



# Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## RCRA FACILITY GROUNDWATER, LEACHATE AND GAS REPORTING FORM

This form must be used as a cover sheet for the notices and reports, identified below as required by: (1) a facility's RCRA interim status closure plan; (2) the RCRA interim status regulations; or (3) a facility's RCRA permit. All reports must be submitted to the Illinois EPA's Bureau of Land Permit Section. This form is for use by Hazardous Waste facilities only. Reporting for Solid Waste facilities should be submitted on a separate form. All reports submitted to the Illinois EPA's Bureau of Land Permit Section must contain an original, plus a minimum of two copies.

**Note: This form is not to be used with permit or closure plan modification requests. The facility's approved permit or closure plan will state whether the document you are submitting is required as a report or a modification request.**

Facility Name: Equilon Enterprises LLC dba Shell Oil Products US

Facility Address: 900 South Central Ave., Roxana, IL 62048

Site ID #: 1191150002 Fed ID #: ILD 080 012 305

Check the appropriate heading. Only one heading may be checked for each corresponding submittal. Check the appropriate sub-heading, where applicable. Attach the original and all copies behind this form.

LPC-160 Forms

Groundwater

Leachate

Quarterly - Enter: 1, 2, 3, or 4

Quarterly - Enter: 1, 2, 3, or 4

Semi-Annual

Semi-Annual

Annual

Annual

Biennial

Biennial

Groundwater Data (without LPC-160 Forms)

3 Quarterly - Enter: 1, 2, 3, or 4  Annual  Semi-Annual  Biennial

Well Construction Information

Well Construction Forms, Boring Logs and/or Abandonment Forms

Well Survey Data (e.g., Stick-up Elevation Data)

Notice of Statistically Significant Evidence of Groundwater Contamination  
(35 Ill. Adm. Code 724.198)

Notice of Exceedence of Groundwater Concentration Limit (35 Ill. Adm. Code 724.199(h))

Notice of Alternate Source or Error in Sampling Analysis or Evaluation of Groundwater  
(35 Ill. Adm. Code 724.199(i))

Gas Monitoring Reports

Other (identify)

August 2023 Monthly Report - Roxana Interim Groundwater Monitoring Program.

Original copy submitted to Springfield. Electronic copies submitted separately directly to Collinsville FOS

(Ali Al-Janabi), Amy Butler, and Visal Poornaka.

September 1, 2023

Ms. Jacqueline M. Cooperider, PE  
Manager, Permit Section  
Illinois Environmental Protection Agency  
Division of Land Pollution Control  
Bureau of Land  
1021 North Grand Avenue East  
Springfield, Illinois 62702

**August 2023 Monthly Report – Roxana Interim Groundwater Monitoring Program**  
**Roxana, Illinois**  
**1191150002 – Madison County**  
**Equilon Enterprises LLC d/b/a Shell Oil Products US**  
**Log No. PS23-032 (RCRA Permit B-43R)**

Dear Ms. Cooperider:

On behalf of Equilon Enterprises LLC d/b/a Shell Oil Products US (Shell), AECOM Technical Services, Inc. (AECOM) is submitting this monthly groundwater gauging report for your review. This report includes information required by Condition 1 of the Illinois Environmental Protection Agency's (IEPA's) letter dated August 1, 2023, which was in response to the July 6, 2023 *Notice of Water Production Well W-85 Damage*.

A virtual meeting was held on August 10, 2023, between IEPA, Shell and AECOM to clarify and discuss the conditions of the IEPA August 1, 2023, letter. A Class 1\* Permit Modification Request dated August 11, 2023 was submitted providing a further discussion of the W-85 damage notification timeline, requesting removal of W-85 from the RCRA Post-Closure Permit (B-43R), and providing a proposal for installation of a new water production well (W-92) as a replacement for W-85. Condition 1 of the IEPA August 1, 2023 letter required monthly gauging and sampling of the groundwater monitoring wells in the Interim Groundwater Monitoring Network and submittal of reports due on the first calendar day of each month until a replacement for W-85 is installed and "capable of operating and contributing to the required combined minimum pumping rate of 3,000 gallons per minute."

**Groundwater Gauging**

The monthly groundwater monitoring well gauging for August 2023 was conducted on August 3 and 4, 2023. This gauging was conducted in accordance with the Interim Groundwater Monitoring Program and the results can be found in **Table 1**. The potentiometric surface observed during the August 2023 gauging event is depicted on **Figure 1**, and indicates an inward gradient with flow toward the WRR groundwater production wells.

Enclosed in **Attachment 1**, for completeness, are copies of the West Fenceline groundwater contour figures (Figures 3b) from the 1<sup>st</sup> Quarter 2023 (prior to shutdown of W-85), 2<sup>nd</sup> Quarter 2023 (about 3 weeks after shutdown of W-85), and preliminary<sup>1</sup> 3<sup>rd</sup> Quarter 2023 (about 3.5 months after shutdown

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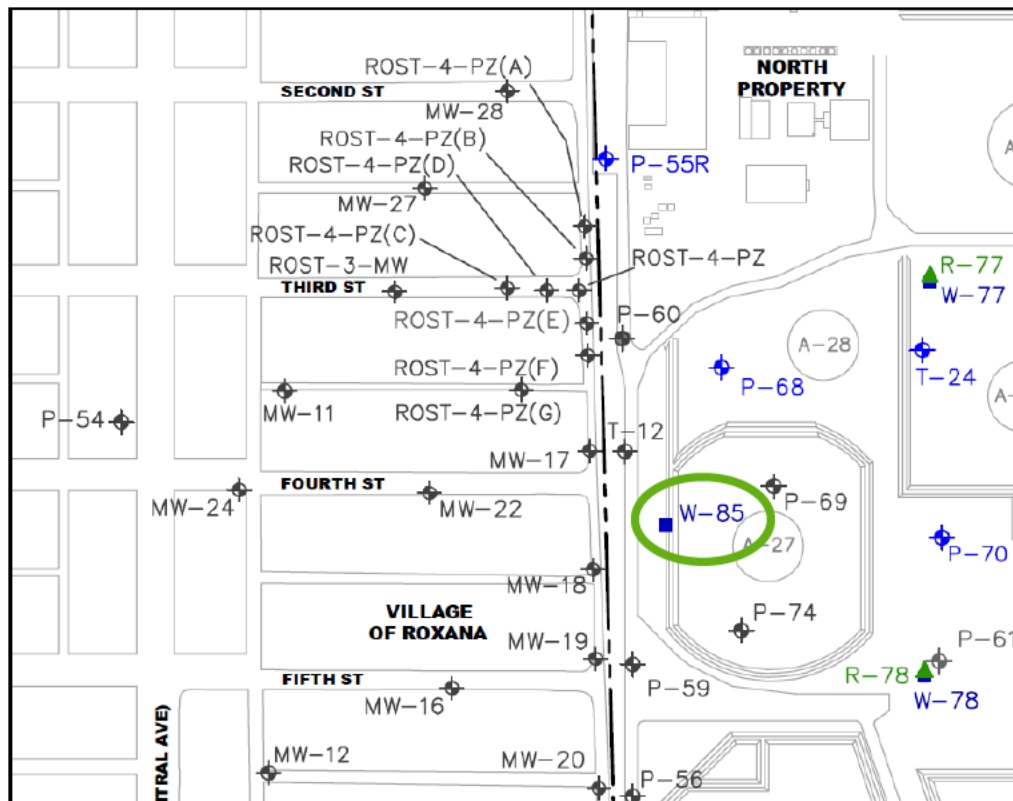
<sup>1</sup> Data and information collected during the 3Q23 groundwater event are still under review and evaluation. Finalized versions will be included in the 3Q23 Roxana Interim Groundwater Monitoring Report.

of W-85) reports. The next round of groundwater monitoring well gauging will be in early September and those results will be included in the next monthly report due on October 1, 2023.

**Groundwater Sampling**

Groundwater monitoring well sampling was performed on July 10 through July 18, 2023, for the 3<sup>rd</sup> Quarter 2023 (3Q23) interim monitoring program event. These analytical data are currently undergoing internal reviews for quality and completeness. The preliminary<sup>2</sup> analytical results from the 3Q23 sampling event can be found in **Table 2**. Preliminary<sup>3</sup> versions of **Figure 6** showing the 3Q23 dissolved phase benzene concentration contours in groundwater, and **Figure 7** showing the cross section of 3Q23 benzene groundwater analytical results along Chaffer Ave are also enclosed. The finalized 3Q23 analytical results and laboratory reports will be included in the 3Q23 Roxana Interim Groundwater Report. For completeness, the table of analytical results from the 3Q22 through 2Q23 quarterly sampling events is enclosed in **Attachment 2**.

The figure below depicts water production well W-85 and the surrounding groundwater monitoring wells.



<sup>2</sup> Data and information collected during the 3Q23 groundwater event are still under review and evaluation. Finalized versions will be included in the 3Q23 Roxana Interim Groundwater Monitoring Report.

<sup>3</sup> Data and information collected during the 3Q23 groundwater event are still under review and evaluation. Finalized versions will be included in the 3Q23 Roxana Interim Groundwater Monitoring Report

The table below summarizes the 3Q23 preliminary benzene analytical results at the sample locations in the figure above as well as the comparability of these results to previous sampling events.

INTERIM WELL ID	*BENZENE (mg/L)	COMPARABILITY
MW-11	<0.0010	Comparable
MW-12	<0.0010	Comparable
MW-16	<0.0010	Comparable
MW-22	0.0076	Comparable
MW-27	<0.0010	Comparable
P-54	<0.0010	Comparable
P-56	<0.0010	Comparable
P-59	0.97	Decrease
P-74	0.42	Increase
ROST-3-MW	<0.0010	Comparable
ROST-4-PZ(C)	0.0022	Comparable
ROST-4-PZ(E)	0.00074 J	Decrease
ROST-4-PZ(G)	<0.0010	Comparable
T-12	1.5	Comparable

\* Results are preliminary and have not yet been fully reviewed for quality or completeness.

Groundwater monitoring well analytical sampling is currently being performed in accordance with the Interim Groundwater Monitoring Program. Due to previously scheduled site activities, staff availability, and timing of the clarification of the monthly requirements, the monthly sampling was not performed in conjunction with the monthly gauging at the beginning of August. The current round of sampling began on August 28, 2023, and is anticipated to be completed on September 6, 2023. The preliminary analytical results from this sampling will be shared in the monthly report that is due on October 1, 2023. The finalized analytical results and laboratory reports from this sampling event will be included in the 3Q23 Roxana Interim Groundwater Report.

The next round of groundwater sampling performed will be during the 4<sup>th</sup> Quarter 2023 groundwater event, which will take place during early to mid-October 2023. The preliminary analytical results from 4Q23 sampling will be shared in the monthly report that is due on November 1, 2023. The finalized

analytical results and analytical reports from the 4Q23 sampling event will be included in the 4Q23 Roxana Interim Groundwater Monitoring Report.

### **Conclusions**

The following conclusions are based on the data and information collected as part of the August monthly event:

- Groundwater level data indicate groundwater flow from the investigation area continues to move toward the groundwater production wells at the WRR.
- Based on the preliminary 3Q23 groundwater analytical data collected in early to mid-July 2023, benzene analytical results are generally comparable to results collected over the last several quarters. Two locations along the West Fenceline [ROST-4-PZ(E) and P-59] showed a decrease in benzene concentrations. One location within the WRR and east of W-85 [P-74] showed a slight increase in benzene concentration [0.42 mg/L in 3Q23 from 0.012 mg/L in 2Q23].

Electronic copies of this submittal are being sent separately directly to Amy Butler, Visal Poornaka and Ali Al-Janabi with the IEPA.

If you have any questions during your review, please contact Leroy Bealer, Shell Senior Program Manager, at [leroy.bealer@shell.com](mailto:leroy.bealer@shell.com) (484-632-7955), or Wendy Pennington at [wendy.pennington@aecom.com](mailto:wendy.pennington@aecom.com) (314-452-8929).

Sincerely,



Mary Massa  
Geologist



Melissa Remiger  
Environmental Scientist



Wendy Pennington, PE  
Project Manager

**Enclosures:** RCRA Facility Groundwater, Leachate and Gas Reporting Form

**Table 1** – Groundwater Monitoring Well Gauging Results

**Table 2** – Preliminary Summary of Groundwater Monitoring Well Analytical Detections and Exceedances (3Q23)

**Figure 1** – Groundwater Contours August 2023 – West Fenceline

**Figure 6** – DRAFT 3Q23 Dissolved Phase Benzene Concentrations in GW

**Figure 7** – DRAFT 3Q23 Cross-Section of Benzene GW Results – Chaffer

**Attachment 1** – Groundwater Contour Figures at the West Fenceline

Groundwater Contours 1Q23-West Fenceline

Groundwater Contours 2Q23-West Fenceline

DRAFT Groundwater Contours 3Q23-West Fenceline

**Attachment 2** – Summary of Groundwater Monitoring Well Analytical Detections and Exceedances (3Q22-2Q23)



**cc:** Leroy Bealer, Shell  
Thomas Morgan, Phillips 66  
Amy Butler, IEPA, Springfield  
Visal Poornaka, IEPA, Springfield  
Ali Al-Janabi, IEPA, Collinsville  
Greensfelder, Hemker & Gale P.C.  
Repositories – Roxana Public Library, website

