan tasks that were completed under the ADEC-approved 2019 Corrective Action Work Plan. Attached to this letter are the project site plans and analytical test results for samples collected during the completion of the tasks. The site plans and test results will be presented during the December 2019 work session.

2019 Work Plan Tasks

- Task 1 – Groundwater Monitoring
This task was completed in accordance with the approved 2019 work plan.
- Task 2 – Remediation System Operation and Maintenance (O&M)
This task was completed in accordance with the approved 2019 work plan.
- Task 3 – Clear On-site Brush and Vegetation
This task was completed in accordance with the approved 2019 work plan.
- Task 4 – Install Two Monitoring Wells Located North/Northwest of Recovery Well CRW-2
This task was completed in accordance with the approved 2019 work plan.

The following section presents the proposed tasks for the 2020 Corrective Action Work Plan. The scope of these tasks is based on the results and findings of the monitoring and remediation completed to date at this site.



Reference: 2020 Work Plan for Speedway Store 5313/IFC (Formerly Tesoro 2Go Mart 101/IFC)

Proposed Work Plan Tasks for 2020

- Task 1 – Groundwater Monitoring

Annual monitoring of the groundwater wells and free product recovery well will be conducted. Sampling locations and analyses for the monitoring wells are shown on the 2020 Work Plan Schedule below.

2020 Work Plan Schedule for Speedway Store 5313 (former T2GM 101/IFC)

Work Plan Task		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Task 1	Monitoring Wells: MW-3, MW-4, MW-8, MW-14, MW-17, MW-19-1, MW-19-2, and Aeration Treatment Tank (influent [CRW-2] and effluent discharged to the Drainfield)			D, G, V, P, I	
Task 2	Remediation System Operation and Maintenance	✓	✓	✓	✓
Task 3	Install and Operate 6-inch diameter Free Product Well downgradient of the existing Groundwater Interceptor Trench located North of Recovery Well WRW.	✓	✓	✓	✓

Key:

AK – Alaska Test Method

D – Diesel range organics by AK102.

EPA – U.S. Environmental Protection Agency

G – Gasoline range organics by AK101.

I – Indicators, parameters tested include: dissolved oxygen, specific conductance, oxygen-reduction potential, pH, and temperature.

O&M – Operation and Maintenance

P – Polynuclear aromatic hydrocarbons (PAHs), i.e., semi-volatile organic compounds, by EPA Test Method 8270D Selective Ion Monitoring.

V – Volatile organic compounds by EPA Test Method 8260C.

- Task 2 – Remediation System O&M

Perform quarterly maintenance of the free product recovery pump and groundwater drawdown pump system in free product Recovery Well CRW-2. The O&M work will include quarterly maintenance of the free product recovery pump, groundwater drawdown pump, aeration blower, and the iMonnit[®] sensors. The groundwater extracted with the well’s drawdown pump is operated on a continuous basis and discharges to the on-site 2 compartment 1,500 gallon aeration tank that flows into the drainfield Infiltrator system for additional treatment. The free product recovered from CRW-2 will be collected



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Reference: 2020 Work Plan for Speedway Store 5313/IFC (Formerly Tesoro 2Go Mart 101/IFC)

and temporarily stored on-site in a double-walled drum that is equipped with an over-fill shut-off device. The volume of the stored free product will be measured and properly disposed of on an as needed basis.

- Task 3 – Install and Operate 6-inch diameter free product well downgradient of the existing Groundwater Interceptor Trench located North of Recovery Well WRW.

In consideration of the discovery of free product in the recently installed ground water monitor well MW 19-2, Stantec proposes to install and operate a 6-inch diameter free product recovery well to be located a few feet north of existing recovery well WRW but located on the north (downgradient) side of the existing groundwater interceptor trench. The existing WRW well is located in the interceptor trench and is no longer used for recovery of free product due to the absence of free product within the interceptor trench. The proposed new free product well will be constructed and operated similar to the operation of CRW-2. Stantec will prepare a detailed work plan for this proposed task and submit to ADEC for review and approval prior to implementation.

The Corrective Action Work Plan for the year 2020 will be implemented by Stantec on behalf of Speedway. Groundwater monitoring will be conducted to track migration and trends of contaminants that are present at the site. All sampling activities will be completed in accordance with ADEC's *Underground Storage Tanks Procedures Manual– Standard Sampling Procedures* (March 22, 2017). The methods that will be used for conducting a monitoring event, unless otherwise noted in the monitoring report, will include:

- The static water levels in the monitoring wells will be measured with respect to the top of each well casing. The elevation of the static water level will be based on an arbitrary datum established on-site during a vertical control survey that will be completed by Stantec on an annual basis. The survey will be performed during the summer after the seasonal frost layer thaws.
- The monitoring wells will be purged of a minimum of three well bore volumes prior to collecting the water samples. A new, disposable, Teflon® bailer will be used to sample each well. The first bail of water removed from each well will be examined for petroleum odor, sheen, and any other unique physical features.
- Water and vapor samples will be collected in laboratory-supplied sample containers. The samples will be delivered to an ADEC-approved laboratory in accordance with standard chain-of-custody procedures.
- Additional water samples will be collected from the monitoring wells after the well has been purged, as described above, and tested in the field for chemical and physical intrinsic parameters listed in the 2020 Work Plan Schedule shown above.



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Reference: 2020 Work Plan for Speedway Store 5313/IFC (Formerly Tesoro 2Go Mart 101/IFC)

If you have any questions or need additional information concerning this 2020 Corrective Action Work Plan, please contact us at (907) 248-8883.

Regards,

STANTEC CONSULTING SERVICES INC.

A handwritten signature in black ink, appearing to read "M. Zidek".

