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Letter of Transmittal

Attention: Mr. Christopher Black Date: May 12, 2016
Environmental Scientist

Address USEPA Region 5
77 West Jackson Blvd. LU-9J
Chicago, IL 60604

Project references: Former Warner Electric, Roscoe, IL Project number: 60343108.001

We are sending you the following:

Number of originals:	Number of copies:	Description:
2	1 (electronic)	2016 First Quarter Progress Report, Former Warner Electric Division, Dana Companies, LLC, Roscoe, IL

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REMARKS:

SIGNED: James A. Buss
James A. Buss, P.G.

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May 12, 2016

Mr. Chris Black
EPA Project Coordinator
U.S. Environmental Protection Agency, Region 5
77 West Jackson Blvd.
Corrective Action Section, LU-9J
Chicago, IL 60604-3590

Subject: 2016 First Quarter Progress Report, Former Warner Electric Clutch and Brake Facility, Roscoe, Illinois (RCRA-05-2013-0005)

Dear Mr. Black:

This progress report documents the results of groundwater monitoring activities at the former Warner Electric Clutch and Brake facility (Warner) in Roscoe, Illinois following the first quarter monitoring in 2016. This report is provided in accordance with the Amended Administrative Order on Consent (AAOC) between Dana Companies LLC (Dana) and the United States Environmental Protection Agency Region 5 (USEPA), dated April 17, 2013. This report supports the USEPA letter of June 17, 2014, which found that the project has successfully completed construction of the remedy, which is designed to achieve long term protection of human health and the environment (CA550 – event code).

Overall, the monitoring results are consistent with past sampling events. With one exception, on-site source area and long term monitoring wells show chlorinated volatile organic compound (CVOC) concentrations well below the Intermediate Cleanup Criteria and in many cases below the Long Term Cleanup Criteria. More importantly, long term monitoring wells at and near the facility property boundary, as well as those along Edgemere Terrace, continue to show concentrations below the Intermediate Cleanup Criteria and in most cases below the Long Term Cleanup Criteria.

As discussed during our April 25 conference call, the success of remedial efforts at this site have resulted in stable conditions at many of the 19 monitoring wells included in our sampling program. Given the frequent quarterly sampling program this has resulted in a dataset that is notable for its consistency. Samples show very little, if any, change in concentration from sampling period to sampling period, often with results at or near the reporting limits. Based on this, we have modified our request for changing the frequency of sampling. We are proposing to continue sampling all 19 of the monitoring points on a semi-annual (twice per year) basis. However, we also propose to maintain quarterly sampling at locations where we have seen variation that might be considered outside the inherent precision of the analytical method.

In addition, we are also proposing to modify potential contingency response actions that would be undertaken in the highly unlikely event that groundwater concentrations in monitoring wells along Edgemere Terrace were to exceed the Intermediate Cleanup Criteria.

Results from this monitoring event support these requests as outlined in the Recommendations Section at the end of this letter.

Background

Historically, Dana conducted remedial activities at the Warner site under an Administrative Order on Consent (AOC) between the USEPA and Dana, dated December 28, 1989. During most of the time the AOC was in place, remediation was accomplished through the capture and treatment of affected

groundwater near the Rock River, approximately 1.25 miles downgradient from the Warner facility (Figure 1). However, the system became increasingly inefficient and ineffective as concentrations of hazardous constituents, primarily trichloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE), decreased over time. By 2007, influent concentrations had decreased to a level below the National Pollution Discharge Elimination System (NPDES) permitted effluent limits, and the system no longer provided any substantive remedial benefit.

At this point, Dana approached the USEPA and requested an amendment to the AOC to refocus remedial activities to the Warner facility where residual impacts remained. As part of this effort, Dana developed the 2007 Work Plan that employed enhanced reductive dechlorination (ERD) and soil vapor extraction (SVE) to address residual subsurface impacts at the facility, and groundwater monitoring to document the success of remedial efforts. In 2009, following revisions to address USEPA comments, a final version of the Work Plan was approved by the USEPA.

In 2010, the USEPA issued a Statement of Basis outlining historic remedial efforts at the site and revised the planes of performance for long-term remediation at the site.

To expedite remediation of the facility, Dana voluntarily undertook the remedial efforts outlined in the Work Plan prior to the promulgation of the revised AOC. In April 2010, an ERD program, consisting of 300 injection points was implemented and the SVE system was brought on-line. The SVE system operated until September 2011, when influent sampling showed the system had reduced concentrations by a factor of nearly 9,000x and little rebound was noted following system shutdown. In 2013, when groundwater levels rose following a drought, TCE concentrations in the source area increased. To address this, Dana conducted a supplemental ERD program, which returned CVOC concentrations to levels well below the Intermediate Cleanup Criteria. Also in 2013, the AAOC, which provides the current regulatory framework for continued remedial activities, was implemented.

The AAOC uses the existing groundwater treatment system as a contingency in the event that results from monitoring wells on Edgemere Terrace exceed the Intermediate Cleanup Criteria. However, as noted in the 2009 Work Plan and the USEPA Statement of Basis (USEPA, 2010), the groundwater treatment system has reached the end of its effective life. It is highly wasteful of water, energy inefficient, and does nothing to reduce CVOC concentrations. Nevertheless, Dana appreciates the need to retain a contingency that can be relied upon to reduce CVOC concentrations to levels below the Intermediate Cleanup Criteria in the unlikely event the CVOC concentrations in monitoring wells on Edgemere Terrace were to exceed the criteria. To this end, we propose use of enhanced reductive dechlorination (ERD) as a more appropriate and proven remedial contingency that would reduce CVOC concentrations, not simply capture them. This contingency is addressed in more detail in the recommendations section of this letter.

Groundwater Monitoring

Since 2009, groundwater monitoring has been conducted quarterly at a series of 19 monitoring wells in accordance with the 2009 Work Plan. Figure 2 depicts location of the monitoring wells relative to the facility and the Rock River.