**TABLE 1  
GROUNDWATER MONITORING WELL GAUGING RESULTS**

WELL ID	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	Comments
<b>MW 01</b>											
3Q22	442.83	7/5/2022	NE	38.89	NA	NA	NA	403.94	394.03 - 384.03 (48.80 - 58.80)	0.0	*
4Q22		10/18/2022	NE	39.75	NA	NA	NA	403.08		0.0	*
1Q23		1/3/2023	NE	40.50	NA	NA	NA	402.33		0.0	*
2Q23		4/3/2023	NE	40.76	NA	NA	NA	402.07		0.0	*
Aug-23		8/3/2023	NE	40.68	NA	NA	NA	402.15		0.0	*
<b>MW 02</b>											
3Q22	443.93	7/5/2022	NE	40.28	NA	NA	NA	403.65	394.06 - 384.06 (49.87 - 59.87)	5.0	*
4Q22		10/17/2022	NE	40.95	NA	NA	NA	402.98		146.7	*
1Q23		1/3/2023	NE	41.74	NA	NA	NA	402.19		154.2	*
2Q23		4/3/2023	NE	42.03	NA	NA	NA	401.90		0.0	*
Aug-23		8/3/2023	NE	41.89	NA	NA	NA	402.04		147.7	*
<b>MW 03</b>											
3Q22	430.23	7/5/2022	NE	25.89	NA	NA	NA	404.34	395.56 - 385.56 (34.67 - 44.67)	0.0	*
4Q22		10/18/2022	NE	27.05	NA	NA	NA	403.18		0.0	*
1Q23		1/3/2023	NE	27.80	NA	NA	NA	402.43		0.0	*
2Q23		4/3/2023	NE	28.03	NA	NA	NA	402.20		0.0	*
Aug-23		8/3/2023	NE	28.00	NA	NA	NA	402.23		0.0	*
<b>MW 04</b>											
3Q22	441.31	7/5/2022	NE	37.29	NA	NA	NA	404.02	396.25 - 386.25 (45.06 - 55.06)	0.0	*
4Q22		10/18/2022	NE	38.20	NA	NA	NA	403.11		0.0	*
1Q23		1/3/2023	NE	38.95	NA	NA	NA	402.36		0.0	*
2Q23		4/3/2023	NE	39.21	NA	NA	NA	402.10		0.0	*
Aug-23		8/3/2023	NE	39.15	NA	NA	NA	402.16		0.0	*
<b>MW 05</b>											
3Q22	429.98	7/6/2022	NE	25.68	NA	NA	NA	404.30	396.01 - 386.01 (33.97 - 43.97)	0.0	*
4Q22		10/18/2022	NE	26.73	NA	NA	NA	403.25		0.0	*
1Q23		1/3/2023	NE	27.48	NA	NA	NA	402.50		0.0	*
2Q23		4/3/2023	NE	27.68	NA	NA	NA	402.30		0.0	*
Aug-23		8/3/2023	NE	27.73	NA	NA	NA	402.25		0.0	*
<b>MW 06A</b>											
3Q22	432.33	7/6/2022	NE	26.86	NA	NA	NA	405.47	398.48 - 388.48 (33.85 - 43.85)	0.0	*
4Q22		10/18/2022	NE	28.94	NA	NA	NA	403.39		0.0	*
1Q23		1/3/2023	NE	29.60	NA	NA	NA	402.73		0.0	*
2Q23		4/3/2023	NE	29.80	NA	NA	NA	402.53		0.0	*
Aug-23		8/3/2023	NE	29.90	NA	NA	NA	402.43		0.0	*
<b>MW 06B</b>											
3Q22	432.37	7/6/2022	NE	27.91	NA	NA	NA	404.46	388.32 - 363.32 (64.05 - 69.05)	0.0	*
4Q22		10/18/2022	NE	28.97	NA	NA	NA	403.40		0.0	*
1Q23		1/3/2023	NE	29.65	NA	NA	NA	402.72		0.0	*
2Q23		4/3/2023	NE	29.85	NA	NA	NA	402.52		0.0	*
Aug-23		8/3/2023	NE	29.95	NA	NA	NA	402.42		0.0	*
<b>MW 06C</b>											
3Q22	432.18	7/6/2022	NE	27.70	NA	NA	NA	404.48	347.23 - 342.23 (84.95 - 89.95)	0.0	*
4Q22		10/18/2022	NE	28.76	NA	NA	NA	403.42		0.0	*
1Q23		1/3/2023	NE	29.44	NA	NA	NA	402.74		0.0	*
2Q23		4/3/2023	NE	29.69	NA	NA	NA	402.49		0.0	*
Aug-23		8/3/2023	NE	29.74	NA	NA	NA	402.44		0.0	*
<b>MW 06D</b>											
3Q22	432.06	7/6/2022	NE	27.54	NA	NA	NA	404.52	327.34 - 322.34 (104.72 - 109.72)	0.0	*
4Q22		10/18/2022	NE	28.62	NA	NA	NA	403.44		0.0	*
1Q23		1/3/2023	NE	29.31	NA	NA	NA	402.75		0.0	*
2Q23		4/3/2023	NE	29.50	NA	NA	NA	402.56		0.0	*
Aug-23		8/3/2023	NE	29.61	NA	NA	NA	402.45		0.0	*
<b>MW 07</b>											
3Q22	443.31	7/5/2022	NE	39.37	NA	NA	NA	403.94	400.39 - 390.39 (42.92 - 52.92)	0.0	*
4Q22		10/17/2022	NE	40.22	NA	NA	NA	403.09		0.0	*
1Q23		1/3/2023	NE	40.98	NA	NA	NA	402.33		0.4	*
2Q23		4/3/2023	NE	41.19	NA	NA	NA	402.12		0.0	*
Aug-23		8/3/2023	NE	41.16	NA	NA	NA	402.15		0.7	*

**TABLE 1  
GROUNDWATER MONITORING WELL GAUGING RESULTS**

WELL ID	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	Comments
<b>MW 09</b>											
3Q22	445.28	7/5/2022	NE	40.73	NA	NA	NA	404.55	399.24 - 389.24 (46.04 - 56.04)	0.0	*
4Q22		10/17/2022	NE	41.33	NA	NA	NA	403.95		0.0	*
1Q23		1/3/2023	NE	42.16	NA	NA	NA	403.12		0.0	*
2Q23		4/3/2023	NE	42.55	NA	NA	NA	402.73		0.0	*
Aug-23		8/3/2023	NE	42.65	NA	NA	NA	402.63		0.0	*
<b>MW 10</b>											
3Q22	445.06	7/5/2022	NE	40.28	NA	NA	NA	404.78	400.63 - 390.63 (44.43 - 54.43)	0.0	*
4Q22		10/17/2022	NE	41.26	NA	NA	NA	403.80		0.0	*
1Q23		1/3/2023	NE	41.99	NA	NA	NA	403.07		0.0	*
2Q23		4/3/2023	NE	42.44	NA	NA	NA	402.62		0.0	*
Aug-23		8/3/2023	NE	42.55	NA	NA	NA	402.51		0.0	*
<b>MW 11</b>											
3Q22	442.38	7/5/2022	NE	38.24	NA	NA	NA	404.14	400.72 - 390.72 (41.66 - 51.66)	0.0	*
4Q22		10/17/2022	NE	38.91	NA	NA	NA	403.47		0.0	*
1Q23		1/3/2023	NE	39.77	NA	NA	NA	402.61		0.1	*
2Q23		4/3/2023	NE	40.03	NA	NA	NA	402.35		0.0	*
Aug-23		8/3/2023	NE	40.05	NA	NA	NA	402.33		0.0	*
<b>MW 12</b>											
3Q22	442.64	7/5/2022	NE	38.60	NA	NA	NA	404.04	400.72 - 390.72 (41.92 - 51.92)	0.0	*
4Q22		10/17/2022	NE	39.36	NA	NA	NA	403.28		0.0	*
1Q23		1/3/2023	NE	40.22	NA	NA	NA	402.42		0.0	*
2Q23		4/3/2023	NE	40.47	NA	NA	NA	402.17		0.0	*
Aug-23		8/3/2023	NE	40.42	NA	NA	NA	402.22		0.0	*
<b>MW 13</b>											
3Q22	430.30	7/6/2022	NE	25.50	NA	NA	NA	404.80	405.50 - 395.50 (24.80 - 34.80)	0.0	*
4Q22		10/18/2022	NE	26.78	NA	NA	NA	403.52		0.0	*
1Q23		1/4/2023	NE	27.80	NA	NA	NA	402.50		0.2	*
2Q23		4/4/2023	NE	27.66	NA	NA	NA	402.64		0.8	*
Aug-23		8/4/2023	NE	27.83	NA	NA	NA	402.47		0.0	*
<b>MW 14</b>											
3Q22	434.61	7/7/2022	NE	30.13	NA	NA	NA	404.48	401.19 - 391.19 (33.42 - 43.42)	16.6	*
4Q22		10/19/2022	NE	30.96	NA	NA	NA	403.65		64.8	*
1Q23		1/4/2023	NE	31.95	NA	NA	NA	402.66		57.6	*
2Q23		4/6/2023	NE	32.32	NA	NA	NA	402.29		43.8	*
Aug-23		8/4/2023	NE	32.12	NA	NA	NA	402.49		6.3	*
<b>MW 16</b>											
3Q22	443.60	7/5/2022	NE	39.85	NA	NA	NA	403.75	406.10 - 396.10 (37.50 - 47.50)	0.0	*
4Q22		10/17/2022	NE	40.46	NA	NA	NA	403.14		0.0	*
1Q23		1/3/2023	NE	41.27	NA	NA	NA	402.33		0.0	*
2Q23		4/3/2023	NE	41.52	NA	NA	NA	402.08		0.0	*
Aug-23		8/3/2023	NE	41.43	NA	NA	NA	402.17		0.0	*
<b>MW 17</b>											
3Q22	441.78	7/5/2022	NE	38.39	NA	NA	NA	403.39	407.49 - 392.49 (34.29 - 49.29)	0.0	*
4Q22		10/17/2022	NE	38.74	NA	NA	NA	403.04		0.1	*
1Q23		1/3/2023	NE	39.44	NA	NA	NA	402.34		0.0	*
2Q23		4/3/2023	NE	39.69	NA	NA	NA	402.09		0.0	*
Aug-23		8/3/2023	NE	39.57	NA	NA	NA	402.21		0.0	*
<b>MW 18</b>											
3Q22	442.24	7/5/2022	NE	38.87	NA	NA	NA	403.37	407.32 - 392.32 (34.92 - 49.92)	0.0	*
4Q22		10/17/2022	NE	39.33	NA	NA	NA	402.91		0.0	*
1Q23		1/3/2023	NE	40.03	NA	NA	NA	402.21		0.0	*
2Q23		4/3/2023	NE	40.25	NA	NA	NA	401.99		0.0	*
Aug-23		8/3/2023	NE	40.13	NA	NA	NA	402.11		0.0	*
<b>MW 19</b>											
3Q22	442.98	7/5/2022	NE	39.54	NA	NA	NA	403.44	406.64 - 391.64 (36.34 - 51.34)	0.0	*
4Q22		10/17/2022	NE	40.01	NA	NA	NA	402.97		0.0	*
1Q23		1/3/2023	NE	40.77	NA	NA	NA	402.21		0.0	*
2Q23		4/3/2023	NE	41.06	NA	NA	NA	401.92		0.0	*
Aug-23		8/3/2023	NE	40.92	NA	NA	NA	402.06		0.0	*



**TABLE 1  
GROUNDWATER MONITORING WELL GAUGING RESULTS**

WELL ID	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	Comments
<b>MW 20</b>											
3Q22	443.86	7/5/2022	NE	40.36	NA	NA	NA	403.50	407.98 - 392.98 (35.88 - 50.88)	0.0	
4Q22		10/17/2022	NE	40.92	NA	NA	NA	402.94		0.8	
1Q23		1/3/2023	NE	41.70	NA	NA	NA	402.16		0.0	
2Q23		4/3/2023	NE	42.01	NA	NA	NA	401.85		0.0	
Aug-23		8/3/2023	NE	41.86	NA	NA	NA	402.00		0.0	
<b>MW 21</b>											
3Q22	444.01	7/5/2022	NE	40.31	NA	NA	NA	403.70	409.00 - 394.00 (35.01 - 50.01)	0.0	
4Q22		10/17/2022	NE	41.04	NA	NA	NA	402.97		0.0	
1Q23		1/3/2023	NE	41.80	NA	NA	NA	402.21		0.0	
2Q23		4/3/2023	NE	42.02	NA	NA	NA	401.99		0.0	
Aug-23		8/3/2023	NE	41.97	NA	NA	NA	402.04		0.0	
<b>MW 22</b>											
3Q22	442.38	7/5/2022	NE	38.56	NA	NA	NA	403.82	403.95 - 393.95 (38.43 - 48.43)	0.0	
4Q22		10/17/2022	NE	39.12	NA	NA	NA	403.26		0.1	
1Q23		1/3/2023	NE	39.93	NA	NA	NA	402.45		0.0	
2Q23		4/3/2023	NE	40.21	NA	NA	NA	402.17		0.0	
Aug-23		8/3/2023	NE	40.14	NA	NA	NA	402.24		0.0	
<b>MW 23</b>											
3Q22	431.57	7/6/2022	NE	26.94	NA	NA	NA	404.63	402.55 - 392.55 (29.02 - 39.02)	0.0	*
4Q22		10/18/2022	NE	28.26	NA	NA	NA	403.31		0.0	*
1Q23		1/3/2023	NE	29.06	NA	NA	NA	402.51		0.0	
2Q23		4/3/2023	NE	29.17	NA	NA	NA	402.40		0.0	
Aug-23		8/3/2023	NE	29.25	NA	NA	NA	402.32		0.0	
<b>MW 24</b>											
3Q22	443.65	7/7/2022	NE	39.55	NA	NA	NA	404.10	404.04 - 394.04 (39.61 - 49.61)	0.0	*
4Q22		10/17/2022	NE	40.22	NA	NA	NA	403.43		0.0	
1Q23		1/3/2023	NE	41.07	NA	NA	NA	402.58		0.0	
2Q23		4/3/2023	NE	41.36	NA	NA	NA	402.29		0.0	
Aug-23		8/3/2023	NE	41.31	NA	NA	NA	402.34		0.0	
<b>MW 25</b>											
3Q22	438.53	7/5/2022	NE	34.41	NA	NA	NA	404.12	402.94 - 392.94 (35.59 - 45.59)	8.9	*
4Q22		10/18/2022	NE	35.38	NA	NA	NA	403.15		93.3	*
1Q23		1/3/2023	NE	36.12	NA	NA	NA	402.41		98.6	
2Q23		4/3/2023	NE	36.35	NA	NA	NA	402.18		0.0	
Aug-23		8/3/2023	NE	36.33	NA	NA	NA	402.20		26.4	
<b>MW 26</b>											
3Q22	441.23	NM	NM	NM	NA	NA	NA	NA	403.08 - 393.08 (38.15 - 48.15)	NM	Inaccessible due to parked vehicle.
4Q22		10/18/2022	NE	38.13	NA	NA	NA	403.10		0.0	*
1Q23		1/3/2023	NE	38.85	NA	NA	NA	402.38		0.0	
2Q23		4/3/2023	NE	39.14	NA	NA	NA	402.09		0.0	
Aug-23		8/3/2023	NE	39.06	NA	NA	NA	402.17		0.0	
<b>MW 27</b>											
3Q22	443.60	7/5/2022	NE	39.08	NA	NA	NA	404.52	403.81 - 393.81 (39.79 - 49.79)	0.0	*
4Q22		10/17/2022	NE	39.08	NA	NA	NA	404.52		0.0	*
1Q23		1/3/2023	NE	39.86	NA	NA	NA	403.74		0.0	
2Q23		4/3/2023	NE	40.57	NA	NA	NA	403.03		0.0	
Aug-23		8/3/2023	NE	40.38	NA	NA	NA	403.22		0.0	
<b>MW 28</b>											
3Q22	443.55	7/5/2022	NE	38.27	NA	NA	NA	405.28	409.94 - 399.94 (33.61 - 43.61)	0.0	
4Q22		10/17/2022	NE	38.32	NA	NA	NA	405.23		0.0	
1Q23		1/3/2023	NE	39.08	NA	NA	NA	404.47		0.0	
2Q23		4/3/2023	NE	39.68	NA	NA	NA	403.87		0.0	
Aug-23		8/3/2023	NE	39.72	NA	NA	NA	403.83		0.0	
<b>P 53</b>											
3Q22	446.57	7/6/2022	NE	38.27	NA	NA	NA	408.30	406.26 - 381.26 (40.31 - 65.31)	0.0	*
4Q22		10/17/2022	NE	40.91	NA	NA	NA	405.66		0.0	
1Q23		1/3/2023	NE	41.53	NA	NA	NA	405.04		0.0	
2Q23		4/3/2023	NE	42.16	NA	NA	NA	404.41		0.0	
Aug-23		8/3/2023	NE	42.61	NA	NA	NA	403.96		0.0	