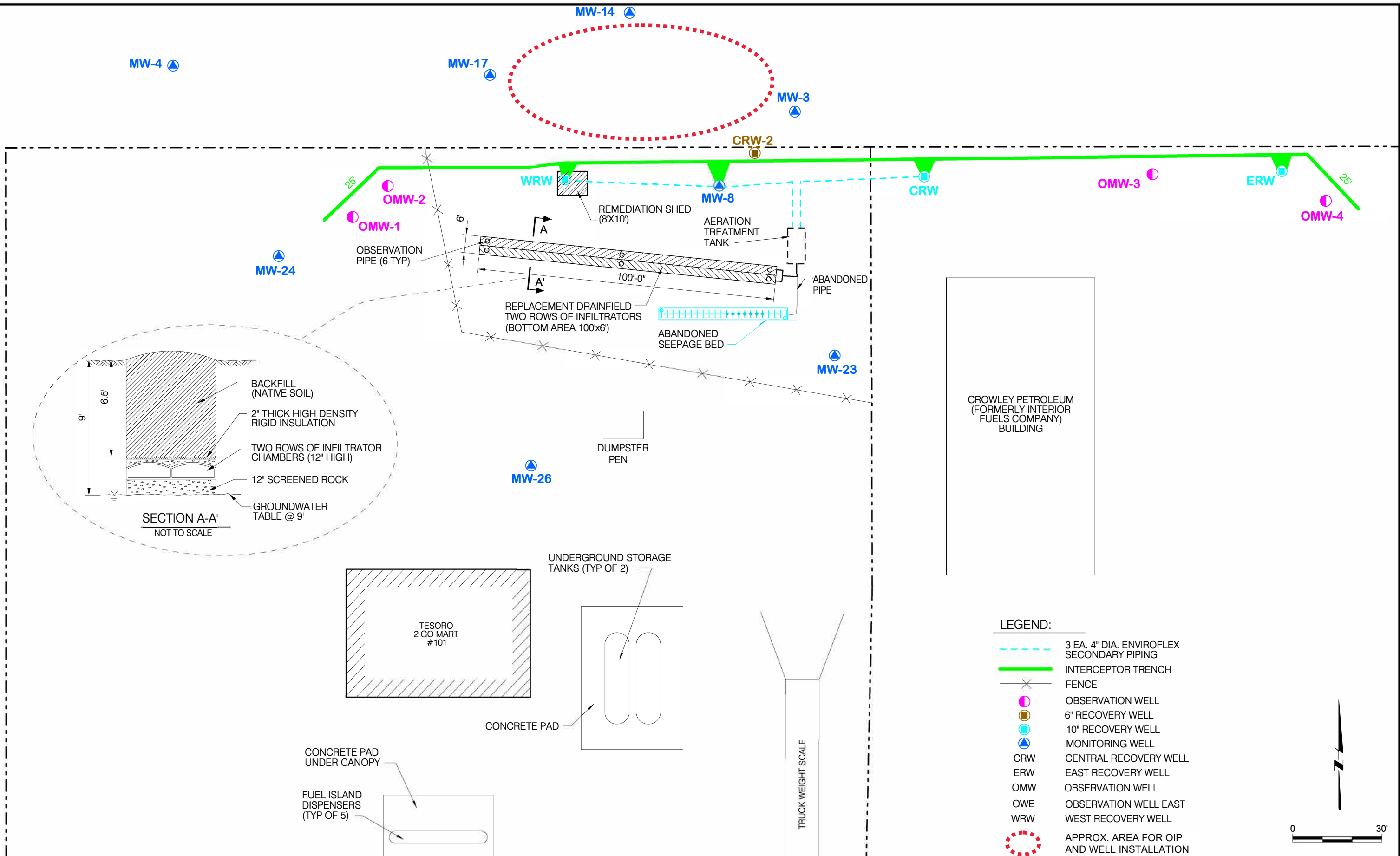
Michael A. Zidek, PMP
Project Manager

A handwritten signature in black ink, appearing to read "Bob E. Gilfilian".

Bob Gilfilian, P.E.
Project Technical Lead

Attachments: Site Plans
Analytical Test Results

FILE: C:\D\CAD\Proj\Tesoro\TGMart10\IFC_165750866\MoreEvent\2018\September 2018\Final\FG03 Remediation System Layout.dgn
 TIME: 05-OCT-2018 12:22



Appendix D
Tables of Historical Groundwater Monitoring Data

Monitoring Well MW-1

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
04-Nov-91	0.016	NS	NS	431.01	430.91	430.99
29-Jan-92	NS	NS	NS	432.03	430.34	431.69
09-Mar-92	NS	NS	NS	431.45	429.52	431.06
23-Apr-92	NS	NS	NS	431.65	427.8	430.88
19-May-92	NS	NS	NS	433.06	426.94	431.84
16-Jun-92	NS	NS	NS	433.68	429.84	432.91
09-Jul-92	NS	NS	NS	434.18	431.27	433.60
21-Jul-92	NS	NS	NS	436.78	433.57	436.14
28-Jul-92	NS	NS	NS	433.63	432.42	433.39
05-Aug-92	NS	NS	NS	433.55	432.5	433.34
11-Aug-92	NS	NS	NS	433.41	432.52	433.23
18-Aug-92	NS	NS	NS	433.22	431.29	432.83
07-Sep-93	NS	NS	NS	433.29	432.06	433.04
31-Mar-94	NS	NS	NS	430.60	429.76	430.43
12-Dec-94	NS	NS	NS	430.27	429.46	430.11
12-Mar-95	NS	NS	NS	430.72	429.43	430.46
12-Apr-95	NS	NS	NS	432.17	426.20	430.98
19-Jul-95	0.278	NS	NS	NA	432.84	NA
22-May-96	NS	NS	NS	NA	NM	NA
06-Nov-96	NS	NS	NS	NA	NM	NA
29-Apr-98	NS	NS	NS	NA	NM	NA
13-Oct-98	0.149	10	47.8	NA	431.47	NA
28-Jan-00	NS	NS	NS	429.52	427.88	429.19
10-Apr-00	NS	NS	NS	430.12	427.59	429.61
27-Jul-00	NS	NS	NS	435.46	433.88	435.14
08-Mar-01	NS	NS	NS	431.00	429.29	430.66
04-Jun-01	NS	NS	NS	435.42	435.26	435.39
30-Nov-01	NS	NS	NS	431.23	429.80	430.94
24-Apr-02	NS	NS	NS	NA	NM	NA
20-Aug-02	Well Destroyed					
GCL	0.0046	2.2	1.5	NA	NA	NA

Appendix D
Tables of Historical Groundwater Monitoring Data

Monitoring Well MW-2

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
04-Nov-91	U	NS	NS	NA	431.31	NA
03-Jan-92	NS	NS	NS	NA	431.28	NA
28-Jan-92	NS	NS	NS	NA	431.19	NA
09-Mar-92	NS	NS	NS	NA	431.04	NA
23-Apr-92	U	NS	NS	NA	430.86	NA
16-Jul-92	U	NS	NS	NA	433.32	NA
11-Aug-92	U	NS	NS	NA	433.17	NA
07-Oct-92	U	NS	NS	NA	431.68	NA
21-Dec-92	U	NS	NS	NA	430.64	NA
09-Mar-93	U	NS	NS	NA	431.00	NA
16-Jun-93	U	NS	NS	NA	432.59	NA
07-Sep-93	U	NS	NS	NA	432.58	NA
13-Dec-93	U	NS	NS	NA	431.79	NA
31-Mar-94	U	NS	NS	NA	430.87	NA
23-Sep-94	U	NS	NS	NA	432.13	NA
12-Dec-94	U	NS	NS	NA	431.11	NA
12-Mar-95	U	NS	NS	NA	430.43	NA
13-Apr-95	U	NS	NS	NA	430.84	NA
19-Jul-95	U	NS	NS	NA	432.54	NA
25-Oct-95	U	NS	U	NA	431.93	NA
22-May-96	U	NS	NS	NA	431.10	NA
06-Nov-96	U	NS	NS	NA	430.37	NA
19-Mar-97	U	NS	NS	NA	429.65	NA
17-Nov-97	U	U	NS	NA	431.01	NA
29-Apr-98	U	U	0.203	NA	428.85	NA
13-Oct-98	U	U	0.278	NA	431.18	NA
27-Jul-00	U	U	0.314	NA	431.71	NA
08-Mar-01	NS	NS	NS	NA	431.08	NA
04-Jun-01	U	U	U	NA	431.32	NA
30-Nov-01	NS	NS	NS	NA	NM	NA
24-Apr-02	NS	NS	NS	NA	430.43	NA
20-Aug-02	NS	NS	NS	NA	NM	NA
06-Nov-02	NS	NS	NS	NA	NM	NA
20-Mar-03	NS	NS	NS	NA	NM	NA
16-May-03	NS	NS	NS	NA	NM	NA
04-Aug-03	NS	NS	NS	NA	NM	NA
24-Nov-03	NS	NS	NS	NA	NM	NA
10-Feb-04	NS	NS	NS	NA	NM	NA
03-May-04	NS	NS	NS	NA	NM	NA
18-Aug-04	NS	NS	NS	NA	NM	NA
08-Nov-04	NS	NS	NS	NA	NM	NA
01-Apr-05	NS	NS	NS	NA	NM	NA
27-Sep-05	NS	NS	NS	NA	NM	NA
16-May-06	NS	NS	NS	NA	NM	NA
14-Sep-06	NS	NS	NS	NA	NM	NA
14-May-07	NS	NS	NS	NA	NM	NA
04-Jun-08	NS	NS	NS	NA	NM	NA
13-May-09	U (0.0005)	U (0.05)	U (0.467)	NA	NM	NA
15-Jun-10	NS	NS	NS	NA	NM	NA
04-Oct-11	Well Decommissioned					
GCL	0.0046	2.2	1.5	NA	NA	NA