During the week of March 11, 2016, AECOM collected quarterly groundwater samples from 19 monitoring wells. As in the past, samples were collected using low-flow sampling techniques with a bladder pump. Stabilization was accomplished with field readings of pH, specific conductance, temperature, dissolved oxygen, and ORP. Following stabilization, laboratory-supplied sample containers were filled directly from the pump discharge without filtration. Samples were stored on ice prior to delivery to the PACE Analytical Services, Inc., (PACE) for laboratory analysis of the site-related CVOCs and total chromium. Quality control samples included field duplicates and rinse blanks (10 percent of the samples collected), trip blanks (one per cooler), laboratory method blanks, and surrogate spike samples.

Tables 1 through 4 present tabulated summaries of the field and laboratory analysis. Figures 3 through 22 present time concentration graphs for TCE and cis-1,2-DCE. Attachment A contains the laboratory analytical report. Following are pertinent observations regarding the results and trends noted on the figures and tables.

On-site Source Area Wells MW-101 through MW-107 (Table 1, Figures 3 through 9):

- Wells MW-101 and MW-102 (Figure 3 and Figure 4) showed low TCE concentrations that, while above the results from the preceding quarter, were within their historic post-injection concentration range. The stability of analytical results in these wells over the past 5 years makes semi-annual sampling a reasonable frequency at these locations.
- Wells MW-103 and MW-104 (Figure 5 and Figure 6) showed an increase in TCE concentrations to 73.9 and 134 μg/L, respectively. The result from MW-104 is above the intermediate groundwater cleanup criteria. However, a similar, albeit higher result in 2014 was followed by much lower concentrations. While ORP has returned to background levels (35 mVolts) the dissolved oxygen remains low (2.6 mg/L). This suggests conditions favorable for reductive dechlorination remain in the aquifer. Given the variation in results at these wells, quarterly sampling should be continued.
- MW-105 (Figure 7) continued to show only trace TCE concentration (1.0 μg/L). However, the vinyl chloride remained elevated at 28.9 μg/L. As the aquifer returns to aerobic conditions, it is anticipated that vinyl chloride will undergo aerobic oxidation or cometabolism to decrease concentrations below the Long Term Cleanup Criteria. Vinyl chloride has not been detected in the downgradient wells on Hononegah Road or Edgemere Terrace. Table 1 and Figure 7 also show that the TCE concentration increases observed in during the second quarter of 2013 and 2014 in wells MW-103 and MW-104 was reflected with concentrations no higher than 51 μg/L and 16 μg/L in MW-105. This demonstrates a strong degree of natural attenuation immediately down gradient of the source area between MW-104 and MW-105. Given the downgradient proximity of this well to MW-103 and MW-104, quarterly sampling is useful to help monitor the strong reductive dechlorination occurring downgradient from the source area.
- Wells MW-106 and MW-107 (Figure 8 and Figure 9) continue to show trace to low TCE concentrations (less than 10 μg/L) with stable conditions. The stability of analytical results in these wells over the past 5 years makes semi-annual sampling a reasonable frequency at these locations.

On-site Long-term Monitoring Wells - LTMW-01, -02, -03, and -03A (Table 2, Figures 10 through 13):

- Wells LTMW-01 and LTMW-02 (Figure 10 and Figure 11) continue to meet the Long Term Cleanup Criteria for all CVOCs. The stability of analytical results in these wells over the past 5 years makes semi-annual sampling a reasonable frequency at these locations.
- Well LTMW-03 (Figure 12) is a shallow monitoring well near the facility property boundary that reported a low TCE concentration (18.2 μg/L), above the Long Term Cleanup Criteria for TCE (5 μg/L). Vinyl chloride was also reported at 4.7 μg/L above the Long Term Cleanup Criteria (2 μg/L) but much lower than the previous quarterly results. While these results reflect stable conditions, the historic variability of results at this location makes continued quarterly monitoring warranted.
- Well LTMW-03A (Figure 13) is a deep monitoring well near the facility property boundary that reported a low TCE concentration (8.3 μg/L), slightly above the Long Term Cleanup Criteria for TCE (5 μg/L). Vinyl chloride was also reported at 6.4 μg/L above the Long Term Cleanup Criteria (2 μg/L). The stability of analytical results in this well over the past 5 years makes semi-annual sampling a reasonable frequency.

Off-site Long-term monitoring Wells on Hononegah Road - LTMW-04, -05, -06, -07 (Table 3, Figures 14 through 18):

- The wells along Hononegah Road continue to show stable conditions. Figure 14 depicts the long term TCE concentration trend at this location, using both the original well (N1-60), which was abandoned in 2005, as well as the new long term monitoring wells installed in 2009 (LTMW-04 through -07). The figure shows there has been a dramatic reduction in TCE concentration over time. In the late 1980s TCE concentrations ranged from 1,000 to 1,400 µg/L (these high concentrations are not shown on the figure in order to maintain a useful scale for depicting current concentrations). In the 1990s, TCE concentrations decreased to levels below 500 µg/L. From 2000 to 2005, TCE concentrations continued to fall to levels below 50 µg/L where they remain today. Given this long term stable condition, less frequent (semi-annual) monitoring of these wells is recommended. Less frequent monitoring is particularly applicable at these locations since these wells are only used to judge long term concentration trends (as opposed to the source area or Edgemere Terrace, where monitoring results may be used to trigger a contingency response).
- Figure 15 and Figure 18 show that TCE concentrations in wells LTMW-04 and LTMW-07 near the western and eastern boundary of the zone of affected groundwater, respectively, have low TCE concentrations (11.5 µg/L at LTMW-04 and less than 0.33 µg/L at LTMW-07). These results continue to reflect stable and shrinking of the area of affected groundwater at the margins.
- Figure 16 and Figure 17 show that TCE concentrations in wells LTMW-05 and LTMW-06 were consistent with past results at 8.5 and 20.7 µg/L, respectively. This reflects stable conditions near the center of the zone of affected groundwater.
- Quarterly monitoring results and trends in these wells over the past four years, coupled with periodic monitoring dating back to 1987 clearly reflects long-term MNA and reduction in groundwater concentrations. The very stable concentrations over the past four years support a request for less frequent monitoring at these wells.