**TABLE 1  
GROUNDWATER MONITORING WELL GAUGING RESULTS**

WELL ID	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	Comments	
<b>P 54</b>												
3Q22	442.52	7/5/2022	NE	38.19	NA	NA	NA	404.33	404.52 - 379.52 (38.00 - 63.00)	0.0		
4Q22		10/17/2022	NE	38.98	NA	NA	NA	403.54		0.0		
1Q23		1/3/2023	NE	39.87	NA	NA	NA	402.65		0.0		
2Q23		4/3/2023	NE	40.13	NA	NA	NA	402.39		0.0		
Aug-23		8/3/2023	NE	40.11	NA	NA	NA	402.41		0.0		
<b>P 55R</b>												
3Q22	444.01	7/5/2022		38.60	38.69	405.32	405.41	0.09	403.58 - 393.58 (40.43 - 50.43)	197.6	*	
4Q22		10/17/2022		38.75	38.83	405.18	405.26	0.08		405.24	146.2	*
1Q23		1/3/2023		39.47	39.55	404.46	404.54	0.08		404.52	112.9	*
2Q23		4/3/2023		40.00	40.11	403.90	404.01	0.11		403.99	104.6	*
Aug-23		8/4/2023		40.07	40.09	403.92	403.94	0.02		403.94	69.2	*
<b>P 56</b>												
3Q22	446.32	7/5/2022	NE	42.88	NA	NA	NA	403.44	405.50 - 380.50 (40.82 - 65.82)	258.7		
4Q22		10/17/2022	NE	43.39	NA	NA	NA	402.93		123.9		
1Q23		1/3/2023	NE	44.19	NA	NA	NA	402.13		9.0		
2Q23		4/3/2023	NE	44.46	NA	NA	NA	401.86		5.7		
Aug-23		8/4/2023	NE	44.35	NA	NA	NA	401.97		0.0		
<b>P 57</b>												
3Q22	447.15	7/5/2022	NE	43.53	NA	NA	NA	403.62	402.96 - 392.96 (44.19 - 54.19)	125.8	*	
4Q22		10/17/2022	NE	44.21	NA	NA	NA	402.94		113.2		
1Q23		1/3/2023	NE	44.94	NA	NA	NA	402.21		72.7		
2Q23		4/3/2023	NE	45.22	NA	NA	NA	401.93		22.9		
Aug-23		8/4/2023	NE	45.16	NA	NA	NA	401.99		0.0		
<b>P 58</b>												
3Q22	445.16	7/5/2022	NE	41.33	NA	NA	NA	403.83	404.95 - 379.95 (40.21 - 65.21)	2.0		
4Q22		10/17/2022		42.13	42.18	402.98	403.03	0.05		403.02	0.1	
1Q23		1/3/2023		42.82	42.83	402.33	402.34	0.01		402.34	0.1	
2Q23		4/3/2023		43.06	43.06	NA	NA	NA		402.10	3.0	
Aug-23		8/4/2023		43.07	43.08	402.08	402.09	0.01		402.09	0.0	
<b>P 59</b>												
3Q22	447.07	7/5/2022	NE	43.73	NA	NA	NA	403.34	399.16 - 374.16 (47.91 - 72.91)	349.5	*	
4Q22		10/17/2022	NE	44.18	NA	NA	NA	402.89		182.8	*	
1Q23		1/3/2023	NE	44.96	NA	NA	NA	402.11		132.6	*	
2Q23		4/3/2023	NE	45.18	NA	NA	NA	401.89		201.2	*	
Aug-23		8/4/2023	NE	45.06	NA	NA	NA	402.01		180.4	*	
<b>P 60</b>												
3Q22	446.88	7/5/2022	NE	43.29	NA	NA	NA	403.59	402.23 - 382.23 (44.65 - 64.65)	0.5	*	
4Q22		10/17/2022	NE	43.68	NA	NA	NA	403.20		1.4	*	
1Q23		1/3/2023	NE	44.46	NA	NA	NA	402.42		5.1	*	
2Q23		4/3/2023	NE	44.72	NA	NA	NA	402.16		0.1		
Aug-23		8/4/2023	NE	44.76	NA	NA	NA	402.12		0.0		
<b>P 66</b>												
3Q22	437.00	7/7/2022		33.00	33.01	403.99	404.00	0.01	402.28 - 377.28 (34.72 - 59.72)	42.6	*	
4Q22		10/19/2022		33.56	34.58	402.42	403.44	1.02		403.24	103.5	*
1Q23		1/4/2023		34.39	35.91	401.09	402.61	1.52		402.31	159.8	*
2Q23		4/6/2023		34.79	36.21	400.79	402.21	1.42		401.93	58.9	
Aug-23		8/4/2023		34.61	35.70	401.3	402.39	1.09		402.17	109.2	
<b>P 68</b>												
3Q22	445.38	7/7/2022		41.93	42.05	403.33	403.45	0.12	401.62 - 376.62 (43.76 - 68.76)	396.7	*	
4Q22		10/17/2022		42.24	42.28	403.10	403.14	0.04		403.13	172.8	*
1Q23		1/3/2023		42.97	43.03	402.35	402.41	0.06		402.40	86.2	*
2Q23		4/3/2023		43.25	43.36	402.02	402.13	0.11		402.11	146.2	*
Aug-23		8/4/2023		43.25	43.31	402.07	402.13	0.06		402.12	164.6	*
<b>P 74</b>												
3Q22	442.93	7/6/2022	NE	39.87	NA	NA	NA	403.06	399.10 - 374.10 (43.83 - 68.83)	0.3	*	
4Q22		10/17/2022	NE	40.19	NA	NA	NA	402.74		1.1	*	
1Q23		1/3/2023	NE	40.54	NA	NA	NA	402.39		0.0	*	
2Q23		4/3/2023	NE	41.16	NA	NA	NA	401.77		0.0	*	
Aug-23		8/4/2023	NE	41.02	NA	NA	NA	401.91		8.8	*	

**TABLE 1  
GROUNDWATER MONITORING WELL GAUGING RESULTS**

WELL ID	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft bloc)	DEPTH TO WATER (ft bloc)	WATER PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft bloc)	WELL HEAD PID (ppm)	Comments
<b>P 93A</b>											
3Q22	445.37	7/5/2022	NE	41.68	NA	NA	NA	403.69	402.30 - 392.30 (43.07 - 53.07)	0.0	*
4Q22		10/17/2022	NE	42.40	NA	NA	NA	402.97		0.0	*
1Q23		1/3/2023	NE	43.13	NA	NA	NA	402.24		0.0	
2Q23		4/3/2023	NE	43.38	NA	NA	NA	401.99		0.0	
Aug-23		8/4/2023	NE	43.35	NA	NA	NA	402.02		0.0	
<b>P 93B</b>											
3Q22	446.70	7/5/2022	NE	43.05	NA	NA	NA	403.65	371.92 - 369.92 (74.78 - 76.78)	0.0	*
4Q22		10/17/2022	NE	43.75	NA	NA	NA	402.95		0.1	*
1Q23		1/3/2023	NE	44.47	NA	NA	NA	402.23		0.0	*
2Q23		4/3/2023	NE	44.74	NA	NA	NA	401.96		0.0	*
Aug-23		8/4/2023	NE	44.70	NA	NA	NA	402.00		0.0	*
<b>P 93C</b>											
3Q22	446.55	7/5/2022	NE	42.88	NA	NA	NA	403.67	353.67 - 348.67 (92.88 - 97.88)	0.0	*
4Q22		10/17/2022	NE	43.58	NA	NA	NA	402.97		0.0	*
1Q23		1/3/2023	NE	44.31	NA	NA	NA	402.24		0.0	*
2Q23		4/3/2023	NE	44.57	NA	NA	NA	401.98		0.0	*
Aug-23		8/4/2023	NE	44.55	NA	NA	NA	402.00		0.0	*
<b>P 93D</b>											
3Q22	446.97	7/5/2022	NE	43.23	NA	NA	NA	403.74	321.31 - 319.31 (125.66 - 127.66)	0.0	*
4Q22		10/17/2022	NE	43.93	NA	NA	NA	403.04		0.1	*
1Q23		1/3/2023	NE	44.67	NA	NA	NA	402.30		0.0	*
2Q23		4/3/2023	NE	44.92	NA	NA	NA	402.05		0.0	*
Aug-23		8/4/2023	NE	44.90	NA	NA	NA	402.07		0.0	*
<b>P 114R</b>											
3Q22	429.48	7/6/2022	NE	24.25	NA	NA	NA	405.23	406.47 - 396.47 (23.01 - 33.01)	6.2	
4Q22		10/18/2022	NE	25.94	NA	NA	NA	403.54		0.0	
1Q23		1/4/2023	NE	27.07	NA	NA	NA	402.41		0.0	
2Q23		4/4/2023	NE	26.72	NA	NA	NA	402.76		21.8	
Aug-23		8/4/2023	NE	27.00	NA	NA	NA	402.48		0.0	
<b>ROST 3 MW</b>											
3Q22	442.52	7/5/2022	NE	38.43	NA	NA	NA	404.09	404.71 - 394.71 (37.81 - 47.81)	75.6	
4Q22		10/17/2022	NE	38.93	NA	NA	NA	403.59		8.8	
1Q23		1/3/2023	NE	39.77	NA	NA	NA	402.75		361.7	
2Q23		4/3/2023	NE	40.11	NA	NA	NA	402.41		0.0	
Aug-23		8/3/2023	NE	40.10	NA	NA	NA	402.42		0.0	
<b>ROST 4 PZ</b>											
3Q22	442.15	7/5/2022	NE	37.93	NA	NA	NA	404.22	407.22 - 397.22 (34.93 - 44.93)	0.0	
4Q22		10/17/2022	NE	37.93	NA	NA	NA	404.22		0.0	
1Q23		1/3/2023	NE	38.58	NA	NA	NA	403.57		0.3	
2Q23		4/3/2023	NE	39.30	NA	NA	NA	402.85		0.0	
Aug-23		8/3/2023	NE	39.19	NA	NA	NA	402.96		0.0	
<b>ROST 4 PZ(A)</b>											
3Q22	442.15	7/5/2022	NE	36.96	NA	NA	NA	405.19	407.38 - 397.38 (34.77 - 44.77)	0.0	
4Q22		10/17/2022	NE	36.75	NA	NA	NA	405.40		0.0	
1Q23		1/3/2023	NE	37.89	NA	NA	NA	404.26		0.0	
2Q23		4/3/2023	NE	38.75	NA	NA	NA	403.40		0.0	
Aug-23		8/3/2023	NE	38.63	NA	NA	NA	403.52		0.0	
<b>ROST 4 PZ(B)</b>											
3Q22	442.40	7/5/2022	NE	37.89	NA	NA	NA	404.51	407.35 - 397.35 (35.05 - 45.05)	0.0	
4Q22		10/17/2022	NE	37.75	NA	NA	NA	404.65		0.0	
1Q23		1/3/2023	NE	38.54	NA	NA	NA	403.86		0.0	
2Q23		4/3/2023	NE	39.34	NA	NA	NA	403.06		0.0	
Aug-23		8/3/2023	NE	39.20	NA	NA	NA	403.20		0.0	
<b>ROST 4 PZ(C)</b>											
3Q22	442.97	7/5/2022	NE	38.81	NA	NA	NA	404.16	408.02 - 398.02 (34.95 - 44.95)	0.0	
4Q22		10/18/2022	NE	39.03	NA	NA	NA	403.94		0.0	
1Q23		1/3/2023	NE	39.65	NA	NA	NA	403.32		0.0	
2Q23		4/3/2023	NE	40.29	NA	NA	NA	402.68		0.0	
Aug-23		8/3/2023	NE	40.21	NA	NA	NA	402.76		0.0	

**TABLE 1  
GROUNDWATER MONITORING WELL GAUGING RESULTS**

WELL ID	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	Comments
<b>ROST 4 PZ(D)</b>											
3Q22	442.92	7/5/2022	NE	38.65	NA	NA	NA	404.27	407.95 - 397.95 (34.97 - 44.97)	0.0	
4Q22		10/17/2022	NE	38.77	NA	NA	NA	404.15		0.0	
1Q23		1/3/2023	NE	39.44	NA	NA	NA	403.48		0.1	
2Q23		4/3/2023	NE	40.07	NA	NA	NA	402.85		0.0	
Aug-23		8/3/2023	NE	40.01	NA	NA	NA	402.91		0.0	
<b>ROST 4 PZ(E)</b>											
3Q22	441.98	7/5/2022	NE	37.82	NA	NA	NA	404.16	407.23 - 397.23 (34.75 - 44.75)	0.0	
4Q22		10/17/2022	NE	37.95	NA	NA	NA	404.03		0.0	
1Q23		1/3/2023	NE	38.51	NA	NA	NA	403.47		0.0	
2Q23		4/3/2023	NE	39.14	NA	NA	NA	402.84		0.0	
Aug-23		8/3/2023	NE	39.03	NA	NA	NA	402.95		0.0	
<b>ROST 4 PZ(F)</b>											
3Q22	442.12	7/5/2022	NE	38.09	NA	NA	NA	404.03	407.59 - 397.59 (34.53 - 44.53)	0.0	
4Q22		10/17/2022	NE	38.09	NA	NA	NA	404.03		0.0	
1Q23		1/3/2023	NE	38.73	NA	NA	NA	403.39		0.0	
2Q23		4/3/2023	NE	39.23	NA	NA	NA	402.89		0.0	
Aug-23		8/3/2023	NE	39.11	NA	NA	NA	403.01		0.0	
<b>ROST 4 PZ(G)</b>											
3Q22	442.20	7/5/2022	NE	38.46	NA	NA	NA	403.74	407.92 - 397.92 (34.28 - 44.28)	0.0	
4Q22		10/17/2022	NE	38.68	NA	NA	NA	403.52		0.0	
1Q23		1/3/2023	NE	39.74	NA	NA	NA	402.46		0.2	
2Q23		4/3/2023	NE	40.00	NA	NA	NA	402.20		0.0	
Aug-23		8/3/2023	NE	39.96	NA	NA	NA	402.24		0.0	
<b>T 1</b>											
3Q22	445.61	7/5/2022	NE	41.22	NA	NA	NA	404.39	398.61 - 388.61 (47.00 - 57.00)	0.3	
4Q22		10/17/2022	NE	41.58	NA	NA	NA	404.03		0.1	
1Q23		1/3/2023	NE	42.33	NA	NA	NA	403.28		0.0	
2Q23		4/3/2023	NE	42.80	NA	NA	NA	402.81		0.0	
Aug-23		8/4/2023	NE	42.99	NA	NA	NA	402.62		0.0	*
<b>T 6</b>											
3Q22	446.78	7/5/2022	NE	43.23	NA	NA	NA	403.55	394.27 - 380.02 (52.51 - 66.76)	0.0	
4Q22		10/17/2022	NE	43.87	NA	NA	NA	402.91		1.5	
1Q23		1/3/2023	NE	44.59	NA	NA	NA	402.19		0.1	
2Q23		4/3/2023	NE	44.90	NA	NA	NA	401.88		0.0	
Aug-23		8/4/2023	NE	44.84	NA	NA	NA	401.94		0.5	*
<b>T 12</b>											
3Q22	444.99	7/5/2022	NE	41.64	NA	NA	NA	403.35	398.16 - 372.16 (46.83 - 72.83)	5.7	
4Q22		10/17/2022	NE	42.03	NA	NA	NA	402.96		0.2	
1Q23		1/3/2023	NE	42.75	NA	NA	NA	402.24		3.9	
2Q23		4/3/2023	NE	42.93	NA	NA	NA	402.06		0.0	
Aug-23		8/4/2023	NE	42.90	NA	NA	NA	402.09		0.0	*
<b>T 13</b>											
3Q22	443.76	7/5/2022	NE	39.10	NA	NA	NA	404.66	399.95 - 373.95 (43.81 - 69.81)	0.0	
4Q22		10/17/2022	NE	39.51	NA	NA	NA	404.25		0.0	
1Q23		1/3/2023	NE	40.20	NA	NA	NA	403.56		0.0	
2Q23		4/3/2023	NE	40.76	NA	NA	NA	403.00		0.0	
Aug-23		8/3/2023	NE	40.93	NA	NA	NA	402.83		0.0	*

**NOTES:**

- Elevations presented in this table are relative to the 1988 NAVD datum.
- The corrected water level elevations presented in this table were corrected by a specific gravity of 0.80 for the wells in which LNAPL was identified.
- PID values measured with a 10.6 electron volt (eV) lamp photoionization detector.
- btoc Below Top of Casing; ppm parts per million; NA Not Applicable; NE Not Encountered; NM Not Measured
- \* Indicates that the LNAPL and/or water level is above the top of the screened zone of the well.
- Table includes comprehensive groundwater monitoring well gauging data for the last 4 quarters from the Village of Roxana Interim Groundwater Monitoring Program.
- The screened interval for certain monitoring wells was adjusted based on an evaluation of the results of annual bottom depth gauging conducted in the first quarter of each year.
- Top of casing and screened interval for the groundwater monitoring wells in the Roxana Interim Groundwater Monitoring Program and the WRR Program were adjusted based on surveying conducted in 2Q19, in accordance with Permit Condition IV.J.9, which requires wells be surveyed every five (5) years.