Appendix D
Tables of Historical Groundwater Monitoring Data

Monitoring Well MW-3

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
6-Nov-91	NS	NS	NS	431.53	428.98	431.02
3-Jan-92	NS	NS	NS	431.59	428.99	431.07
28-Jan-92	NS	NS	NS	431.52	428.95	431.01
9-Mar-92	NS	NS	NS	431.43	428.78	430.90
23-Apr-92	NS	NS	NS	431.16	429.31	430.79
19-May-92	NS	NS	NS	432.38	429.74	431.85
16-Jun-92	NS	NS	NS	433.28	430.20	432.66
09-Jul-92	NS	NS	NS	433.9	430.73	433.27
21-Jul-92	NS	NS	NS	430.9	428.68	430.46
28-Jul-92	NS	NS	NS	433.9	430.71	433.26
05-Aug-92	NS	NS	NS	433.76	430.53	433.11
11-Aug-92	NS	NS	NS	433.95	430.37	433.23
18-Aug-92	NS	NS	NS	433.5	430.37	432.87
26-Aug-92	NS	NS	NS	432.8	429.80	432.20
04-Sep-92	NS	NS	NS	432.63	429.68	432.04
30-Sep-92	NS	NS	NS	431.93	429.18	431.38
07-Oct-92	NS	NS	NS	431.93	428.92	431.33
03-Nov-92	NS	NS	NS	431.49	428.90	430.97
01-Dec-92	NS	NS	NS	431.24	428.48	430.69
21-Dec-92	NS	NS	NS	431.19	428.29	430.61
09-Mar-93	NS	NS	NS	431.37	429.09	430.91
12-Apr-93	NS	NS	NS	431.39	429.64	431.04
16-Jun-93	NS	NS	NS	433.07	430.35	432.53
12-Jul-93	NS	NS	NS	432.92	430.19	432.37
13-Aug-93	NS	NS	NS	432.97	430.05	432.39
07-Sep-93	NS	NS	NS	433.26	430.24	432.66
31-Mar-94	NS	NS	NS	431.01	428.01	430.41
12-Mar-95	NS	NS	NS	430.86	427.70	430.23
13-Apr-95	0.090	NS	NS	432.05	429.12	431.46
19-Jul-95	NS	NS	NS	432.76	430.53	432.31
25-Oct-95	0.480	NS	200	432.11	430.18	431.72
22-May-96	0.050	NS	NS	431.27	429.80	430.98
06-Nov-96	NS	NS	NS	430.86	427.68	430.22
19-Mar-97	0.095	NS	NS	430.22	426.72	429.52
17-Nov-97	0.0421	2.2	NS	432.89	430.96	432.50
29-Apr-98	0.0273	2.3	118	430.62	428.17	430.13
13-Oct-98	NS	NS	NS	432.25	431.07	432.01
28-Jan-00	NS	NS	NS	429.77	426.56	429.13
10-Apr-00	NS	NS	NS	430.14	427.01	429.51
27-Jul-00	NS	NS	NS	431.77	430.69	431.55
08-Mar-01	NS	NS	NS	431.20	429.03	430.77
04-Jun-01	NS	NS	NS	431.36	430.16	431.12
30-Nov-01	NS	NS	NS	431.37	429.99	431.09
24-Apr-02	NS	NS	NS	430.81	429.34	430.52
20-Aug-02	NS	NS	NS	433.21	432.23	433.01
06-Nov-02	NS	NS	NS	431.34	431.15	431.30
20-Mar-03	NS	NS	NS	431.34	430.39	431.15
16-May-03	NS	NS	NS	431.45	430.75	431.31
04-Aug-03	NS	NS	NS	432.55	432.45	432.53
24-Nov-03	NS	NS	NS	431.06	430.35	430.92
10-Feb-04	NS	NS	NS	429.55	428.74	429.39
03-May-04	NS	NS	NS	431.52	429.98	431.21
18-Aug-04	NS	NS	NS	431.95	431.23	431.81
08-Nov-04	NA	NA	NA	430.45	429.45	430.25
01-Apr-05	NS	NS	NS	NA	NM	NA
27-Sep-05	NS	NS	NS	432.46	431.08	432.18
16-May-06	NS	NS	NS	0.5 feet thick	NM	NA
14-Sep-06	NS	NS	NS	Several inches	NM	NA
14-May-07	NS	NS	NS	430.10	429.70	430.02
04-Jun-08	NS	NS	NS	NM	NM	NA
13-May-09	NS	NS	NS	NA	NM	NA
15-Jun-10	NS	NS	NS	NA	NM	NA
26-May-11	NS	NS	NS	NA	NM	NA
24-May-12	NS	NS	NS	NA	NM	NA
12-Aug-13	NS	NS	NS	0.6 feet thick	NM	NA
06-May-14	U (0.0005)	0.072	1.1	NA	NM	NA
26-May-15	NS	NS	NS	NA	Frozen	NA
12-May-16	NS	NS	NS	428.32	428.08	428.27
07-Sep-17	0.024	3.7	160	429.65	429.64	429.65
07-Sep-18	0.0033	1.3	60	NA	430.78	NA
GCL	0.0046	2.2	1.5	NA	NA	NA

Appendix D
Tables of Historical Groundwater Monitoring Data

Monitoring Well MW-4

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
04-Nov-91	0.17	NS	NS	NA	430.94	NA
03-Jan-92	NS	NS	NS	NA	430.70	NA
28-Jan-92	0.16	NS	NS	NA	430.83	NA
09-Mar-92	NS	NS	NS	NA	430.61	NA
23-Apr-92	0.11	NS	NS	NA	431.00	NA
16-Jul-92	U	NS	NS	NA	433.04	NA
11-Aug-92	0.13	NS	NS	NA	432.88	NA
10-Sep-92	0.15	NS	NS	NA	432.08	NA
07-Oct-92	0.11	NS	NS	NA	431.43	NA
21-Dec-92	0.11	NS	NS	NA	430.31	NA
09-Mar-93	0.093	NS	NS	NA	430.36	NA
23-Sep-94	U	NS	NS	NA	431.72	NA
12-Mar-95	U	NS	NS	NA	429.98	NA
13-Apr-95	U	NS	NS	NA	430.47	NA
19-Jul-95	U	NS	NS	NA	432.15	NA
25-Oct-95	U	NS	U	NA	431.53	NA
22-May-96	U	NS	NS	NA	430.64	NA
06-Nov-96	U	NS	NS	NA	430.93	NA
19-Mar-97	U	NS	NS	NA	429.15	NA
17-Nov-97	U	U	NS	NA	430.61	NA
29-Apr-98	U	U	0.405	NA	428.37	NA
13-Oct-98	U	U	0.511	NA	430.78	NA
05-Nov-99	U	U	0.688	NA	430.16	NA
27-Jul-00	NS	NS	NS	NA	NM	NA
08-Mar-01	NS	NS	NS	NA	430.58	NA
04-Jun-01	U	U	0.915	NA	430.81	NA
30-Nov-01	U	U	0.955	NA	430.56	NA
24-Apr-02	NS	NS	NS	NA	430.28	NA
20-Aug-02	U	U	3.31	NA	432.83	NA
06-Nov-02	NS	NS	NS	NA	431.14	NA
20-Mar-03	NS	NS	NS	NA	430.84	NA
16-May-03	NS	NS	NS	NA	431.02	NA
04-Aug-03	U	U	U	NA	432.93	NA
24-Nov-03	NS	NS	NS	NA	430.57	NA
10-Feb-04	NS	NS	NS	NA	429.85	NA
03-May-04	U	U	U	NA	431.52	NA
18-Aug-04	NS	NS	NS	NA	431.41	NA
08-Nov-04	NS	NS	NS	NA	NA	NA
01-Apr-05	NS	NS	NS	NA	NM	NA
27-Sep-05	NS	NS	NS	NA	NM	NA
16-May-06	U (0.0005)	U (0.050)	0.616	NA	430.29	NA
14-Sep-06	U (0.0005)	2.17	1.38	NA	431.37	NA
14-May-07	U (0.0005)	U	U	NA	431.86	NA
04-Jun-08	U (0.0005)	0.308	0.581	NA	430.46	NA
13-May-09	U (0.0005)	U (0.05)	U (0.417)	NA	431.46	NA
15-Jun-10	U (0.0005)	U (0.05)	U (0.455)	NA	429.00	NA
26-May-11	U (0.0005)	U (0.05)	0.439	NA	430.81	NA
24-May-12	U (0.0005)	U (0.05)	0.565	NA	428.69	NA
12-Aug-13	U (0.0005)	U (0.05)	U (0.400)	NA	428.95	NA
06-May-14	U (0.0005)	U (0.05)	U (0.41)	NA	428.80	NA
26-May-15	U (0.001)	U (0.05)	U (0.21)	NA	428.60	NA
12-May-16	U (0.0020)	U (0.1)	0.78	NA	428.17	NA
07-Sep-17	U (0.00040)	U (0.150)	0.59	NA	429.50	NA
07-Sep-18	U (0.00040)	U (0.150)	U (0.28)	NA	430.61	NA
GCL	0.0046	2.2	1.5	NA	NA	NA