Off-site Long-term Monitoring Wells along Edgemere Terrace - LTMW-08, -09, -10, -11 (Table 4, Figures 19 through 22):

- Figure 19 and Figure 22 show that wells LTMW-08 and LTMW-11, near the western and eastern boundary of the zone of affected groundwater, respectively, continue to reflect minimal impact with TCE concentrations (less than 3.5 µg/L), below the Long Term Cleanup Criteria (5 µg/L). As with wells LTMW-04 and LTMW-07 on Hononegah Road, this again reflects shrinking margins of the area of affected groundwater.
- Figures 20 and 21 show that wells LTMW-09 and LTMW-10, located near the center of the zone of affected groundwater, reported TCE concentrations (5.4 and 15.8 µg/L, respectively) that are well below the Intermediate Cleanup Criteria (25 µg/L) and only slightly above the Long Term Cleanup Criteria (5 µg/L).
- The long term trends at the four monitoring wells on Edgemere Terrace, clearly reflects that stable and reducing trends in groundwater concentrations of CVOCs. The stability of analytical results in these wells over the past 5 years makes semi-annual sampling a reasonable frequency. The physical, chemical and biological processes acting to attenuate the low to trace concentrations that remain in the aquifer will continue to reduce concentrations to levels below the Long Term Cleanup Criteria. Although there are no reasonable circumstances that could lead to concentrations in these wells rising to levels above the Intermediate Cleanup Criteria, we appreciate the need to maintain a contingency to address this potential issue. However, the current contingency, restarting the groundwater pump and treat system, can no longer effectively or efficiently address the low to trace level CVOC concentrations that remain in the aquifer.

Recommendations

Based on the successful remedial efforts, coupled with the long term stability in monitoring results noted during our conference call on April 25, we propose the following requested modifications to the sampling and contingency programs.

Sampling Request – We respectfully request a modification in the sampling frequency from quarterly to semi-annual at all monitoring wells, with the exception of MW-103, MW-104, MW-105, and LTMW-03, where sampling will continue on a quarterly basis. Table 5 summarizes the current and proposed sample program.

Contingency Request – The AAOC stipulates that the groundwater remediation system on Edgemere Terrace shall be brought back on line in the event that groundwater concentrations in wells along Edgemere Terrace (LTMW-08, -09, -10, and -11) exceed the Intermediate Cleanup Criteria. However, as described in the background section of this letter, the remediation system has reached the end of its effective life. It cannot effectively or efficiently address the low to trace concentrations of CVOCs and shrinking extent of affected groundwater.

Nevertheless, we appreciate the need to maintain an appropriate contingency to address this potential issue. ERD, given its successful application at the Warner facility, would serve as such an appropriate contingency. ERD is flexible; should monitoring show that a well or group of wells was exceeding the Intermediate Criteria, an injection gallery could be designed to address these well(s). The injection gallery would be installed using direct-push drilling methods. Direct-push drilling has previously been successfully employed along Edgemere Terrace and along other streets in Hononegah Country Estates. In addition, application of ERD would lead to the destruction of CVOCs which will reduce the CVOC concentrations, not simply capture the impacted water. Given the very low TCE concentrations along Edgemere Terrace, ERD application would generate virtually no risk of vapor intrusion. ERD is designed to work with the existing physical, chemical and biological processes that are acting to attenuate the CVOCs. Based on successful ERD efforts near the source area, we believe that this option offers a more appropriate and effective contingency to address potential increases of CVOCs in monitoring wells along Edgemere Terrace.

With your concurrence, we will prepare a work plan that will address the modified sampling schedule for wells on Hononegah Road as well as the contingency plan to use ERD in the event groundwater concentration along Edgemere Terrace exceed the Intermediate Criteria.

Conclusions

Dana has conducted quarterly groundwater sampling at 19 monitoring wells associated with the Warner facility for the last five years. Results continue to show that remedial efforts conducted at the source area have been successful. With one exception, concentrations of CVOCs are below Intermediate Cleanup Criteria and in some cases below Long Term Cleanup Criteria. Based on this success, we request that the sampling frequency at all wells in the monitoring program be conducted on a semi-annual basis with the exception of monitoring wells MW-103, MW-104, MW-105, and LTMW-03. As Table 5 shows, the monitoring wells MW-103, MW-104, MW-105, and LTMW-03 will remain on a quarterly sampling schedule. In addition, we have requested approval of ERD as an appropriate contingency to address the potential for CVOC concentrations in monitoring wells along Edgemere Terrace near the Rock River (LTMW-08, LTMW-09, LTMW-10, and LTMW-11) to exceed Intermediate Cleanup Criteria.

Please do not hesitate to contact me at (608) 828-8210 if you have any questions or comments on this letter or the attached figures or tables.

Sincerely,

James A. Buss

James A. Buss, P.G
Project Manager

Cc: Craig Campbell, Dana Companies, LLC

Attachments:
Tables
- Table 1 – Summary of Source Area Monitoring Well Sampling Results
- Table 2 – Summary of On-site Long-term Monitoring Well Sampling Results
- Table 3 – Summary of Hononegah Road Long-term Monitoring Well Sampling Results
- Table 4 – Summary of Edgemere Terrace Long-term Monitoring Well Sampling Results
- Table 5 – Proposed Monitoring Well Sampling Frequency

Figures
- Figure 1 – Site Location Map
- Figure 2 – Monitoring Well Location Plan
- Figure 3 – MW-101 CVOC Concentration Trend
- Figure 4 – MW-102 CVOC Concentration Trend
- Figure 5 – MW-103 CVOC Concentration Trend
- Figure 6 – MW-104 CVOC Concentration Trend
- Figure 7 – MW-105 CVOC Concentration Trend
- Figure 8 – MW-106 CVOC Concentration Trend
- Figure 9 – MW-107 CVOC Concentration Trend
- Figure 10 – LTMW-01 CVOC Concentration Trend
- Figure 11 – LTMW-02 CVOC Concentration Trend
- Figure 12 – LTMW-03 CVOC Concentration Trend
- Figure 13 – LTMW-03A CVOC Concentration Trend
- Figure 14 – Long Term TCE Concentration Trend at Hononegah Road
- Figure 15 – LTMW-04 CVOC Concentration Trend
- Figure 16 – LTMW-05 CVOC Concentration Trend
- Figure 17 – LTMW-06 CVOC Concentration Trend
- Figure 18 – LTMW-07 CVOC Concentration Trend
- Figure 19 – LTMW-08 CVOC Concentration Trend
- Figure 20 – LTMW-09 CVOC Concentration Trend
- Figure 21 – LTMW-10 CVOC Concentration Trend
- Figure 22 – LTMW-11 CVOC Concentration Trend