**TABLE 2**  
**SUMMARY OF GROUNDWATER MONITORING WELL**  
**ANALYTICAL DETECTIONS AND EXCEEDANCES**

**PRELIMINARY**

			VOCs											
Screening Values (mg/L)			Acetone	Benzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Cymene (p-isopropyltoluene)	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether (MTBE)	Naphthalene
Location	Sample ID	Sample Date	6.3 <sup>1</sup>	0.005 <sup>1</sup>	4.2 <sup>1</sup>	0.35 <sup>3</sup>	0.7 <sup>3</sup>	0.7 <sup>3</sup>		0.07 <sup>1</sup>	0.7	0.7 <sup>1</sup>	0.7 <sup>1</sup>	0.07 <sup>1</sup>
			Analytical Results (mg/L)											
MW-01	MW1-ROX-071023	7/10/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
MW-02	MW2-ROX-071823	7/18/2023	<b>0.02 J</b>	<b>0.0017</b>	<b>0.01 J</b>	<b>0.0045</b>	<b>0.0032</b>	< 0.0010	<b>0.0032</b>	< 0.0010	<b>0.19</b>	<b>0.042</b>	< 0.0010	<b>0.03</b>
MW-03	MW3-ROX-071023	7/10/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<b>0.0010</b>	< 0.0050
MW-04	MW4-ROX-071323	7/13/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
MW-05	MW5-ROX-071723	7/17/2023	< 0.025	<b>0.0030</b>	< 0.025	< 0.0010	< 0.0010	<b>0.00098 J</b>	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<b>0.0025</b>	< 0.0050
MW-06A	MW6A-ROX-071123	7/11/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<b>0.00031 J</b>	< 0.0050
MW-06B	MW6B-ROX-071123	7/11/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<b>0.00034 J</b>	< 0.0050
	MW6B-ROX-071123-DUP	7/11/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<b>0.00031 J</b>	< 0.0050
MW-06C	MW6C-ROX-071123	7/11/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
MW-06D	MW6D-ROX-071223	7/12/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
MW-07	MW7-ROX-071323	7/13/2023	< 130	<b>490</b>	< 130	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25
	MW7-ROX-071323-DUP	7/13/2023	< 130	<b>490</b>	< 130	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25
MW-09	MW9-ROX-071823	7/18/2023	< 0.025	<b>0.0038</b>	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
MW-10	MW10-ROX-071823	7/18/2023	< 0.025	<b>0.00063 J</b>	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
MW-11	MW11-ROX-071223	7/12/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
MW-12	MW12-ROX-071223	7/12/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
MW-13	MW13-ROX-071423	7/14/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<b>0.0011</b>	< 0.0050
MW-14	MW14-ROX-071723	7/17/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
MW-16	MW16-ROX-071123	7/11/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
MW-22	MW22-ROX-071323	7/13/2023	<b>0.023 J</b>	<b>0.0076</b>	< 0.05	<b>0.0019 J J</b>	< 0.0020	<b>0.0025</b>	< 0.0020	< 0.0020	<b>0.031</b>	<b>0.013</b>	< 0.0020	<b>0.043</b>
MW-23	MW23-ROX-071423	7/14/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<b>0.00023 J</b>	< 0.0010	< 0.0010	<b>0.00090 J</b>
MW-24	MW24-ROX-071023	7/10/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
MW-25	MW25-ROX-071323	7/13/2023	<b>0.062</b>	<b>0.027</b>	<b>0.0058 J</b>	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
MW-26	MW26-ROX-071023	7/10/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
MW-27	MW27-ROX-071823	7/18/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
MW-28	MW28-ROX-071223	7/12/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<b>0.0011</b>	< 0.0050
P-54	P54-ROX-071223	7/12/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
P-56	P56-ROX-071023	7/10/2023	<b>0.031</b>	< 0.0010	<b>0.0057 J</b>	<b>0.00098 J J</b>	<b>0.0020</b>	< 0.0010	<b>0.0010</b>	< 0.0010	<b>0.00083 J</b>	<b>0.016</b>	< 0.0010	< 0.0050

**TABLE 2  
SUMMARY OF GROUNDWATER MONITORING WELL  
ANALYTICAL DETECTIONS AND EXCEEDANCES**

**PRELIMINARY**

			VOCs											
Screening Values (mg/L)			Acetone	Benzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Cymene (p-isopropyltoluene)	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether (MTBE)	Naphthalene
Screening Values (mg/L)			6.3 <sup>1</sup>	0.005 <sup>1</sup>	4.2 <sup>1</sup>	0.35 <sup>3</sup>	0.7 <sup>3</sup>	0.7 <sup>3</sup>		0.07 <sup>1</sup>	0.7	0.7 <sup>1</sup>	0.7 <sup>1</sup>	0.07 <sup>1</sup>
Location	Sample ID	Sample Date	Analytical Results (mg/L)											
P-57	P57-ROX-071323	7/13/2023	< 0.05	0.21 J	0.0057 J	0.0050	0.0075	0.0085	< 0.0020	< 0.0020	0.0028	0.032	< 0.0020	0.023
	P57-ROX-071323-DUP	7/13/2023	< 0.05	0.4 J	< 0.05	0.0056	0.0090	0.01	< 0.0020	< 0.0020	0.0044	0.038	< 0.0020	0.041
P-58	P58-ROX-071823	7/18/2023	< 25	220	< 25	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
	P58-ROX-071823-DUP	7/18/2023	< 25	250	< 25	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
P-59	P59-ROX-071823	7/18/2023	0.15	0.97	< 0.13	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.038	0.017	< 0.0050	0.029
P-74	P74-ROX-071223	7/12/2023	0.025	0.42	0.0038 J	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0019	< 0.0010	0.0036	< 0.0050
P-93A	P93A-ROX-071123	7/11/2023	< 0.025	0.0053	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
P-93B	P93B-ROX-071823	7/18/2023	< 25 UJ	1200	< 25 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 5 UJ
P-93C	P93C-ROX-071423	7/14/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0028	< 0.0050
P-93D	P93D-ROX-071123	7/11/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.00072 J	< 0.0050
P-114R	P114R-ROX-071423	7/14/2023	0.013 J	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0018	< 0.0050
ROST-3-MW	ROST3MW-ROX-071723	7/17/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
	ROST3MW-ROX-071723-DUP	7/17/2023	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
ROST-4-PZ(C)	ROST4PZC-ROX-071123	7/11/2023	< 0.025	0.0022	0.016 J	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0020	0.0030	< 0.0010	0.035
ROST-4-PZ(E)	ROST4PZ(E)-ROX-071223	7/12/2023	< 0.025	0.00074 J	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0046	0.00089 J	< 0.0010	0.0058
ROST-4-PZ(G)	ROST4PZ(G)-ROX-071023	7/10/2023	0.011 J	< 0.0010	0.0030 J	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050
T-12	T12-ROX-071423	7/14/2023	< 0.25	1.5	< 0.25	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.011	0.0077 J	< 0.01	< 0.05

**TABLE 2  
SUMMARY OF GROUNDWATER MONITORING WELL  
ANALYTICAL DETECTIONS AND EXCEEDANCES**

**PRELIMINARY**

			VOCs							SVOCs				
			n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylenes	o-Xylenes	Xylenes (total)	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene
Screening Values (mg/L)			0.14 <sup>1</sup>	0.7 <sup>3</sup>	0.07 <sup>3</sup>	0.07 <sup>3</sup>	10 <sup>1</sup>		10 <sup>1</sup>	0.42 <sup>1</sup>	2.1 <sup>1</sup>	0.00013 <sup>1</sup>	0.0002 <sup>1</sup>	0.00018 <sup>1</sup>
Location	Sample ID	Sample Date	Analytical Results (mg/L)											
MW-01	MW1-ROX-071023	7/10/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-02	MW2-ROX-071823	7/18/2023	0.056	0.0037	0.032	0.026	0.1	0.0088	0.11	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-03	MW3-ROX-071023	7/10/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-04	MW4-ROX-071323	7/13/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
MW-05	MW5-ROX-071723	7/17/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
MW-06A	MW6A-ROX-071123	7/11/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020 H UJ
MW-06B	MW6B-ROX-071123	7/11/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00021	< 0.00021	< 0.00021 H UJ	< 0.00021	< 0.00021 H UJ
	MW6B-ROX-071123-DUP	7/11/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
MW-06C	MW6C-ROX-071123	7/11/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-06D	MW6D-ROX-071223	7/12/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-07	MW7-ROX-071323	7/13/2023	< 5	< 5	< 5	< 5	< 25	< 25	< 50	0.00016 J	0.000055 J	< 0.00021	< 0.00021	< 0.00021
	MW7-ROX-071323-DUP	7/13/2023	< 5	< 5	< 5	< 5	< 25	< 25	< 50	< 0.00020	0.000049 J	< 0.00020	< 0.00020	< 0.00020
MW-09	MW9-ROX-071823	7/18/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-10	MW10-ROX-071823	7/18/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-11	MW11-ROX-071223	7/12/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-12	MW12-ROX-071223	7/12/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-13	MW13-ROX-071423	7/14/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00099 UJ	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-14	MW14-ROX-071723	7/17/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00022 UJ	< 0.00022 UJ	< 0.00022 UJ	< 0.00022 UJ	< 0.00022 UJ
MW-16	MW16-ROX-071123	7/11/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-22	MW22-ROX-071323	7/13/2023	0.023	0.0093	0.071	0.029	0.17	0.0065 J	0.17	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-23	MW23-ROX-071423	7/14/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-24	MW24-ROX-071023	7/10/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-25	MW25-ROX-071323	7/13/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
MW-26	MW26-ROX-071023	7/10/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
MW-27	MW27-ROX-071823	7/18/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
MW-28	MW28-ROX-071223	7/12/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
P-54	P54-ROX-071223	7/12/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
P-56	P56-ROX-071023	7/10/2023	0.019	0.0014	0.021	0.0068	0.039	0.0011 J	0.04	0.00044	0.000091 J	< 0.00020	< 0.00020	< 0.00020

**TABLE 2  
SUMMARY OF GROUNDWATER MONITORING WELL  
ANALYTICAL DETECTIONS AND EXCEEDANCES**

**PRELIMINARY**

			VOCs						SVOCs					
			n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylenes	o-Xylenes	Xylenes (total)	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene
Screening Values (mg/L)			0.14 <sup>1</sup>	0.7 <sup>3</sup>	0.07 <sup>3</sup>	0.07 <sup>3</sup>	10 <sup>1</sup>		10 <sup>1</sup>	0.42 <sup>1</sup>	2.1 <sup>1</sup>	0.00013 <sup>1</sup>	0.0002 <sup>1</sup>	0.00018 <sup>1</sup>
Location	Sample ID	Sample Date	Analytical Results (mg/L)											
P-57	P57-ROX-071323	7/13/2023	0.042	0.0044	< 0.0020	< 0.0020	0.0015 J	< 0.01	< 0.02	0.00021 J	< 0.00022	< 0.00022	< 0.00022	< 0.00022
	P57-ROX-071323-DUP	7/13/2023	0.05	0.0057	< 0.0020	< 0.0020	0.0019 J	< 0.01	< 0.02	0.00022	< 0.00020	< 0.00020	< 0.00020	< 0.00020
P-58	P58-ROX-071823	7/18/2023	< 1	< 1	< 1	< 1	< 5	< 5	< 10	0.00062	0.00019 J	0.00014 J	0.000099 J	0.000053 J
	P58-ROX-071823-DUP	7/18/2023	< 1	< 1	< 1	< 1	< 5	< 5	< 10	0.00053	0.000097 J	0.000065 J	< 0.00020	< 0.00020
P-59	P59-ROX-071823	7/18/2023	0.023	0.043	0.0090	0.0095	0.052	< 0.025	0.054	0.00039	< 0.00020	0.000091 J	< 0.00020	< 0.00020
P-74	P74-ROX-071223	7/12/2023	< 0.0010	0.0040	0.0016	< 0.0010	0.0064	0.00068 J	0.0071 J	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
P-93A	P93A-ROX-071123	7/11/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
P-93B	P93B-ROX-071823	7/18/2023	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 5 UJ	< 5 UJ	< 10 UJ	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
P-93C	P93C-ROX-071423	7/14/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
P-93D	P93D-ROX-071123	7/11/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
P-114R	P114R-ROX-071423	7/14/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	0.00048	< 0.00020	< 0.00020	< 0.00020	< 0.00020
ROST-3-MW	ROST3MW-ROX-071723	7/17/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
	ROST3MW-ROX-071723-DUP	7/17/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
ROST-4-PZ(C)	ROST4PZC-ROX-071123	7/11/2023	0.0056	0.0064	0.0057	0.00067 J	0.023	0.0017 J	0.024	0.00069	0.00032	0.000036 J	< 0.00021	< 0.00021
ROST-4-PZ(E)	ROST4PZ(E)-ROX-071223	7/12/2023	< 0.0010	< 0.0010	0.016	< 0.0010	0.0063	0.0012 J	0.0075 J	0.0013	0.0010	0.000067 J	< 0.00020	< 0.00020
ROST-4-PZ(G)	ROST4PZ(G)-ROX-071023	7/10/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
T-12	T12-ROX-071423	7/14/2023	0.0092 J	0.031	< 0.01	< 0.01	0.028 J	< 0.05	0.028 J	0.00024	< 0.00020	< 0.00020	< 0.00020	< 0.00020