**Appendix D
Tables of Historical Groundwater Monitoring Data**

Monitoring Well MW-5

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
04-Nov-91	U	NS	NS	NA	431.47	NA
03-Jan-92	NS	NS	NS	NA	431.52	NA
28-Jan-92	U	NS	NS	NA	431.41	NA
09-Mar-92	NS	NS	NS	NA	431.30	NA
23-Apr-92	U	NS	NS	NA	431.17	NA
16-Jul-92	U	NS	NS	NA	433.63	NA
11-Aug-92	U	NS	NS	NA	433.45	NA
10-Sep-92	U	NS	NS	NA	432.68	NA
07-Oct-92	U	NS	NS	NA	431.94	NA
21-Dec-92	U	NS	NS	NA	431.0	NA
09-Mar-93	U	NS	NS	NA	431.32	NA
16-Jun-93	U	NS	NS	NA	432.94	NA
07-Sep-93	U	NS	NS	NA	432.95	NA
13-Dec-93	U	NS	NS	NA	431.48	NA
31-Mar-94	U	NS	NS	NA	430.80	NA
23-Sep-94	U	NS	NS	NA	432.31	NA
12-Dec-94	U	NS	NS	NA	431.32	NA
12-Mar-95	U	NS	NS	NA	430.66	NA
13-Apr-95	U	NS	NS	NA	431.32	NA
19-Jul-95	U	NS	NS	NA	433.08	NA
25-Oct-95	U	NS	U	NA	432.43	NA
22-May-96	U	NS	NS	NA	431.63	NA
06-Nov-96	U	NS	NS	NA	430.95	NA
19-Mar-97	U	NS	NS	NA	430.30	NA
17-Nov-97	U	U	NS	NA	431.22	NA
29-Apr-98	U	U	0.106	NA	429.11	NA
13-Oct-98	U	U	0.129	NA	431.41	NA
04-Nov-99	U	U	U	NA	430.95	NA
27-Jul-00	NS	NS	NS	NA	NM	NA
08-Mar-01	NS	NS	NS	NA	NM	NA
04-Jun-01	NS	NS	NS	NA	NM	NA
30-Nov-01	U	U	U	NA	NM	NA
24-Apr-02	NS	NS	NS	NA	430.87	NA
20-Aug-02	NS	NS	NS	NA	433.37	NA
06-Nov-02	NS	NS	NS	NA	431.68	NA
20-Mar-03	NS	NS	NS	NA	431.57	NA
16-May-03	NS	NS	NS	NA	434.76	NA
04-Aug-03	U	U	U	NA	433.58	NA
24-Nov-03	NS	NS	NS	NA	431.29	NA
10-Feb-04	NS	NS	NS	NA	430.60	NA
03-May-04	NS	NS	NS	NA	430.98	NA
18-Aug-04	NS	NS	NS	NA	431.24	NA
08-Nov-04	NS	NS	NS	NA	430.61	NA
01-Apr-05	NS	NS	NS	NA	NM	NA
27-Sep-05	NS	NS	NS	NA	NM	NA
16-May-06	NS	NS	NS	NA	NM	NA
14-Sep-06	NS	NS	NS	NA	NM	NA
14-May-07	NS	NS	NS	NA	NM	NA
04-Jun-08	NS	NS	NS	NA	NM	NA
13-May-09	NS	NS	NS	NA	NM	NA
15-Jun-10	NS	NS	NS	NA	NM	NA
26-May-11	NS	NS	NS	NA	NM	NA
04-Oct-11	Well Decommissioned					
GCL	0.0046	2.2	1.5	NA	NA	NA

Appendix D
Tables of Historical Groundwater Monitoring Data

Monitoring Well MW-6

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
28-Jan-92	U	NS	NS	NA	430.59	NA
09-Mar-92	NS	NS	NS	NA	430.49	NA
23-Apr-92	U	NS	NS	NA	430.85	NA
16-Jul-92	U	NS	NS	NA	432.83	NA
11-Aug-92	U	NS	NS	NA	432.60	NA
10-Sep-92	U	NS	NS	NA	431.86	NA
07-Oct-92	U	NS	NS	NA	431.23	NA
21-Dec-92	U	NS	NS	NA	430.19	NA
09-Mar-93	U	NS	NS	NA	430.19	NA
16-Jun-93	U	NS	NS	NA	432.06	NA
07-Sep-93	U	NS	NS	NA	432.08	NA
12-Dec-94	U	NS	NS	NA	436.61	NA
13-Apr-95	NS	NS	NS	NA	NM	NA
19-Jul-95	NS	NS	NS	NA	NM	NA
25-Oct-95	U	NS	U	NA	431.46	NA
22-May-96	U	NS	NS	NA	430.21	NA
06-Nov-96	U	NS	NS	NA	429.49	NA
19-Mar-97	U	NS	NS	NA	428.56	NA
17-Nov-97	U	U	NS	NA	430.37	NA
29-Apr-98	U	U	0.119	NA	427.95	NA
13-Oct-98	U	U	0.151	NA	430.33	NA
27-Jul-00	U	U	0.331	NA	431.15	NA
08-Mar-01	NS	NS	NS	NA	NM	NA
04-Jun-01	NS	NS	NS	NA	NM	NA
30-Nov-01	U	U	1.61	NA	430.13	NA
14-May-07	Well Destroyed					
GCL	0.0046	2.2	1.5	NA	NA	NA

Monitoring Well MW-7

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
28-Jan-92	U	NS	NS	NA	430.59	NA
09-Mar-92	NS	NS	NS	NA	430.41	NA
23-Apr-92	U	NS	NS	NA	430.73	NA
16-Jul-92	U	NS	NS	NA	432.69	NA
11-Aug-92	U	NS	NS	NA	432.50	NA
10-Sep-92	U	NS	NS	NA	431.65	NA
07-Oct-92	U	NS	NS	NA	431.11	NA
21-Dec-92	U	NS	NS	NA	430.08	NA
09-Mar-93	U	NS	NS	NA	430.36	NA
16-Jun-93	U	NS	NS	NA	431.96	NA
07-Sep-93	U	NS	NS	NA	431.96	NA
13-Dec-93	U	NS	NS	NA	430.96	NA
31-Mar-94	U	NS	NS	NA	430.06	NA
23-Sep-94	U	NS	NS	NA	431.63	NA
12-Mar-95	U	NS	NS	NA	429.94	NA
13-Apr-95	U	NS	NS	NA	430.29	NA
19-Jul-95	U	NS	NS	NA	432.05	NA
25-Oct-95	U	NS	U	NA	431.54	NA
22-May-96	U	NS	NS	NA	430.54	NA
06-Nov-96	U	NS	NS	NA	429.81	NA
19-Mar-97	U	NS	NS	NA	429.05	NA
17-Nov-97	U	U	NS	NA	430.43	NA
29-Apr-98	0.00223	U	0.132	NA	428.18	NA
13-Oct-98	NS	NS	NS	NA	NM	NA
07-Jun-00	Well Destroyed					
GCL	0.0046	2.2	1.5	NA	NA	NA