Laboratory Data
- Attachment 1 – March 2016 Laboratory Analytical Report

TABLES

Tables

Table 1
Source Area Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Inorganics				Volatile Organic Compounds						
Well	Date	Water Depth Feet	Water Elev. Ft. MSL	Sample Temp. °C	pH Std. Units	Spec. Cond. µmhos/cm	ORP mV	Dis. Oxygen mg/L	Dis. Iron µg/L	Dis. Manganese µg/L	Nitrate mg/L	Sulfate mg/L	1,1,1-TCA µg/L	1,1-DCA µg/L	PCE µg/L	TCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Vinyl Chloride µg/L
Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells [1]																100			
MW-101	9/16/2008	25.59	728.29	14.0	6.65	840	311	2.0	NM	NM	NM	NM	<1.0	<1.0	<1.0	35.7	3	<1.0	<1.0
	9/26/2008	NM[2]	NM[2]	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA
	10/8/2008	26.04	727.84	14.6	6.24	2,280	-569	1.5	327,000	5,440	<0.40	29.3	<1.0	1.4	<1.0	134	45.7	<1.0	<1.0
	11/6/2008	26.65	727.23	13.9	7.12	940	-130	1.0	35,700	863	0.73	13.2	<1.0	<1.0	<1.0	7.0	<1.0	<1.0	<1.0
	11/24/2008	27.00	726.88	13.3	7.71	825	-255	0.2	14,700	273	0.51	11.6	<1.0	<1.0	<1.0	12.9	3.2	<1.0	<1.0
	12/15/2008	27.25	726.63	12.9	7.82	788	-273	0.2	12,600	126	<0.40	9.5	<1.0	<1.0	<1.0	6.4	1.3	<1.0	<1.0
	3/10/2010	27.55	726.33	13.7	7.40	724	-128	0.8	3,230	5.7	NM	NM	<1.0	<1.0	<1.0	16.6	6.4	<1.0	<1.0
	5/27/2010	26.96	726.92	15.0	7.22	1127	-152	1.6	40,100	792	NM	5.2	5.6	<1.0	<1.0	40.8	8.1	<1.0	<1.0
	7/1/2010	27.12	726.76	14.7	7.10	740	-10	0.1	7,690	132	NM	11.1	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0
	7/29/2010	26.95	726.93	17.9	7.83	817	-290	0.1	7,870	136	NM	NM	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0
	8/31/2010	26.55	727.33	16.5	7.69	787	-249	0.0	6,030	160	NM	NM	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<1.0
	9/24/2010	27.08	726.80	16.2	7.69	783	-256	0.1	5,860	149	NM	14.2	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<1.0
	11/4/2010	27.79	726.09	14.3	7.54	711	-164	1.0	4,010	189	NM	NM	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<1.0
	11/29/2010	28.23	725.65	13.0	7.54	730	-147	0.7	3,140	174	NM	NM	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0
	12/20/2010	28.48	725.40	13.9	7.43	712	-129	1.6	2,820	126	NM	16.6	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0
	3/22/2011	28.13	725.75	14.2	7.43	716	-145	0.9	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.6	< 0.83	< 0.89	< 0.18
	7/7/2011	28.08	725.80	17.2	7.61	759	-148	0.8	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.7	< 0.83	< 0.89	< 0.18
	9/23/2011	28.79	725.09	28.8	7.44	712	-132	2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.6	< 0.83	< 0.89	< 0.18
	12/21/2011	29.14	724.74	15.8	7.39	665	-120	3.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.5	< 0.83	< 0.89	< 0.18
	3/6/2012	29.5	724.38	15.2	7.47	692	-74	0.6	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.5	< 0.83	< 0.89	< 0.18
	6/7/2012	29.96	723.92	14.8	7.46	716	-125	2.0	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.6	< 0.83	< 0.89	< 0.18
	9/27/2012	32.63	721.25	14.9	7.35	788	-95	4.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	12/20/2012	32.22	721.66	14.9	7.33	795	-38	4.6	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	3/9/2013	31.64	722.24	14.4	7.35	726	-16	4.2	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.50 J	< 0.83	< 0.89	< 0.18
	5/20/2013	27.7	726.18	15.2	7.31	725	-54	3.5	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	4.6	< 0.42	< 0.37	< 0.18