**TABLE 2  
SUMMARY OF GROUNDWATER MONITORING WELL  
ANALYTICAL DETECTIONS AND EXCEEDANCES**


**PRELIMINARY**

			SVOCs											
			Butyl benzyl phthalate	Chrysene (1,2-Benzophenanthracene)	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol	Fluoranthene	Fluorene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Phenol	Pyrene
Screening Values (mg/L)			1.4 <sup>2</sup>	0.012 <sup>1</sup>	0.007 <sup>3</sup>	5.6 <sup>1</sup>	0.14 <sup>2</sup>	0.28 <sup>1</sup>	0.28 <sup>1</sup>	0.49 <sup>3</sup>	0.028 <sup>1</sup>	0.21 <sup>3</sup>	0.1 <sup>1</sup>	0.21 <sup>1</sup>
Location	Sample ID	Sample Date	Analytical Results (mg/L)											
MW-01	MW1-ROX-071023	7/10/2023	< 0.0099	< 0.00020	< 0.0099	< 0.0099	< 0.0099	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0099	< 0.00020 UJ
MW-02	MW2-ROX-071823	7/18/2023	< 0.01	< 0.00020	< 0.01	<b>0.00062 J</b>	< 0.01	< 0.00020	< 0.00020	<b>0.0090</b>	<b>0.017</b>	< 0.00020	< 0.01	< 0.00020
MW-03	MW3-ROX-071023	7/10/2023	< 0.01	< 0.00020	< 0.01	<b>0.00065 J</b>	< 0.01	< 0.00020	< 0.00020	< 0.00020 UJ	< 0.00020 UJ	< 0.00020	< 0.01	< 0.00020 UJ
MW-04	MW4-ROX-071323	7/13/2023	< 0.01	< 0.00021	< 0.01	< 0.01	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.01	< 0.00021 UJ
MW-05	MW5-ROX-071723	7/17/2023	< 0.01	< 0.00021	< 0.01	<b>0.00027 J</b>	< 0.01	< 0.00021	< 0.00021	<b>0.00017 J</b>	<b>0.00026</b>	< 0.00021	< 0.01	< 0.00021
MW-06A	MW6A-ROX-071123	7/11/2023	< 0.01	< 0.00020	< 0.01	< 0.01	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.01	< 0.00020 UJ
MW-06B	MW6B-ROX-071123	7/11/2023	< 0.01	< 0.00021	< 0.01	< 0.01	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.01	< 0.00021 UJ
	MW6B-ROX-071123-DUP	7/11/2023	< 0.01	< 0.00021	< 0.01	< 0.01	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.01	< 0.00021 UJ
MW-06C	MW6C-ROX-071123	7/11/2023	< 0.01	< 0.00020	< 0.01	< 0.01	< 0.01	< 0.00020	< 0.00020	< 0.00020 UJ	< 0.00020 UJ	< 0.00020	< 0.01	< 0.00020 UJ
MW-06D	MW6D-ROX-071223	7/12/2023	< 0.0098	< 0.00020	< 0.0098	< 0.0098	< 0.0098	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0098	< 0.00020 UJ
MW-07	MW7-ROX-071323	7/13/2023	< 0.011	< 0.00021	< 0.011	<b>0.00044 J</b>	< 0.011	< 0.00021	< 0.00021	<b>0.00088</b>	<b>0.0013</b>	<b>0.00011 J</b>	<b>0.12 J</b>	< 0.00021 UJ
	MW7-ROX-071323-DUP	7/13/2023	< 0.0099	< 0.00020	< 0.0099	< 0.0099	< 0.0099	< 0.00020	<b>0.000095 J</b>	<b>0.00087</b>	<b>0.0013</b>	<b>0.00011 J</b>	<b>0.084 J</b>	< 0.00020 UJ
MW-09	MW9-ROX-071823	7/18/2023	< 0.01	< 0.00020	< 0.01	< 0.01	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.01	< 0.00020
MW-10	MW10-ROX-071823	7/18/2023	< 0.0098	< 0.00020	< 0.0098	<b>0.00031 J</b>	< 0.0098	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0098	< 0.00020
MW-11	MW11-ROX-071223	7/12/2023	< 0.0099	< 0.00020	< 0.0099	< 0.0099	< 0.0099	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0099	< 0.00020 UJ
MW-12	MW12-ROX-071223	7/12/2023	< 0.01	< 0.00020	< 0.01	<b>0.00078 J</b>	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.01	< 0.00020 UJ
MW-13	MW13-ROX-071423	7/14/2023	< 0.0099	< 0.00020	< 0.0099	< 0.0099	< 0.0099	< 0.00020	< 0.00099 UJ	< 0.00020	< 0.00020	< 0.00020	< 0.0099 UJ	< 0.00020
MW-14	MW14-ROX-071723	7/17/2023	< 0.011 UJ	< 0.00022 UJ	< 0.011 UJ	< 0.011 UJ	< 0.011 UJ	< 0.00022 UJ	< 0.00022 UJ	< 0.00022 UJ	< 0.00022 UJ	< 0.00022 UJ	< 0.011 UJ	< 0.00022 UJ
MW-16	MW16-ROX-071123	7/11/2023	< 0.0099	< 0.00020	< 0.0099	<b>0.00061 J</b>	< 0.0099	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0099	< 0.00020 UJ
MW-22	MW22-ROX-071323	7/13/2023	< 0.01	< 0.00020	< 0.01	< 0.01	< 0.01	< 0.00020	< 0.00020	<b>0.0059</b>	<b>0.0073</b>	< 0.00020	< 0.01	< 0.00020
MW-23	MW23-ROX-071423	7/14/2023	< 0.0099	< 0.00020	< 0.0099	< 0.0099	< 0.0099	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0099	< 0.00020
MW-24	MW24-ROX-071023	7/10/2023	< 0.0098	< 0.00020	< 0.0098	< 0.0098 U	< 0.0098	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0098	< 0.00020 UJ
MW-25	MW25-ROX-071323	7/13/2023	< 0.01	< 0.00021	< 0.01	< 0.01	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.01	< 0.00021 UJ
MW-26	MW26-ROX-071023	7/10/2023	< 0.0097	< 0.00019	< 0.0097	< 0.0097	< 0.0097	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.0097	< 0.00019 UJ
MW-27	MW27-ROX-071823	7/18/2023	<b>0.00026 J</b>	< 0.00021	< 0.01	< 0.01	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.01	< 0.00021
MW-28	MW28-ROX-071223	7/12/2023	< 0.0097	< 0.00019	< 0.0097	< 0.0097	< 0.0097	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.0097	< 0.00019 UJ
P-54	P54-ROX-071223	7/12/2023	< 0.01	< 0.00020	< 0.01	< 0.01	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.01	< 0.00020 UJ
P-56	P56-ROX-071023	7/10/2023	< 0.01	< 0.00020	<b>0.00049 J</b>	< 0.01	< 0.01	< 0.00020	<b>0.00022</b>	<b>0.0088</b>	<b>0.0074</b>	<b>0.00063</b>	< 0.01	< 0.00020 UJ

**TABLE 2  
SUMMARY OF GROUNDWATER MONITORING WELL  
ANALYTICAL DETECTIONS AND EXCEEDANCES**

			SVOCs											
Screening Values (mg/L)			Butyl benzyl phthalate	Chrysene (1,2-Benzophenanthracene)	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol	Fluoranthene	Fluorene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Phenol	Pyrene
Location	Sample ID	Sample Date	1.4 <sup>2</sup>	0.012 <sup>1</sup>	0.007 <sup>3</sup>	5.6 <sup>1</sup>	0.14 <sup>2</sup>	0.28 <sup>1</sup>	0.28 <sup>1</sup>	0.49 <sup>3</sup>	0.028 <sup>1</sup>	0.21 <sup>3</sup>	0.1 <sup>1</sup>	0.21 <sup>1</sup>
			Analytical Results (mg/L)											
P-57	P57-ROX-071323	7/13/2023	< 0.011	< 0.00022	< 0.011	< 0.011	< 0.011	< 0.00022	0.00033	0.018	0.022	0.00030	0.0079 J	< 0.00022
	P57-ROX-071323-DUP	7/13/2023	< 0.0099	< 0.00020	< 0.0099	< 0.0099	< 0.0099	< 0.00020	0.00041	0.022	0.026	0.00034	0.0072 J	< 0.00020
P-58	P58-ROX-071823	7/18/2023	< 0.01	0.00014 J	< 0.01	< 0.01	< 0.01	0.000069 J	0.0014	0.065 J	0.034	0.0012	0.51 J	0.00032
	P58-ROX-071823-DUP	7/18/2023	< 0.0098	< 0.00020	< 0.0098	< 0.0098	< 0.0098	< 0.00020	0.0011	0.038 J	0.027	0.00080	0.25 J	0.000069 J
P-59	P59-ROX-071823	7/18/2023	< 0.01	0.000082 J	< 0.01	< 0.01	< 0.01	0.000086 J	0.00022	0.0099	0.013	0.00059	< 0.01	0.00029
P-74	P74-ROX-071223	7/12/2023	< 0.01	< 0.00020	< 0.01	0.0010 J	< 0.01	< 0.00020	< 0.00020	0.00020	0.00017 J	< 0.00020	< 0.01	< 0.00020 UJ
P-93A	P93A-ROX-071123	7/11/2023	< 0.01	< 0.00021	< 0.01	< 0.01	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.01	< 0.00021 UJ
P-93B	P93B-ROX-071823	7/18/2023	< 0.01	< 0.00020	< 0.01	< 0.01	0.0036 J	< 0.00020	< 0.00020	0.000085 J	0.000090 J	< 0.00020	0.24	< 0.00020
P-93C	P93C-ROX-071423	7/14/2023	< 0.01	< 0.00021	< 0.01	0.00029 J	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.01 UJ	< 0.00021
P-93D	P93D-ROX-071123	7/11/2023	< 0.01	< 0.00020	< 0.01	< 0.01	< 0.01	< 0.00020	< 0.00020	< 0.00020 UJ	< 0.00020 UJ	< 0.00020	< 0.01	< 0.00020 UJ
P-114R	P114R-ROX-071423	7/14/2023	< 0.0099	< 0.00020	< 0.0099	< 0.0099	< 0.0099	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0099 UJ	< 0.00020
ROST-3-MW	ROST3MW-ROX-071723	7/17/2023	< 0.01	< 0.00021	< 0.01	< 0.01	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.01	< 0.00021
	ROST3MW-ROX-071723-DUP	7/17/2023	< 0.01	< 0.00020	< 0.01	< 0.01	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.01	< 0.00020
ROST-4-PZ(C)	ROST4PZC-ROX-071123	7/11/2023	< 0.01	< 0.00021	0.00060 J	< 0.01	< 0.01	0.00011 J	0.00059	0.014	0.0016	0.0015	< 0.01	0.000070 J J
ROST-4-PZ(E)	ROST4PZ(E)-ROX-071223	7/12/2023	< 0.0099	0.000042 J	< 0.0099	< 0.0099	< 0.0099	0.00026	0.0011	0.02	0.0041	0.0051	< 0.0099	0.00048
ROST-4-PZ(G)	ROST4PZ(G)-ROX-071023	7/10/2023	< 0.01	< 0.00020	< 0.01	0.00029 J	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.01	< 0.00020 UJ
T-12	T12-ROX-071423	7/14/2023	< 0.01	< 0.00020	< 0.01	0.0011 J	< 0.01	< 0.00020	0.00023	0.015	0.023	0.00042	0.05 J	< 0.00020

**Notes:**

 Indicates a current exceedance of screening criteria.

1 Denotes screening criteria source from 35 I.A.C. 620, Subpart D.

2 Denotes screening criteria source from 35 I.A.C. 742 (TACO), Appendix B, Table E.

3 Denotes screening criteria source from IL EPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables).

Groundwater monitoring wells designated for sampling in the Interim Groundwater Monitoring Program, P-55R, P-66, and P-68, contained LNAPL; therefore, these wells were not sampled.

Data subject to in-progress analytical data review; final data will be provided in the 3rd Quarter 2023 Roxana Interim Groundwater Monitoring Program report.

**LABORATORY QUALIFIERS**

J = The analyte was detected below the reporting limit. Result is estimated.

H = Analyzed or extracted out of holding time criteria.

<#.## Indicates the analyte was not detected above the given reporting limit.

Analytes that were non-detect across all sampling locations during the 3Q23 sampling event are not presented on the Analytical table.






**AECOM QUALIFIERS**

J = The result is estimated.

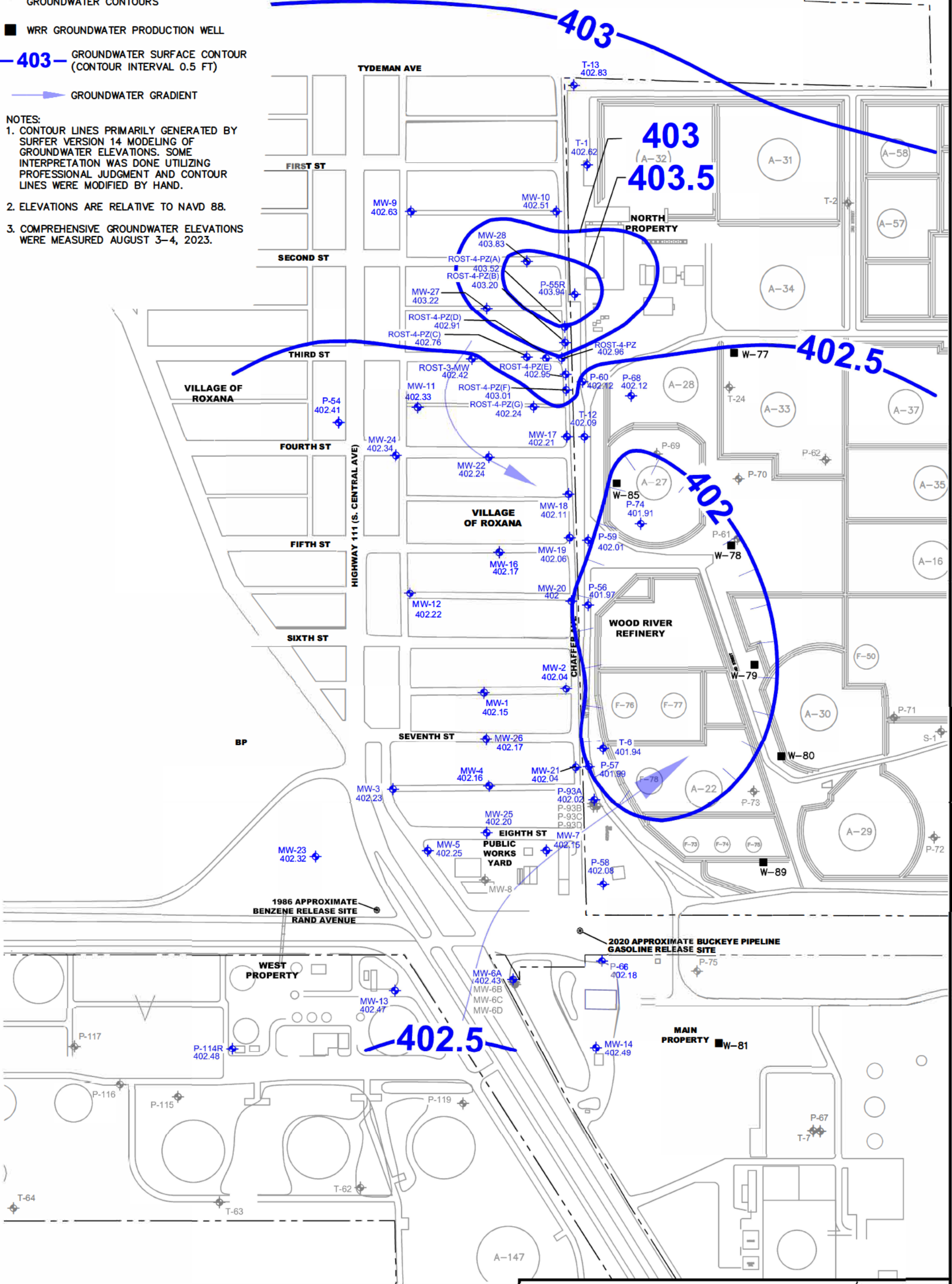
UJ = Estimated non-detect.

U = Result is non-detect.

**LEGEND**

-  GROUNDWATER MONITORING WELL LOCATION USED TO GENERATE GROUNDWATER CONTOURS
-  GROUNDWATER MONITORING WELL LOCATION NOT USED TO GENERATE GROUNDWATER CONTOURS
-  WRR GROUNDWATER PRODUCTION WELL
-  **403** GROUNDWATER SURFACE CONTOUR (CONTOUR INTERVAL 0.5 FT)
-  GROUNDWATER GRADIENT

- NOTES:**
1. CONTOUR LINES PRIMARILY GENERATED BY SURFER VERSION 14 MODELING OF GROUNDWATER ELEVATIONS. SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
  2. ELEVATIONS ARE RELATIVE TO NAVD 88.
  3. COMPREHENSIVE GROUNDWATER ELEVATIONS WERE MEASURED AUGUST 3-4, 2023.