**Appendix D
Tables of Historical Groundwater Monitoring Data**

Monitoring Well MW-8

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
29-Jan-92	NS	NS	NS	431.54	428.79	430.99
09-Mar-92	NS	NS	NS	431.43	428.28	430.80
12-Mar-95	NS	NS	NS	430.84	427.56	430.18
13-Apr-95	NS	NS	NS	431.44	428.76	430.90
19-Jul-95	NS	NS	NS	432.66	432.63	432.65
25-Oct-95	NS	NS	NS	432.32	430.70	432.00
19-Mar-97	NS	NS	NS	432.99	429.80	432.35
17-Nov-97	NS	NS	NS	433.33	431.02	432.87
29-Apr-98	NS	NS	NS	430.56	428.23	430.09
13-Oct-98	NS	NS	NS	433.00	431.01	432.60
28-Jan-00	NS	NS	NS	429.61	426.66	429.02
10-Apr-00	NS	NS	NS	430.05	427.14	429.47
27-Jul-00	NS	NS	NS	431.48	431.45	431.47
08-Mar-01	NS	NS	NS	431.43	429.13	430.97
08-Jun-01	NS	NS	NS	431.33	430.24	431.11
30-Nov-01	NS	NS	NS	NA	NM	NA
24-Apr-02	NS	NS	NS	430.03	430.02	430.03
20-Aug-02	NS	NS	NS	433.04	433.01	433.03
06-Nov-02	NS	NS	NS	430.93	430.92	430.93
20-Mar-03	NS	NS	NS	430.17	430.14	430.16
16-May-03	NS	NS	NS	431.23	431.17	431.22
04-Aug-03	NS	NS	NS	433.31	433.30	433.31
24-Nov-03	NS	NS	NS	430.94	430.91	430.93
10-Feb-04	NS	NS	NS	430.30	430.28	430.30
03-May-04	NS	NS	NS	NA	430.68	NA
18-Aug-04	NS	NS	NS	NA	431.86	NA
30-Aug-04	0.00516	0.329	1.69	NA	NM	NA
08-Nov-04	NS	NS	NS	NA	430.70	NA
01-Apr-05	NS	NS	NS	NA	NM	NA
27-Sep-05	U (0.0005)	U (0.05)	U (0.4)	NA	430.21	NA
16-May-06	0.000695	0.0766	4.12	NA	430.59	NA
14-Sep-06	0.00645	0.284	0.956	NA	431.52	NA
14-May-07	NS	NS	NS	430.04	430.00	430.03
04-Jun-08	0.00188	0.450	5.81	430.61	430.60	430.61
13-May-09	0.00238	0.740	12.6	NA	430.98	NA
15-Jun-10	0.00467	1.390	2.45	NA	428.96	NA
26-May-11	0.00188	1.10	13.1	NA	431.01	NA
24-May-12	0.00134	0.524	1.88	NA	428.91	NA
12-Aug-13	NS	NS	NS	428.42	428.40	428.42
07-May-14	0.00067	2.2	43	NA	428.42	NA
26-May-15	0.0025	2.8	65	NA	428.87	NA
12-May-16	0.00087	0.86	12	NA	428.34	NA
07-Sep-17	0.016	0.390	27	NA	429.69	NA
07-Sep-18	0.00067	0.280	20	NA	430.79	NA
GCL	0.0046	2.2	1.5	NA	NA	NA

Monitoring Well MW-9

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
16-May-03	NS	NS	NS	431.36	431.16	431.32
04-Aug-03	NS	NS	NS	NA	NM	NA
24-Nov-03	NS	NS	NS	NA	NM	NA
10-Feb-04	NS	NS	NS	NA	NM	NA
03-May-04	NS	NS	NS	430.87	429.21	430.54
18-Aug-04	NS	NS	NS	432.19	430.59	431.87
08-Nov-04	NS	NS	NS	430.09	430.04	430.08
01-Apr-05	NS	NS	NS	NA	NM	NA
27-Sep-05	NS	NS	NS	NA	NM	NA
16-May-06	NS	NS	NS	NA	NM	NA
14-Sep-06	NS	NS	NS	NA	NM	NA
14-May-07	NS	NS	NS	NA	NM	NA
04-Jun-08	NS	NS	NS	NA	NM	NA
13-May-09	NS	NS	NS	NA	NM	NA
15-Jun-10	NS	NS	NS	NA	NM	NA
26-May-11	NS	NS	NS	NA	NM	NA
04-Oct-11	Well Decommissioned					
GCL	0.0046	2.2	1.5	NA	NA	NA

Monitoring Wells MW-10, MW-11, and MW-12 consist of steel pipe casings, and are typically frozen. Monitoring Well MW-12 has been destroyed. Data for Monitoring Wells MW-10, MW-11, and MW-12 is not included.

**Appendix D
Tables of Historical Groundwater Monitoring Data**

Monitoring Well MW-13

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
04-Nov-99	0.00468	0.096	1.26	NA	NM	NA
27-Jul-00	0.012	0.32	0.848	NA	NM	NA
08-Mar-01	NS	NS	NS	NA	430.69	430.69
04-Jun-01	0.00276	U	0.831	NA	430.93	430.93
04-Oct-11	Well Decommissioned					
GCL	0.0046	2.2	1.5	NA	NA	NA

Monitoring Well MW-14

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
10-Apr-00	NS	NS	NS	NA	428.72	NA
28-Jan-00	NS	NS	NS	NA	429.65	NA
27-Jul-00	NS	NS	NS	431.93	431.87	431.92
08-Mar-01	NS	NS	NS	NA	430.71	NA
04-Jun-01	NS	NS	NS	NA	Frozen	NA
30-Nov-01	NS	NS	NS	429.12	429.11	429.12
24-Apr-02	NS	NS	NS	NA	428.51	NA
20-Aug-02	NS	NS	NS	NA	NM	NA
06-Nov-02	NS	NS	NS	NA	429.37	NA
20-Mar-03	NS	NS	NS	NA	Frozen	NA
16-May-03	NS	NS	NS	NA	Frozen	NA
04-Aug-03	NS	NS	NS	NA	433.36	NA
24-Nov-03	NS	NS	NS	NA	429.01	NA
10-Feb-04	NS	NS	NS	NA	428.31	NA
03-May-04	NS	NS	NS	NA	Frozen	NA
18-Aug-04	NS	NS	NS	NA	430.79	NA
08-Nov-04	NS	NS	NS	NA	428.18	NA
01-Apr-05	0.0162	2.16	22	NA	429.39	NA
27-Sep-05	0.0194	1.07	4.34	NA	429.31	NA
16-May-06	NS	NS	NS	NA	NM	NA
14-Sep-06	0.00323	0.457	1.51	NA	NR	NA
14-May-07	NS	NS	NS	NA	NM	NA
04-Jun-08	0.0128	0.964	3.02	NA	430.57	NA
13-May-09	0.0267	2.18	1.77	NA	430.88	NA
15-Jun-10	0.0119	1.15	1.89	NA	429.05	NA
26-May-11	0.0103	1.23	3.78	NA	430.92	NA
24-May-12	0.00271	0.284	2.72	NA	428.79	NA
12-Aug-13	0.0442	3.77	120	NA	429.18	NA
06-May-14	0.027	12	67	NA	426.53	NA
26-May-15	0.020	3.6	6.4	NA	426.47	NA
Ice Plug	Ice Plug					
07-Sep-17	0.050	6.5	14	NA	429.60	NA
07-Sep-18	0.074	U (7.5)	26	NA	430.73	NA
GCL	0.0046	2.2	1.5	NA	NA	NA

Monitoring Well MW-15

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
04-Nov-99	0.106	12.0	8.51	NA	NM	NA
28-Jan-00	NS	NS	NS	NA	429.29	NA
27-Jul-00	NS	NS	NS	431.69	431.03	431.56
08-Mar-01	NS	NS	NS	431.04	430.44	430.88
04-Jun-01	NS	NS	NS	NA	Frozen	NA
30-Nov-01	Well Destroyed					
GCL	0.0046	2.2	1.5	NA	NA	NA