	8/27/2013	26.7	727.18	17.2	7.39	741	-57	3.7	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	4.3	< 0.42	< 0.37	< 0.18
	12/11/2013	28.8	725.08	15.3	7.19	718	5	5.2	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	12.8	< 0.42	< 0.37	< 0.18
	3/11/2014	29.39	724.49	15.2	7.24	725	-74	4.0	NM	NM	NM	NM	0.58 J	0.49 J	< 0.47	22.6	0.90 J	< 0.37	< 0.18
	6/25/2014	28.09	725.79	16.8	7.26	733	23	4.6	NM	NM	NM	NM	0.68 J	0.55 J	< 0.50	24.3	1.9	< 0.26	< 0.18
	9/24/2014	28.25	725.63	15.9	7.28	763	-17	5.2	NM	NM	NM	NM	< 0.50	0.53 J	< 0.50	26.8	3.6	< 0.26	< 0.18
	12/17/2014	29.44	724.44	15.5	7.10	755	19	6.3	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	20.9	1.7	< 0.26	< 0.18
	3/3/2015	30.16	723.72	15.2	7.74	784	3	5.5	NM	NM	NM	NM	< 0.50	0.47 J	< 0.50	16	2.3	< 0.26	< 0.18
	6/17/2015	29.89	723.99	15.9	7.28	767	-6	5.7	NM	NM	NM	NM	0.63 J	0.72 J	< 0.50	19.3	3.6	< 0.26	< 0.18
	9/23/2015	29.87	724.01	16.3	7.22	728	31	6.1	NM	NM	NM	NM	0.75 J	0.96 J	< 0.50	24.5	3.7	< 0.26	< 0.18
	12/16/2015	29.33	724.55	15.6	7.23	758	17	6.3	NM	NM	NM	NM	< 0.50	0.45 J	< 0.50	13.5	3.1	< 0.26	< 0.18
	3/9/2016	28.69	725.19	16.1	7.17	754	50	6.0	NM	NM	NM	NM	0.72 J	< 0.24	< 0.50	26.9	3.1	< 0.26	< 0.18
MW-102	9/16/2008	25.40	728.32	14.0	6.49	854	331	2.0	NM	NM	NM	NM	1.8	<1.0	<1.0	80.7	14.9	<1.0	<1.0
	9/26/2008, S*[3]	NM	NM	15.6	6.96	855	270	8.8	NM	NM	NM	NM	2.3	1	<1.0	106[5]	17.1	<1.0	<1.0
	9/26/2008, D*[4]	NM	NM	15.2	6.97	855	263	7.9	NM	NM	NM	NM	2.6	1.2	<1.0	128	21.8	<1.0	<1.0
	10/8/2008	25.93	727.79	14.5	6.9	1012	-284	1.8	1,230	953	<0.40	22.7	2.1	<1.0	<1.0	100	16.2	<1.0	<1.0
	11/6/2008	26.51	727.21	14.4	6.97	858	-205	0.5	2,470	1,570	<0.40	12.1	1	<1.0	<1.0	75.4	11.5	<1.0	<1.0
	11/24/2008	26.85	726.87	13.1	7.07	837	-229	0.3	6,300	810	<0.40	9.6	<1.0	<1.0	<1.0	43.7	11.7	<1.0	<1.0
	12/15/2008	27.25	726.47	12.5	7.15	725	-210	0.3	4,760	613	<0.40	10.5	<1.0	<1.0	<1.0	23.3	7.0	<1.0	<1.0
	3/9/2010	27.40	726.32	13.8	7.21	754	-69	2.0	1,120	142	NM	NM	<1.0	<1.0	<1.0	22.2	5.5	<1.0	<1.0
	5/27/2010	26.80	726.92	15.5	7.12	808	-153	0.6	6,190	414	NM	8.9	6	1.1	<1.0	86.9	13.4	<1.0	<1.0
	7/1/2010	26.99	726.73	15.1	6.88	710	-5	0.1	2,690	154	NM	9.1	<1.0	<1.0	<1.0	8.4	1.1	<1.0	<1.0
	7/29/2010	26.76	726.96	18.4	7.33	720	-196	0.4	2,260	129	NM	NM	<1.0	<1.0	<1.0	9.9	1.1	<1.0	<1.0
	8/30/2010	26.45	727.27	18.5	7.13	752	-131	0.6	NM	NM	NM	NM	<1.0	<1.0	<1.0	11.9	<1.0	<1.0	<1.0
	9/24/2010	27.08	726.64	16.0	7.27	714	-221	0.7	1,780	138	NM	10.6	<1.0	<1.0	<1.0	5.9	<1.0	<1.0	<1.0
DUP-02	9/24/2010	27.08	726.64	16.0	7.27	714	-221	0.7	1,660	137	NM	10.7	<1.0	<1.0	<1.0	5.8	<1.0	<1.0	<1.0
	11/4/2010	27.63	726.09	14.4	7.53	625	-140	0.6	1,360	150	NM	NM	<1.0	<1.0	<1.0	3.1	<1.0	<1.0	<1.0
	11/29/2010	28.04	725.68	12.9	7.45	644	-124	0.8	1,330	123	NM	NM	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	<1.0
	12/20/2010	28.32	725.40	13.9	7.38	622	-80	1.9	1,220	111	NM	10.2	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0
	3/22/2011	27.99	725.73	14.1	7.30	667	-95	1.7	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.2	< 0.83	< 0.89	< 0.18
	7/7/2011	27.90	725.82	17.6	7.42	750	-51	1.8	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.1	< 0.83	< 0.89	< 0.18
	9/23/2011	28.68	725.04	15.7	7.32	703	-42	2.8	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.3	< 0.83	< 0.89	< 0.18
	12/21/2011	29	724.72	15.8	7.36	642	-75	2.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	3.5	< 0.83	< 0.89	< 0.18