**DRAFT**



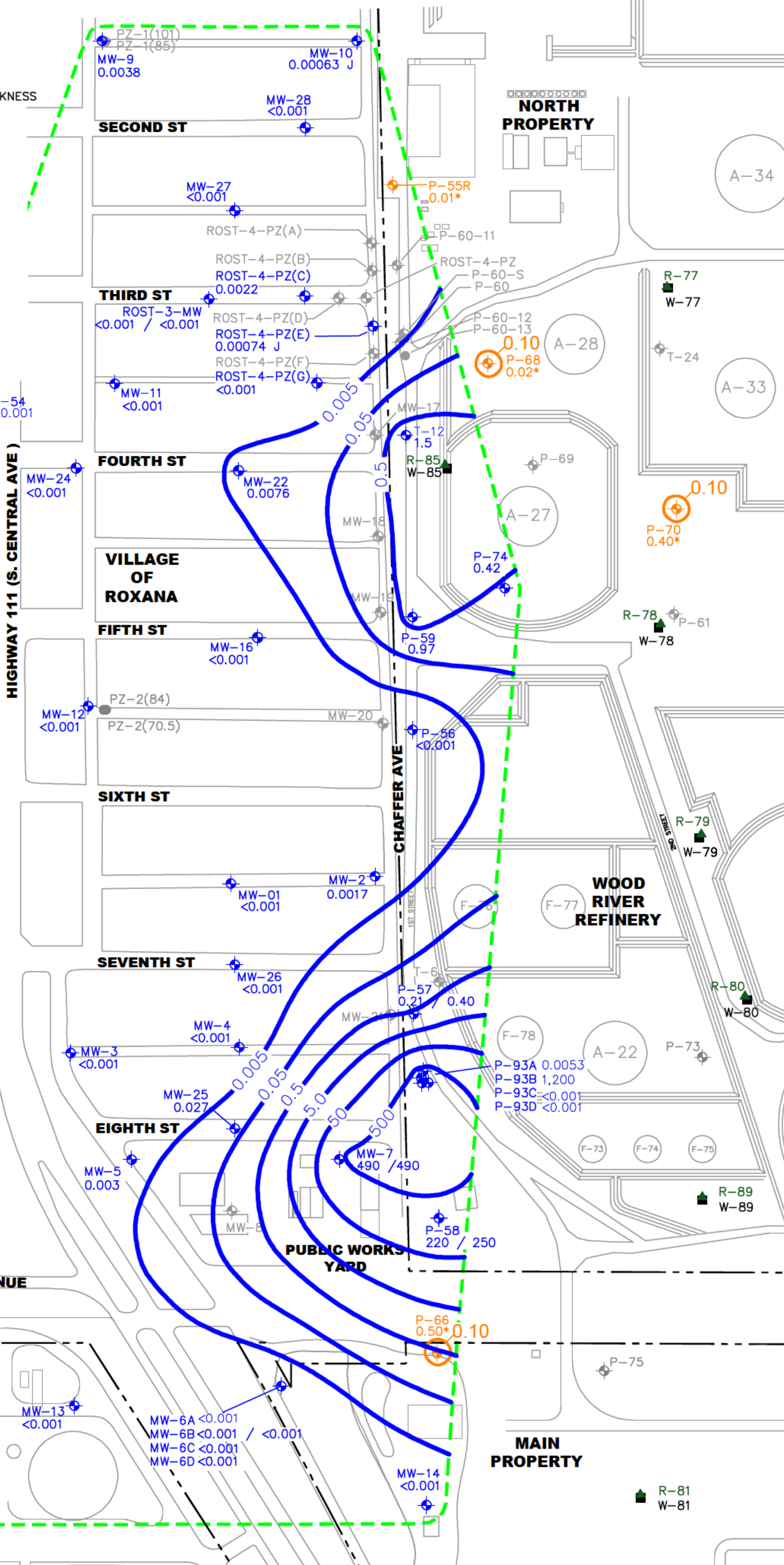
EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60697537
<b>AECOM</b>		
DRN. BY:gds September 2023 DSGN. BY:gds CHKD. BY:mr/bh	Groundwater Contours August 2023 - West Fenceline	FIG. NO. 1



**LEGEND**

- GROUNDWATER MONITORING WELL SAMPLING LOCATION
- GROUNDWATER MONITORING WELL LOCATION NOT SAMPLED
- GROUNDWATER MONITORING WELL, LNAPL THICKNESS IN FEET
- GROUNDWATER PIEZOMETER LOCATION NOT SAMPLED
- GROUNDWATER PIEZOMETER, LNAPL THICKNESS IN FEET
- OIL RECOVERY WELL
- WATER PRODUCTION WELL
- LNAPL THICKNESS (FEET)
- INDICATES THAT THE LNAPL AND/OR WATER LEVEL IS ABOVE THE TOP OF WELL SCREEN
- EXTENT OF MVS MODEL DATA SET
- 50.0 GROUNDWATER CONCENTRATION BENZENE (mg/L)

- NOTES:**
1. IMAGES GENERATED UTILIZING CTECH MINING VISUALIZATION SYSTEM MODELING SOFTWARE. CONCENTRATIONS BETWEEN KNOWN DATA POINTS (E.G. GROUNDWATER MONITORING WELLS) ARE INTERPOLATIONS AND EXTRAPOLATIONS OF THE MEASURED DATA. SOME INTERPRETATION WAS COMPLETED UTILIZING PROFESSIONAL JUDGEMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
  2. ALL RESULTS SHOWN IN mg/L.
  3. ANALYTICAL REPORTING LIMITS ARE SHOWN FOR SAMPLES WITH NON-DETECT RESULTS (e.g., <0.001 mg/L).
  4. NON-DETECT VALUES ARE MODELED AT HALF THE REPORTING LIMIT.
  5. MULTIPLE RESULTS (e.g. 490 / 490) INDICATE DUPLICATE SAMPLES OR CONFIRMATION SAMPLES.
  6. CONTOUR LINES IN AREA OF P-55R AND P-66 ADJUSTED BASED ON AVAILABLE 3Q23 AND HISTORICAL ANALYTICAL DATA FROM WELLS IN THE AREA.
  7. J = THE RESULT IS ESTIMATED.
  8. AT WELL CLUSTER LOCATIONS, THE HIGHEST VALUE WAS USED FOR CONTOURING PURPOSES.

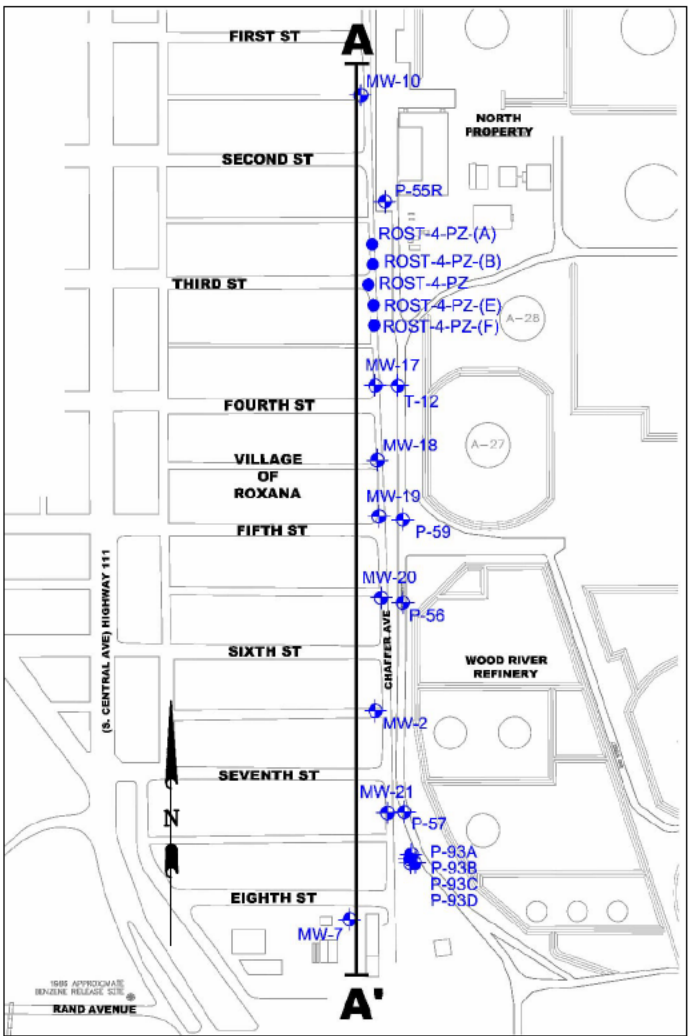
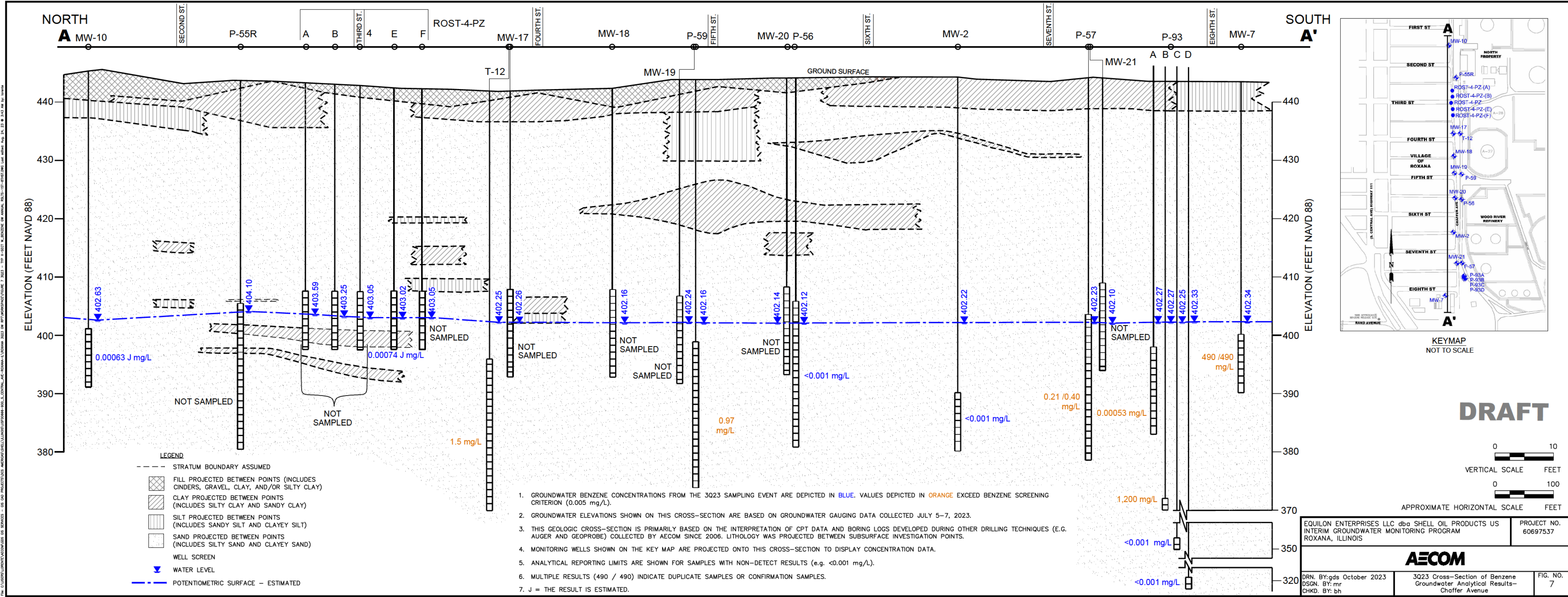


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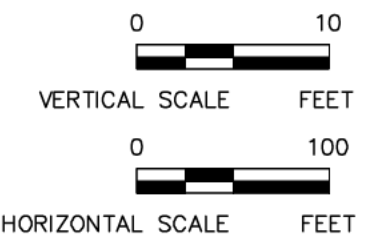
EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60697537
<b>AECOM</b>		
DRN. BY: gds October 2023 DSGN. BY: mr CHKD. BY: bh	3Q23 Dissolved Phase Benzene Concentrations in Groundwater	FIG. NO. 6





KEYMAP  
NOT TO SCALE

**DRAFT**



- LEGEND**
- STRATUM BOUNDARY ASSUMED
  - [Cross-hatched pattern] FILL PROJECTED BETWEEN POINTS (INCLUDES CINDERS, GRAVEL, CLAY, AND/OR SILTY CLAY)
  - [Diagonal hatching] CLAY PROJECTED BETWEEN POINTS (INCLUDES SILTY CLAY AND SANDY CLAY)
  - [Horizontal hatching] SILT PROJECTED BETWEEN POINTS (INCLUDES SANDY SILT AND CLAYEY SILT)
  - [Dotted pattern] SAND PROJECTED BETWEEN POINTS (INCLUDES SILTY SAND AND CLAYEY SAND)
  - [Vertical line with dashes] WELL SCREEN
  - [Blue inverted triangle] WATER LEVEL
  - [Blue dashed line] POTENTIOMETRIC SURFACE - ESTIMATED

1. GROUNDWATER BENZENE CONCENTRATIONS FROM THE 3Q23 SAMPLING EVENT ARE DEPICTED IN BLUE. VALUES DEPICTED IN ORANGE EXCEED BENZENE SCREENING CRITERION (0.005 mg/L).
2. GROUNDWATER ELEVATIONS SHOWN ON THIS CROSS-SECTION ARE BASED ON GROUNDWATER GAUGING DATA COLLECTED JULY 5-7, 2023.
3. THIS GEOLOGIC CROSS-SECTION IS PRIMARILY BASED ON THE INTERPRETATION OF CPT DATA AND BORING LOGS DEVELOPED DURING OTHER DRILLING TECHNIQUES (E.G. AUGER AND GEOPROBE) COLLECTED BY AECOM SINCE 2006. LITHOLOGY WAS PROJECTED BETWEEN SUBSURFACE INVESTIGATION POINTS.
4. MONITORING WELLS SHOWN ON THE KEY MAP ARE PROJECTED ONTO THIS CROSS-SECTION TO DISPLAY CONCENTRATION DATA.
5. ANALYTICAL REPORTING LIMITS ARE SHOWN FOR SAMPLES WITH NON-DETECT RESULTS (e.g. <0.001 mg/L).
6. MULTIPLE RESULTS (490 / 490) INDICATE DUPLICATE SAMPLES OR CONFIRMATION SAMPLES.
7. J = THE RESULT IS ESTIMATED.

EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60697537
<b>AECOM</b>		
DRN. BY: gds October 2023 DSGN. BY: mr CHKD. BY: bh	3Q23 Cross-Section of Benzene Groundwater Analytical Results- Chaffer Avenue	FIG. NO. 7



# ATTACHMENT 1

File: C:\USERS\MERELUTAM\AECOM\GIS SERVICES - GIS CAD PROJECTS\DCS AMERICAS\SHELL\ILLINOIS\USR0666-900\_S\_CENTRAL\_AVE-ROXANA-IL\ROXANA 1Q23 GW RPT\2.WORKSPACE\PART2\_20230315\FIGURE 3B GW CONTOURS 1Q23 WF.DWG Last edited: Mar. 17, 23 @ 4:36 PM by: lorente

## LEGEND

- GROUNDWATER MONITORING WELL LOCATION USED TO GENERATE GROUNDWATER CONTOURS
- GROUNDWATER MONITORING WELL LOCATION NOT USED TO GENERATE GROUNDWATER CONTOURS