Appendix D
Tables of Historical Groundwater Monitoring Data

Monitoring Well MW-16

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
04-Nov-99	U	2.4	1.83	NA	NS	NA
10-Apr-00	NS	NS	NS	429.23	428.88	429.16
27-Jul-00	NS	NS	NS	431.64	431.65	431.64
08-Mar-01	NS	NS	NS	431.03	430.62	430.92
04-Jun-01	U	U	1.61	NA	431.29	NA
30-Nov-01	NS	NS	NS	NA	430.98	NA
24-Apr-02	NS	NS	NS	NA	NM	NA
20-Aug-02	0.0006	1.63	1.22	NA	433.03	NA
06-Nov-02	NS	NS	NS	NA	431.36	NA
20-Mar-03	NS	NS	NS	NA	431.27	NA
16-May-03	NS	NS	NS	NA	Frozen	NA
04-Aug-03	NS	NS	NS	NA	433.47	NA
24-Nov-03	NS	NS	NS	NA	431.02	NA
10-Feb-04	NS	NS	NS	NA	430.29	NA
03-May-04	NS	NS	NS	NA	436.26	NA
18-Aug-04	NS	NS	NS	NA	431.94	NA
08-Nov-04	NS	NS	NS	NA	430.15	NA
01-Apr-05	NS	NS	NS	NA	NM	NA
27-Sep-05	NS	NS	NS	NA	NM	NA
16-May-06	U (0.0005)	U (0.050)	1.06	NA	430.08	NA
14-Sep-06	U (0.0005)	0.237	0.908	NA	431.63	NA
14-May-07	U (0.0005)	U (0.050)	1.12	429.56	429.20	429.24
04-Jun-08	U (0.0005)	U (0.050)	U (0.4)	NA	430.74	NA
13-May-09	NS	NS	NS	NA	NM	NA
15-Jun-10	NS	NS	NS	NA	NM	NA
04-Oct-11	Well Decommissioned					
GCL	0.0046	2.2	1.5	NA	NA	NA

Monitoring Well MW-17

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
04-Nov-99	NS	NS	NS	NA	NM	NA
28-Jan-00	NS	NS	NS	NA	429.08	NA
10-Apr-00	NS	NS	NS	429.97	427.06	429.39
27-Jul-00	0.07	6.8	57.6	431.45	431.44	431.45
08-Mar-01	NS	NS	NS	NA	430.41	NA
04-Jun-01	NS	NS	NS	430.64	430.39	430.57
30-Nov-01	NS	NS	NS	431.07	430.82	431.00
24-Apr-02	NS	NS	NS	NA	NM	NA
20-Aug-02	NS	NS	NS	NA	433.51	NA
06-Nov-02	NS	NS	NS	NA	431.81	NA
20-Mar-03	NS	NS	NS	NA	431.59	NA
16-May-03	NS	NS	NS	NA	431.76	NA
04-Aug-03	0.0016	0.535	4.5	NA	433.63	NA
24-Nov-03	NS	NS	NS	NA	431.29	NA
10-Feb-04	NS	NS	NS	NA	430.53	NA
03-May-04	0.0823	1.14	65.2	NA	431.26	NA
18-Aug-04	NS	NS	NS	NA	432.18	NA
08-Nov-04	NS	NS	NS	NA	430.40	NA
01-Apr-05	0.0148	5.37	118	NA	430.61	NA
27-Sep-05	0.00422	0.204	6.53	NA	432.54	NA
16-May-06	0.000652	0.633	51.2	NA	430.95	NA
14-Sep-06	0.00634	0.642	9.33	NA	431.46	NA
14-May-07	0.00182	0.467	74.1	NA	429.79	NA
04-Jun-08	0.00054	0.213	3.49	NA	430.54	NA
13-May-09	U (0.0005)	U (0.05)	1.11	NA	433.54	NA
15-Jun-10	0.00384	0.148	3.7	NA	428.82	NA
26-May-11	U (0.0005)	U (0.05)	0.963	NA	431.19	NA
24-May-12	U (0.0005)	0.122	1.05	NA	428.13	NA
12-Aug-13	U (0.0005)	1.68	114	NA	429.15	NA
06-May-14	U (0.0005)	1.2	28	NA	426.33	NA
26-May-15	U (0.0010)	3.9	32	NA	426.17	NA
12-May-16	U (0.00026)	3.3	74	NA	427.12	NA
07-Sep-17	0.0059	2.4	47	NA	429.61	NA
07-Sep-18	0.0064	2.9	24	NA	430.60	NA
GCL	0.0046	2.2	1.5	NA	NA	NA

**Appendix D
Tables of Historical Groundwater Monitoring Data**

Monitoring Well MW-18

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
04-Nov-99	U	3.4	24.6	NA	NM	NA
10-Apr-00	NS	NS	NS	429.21	429.12	429.19
27-Jul-00	U	U	6.06	NA	432.73	NA
08-Mar-01	NS	NS	NS	NA	430.95	NA
04-Jun-01	U	1.42	11.6	NA	431.29	NA
30-Nov-01	NS	NS	NS	NA	430.81	NA
24-Apr-02	NS	NS	NS	NA	NM	NA
20-Aug-02	NS	NS	NS	NA	NM	NA
06-Nov-02	NS	NS	NS	NA	NM	NA
20-Mar-03	NS	NS	NS	NA	NM	NA
16-May-03	NS	NS	NS	NA	NM	NA
04-Aug-03	NS	NS	NS	NA	NM	NA
24-Nov-03	NS	NS	NS	NA	NM	NA
10-Feb-04	NS	NS	NS	NA	NM	NA
03-May-04	NS	NS	NS	NA	430.60	NA
18-Aug-04	NS	NS	NS	NA	431.91	NA
08-Nov-04	NS	NS	NS	NA	430.07	NA
01-Apr-05	NS	NS	NS	NA	NM	NA
27-Sep-05	NS	NS	NS	NA	NM	NA
16-May-06	NS	NS	NS	NA	NM	NA
14-Sep-06	NS	NS	NS	NA	NM	NA
14-May-07	NS	NS	NS	NA	NM	NA
04-Jun-08	NS	NS	NS	NA	NM	NA
13-May-09	NS	NS	NS	NA	NM	NA
15-Jun-10	NS	NS	NS	NA	NM	NA
26-May-11	NS	NS	NS	NA	NM	NA
04-Oct-11	Well Decommissioned					
GCL	0.0046	2.2	1.5	NA	NA	NA

Monitoring Well MW-19

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
27-Jul-00	0.044	U	1.14	NA	NST	NA
08-Mar-01	NS	NS	NS	NA	430.57	NA
04-Jun-01	0.0037	0.271	1.05	NA	430.82	NA
30-Nov-01	Well Destroyed					
GCL	0.0046	2.2	1.5	NA	NA	NA

Monitoring Well MW-20

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
27-Jul-00	U	U	0.997	NA	NST	NA
08-Mar-01	NS	NS	NS	NA	NM	NA
04-Jun-01	NS	NS	NS	NA	NM	NA
30-Nov-01	Well Destroyed					
GCL	0.0046	2.2	1.5	NA	NA	NA

Monitoring Well MW-21

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
27-Jul-00	0.028	U	1.55	NA	NST	NA
08-Mar-01	NS	NS	NS	NA	NM	NA
04-Jun-01	NS	NS	NS	NA	NM	NA
30-Nov-01	Well Destroyed					
GCL	0.0046	2.2	1.5	NA	NA	NA

Appendix D
Tables of Historical Groundwater Monitoring Data

Monitoring Well MW-22

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
27-Jul-00	U	U	0.008	NA	NST	NA
08-Mar-01	NS	NS	NS	NA	NM	NA
04-Jun-01	NS	NS	NS	NA	NM	NA
30-Nov-01	Well Destroyed					
GCL	0.0046	2.2	1.5	NA	NA	NA