Table 1
Source Area Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Inorganics				Volatile Organic Compounds						
Well	Date	Water Depth Feet	Water Elev. Ft. MSL	Sample Temp. °C	pH Std. Units	Spec. Cond. µmhos/cm	ORP mV	Dis. Oxygen mg/L	Dis. Iron µg/L	Dis. Manganese µg/L	Nitrate mg/L	Sulfate mg/L	1,1,1-TCA µg/L	1,1-DCA µg/L	PCE µg/L	TCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Vinyl Chloride µg/L
Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells [1]																100			
MW-102	3/6/2012	29.5	724.22	15.1	7.50	655	-55	0.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	4.1	< 0.83	< 0.89	< 0.18
continued	6/7/2012	29.84	723.88	14.5	7.38	665	-50	0.6	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	3.2	< 0.83	< 0.89	< 0.18
	9/27/2012	31.50	722.22	14.7	7.53	691	-120	0.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.8 J	< 0.83	< 0.89	< 0.18
DUP-02	9/27/2012	31.50	722.22	14.7	7.53	691	-120	0.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.76 J	< 0.83	< 0.89	< 0.18
	12/20/2012	32.05	721.67	14.9	7.43	736	-81	1.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.67 J	< 0.83	< 0.89	< 0.18
DUP-02	12/20/2012	32.05	721.67	14.9	7.43	736	-81	1.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.64 J	< 0.83	< 0.89	< 0.18
	3/9/2013	31.49	722.23	14.6	7.34	710	-29	2.3	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	6	< 0.83	< 0.89	< 0.18
DUP-02	3/9/2013	31.49	722.23	14.6	7.34	710	-29	2.3	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	6.1	< 0.83	< 0.89	< 0.18
	5/20/2013	27.58	726.14	15.1	7.33	692	-41	1.0	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	6.5	0.65 J	< 0.37	< 0.18
DUP-02	5/20/2013	27.58	726.14	15.1	7.33	692	-41	1.0	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	8.1	0.69 J	< 0.37	< 0.18
	8/27/2013	26.55	727.17	16.2	7.23	721	-117	2.2	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	13.9	0.60 J	< 0.37	< 0.18
DUP-02	8/27/2013	26.55	727.17	16.2	7.23	721	-117	2.2	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	13.5	0.71 J	< 0.37	< 0.18
	12/11/2013	28.61	725.11	15.6	7.23	688	-6	1.7	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	6.9	2	< 0.37	< 0.18
	3/12/2014	29.23	724.49	13.3	7.26	701	-87	1.5	NM	NM	NM	NM	< 0.44	0.35 J	< 0.47	25.7	4.1	< 0.37	< 0.18
DUP-02	3/12/2014	29.23	724.49	13.3	7.26	701	-87	1.5	NM	NM	NM	NM	< 0.44	0.38 J	< 0.47	26.9	4.3	< 0.37	< 0.18
	6/25/2014	27.94	725.78	19.2	7.15	739	58	2.8	NM	NM	NM	NM	0.57 J	0.37 J	< 0.50	36.2	4.5	< 0.26	< 0.18
DUP-02	6/25/2014	27.94	725.78	19.2	7.15	739	58	2.8	NM	NM	NM	NM	0.71 J	0.39 J	< 0.50	35.6	4.3	< 0.26	< 0.18
	9/24/2014	28.07	725.65	16.4	7.27	736	50	4.0	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	10.9	1.1	< 0.26	< 0.18
DUP-02	9/24/2014	28.07	725.65	16.4	7.27	736	50	4.0	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	10.6	0.87 J	< 0.26	< 0.18
	12/17/2014	29.28	724.44	16.1	7.28	718	-9	2.3	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	9.8	1.8	< 0.26	< 0.18
DUP-02	12/17/2014	29.28	724.44	16.1	7.28	718	-9	2.3	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	9.5	1.8	< 0.26	< 0.18
	3/3/2015	30.01	723.71	15.3	7.95	735	-23	0.8	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	13.6	2.0	< 0.26	< 0.18
DUP-02	3/3/2015	30.01	723.71	15.3	7.95	735	-23	0.8	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	14.7	2.0	< 0.26	< 0.18
	6/17/2015	29.75	723.97	16.7	7.41	697	-16	1.6	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	8.3	1.4	< 0.26	< 0.18
DUP-02	6/17/2015	29.75	723.97	16.7	7.41	697	-16	1.6	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	7.6	1.5	< 0.26	< 0.18
	9/23/2015	29.72	724.00	16.0	7.35	658	6	1.2	NM	NM	NM	NM	< 0.50	0.42 J	< 0.50	18.6	3.3	< 0.26	< 0.18
DUP-02	9/23/2015	29.72	724.00	16.0	7.35	658	6	1.2	NM	NM	NM	NM	< 0.50	0.30 J	< 0.50	17.2	2.9	< 0.26	< 0.18
	12/16/2015	29.23	724.49	15.7	7.31	716	7	2.0	NM	NM	NM	NM	< 0.50	0.30 J	< 0.50	13.2	2.9	< 0.26	< 0.18
DUP-02	12/16/2015	29.23	724.49	15.7	7.31	716	7	2.0	NM	NM	NM	NM	< 0.50	0.26 J	< 0.50	12	2.6	< 0.26	< 0.18
	3/9/2016	28.55	725.17	16.3	7.19	691	51	2.2	NM	NM	NM	NM	0.52 J	0.57 J	< 0.50	51.9	2.6	< 0.26	< 0.18
DUP-02	3/9/2016	28.55	725.17	16.3	7.19	691	51	2.2	NM	NM	NM	NM	1.2	0.73 J	< 0.50	52.7	2.6	< 0.26	< 0.18
MW-103	9/16/2008	25.4	728.28	14.3	6.65	864	344	2..0	NM	NM	NM	NM	1.3	< 1.0	<1.0	132	23.1	<1.0	<1.0