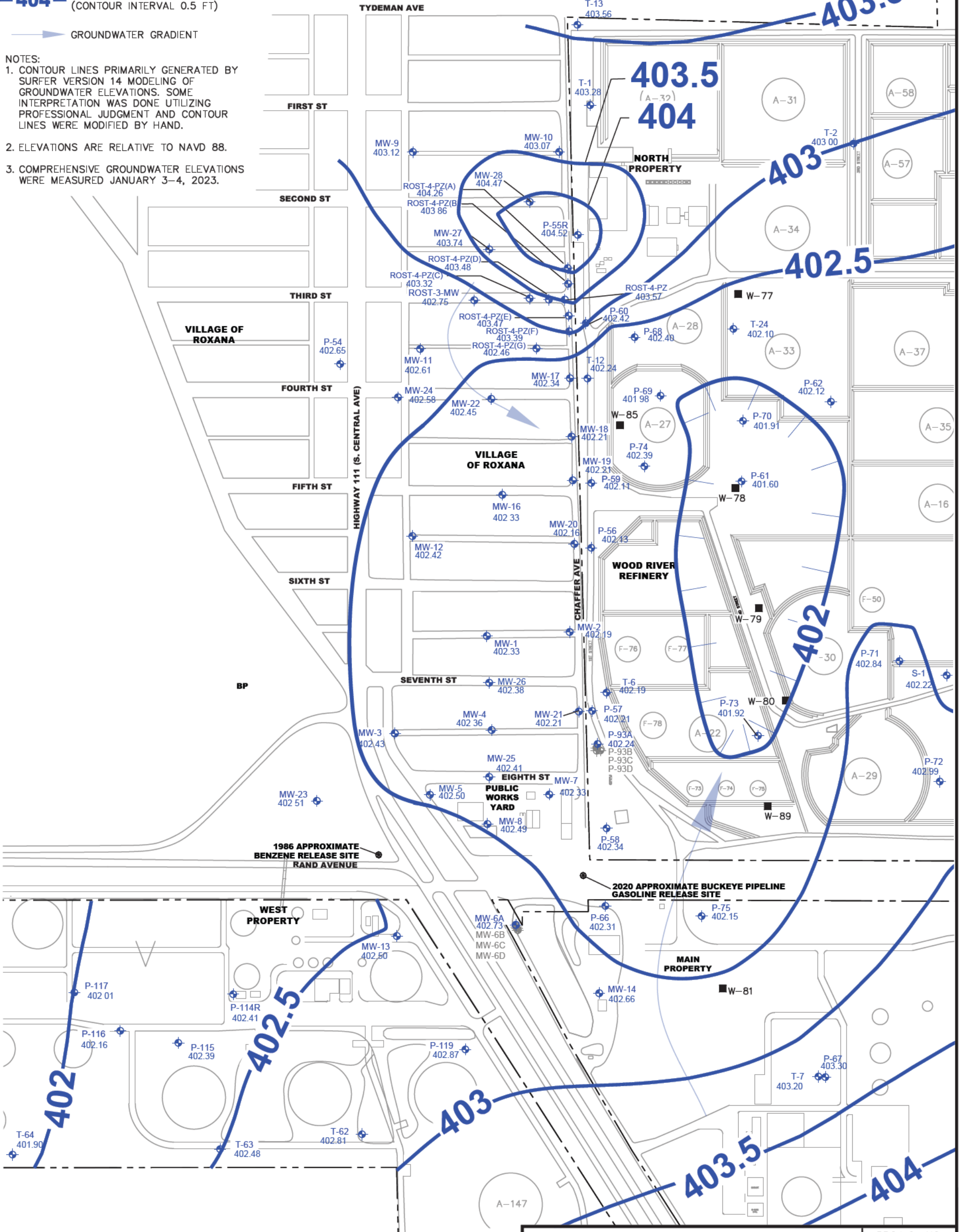
WRR GROUNDWATER PRODUCTION WELL

**404** GROUNDWATER SURFACE CONTOUR (CONTOUR INTERVAL 0.5 FT)

GROUNDWATER GRADIENT

## NOTES:

1. CONTOUR LINES PRIMARILY GENERATED BY SURFER VERSION 14 MODELING OF GROUNDWATER ELEVATIONS. SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
2. ELEVATIONS ARE RELATIVE TO NAVD 88.
3. COMPREHENSIVE GROUNDWATER ELEVATIONS WERE MEASURED JANUARY 3-4, 2023.



EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 60697537
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**AECOM**

DRN. BY: gds April 2023  
DSGN. BY: gds  
CHKD. BY: mr/bh

Groundwater Contours 1Q23-  
West Fenceline






FIG. NO.  
3b



# ATTACHMENT 1

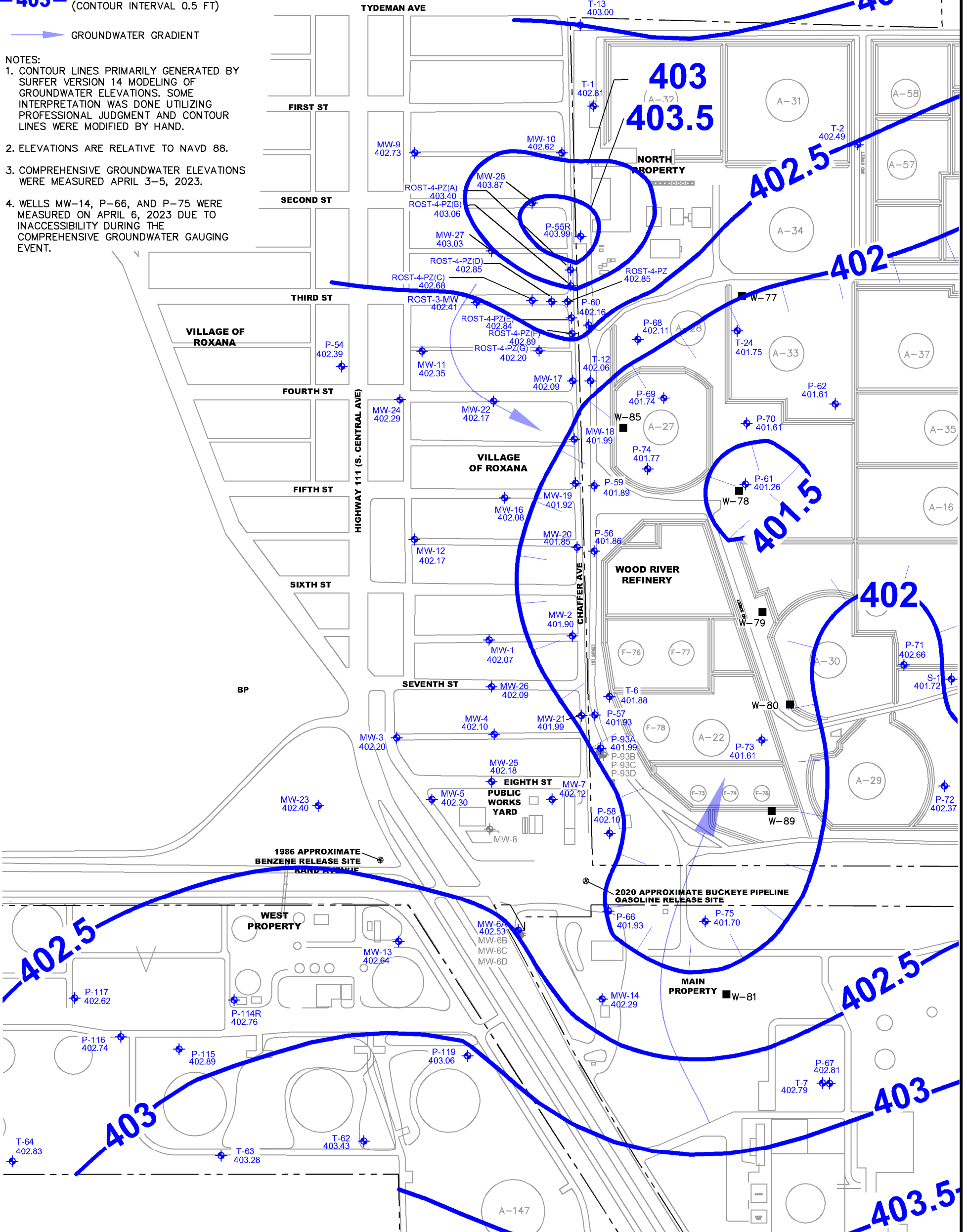
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## LEGEND

-  GROUNDWATER MONITORING WELL LOCATION USED TO GENERATE GROUNDWATER CONTOURS
-  GROUNDWATER MONITORING WELL LOCATION NOT USED TO GENERATE GROUNDWATER CONTOURS
-  WRR GROUNDWATER PRODUCTION WELL
-  **403** GROUNDWATER SURFACE CONTOUR (CONTOUR INTERVAL 0.5 FT)
-  GROUNDWATER GRADIENT

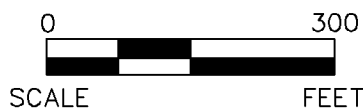
## NOTES:

1. CONTOUR LINES PRIMARILY GENERATED BY SURFER VERSION 14 MODELING OF GROUNDWATER ELEVATIONS. SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
2. ELEVATIONS ARE RELATIVE TO NAVD 88.
3. COMPREHENSIVE GROUNDWATER ELEVATIONS WERE MEASURED APRIL 3-5, 2023.
4. WELLS MW-14, P-66, AND P-75 WERE MEASURED ON APRIL 6, 2023 DUE TO INACCESSIBILITY DURING THE COMPREHENSIVE GROUNDWATER GAUGING EVENT.



EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 60697537
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**DRAFT**








<b>AECOM</b>	
DRN. BY:gds July 2023 DSGN. BY:gds CHKD. BY:mr/bh	Groundwater Contours 2Q23- West Fenceline
	FIG. NO. 3b



# ATTACHMENT 1

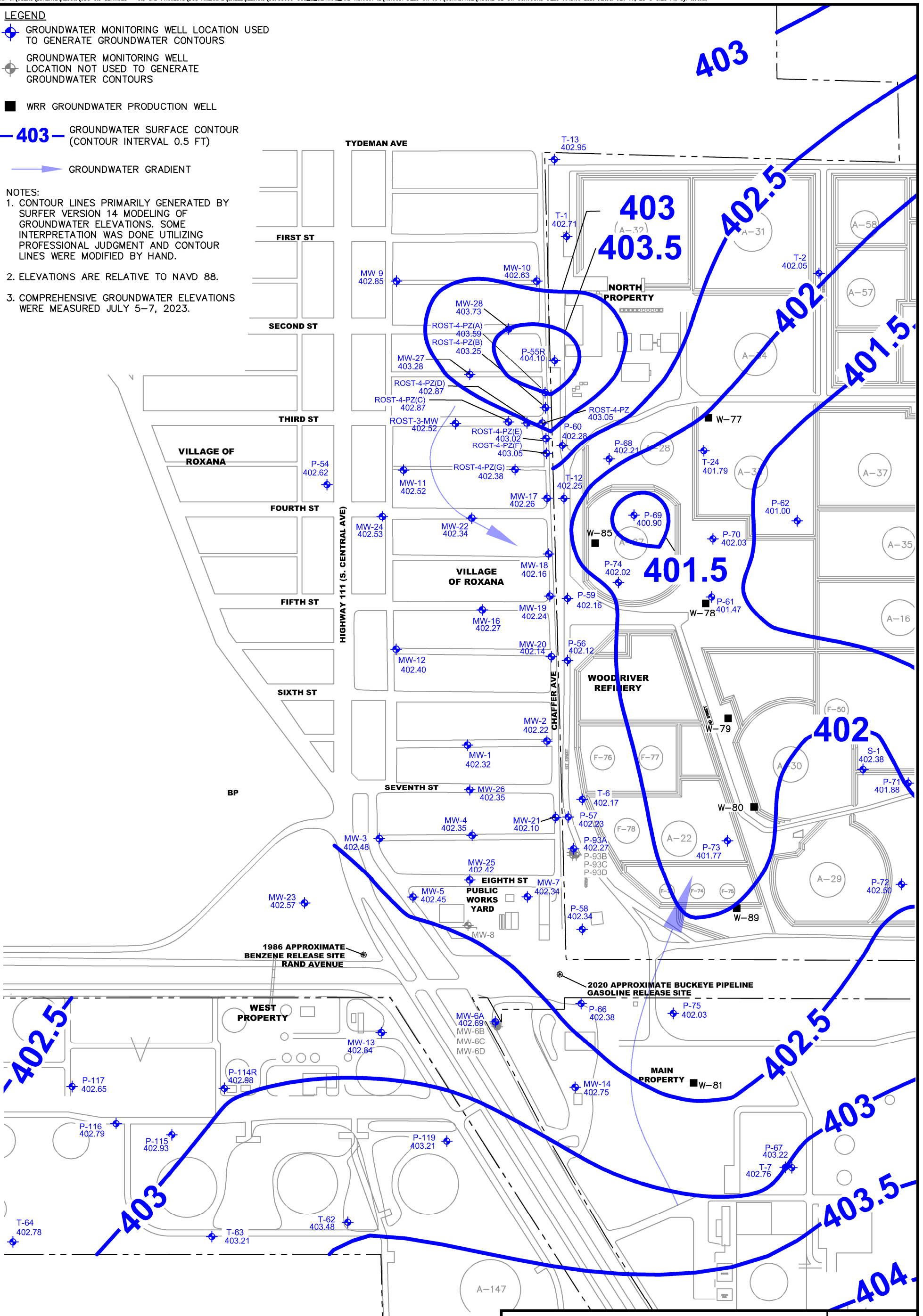
File: C:\USERS\LORENTE\AECOM\GDS GIS SERVICES - GIS CAD PROJECTS\DCS AMERICAS\SHELL\ILLINOIS\USF00666-900\_S\_CENTRAL\_AVE-ROXANA-IL\ROXANA 3Q23 GW RPT\WORKSPACE\FIGURE 3B GW CONTOURS 3Q23 WF.DWG Last edited: Jul. 17, 23 @ 9:25 PM by: lorente

## LEGEND

-  GROUNDWATER MONITORING WELL LOCATION USED TO GENERATE GROUNDWATER CONTOURS
-  GROUNDWATER MONITORING WELL LOCATION NOT USED TO GENERATE GROUNDWATER CONTOURS
-  WRR GROUNDWATER PRODUCTION WELL
-  **403** GROUNDWATER SURFACE CONTOUR (CONTOUR INTERVAL 0.5 FT)
-  GROUNDWATER GRADIENT

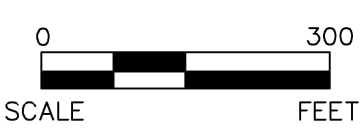
## NOTES:

1. CONTOUR LINES PRIMARILY GENERATED BY SURFER VERSION 14 MODELING OF GROUNDWATER ELEVATIONS. SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
2. ELEVATIONS ARE RELATIVE TO NAVD 88.
3. COMPREHENSIVE GROUNDWATER ELEVATIONS WERE MEASURED JULY 5-7, 2023.



EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60697537
<b>AECOM</b>		
DRN. BY:gds October 2023 DSGN. BY:gds CHKD. BY:mr/bh	Groundwater Contours 3Q23- West Fenceline	FIG. NO. 3b