Monitoring Well MW-23

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
30-Nov-01	NS	NS	NS	NA	NM	NA
24-Apr-02	NS	NS	NS	430.71	430.59	430.69
20-Aug-02	NS	NS	NS	NA	433.01	NA
06-Nov-02	NS	NS	NS	NA	431.59	NA
20-Mar-03	NS	NS	NS	NA	432.00	NA
16-May-03	NS	NS	NS	NA	432.06	NA
04-Aug-03	NS	NS	NS	NA	433.38	NA
16-Oct-03	Well damaged during site work and removed.					
GCL	0.0046	2.2	1.5	NA	NA	NA

Monitoring Well MW-24

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
30-Nov-01	0.0142	0.230	0.714	NA	NST	NA
24-Apr-02	0.0144	0.213	0.686	NA	430.35	NA
20-Aug-02	U	U	U	NA	433.01	NA
06-Nov-02	NS	NS	NS	NA	431.34	NA
20-Mar-03	NS	NS	NS	NA	430.92	NA
16-May-03	NS	NS	NS	NA	431.11	NA
04-Aug-03	0.0007	0.115	U	NA	432.99	NA
24-Nov-03	NS	NS	NS	NA	NM	NA
10-Feb-04	NS	NS	NS	NA	429.75	NA
03-May-04	0.0342	1.12	4.32	NA	430.11	NA
18-Aug-04	NS	NS	NS	NA	431.74	NA
08-Nov-04	NS	NS	NS	NA	429.94	NA
01-Apr-05	0.0147	2.0	17.6	NA	429.87	NA
27-Sep-05	U (0.0005)	U (0.05)	1.29	NA	431.88	NA
16-May-06	NS	NS	NS	NA	NM	NA
14-Sep-06	0.00270	0.0520	1.15	NA	431.46	NA
14-May-07	NS	NS	NS	NA	NM	NA
04-Jun-08	NS	NS	NS	NA	NM	NA
13-May-09	NS	NS	NS	NA	NM	NA
15-Jun-10	NS	NS	NS	NA	NM	NA
26-May-11	NS	NS	NS	NA	NM	NA
24-May-12	NS	NS	NS	NA	NM	NA
12-Aug-13	NS	NS	NS	NA	NM	NA
06-May-14	NS	NS	NS	NA	NM	NA
26-May-16	NS	NS	NS	NA	NM	NA
07-Sep-17	NS	NS	NS	NA	NM	NA
07-Sep-18	NS	NS	NS	NA	NM	NA
GCL	0.0046	2.2	1.5	NA	NA	NA

Appendix D
Tables of Historical Groundwater Monitoring Data

Monitoring Well MW-25

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
30-Nov-01	U	U	U	NA	NST	NA
24-Apr-02	NS	NS	NS	NA	Frozen	NA
20-Aug-02	NS	NS	NS	NA	433.39	NA
06-Nov-02	NS	NS	NS	NA	NM	NA
20-Mar-03	NS	NS	NS	NA	NM	NA
16-May-03	NS	NS	NS	NA	Frozen	NA
04-Aug-03	NS	NS	NS	NA	433.18	NA
24-Nov-03	NS	NS	NS	NA	NM	NA
10-Feb-04	NS	NS	NS	NA	NM	NA
03-May-04	NS	NS	NS	NA	430.38	NA
18-Aug-04	NS	NS	NS	NA	431.63	NA
08-Nov-04	NS	NS	NS	NA	429.79	NA
01-Apr-05	NS	NS	NS	NA	NM	NA
27-Sep-05	NS	NS	NS	NA	NM	NA
16-May-06	NS	NS	NS	NA	NM	NA
14-Sep-06	NS	NS	NS	NA	NM	NA
14-May-07	NS	NS	NS	NA	NM	NA
04-Jun-08	NS	NS	NS	NA	NM	NA
13-May-09	NS	NS	NS	NA	NM	NA
15-Jun-10	NS	NS	NS	NA	NM	NA
26-May-11	NS	NS	NS	NA	NM	NA
04-Oct-11	Well Decommissioned					
GCL	0.0046	2.2	1.5	NA	NA	NA

Monitoring Well MW-26

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
30-Nov-01	NS	NS	NS	NA	NST	NA
24-Apr-02	0.0024	0.0909	1.42	NA	416.97	NA
20-Aug-02	NS	NS	NS	NA	NM	NA
06-Nov-02	NS	NS	NS	NA	432.06	NA
20-Mar-03	NS	NS	NS	NA	Frozen	NA
16-May-03	NS	NS	NS	NA	Frozen	NA
04-Aug-03	NS	NS	NS	NA	433.56	NA
24-Nov-03	NS	NS	NS	NA	Frozen	NA
10-Feb-04	NS	NS	NS	NA	Frozen	NA
03-May-04	NS	NS	NS	NA	Frozen	NA
18-Aug-04	NS	NS	NS	NA	Frozen	NA
08-Nov-04	NS	NS	NS	NA	Frozen	NA
01-Apr-05	NS	NS	NS	NA	NM	NA
27-Sep-05	NS	NS	NS	NA	NM	NA
16-May-06	NS	NS	NS	NA	NM	NA
14-Sep-06	NS	NS	NS	NA	NM	NA
14-May-07	NS	NS	NS	NA	NM	NA
04-Jun-08	NS	NS	NS	NA	NM	NA
13-May-09	NS	NS	NS	NA	NM	NA
15-Jun-10	NS	NS	NS	NA	NM	NA
26-May-11	NS	NS	NS	NA	NM	NA
24-May-12	NS	NS	NS	NA	NM	NA
12-Aug-13	NS	NS	NS	NA	NM	NA
06-May-14	NS	NS	NS	NA	NM	NA
26-Jun-14	NS	NS	NS	NA	NM	NA
07-Sep-17	NS	NS	NS	NA	NM	NA
07-Sep-18	NS	NS	NS	NA	NM	NA
GCL	0.0046	2.2	1.5	NA	NA	NA

Appendix D
Tables of Historical Groundwater Monitoring Data

Monitoring Well MW-27

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
30-Nov-01	U	U	U	NA	NST	NA
24-Apr-02	U	U	U	NA	431.69	NA
20-Aug-02	U	U	0.54	NA	433.58	NA
06-Nov-02	NS	NS	NS	NA	432.9	NA
20-Mar-03	NS	NS	NS	NA	432.43	NA
16-May-03	NS	NS	NS	NA	432.75	NA
04-Aug-03	U	U	0.589	NA	434.62	NA
24-Nov-03	NS	NS	NS	NA	432.28	NA
10-Feb-04	NS	NS	NS	NA	431.33	NA
03-May-04	NS	NS	NS	NA	431.74	NA
18-Aug-04	NS	NS	NS	NA	433.29	NA
08-Nov-04	NS	NS	NS	NA	Frozen	NA
01-Apr-05	NS	NS	NS	NA	NM	NA
27-Sep-05	NS	NS	NS	NA	NM	NA
16-May-06	NS	NS	NS	NA	NM	NA
14-Sep-06	NS	NS	NS	NA	NM	NA
14-May-07	NS	NS	NS	NA	NM	NA
04-Jun-08	NS	NS	NS	NA	NM	NA
13-May-09	NS	NS	NS	NA	NM	NA
15-Jun-10	NS	NS	NS	NA	NM	NA
26-May-11	NS	NS	NS	NA	NM	NA
04-Oct-11	Well Decommissioned					
GCL	0.0046	2.2	1.5	NA	NA	NA