	9/26/2008	NM	NM	14.2	6.93	867	243	8.7	NM	NM	NM	NM	<5.0	< 5.0	<5.0	230	39.9	<5.0	<5.0
	10/8/2008	25.96	727.72	14.1	6.88	984	-93	3.9	969	758	2.3	22.6	1.3	< 1.0	<1.0	149	23.3	<1.0	<1.0
	11/6/2008	26.57	727.11	14.4	6.89	906	-200	1.2	2,440	1,340	0.41	12.2	1.1	< 1.0	<1.0	120	19.7	<1.0	<1.0
	11/24/2008	26.86	726.82	13.4	6.88	948	-244	0.3	2,770	1,170	<0.40	7.3	<1.0	< 1.0	<1.0	78.2	23.3	<1.0	<1.0
	12/15/2008	27.27	726.41	13.5	7.14	774	-223	0.2	3,240	512	<0.40	4.4	<1.0	< 1.0	<1.0	62.0	44.8	<1.0	<1.0
	3/9/2010	27.40	726.28	13.8	7.19	729	-59	0.7	276	443	NM	NM	<1.0	< 1.0	<1.0	40.6	10.7	<1.0	<1.0
	5/27/2010	26.82	726.86	15.8	7.01	837	-175	0.3	5,070	462	NM	4	<1.0	< 1.0	<1.0	1.9	51.1	<1.0	<1.0
	7/1/2010	27.03	726.65	15.0	6.85	763	-6	0.1	4,180	326	NM	5.1	<1.0	< 1.0	<1.0	3.2	28.6	<1.0	<1.0
	7/29/2010	26.90	726.78	18.8	7.29	759	-222	0.4	3,230	233	NM	NM	<1.0	< 1.0	<1.0	11.3	14.5	<1.0	<1.0
	8/30/2010	26.41	727.27	18.2	7.18	726	-175	0.2	2,720	219	NM	NM	<1.0	< 1.0	<1.0	11.3	6.4	<1.0	<1.0
	9/24/2010	26.90	726.78	16.6	7.28	721	-270	0.2	1,880	202	NM	13.7	<1.0	< 1.0	<1.0	13.0	3.9	<1.0	<1.0
	11/4/2010	27.62	726.06	14.6	7.43	665	-141	0.4	1,880	188	NM	13.7	<1.0	< 1.0	<1.0	10.0	1.8	<1.0	<1.0
	11/29/2010	28.10	725.58	12.9	7.39	675	-125	0.4	1,680	178	NM	NM	<1.0	< 1.0	<1.0	12.4	1	<1.0	<1.0
	12/20/2010	28.30	725.38	14.0	7.35	645	-110	1.6	1,790	157	NM	15.6	<1.0	< 1.0	<1.0	6.2	<1.0	<1.0	<1.0
DUP-01	12/20/2010	28.30	725.38	14.0	7.35	645	-110	1.6	1,880	160	NM	15.4	<1.0	< 1.0	<1.0	5.7	<1.0	<1.0	<1.0
	3/22/2011	27.95	725.73	14.2	7.33	723	-128	0.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	3.1	< 0.83	< 0.89	< 0.18
	7/7/2011	27.84	725.84	17.7	7.35	762	-74	0.5	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	6.6	< 0.83	< 0.89	< 0.18
	9/23/2011	28.63	725.05	15.6	7.32	719	-99	1.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.3	< 0.83	< 0.89	< 0.18
	12/21/2011	28.98	724.70	15.6	7.25	654	-101	2.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.9	< 0.83	< 0.89	< 0.18
	3/6/2012	29.52	724.16	15.2	7.36	699	-92	0.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.0	< 0.83	< 0.89	< 0.18
DUP-02	3/6/2012	29.52	724.16	15.2	7.36	699	-92	0.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.2	< 0.83	< 0.89	< 0.18
	6/7/2012	29.81	723.87	15.3	7.22	707	-39	0.3	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.0	< 0.83	< 0.89	< 0.18
	9/27/2012	31.50	722.18	14.8	7.30	736	-70	0.0	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.2	< 0.83	< 0.89	< 0.18
	12/20/2012	32.06	721.62	14.9	7.30	749	38	0.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.7	< 0.83	< 0.89	< 0.18
	3/9/2013	31.47	722.21	14.7	7.24	719	69	0.7	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	82.9	10	< 0.89	< 0.18
	5/20/2013	27.54	726.14	15.2	7.23	727	42	4.6	NM	NM	NM	NM	< 2.2	< 1.4	< 2.4	355	35.7	< 1.9	< 0.92
	8/27/2013	26.56	727.12	16.6	6.45	1645	-22	1.0	NM	NM	NM	NM	0.71	0.30 J	< 0.47	109	23.5	< 0.37	< 0.18
	10/23/2013	27.97	725.71	15.5	7.02	873	-163	0.1	NM	NM	NM	NM	<0.44	< 0.28	< 0.47	7.3	25.2	< 0.37	< 0.18
	11/25/2013	28.38	725.30	15.6	7.23	736	-131	0.1	NM	NM	NM	NM	<0.44	< 0.28	< 0.47	6.5	6.8	< 0.37	< 0.18
	12/11/2013	28.65	725.03	15.5	7.27	687	-119	0.1	NM	NM	NM	NM	<0.44	< 0.28	< 0.47	9.5	5.6	< 0.37	< 0.18
	3/11/2014	29.24	724.44	15.5	7.40	677	-115	0.6	NM	NM	NM	NM	<0.44	< 0.28	< 0.47	9.6	4.2	< 0.37	< 0.18
	6/25/2014	27.93	725.75	16.1	7.25	735	-97	0.1	NM	NM	NM	NM	0.63 J	0.94 J	< 0.50	85.2	15.9	< 0.26	< 0.18
	9/24/2014	28.08	725.60	15.9	7.30	748	-91	0.1	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	34.1	7.3	< 0.26	< 0.18
	12/17/2014	29.29	724.39	15.6	7.13	782	-49	1.2	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	17.7	4.2	< 0.26	< 0.18
	3/3/2015	29.99	723.69	15.4	7.97	779	-55	0.3	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	28	5.4	< 0.26	< 0.18
	6/17/2015	29.72	723.96	15.9	7.25	748	-13	0.8	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	18.4	3.9	< 0.26	< 0.18
	9/23/2015	29.71	723.97	16.0	7.25	703	-2	0.7	NM	NM	NM	NM	< 0.50	1.4	< 0.50	47.0	18.5	< 0.26	< 0.18
	12/16/2015	29.19	724.49	15.7	7.22	720	16	2.9	NM	NM	NM	NM	< 0.50	0.52 J	< 0.50	58.8	15.5	< 0.26	< 0.18
	3/9/2016	28.55	725.13	16.1	7.18	731	30	0.5	NM	NM	NM	NM	< 0.50	1.6	< 0.50	73.9	22.7	< 0.26	< 0.18