**DRAFT**













**TABLE 3  
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES**

			VOCs																			
Screening Values (mg/L)			Acetone	Benzene	Bromodichloromethane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chloroform	Chloromethane	2-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene
Location	Sample ID	Sample Date	Analytical Results (mg/L)																			
			6.3 <sup>1</sup>	0.005 <sup>1</sup>	0.0002 <sup>2</sup>	4.2 <sup>1</sup>	0.35 <sup>3</sup>	0.7 <sup>3</sup>	0.7 <sup>3</sup>	0.7 <sup>1</sup>	0.07 <sup>1</sup>		0.14 <sup>3</sup>		0.0002 <sup>1</sup>	0.07 <sup>1</sup>		0.7 <sup>1</sup>	0.7 <sup>1</sup>	0.07 <sup>1</sup>	0.14 <sup>1</sup>	0.7 <sup>3</sup>
P-114R	P114R-ROX-071122	7/11/2022	< 0.025	< 0.001	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000030	< 0.001	< 0.001	< 0.001	0.0013	< 0.005	< 0.001	< 0.001
	P114R-ROX-102422	10/24/2022	< 0.025	0.00047 J	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000031	< 0.001	< 0.001	< 0.001	0.00098 J	< 0.005	< 0.001	< 0.001
	P114R-ROX-010623	1/6/2023	< 0.025	< 0.001	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000030	< 0.001	< 0.001	< 0.001	0.0014	< 0.005	< 0.001	< 0.001
	P114R-ROX-010623-PAH	1/6/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	P114R-ROX-041323	4/13/2023	< 0.025	0.00031 J	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000030	< 0.001	< 0.001	< 0.001	0.0011	< 0.005	< 0.001	< 0.001
ROST-3-MW	ROST3MW-ROX-071222	7/12/2022	< 0.025	< 0.001	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000030	< 0.001	0.00058 J	0.00061 J	< 0.001	< 0.005	< 0.001	< 0.001	
	ROST3MW-ROX-102722	10/27/2022	0.023 J	< 0.001	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000030	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	
	ROST3MW-ROX-010523	1/5/2023	< 0.025	< 0.001	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000030	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	
	ROST3MW-ROX-041123	4/11/2023	< 0.025	0.00056 J	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001 UJ	< 0.001	< 0.000030	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001
ROST-4-PZ(C)	ROST4PZ(C)-ROX-071422	7/14/2022	< 0.025	0.0029	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.00094 J	< 0.000032	< 0.001	0.0027	0.0047	< 0.001	0.05	0.0077	0.0075
	ROST4PZ(C)-ROX-102822	10/28/2022	< 0.025	0.0025	< 0.001	0.0041 J	< 0.001	< 0.001	< 0.001	< 0.001 UJ	< 0.001	< 0.001	< 0.001	0.00079 J	< 0.000030	< 0.001	0.0022	0.0050	< 0.001	0.048	0.0086	0.0030
	ROST4PZ(C)-ROX-011323	1/13/2023	< 0.025	< 0.001	< 0.001	0.0028 J	< 0.001	< 0.001	< 0.001	0.00090 J	< 0.001	< 0.001	< 0.001	< 0.000029	< 0.001	< 0.001	0.00094 J	< 0.001	< 0.005	0.0020	< 0.001	
	ROST4PZ(C)-ROX-041723	4/17/2023	< 0.025	0.0010	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001 UJ	< 0.001	< 0.001	< 0.000030	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	0.00086 J	0.00056 J	
ROST-4-PZ(E)	ROST4PZ(E)-ROX-071522	7/15/2022	< 0.025	0.021	< 0.001	< 0.025	< 0.001	0.0012	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0018	< 0.000032	< 0.001	0.2	0.0089 J	< 0.001	0.11	0.013 J	0.025
	ROST4PZ(E)-ROX-071522-DUP	7/15/2022	< 0.025	0.017	< 0.001	< 0.025	< 0.001	0.0010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0012	< 0.000031	< 0.001	0.16	0.0068 J	< 0.001	0.11	0.0093 J	0.02
	ROST4PZ(E)-ROX-102822	10/28/2022	< 0.025	0.014	< 0.001	0.076	0.0020	0.00077 J	< 0.001	< 0.001 UJ	< 0.001	< 0.001	< 0.001	0.0015	< 0.000030	< 0.001	0.09	0.0045	< 0.001	0.11	0.0067	0.0089
	ROST4PZ(E)-ROX-102822-DUP	10/28/2022	< 0.025	0.014	< 0.001	0.08	0.0017	< 0.001	< 0.001	< 0.001 UJ	< 0.001	< 0.001	< 0.001	0.0014	< 0.000030	< 0.001	0.098	0.0046	< 0.001	0.12	0.0070	0.0093
	ROST4PZ(E)-ROX-011023	1/10/2023	0.085	0.0043	< 0.001	0.038	0.0016	0.00082 J	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.00075 J	< 0.000029	< 0.001	0.033	0.0052	< 0.001	0.063	0.0048	0.0037
	ROST4PZ(E)-ROX-041823	4/18/2023	< 0.025	0.0016	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000029	< 0.001	< 0.001	0.0091	0.0024	< 0.001	0.026	0.0017	0.00090 J
ROST4PZ(E)-ROX-041823-DUP	4/18/2023	< 0.025	0.0018	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000029	< 0.001	< 0.001	0.01	0.0026	< 0.001	0.027	0.0019	0.0011	
ROST-4-PZ(G)	ROST4PZ(G)-ROX-071222	7/12/2022	< 0.025	0.00033 J	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000031	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001
	ROST4PZ(G)-ROX-102722	10/27/2022	< 0.025	0.00047 J	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000032	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001
	ROST4PZ(G)-ROX-102722-PAH	10/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ROST4PZ(G)-ROX-010623	1/6/2023	0.55	0.00032 J	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000030	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001
ROST4PZ(G)-ROX-041423	4/14/2023	< 0.025	0.00041 J	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000030	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	
T-12	T12-ROX-071422	7/14/2022	< 0.25	1.3	< 0.01	< 0.25	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.000033	< 0.01	0.012	0.0071 J	< 0.01	< 0.05	0.014	0.03	
	T12-ROX-110122	11/1/2022	< 0.13	2.2	< 0.005	< 0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.000032	< 0.005	0.011	0.0050	< 0.005	0.02 J	0.0075	0.044	
	T12-ROX-011123	1/11/2023	< 0.25	2.1	< 0.01	< 0.25	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.000029	< 0.01	0.026	0.0069 J	< 0.01	0.07	0.0090 J	0.053	
	T12-ROX-011123-DUP	1/11/2023	< 0.25	2.1	< 0.01	< 0.25	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.000029	< 0.01	0.025	0.0068 J	< 0.01	0.058	0.0088 J	0.053	
	T12-ROX-042023	4/20/2023	< 0.25	1.2	< 0.01	< 0.25	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01 UJ	< 0.01	< 0.01	< 0.000029	< 0.01	0.012	< 0.01	0.0022 J	< 0.05	< 0.01	0.026	







TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

Table with columns for VOCs (Trichloroethene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, m,p-Xylenes, o-Xylenes, Xylenes (total), Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic Acid, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Chrysene (1,2-Benzophenanthracene), Dibenz(a,h)acridine, Dibenz(a,h)anthracene) and SVOCs. Rows include Screening Values (mg/L) and Analytical Results (mg/L) for various monitoring wells (MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, P-54, P-56) across multiple sample dates.





**TABLE 3  
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES**

			VOCs						SVOCs													
Screening Values (mg/L)			1.0 <sup>1</sup>	0.07 <sup>3</sup>	0.07 <sup>3</sup>	10 <sup>1</sup>		10 <sup>1</sup>	0.42 <sup>1</sup>	0.42 <sup>3</sup>	2.1 <sup>1</sup>	0.00013 <sup>1</sup>	0.0002 <sup>1</sup>	0.00018 <sup>1</sup>	0.21 <sup>3</sup>	0.00017 <sup>1</sup>	28 <sup>1</sup>	0.006 <sup>1</sup>	1.4 <sup>2</sup>	0.012 <sup>1</sup>		0.0003 <sup>1</sup>
Location	Sample ID	Sample Date	Analytical Results (mg/L)																			
P-114R	P114R-ROX-071122	7/11/2022	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.01	0.00028	< 0.00019	< 0.00019	< 0.00019 U	0.000099 J	0.000096 J	< 0.00019	< 0.00019	0.018 J	< 0.0096 H U	< 0.0094	< 0.00019	< 0.0094	0.000096 J
	P114R-ROX-102422	10/24/2022	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.01	0.00043	< 0.00019	< 0.00019	< 0.00021 U	< 0.00027 U	< 0.00026 U	0.00018 J	< 0.00027 U	< 0.028	0.0050 J	< 0.0094	0.00023	< 0.0094	0.00016 J
	P114R-ROX-010623	1/6/2023	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	0.00013 JB	< 0.00019	< 0.00019	< 0.029	< 0.0097	< 0.00019	< 0.0097	< 0.00019
	P114R-ROX-010623-PAH	1/6/2023	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00019 H UJ	--	--	--	--	--	--	--
	P114R-ROX-041323	4/13/2023	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.029	< 0.0098	< 0.0098	< 0.00020	< 0.0098	< 0.00020
ROST-3-MW	ROST3MW-ROX-071222	7/12/2022	< 0.001	< 0.001	< 0.001	0.0026 J	< 0.005	0.0026 J	0.000085 J	0.000057 J	< 0.00019	< 0.00019 U	0.00011 J	< 0.00019 U	< 0.00019	< 0.00019	< 0.029	< 0.0096	< 0.0096	< 0.00019	< 0.0096	< 0.00019
	ROST3MW-ROX-102722	10/27/2022	< 0.001	< 0.001	< 0.001	0.00071 J	< 0.005	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.028	< 0.0093	< 0.0093	< 0.00019	< 0.0093	< 0.00019
	ROST3MW-ROX-010523	1/5/2023	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.031	< 0.01	< 0.01	< 0.00021	< 0.01	< 0.00021
	ROST3MW-ROX-041123	4/11/2023	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.029	< 0.0098	< 0.0098	< 0.00020	< 0.0098 UJ	< 0.00020
ROST-4-PZ(C)	ROST4PZ(C)-ROX-071422	7/14/2022	< 0.001	0.0099	0.0023	0.041	0.0011 J	0.042	0.0015 J	< 0.00019	0.00043	0.000082 J	0.00017 J	< 0.00019	< 0.00019	< 0.00019	< 0.029	< 0.0095	< 0.0095	< 0.00019	< 0.0095	< 0.00019
	ROST4PZ(C)-ROX-102822	10/28/2022	< 0.001	0.011	0.0025	0.023	0.0015 J	0.025	< 0.00093	0.00033 J	0.00047	< 0.00019 U	< 0.00019	< 0.00019	< 0.00019 UJ	< 0.00019	< 0.028	< 0.0093	< 0.0093	< 0.00019	< 0.0093	0.000065 J
	ROST4PZ(C)-ROX-011323	1/13/2023	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.01	0.00080	< 0.00021	0.00038	< 0.00021	< 0.00021	< 0.00021	< 0.00021 UJ	< 0.031	< 0.01	< 0.01	< 0.00021	< 0.01	< 0.00021	
	ROST4PZ(C)-ROX-041723	4/17/2023	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.01	0.00059	0.00016 J	0.00043	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	0.019 J	< 0.0096	< 0.0096	< 0.00019	< 0.0096	< 0.00019
ROST-4-PZ(E)	ROST4PZ(E)-ROX-071522	7/15/2022	< 0.001	0.16 J	0.024	0.27 J	0.033	0.31 J	0.0050 J	0.00065	0.0043 J	0.00022	0.00018 J	0.000059 J J	< 0.00019	< 0.00019	< 0.029	< 0.0095 H UJ	< 0.0096	0.00032	< 0.0096	< 0.00019
	ROST4PZ(E)-ROX-071522-DUP	7/15/2022	< 0.001	0.12 J	0.018	0.21 J	0.026	0.23 J	0.0029 J	0.00033	0.0012 J	0.000095 J	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.029	< 0.0096	< 0.0096	< 0.00019	< 0.0096	< 0.00019
	ROST4PZ(E)-ROX-102822	10/28/2022	< 0.001	0.13	0.013	0.21	0.026	0.24	0.0030	0.00056 J	< 0.00019	< 0.00019 U	< 0.00019	< 0.00019 UJ	< 0.00019	< 0.00019	< 0.028 UJ	< 0.0094	< 0.0094	0.00010 J	< 0.0094	< 0.00019
	ROST4PZ(E)-ROX-102822-DUP	10/28/2022	< 0.001	0.13	0.013	0.22	0.027	0.24	0.0030	0.00048 J	< 0.00019	< 0.00019 U	< 0.00019	< 0.00019 UJ	< 0.00019	< 0.00019	< 0.028	< 0.0093	< 0.0093	0.000090 J	< 0.0093	< 0.00019
	ROST4PZ(E)-ROX-011023	1/10/2023	< 0.001	0.12	0.0066	0.097	0.014	0.11	0.0040	0.00064	0.0017	0.00015 J	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.028	< 0.0095	< 0.0095	0.00015 J	< 0.0095	< 0.00019
	ROST4PZ(E)-ROX-041823	4/18/2023	< 0.001	0.061	0.0013	0.031	0.0058	0.037	0.0016	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.03	< 0.0098	< 0.0098	0.00016 J	< 0.0098	< 0.00020
ROST4PZ(E)-ROX-041823-DUP	4/18/2023	< 0.001	0.057	0.0014	0.032	0.0062	0.038	0.0013	0.00038	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.029	< 0.0097	< 0.0097	< 0.00019	< 0.0097	< 0.00019	
ROST-4-PZ(G)	ROST4PZ(G)-ROX-071222	7/12/2022	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019 U	0.00011 J J	< 0.00019 U	< 0.00019	< 0.00019	0.016 J	< 0.0095	< 0.0095	< 0.00019	< 0.0095	0.00017 J J
	ROST4PZ(G)-ROX-102722	10/27/2022	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.01	< 0.00019	< 0.00019	0.000075 J	< 0.00019	0.00044	0.00038	< 0.00019	0.00038	< 0.028	< 0.0094	< 0.0094	0.00016 J	< 0.0094	0.00024
	ROST4PZ(G)-ROX-102722-PAH	10/27/2022	--	--	--	--	--	--	< 0.00019 H UJ	< 0.00019 H UJ	0.000067 J H J	< 0.00037 H UJ	< 0.00037 H UJ	< 0.00037 H UJ	< 0.00037 H UJ	< 0.00037 H UJ	--	--	--	< 0.00037 H UJ	--	< 0.00037 H UJ
	ROST4PZ(G)-ROX-010623	1/6/2023	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.029	< 0.0097	< 0.0097	< 0.00019	< 0.0097	< 0.00019
ROST4PZ(G)-ROX-041423	4/14/2023	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.029	< 0.0098	< 0.0098	< 0.00020	< 0.0098	< 0.00020	
T-12	T12-ROX-071422	7/14/2022	< 0.01	< 0.01	0.011	0.067	< 0.05	0.067 J	< 0.00020 UJ	< 0.00020	< 0.00020	0.00012 J	0.00020	0.000067 J	< 0.00020	< 0.00020	< 0.03	< 0.0098	< 0.0098	< 0.00020	< 0.0098	0.000063 J
	T12-ROX-110122	11/1/2022	< 0.005	0.0059	0.011	0.059	0.0051 J	0.064	0.00027	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.03	0.0055 J	< 0.01	< 0.00020	< 0.01	< 0.00020
	T12-ROX-011123	1/11/2023	< 0.01	0.019	0.022	0.11	0.0079 J	0.12	0.00032	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.029 UJ	< 0.0095	< 0.0095	< 0.00019	< 0.0095	< 0.00019
	T12-ROX-011123-DUP	1/11/2023	< 0.01	0.018	0.022	0.11	0.0076 J	0.12	0.00026	0.00011 J J	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.029	< 0.0095	< 0.0095	< 0.00019	< 0.0095	< 0.00019
	T12-ROX-042023	4/20/2023	< 0.01	< 0.01	0.0094 J	0.04 J	< 0.05	0.044 J	0.00023	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.03	< 0.01	< 0.01	< 0.00020	< 0.01	< 0.00020











TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

Table with columns for SVOCs (Dibenzofuran, Diethyl phthalate, 2,4-Dimethylphenol, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Indene, Indeno(1,2,3-cd)pyrene, 1-Methylnaphthalene, 2-Methylnaphthalene, 2-Methylphenol (o-Cresol), 3,4-Methylphenol, Nitrobenzene, Phenanthrene, Phenol, Pyrene, Pyridine) and rows for locations like P-114R, ROST-3-MW, ROST-4-PZ(C), ROST-4-PZ(E), ROST-4-PZ(G), and T-12, including screening values and analytical results.

Notes

- 1 Denotes screening criteria source from 35 I.A.C. 620, Subpart D.
2 Denotes screening criteria source from 35 I.A.C. 742 (TACO), Appendix B, Table E.
3 Denotes screening criteria source from L EPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables).

Groundwater monitoring wells designated for sampling in the Interim Groundwater Monitoring Program, P-55R, P-66, and P-68, contained LNAPL; therefore, these wells were not sampled.

The screened interval for certain monitoring wells was adjusted based on an evaluation of the results of annual bottom depth gauging conducted in the first quarter of each year.

LABORATORY QUALIFIERS

- J = The analyte was detected below the reporting limit. Result is estimated.
H = Analyzed or extracted out of holding time criteria.
F2 = Indicates MS/MSD RPD is outside acceptance limit.
\*+ = Indicates LCS and/or LCSD is outside acceptance limit, high biased
\*1 = LCS/LCSD RPD is outside contol limit
<# ## Indicates the analyte was not detected above the given reporting limit.

Legend table with colored boxes: light yellow for historical exceedance, yellow for current exceedance, empty shaded for rejected/not analyzed, and -- for empty cell with rejected/not analyzed.

- Indicates a historical exceedance of screening criteria.
Indicates a current exceedance of screening criteria.
Empty shaded cell without a value indicates previous quarter analyte result was rejected or the analyte was not analyzed.
Empty cell without a value indicates current quarter analyte result was rejected or the analyte was not analyzed.