Monitoring Well MW-28

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
30-Nov-01	0.003	U	0.747	NA	NST	NA
24-Apr-02	U	U	0.570	NA	430.89	NA
20-Aug-02	0.004	U	0.878	NA	433.31	NA
06-Nov-02	NS	NS	NS	NA	431.64	NA
20-Mar-03	NS	NS	NS	NA	431.47	NA
16-May-03	NS	NS	NS	NA	431.68	NA
04-Aug-03	NS	NS	NS	NA	433.5	NA
24-Nov-03	NS	NS	NS	NA	431.12	NA
10-Feb-04	NS	NS	NS	NA	430.32	NA
03-May-04	NS	NS	NS	NA	430.72	NA
18-Aug-04	NS	NS	NS	NA	431.99	NA
08-Nov-04	NS	NS	NS	NA	430.35	NA
01-Apr-05	NS	NS	NS	NA	NM	NA
27-Sep-05	NS	NS	NS	NA	NM	NA
16-May-06	NS	NS	NS	NA	NM	NA
14-Sep-06	NS	NS	NS	NA	NM	NA
14-May-07	NS	NS	NS	NA	NM	NA
04-Jun-08	NS	NS	NS	NA	NM	NA
13-May-09	NS	NS	NS	NA	NM	NA
15-Jun-10	NS	NS	NS	NA	NM	NA
26-May-11	NS	NS	NS	NA	NM	NA
04-Oct-11	Well Decommissioned					
GCL	0.0046	2.2	1.5	NA	NA	NA

**Appendix D
Tables of Historical Groundwater Monitoring Data**

Monitoring Well G-1

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
Mar-01	NS	NS	NS	NA	NST	NA
May-01	U	U	U	NA	NST	NA
30-Nov-01	U	U	U	NA	429.16	NA
24-Apr-02	U	U	U	NA	430.30	NA
04-Jun-02	NS	NS	NS	NA	430.30	NA
20-Aug-02	U	U	U	NA	432.87	NA
06-Nov-02	NS	NS	NS	NA	431.12	NA
20-Mar-03	NS	NS	NS	NA	431.06	NA
16-May-03	NS	NS	NS	NA	431.26	NA
04-Aug-03	U	U	U	NA	433.22	NA
24-Nov-03	NS	NS	NS	NA	430.81	NA
10-Feb-04	NS	NS	NS	NA	430.18	NA
03-May-04	NS	NS	NS	NA	430.50	NA
18-Aug-04	NS	NS	NS	NA	431.73	NA
08-Nov-04	NS	NS	NS	NA	NM	NA
01-Apr-05	NS	NS	NS	NA	NM	NA
27-Sep-05	NS	NS	NS	NA	NM	NA
16-May-06	NS	NS	NS	NA	NM	NA
14-Sep-06	NS	NS	NS	NA	NM	NA
14-May-07	NS	NS	NS	NA	NM	NA
04-Jun-08	NS	NS	NS	NA	NM	NA
13-May-09	NS	NS	NS	NA	NM	NA
15-Jun-10	NS	NS	NS	NA	NM	NA
26-May-11	NS	NS	NS	NA	NM	NA
24-May-12	NS	NS	NS	NA	NM	NA
12-Aug-13	NS	NS	NS	NA	NM	NA
06-May-14	NS	NS	NS	NA	NM	NA
26-May-14	NS	NS	NS	NA	NM	NA
07-Sep-17	NS	NS	NS	NA	NM	NA
07-Sep-18	NS	NS	NS	NA	NM	NA
GCL	0.0046	2.2	1.5	NA	NA	NA

Monitoring Well MW-29

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
16-Oct-03	U	U	U	NA	431.56	NA
24-Nov-03	NS	NS	NS	NA	430.49	NA
10-Feb-04	NS	NS	NS	NA	429.66	NA
03-May-04	U	U	U	NA	430.01	NA
18-Aug-04	NS	NS	NS	NA	NM	NA
08-Nov-04	NS	NS	NS	NA	NM	NA
01-Apr-05	NS	NS	NS	NA	NM	NA
27-Sep-05	U (0.0005)	U (0.05)	U (0.403)	NA	431.49	NA
16-May-06	NS	NS	NS	NA	NM	NA
14-Sep-06	NS	NS	NS	NA	NM	NA
14-May-07	NS	NS	NS	NA	NM	NA
04-Jun-08	NS	NS	NS	NA	NM	NA
13-May-09	NS	NS	NS	NA	NM	NA
15-Jun-10	NS	NS	NS	NA	NM	NA
26-May-11	NS	NS	NS	NA	NM	NA
24-May-12	NS	NS	NS	NA	NM	NA
12-Aug-13	NS	NS	NS	NA	NM	NA
06-May-14	NS	NS	NS	NA	NM	NA
26-May-14	NS	NS	NS	NA	NM	NA
17-Sep-17	NS	NS	NS	NA	NM	NA
07-Sep-18	NS	NS	NS	NA	NM	NA
GCL	0.0046	2.2	1.5	NA	NA	NA

Appendix D
Tables of Historical Groundwater Monitoring Data

Monitoring Well MW-30

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
16-Oct-03	U	U	U	NA	431.98	NA
24-Nov-03	NS	NS	NS	NA	430.74	NA
10-Feb-04	NS	NS	NS	NA	429.98	NA
03-May-04	U	U	U	NA	430.31	NA
18-Aug-04	NS	NS	NS	NA	NM	NA
08-Nov-04	NS	NS	NS	NA	429.70	NA
01-Apr-05	NS	NS	NS	NA	428.69	NA
27-Sep-05	NS	NS	NS	NA	NM	NA
16-May-06	NS	NS	NS	NA	NM	NA
14-Sep-06	NS	NS	NS	NA	NM	NA
14-May-07	NS	NS	NS	NA	NM	NA
04-Jun-08	NS	NS	NS	NA	NM	NA
13-May-09	NS	NS	NS	NA	NM	NA
15-Jun-10	NS	NS	NS	NA	NM	NA
26-May-11	NS	NS	NS	NA	NM	NA
24-May-12	NS	NS	NS	NA	NM	NA
12-Aug-13	NS	NS	NS	NA	NM	NA
06-May-14	NS	NS	NS	NA	NM	NA
26-May-14	NS	NS	NS	NA	NM	NA
07-Sep-17	NS	NS	NS	NA	NM	NA
07-Sep-18	NS	NS	NS	NA	NM	NA
GCL	0.0046	2.2	1.5	NA	NA	NA

IFC Aeration Tank

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
24-May-12	0.00486	0.532	0.478	NA	NM	NA
12-Aug-13	NS	NS	NS	NA	NM	NA
06-May-14	NS	NS	NS	NA	NM	NA
26-May-15	0.0065	0.59	21	NA	NM	NA
12-May-16	0.005	0.21	U (0.43)	NA	NM	NA
07-Sep-17	U (0.00040)	U (0.150)	0.74	NA	430.91	NA
07-Sep-18	U (0.00040)	U (0.150)	0.28	NA	NM	NA
GCL	0.0046	2.2	1.5	NA	NA	NA

CRW-2

Date	Benzene (mg/L)	GRO (mg/L)	DRO (mg/L)	Product Elevation (feet)	Measured GW Elevation (feet)	Corrected GW Elevation (feet)
24-Sep-13	U (0.0005)	U (0.05)	U (0.439)	NA	NM	NA
07-May-14	0.0014	0.05	1.2	NA	NM	NA
26-May-15	NS	NS	NS	NA	NM	NA
12-May-16	NS	NS	NS	426.91	425.10	426.55
07-Sep-17	0.016	0.350	0.96	429.60	423.60	428.40
07-Sep-18	0.013	0.910	2.8	430.70	NM	NM
GCL	0.0046	2.2	1.5	NA	NA	NA

Key:

DRO - diesel range organics

GCL - groundwater cleanup levels

GRO - gasoline range organics

GW - groundwater

mg/L - milligrams per liter

NA - not applicable

NM - not measured

NS - not sampled

NST - Not surveyed at time of monitoring.

U - Undetected above practical quantitation limits.

Density of product assumed 800 kg/m³

Bold, shade indicates concentration exceeds the GCL or, if not detected, the reporting limit exceeds the GCL

italized cells indicate a revision completed in January 2018