Table 1
Source Area Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Inorganics				Volatile Organic Compounds						
Well	Date	Water Depth Feet	Water Elev. Ft. MSL	Sample Temp. °C	pH Std. Units	Spec. Cond. µmhos/cm	ORP mV	Dis. Oxygen mg/L	Dis. Iron µg/L	Dis. Manganese µg/L	Nitrate mg/L	Sulfate mg/L	1,1,1-TCA µg/L	1,1-DCA µg/L	PCE µg/L	TCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Vinyl Chloride µg/L
Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells [1]																100			
MW-104	9/16/2008	25.47	728.23	14.3	6.79	842	337	2	NM	NM	NM	NM	1.4	1	<1.0	172	27.4	<1.0	<1.0
	9/26/2008 (S*)	NM	NM	14.8	6.87	868	166	8.4	NM	NM	NM	NM	<5.0	<5.0	<5.0	356	59.3	<5.0	<5.0
	9/26/2008 (D*)	NM	NM	14.5	6.80	858	176	7.8	NM	NM	NM	NM	<5.0	<5.0	<5.0	256	41.2	<5.0	<5.0
	10/8/2008	26.01	727.69	14.1	7.13	849	226	8.3	1,250	47.7	5.9	22.2	<2.0	<2.0	<2.0	157	21.7	<2.0	<2.0
	11/6/2008	26.62	727.08	14.6	6.82	954	-127	3.2	<100	830	1.3	22.2	<2.5	<2.5	<2.5	150	51.4	<2.5	<2.5
	11/24/2008	26.95	726.75	12.0	6.64	893	-158	0.9	644	950	<0.40	12.6	1.8	<1.0	<1.0	126.0	51	<1.0	<1.0
	12/15/2008	27.34	726.36	12.6	7.03	759	-201	0.5	557	800	<0.40	10.5	1.5	<1.0	<1.0	109.0	34.9	<1.0	<1.0
	3/9/2010	27.49	726.21	13.9	7.13	751	-23	0.5	196	474	NM	NM	<1.0	<1.0	<1.0	61.1	20.9	<1.0	<1.0
	5/27/2010	26.91	726.79	15.0	7.00	843	-180	0.2	2,840	602	NM	6.7	5.5	<1.0	<1.0	15.7	112	<1.0	<1.0
	7/1/2010	27.1	726.60	15.2	6.83	760	-6	0.1	3,570	280	NM	8.5	<1.0	<1.0	<1.0	2.8	68.3	<1.0	<1.0
	7/29/2010	26.88	726.82	18.3	7.19	787	-212	0.5	3,240	292	NM	NM	<1.0	<1.0	<1.0	8.3	31.2	<1.0	<1.0
DUP-01	7/29/2010	26.88	726.82	18.3	7.19	787	-212	0.5	3,140	285	NM	NM	<1.0	<1.0	<1.0	7.6	32.2	<1.0	<1.0
	8/30/2010	26.55	727.15	18.8	7.06	785	-163	0.2	2,720	315	NM	NM	<1.0	<1.0	<1.0	9.4	12.4	<1.0	<1.0
	9/24/2010	26.94	726.76	16.6	7.24	758	-253	0.3	2,330	297	NM	13.9	<1.0	<1.0	<1.0	11.4	5.8	<1.0	<1.0
	11/4/2010	27.67	726.03	14.8	7.33	698	-129	0.2	2,220	289	NM	NM	<1.0	<1.0	<1.0	14.6	3.3	<1.0	<1.0
	11/29/2010	28.15	725.55	13.2	7.31	719	-119	0.6	2,010	268	NM	NM	<1.0	<1.0	<1.0	14.0	2.0	<1.0	<1.0
	12/20/2010	28.34	725.36	14.3	7.23	703	-83	2.7	1,820	258	NM	19.3	<1.0	<1.0	<1.0	15.0	3.0	<1.0	<1.0
	3/22/2011	28.08	725.62	14.3	7.29	677	-122	0.2	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.4	< 0.83	< 0.89	< 0.18
DUP-02	3/22/2011	28.08	725.62	14.3	7.29	677	-122	0.2	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.3	< 0.83	< 0.89	< 0.18
	7/7/2011	27.94	725.76	18.1	7.30	780	-54	0.7	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	11.7	< 0.83	< 0.89	< 0.18
	9/23/2011	28.7	725.00	16.3	7.23	725	-70	1.8	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	8.8	< 0.83	< 0.89	< 0.18
	12/21/2011	29.06	724.64	15.9	7.09	722	-55	2.2	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	3.8	< 0.83	< 0.89	< 0.18
	3/6/2012	29.59	724.11	14.9	7.28	734	-56	0.3	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.0	< 0.83	< 0.89	< 0.18
	6/7/2012	29.88	723.82	16.0	7.23	705	-7	0.5	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.4	< 0.83	< 0.89	< 0.18
	9/27/2012	31.59	722.11	14.8	7.27	719	-75	0.0	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.93 J	< 0.83	< 0.89	< 0.18
	12/20/2012	32.12	721.58	14.9	7.28	734	-50	0.0	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.80 J	< 0.83	< 0.89	< 0.18
	3/9/2013	31.53	722.17	14.7	7.26	719	4	0.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	5.3	< 0.83	< 0.89	< 0.18
	5/20/2013	27.61	726.09	15.1	7.18	719	23	3.5	NM	NM	NM	NM	< 0.44	0.58 J	< 0.47	218	38	< 0.37	< 0.18
	8/27/2013	26.67	727.03	17.2	7.19	740	76	4.6	NM	NM	NM	NM	0.59 J	< 0.28	< 0.47	143	7.8	< 0.37	< 0.18
	10/23/2013	28.03	725.67	15.2	6.88	1030	-103	0.3	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	<0.36	13.8	< 0.37	< 0.18
	11/25/2013	28.41	725.29	15.8	7.05	754	-128	0.1	NM	NM	NM	NM	< 0.44	0.41 J	< 0.47	2	65.4	< 0.37	< 0.18
	12/11/2013	28.74	724.96	15.7	7.09	706	-112	0.2	NM	NM	NM	NM	< 0.44	0.35 J	< 0.47	2.4	49.3	< 0.37	< 0.18
	3/11/2014	29.31	724.39	15.1	7.28	728	-119	0.2	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	9.6	10.3	< 0.37	< 0.18
	6/25/2014	28.01	725.69	16.2	7.15	826	-60	0.6	NM	NM	NM	NM	0.72 J	2.1	< 0.50	201	61.3	< 0.26	< 0.18
	9/24/2014	28.18	725.52	15.8	7.19	753	-69	0.04	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	99.2	10.8	< 0.26	< 0.18
	12/17/2014	29.36	724.34	15.5	7.14	765	-94	1.0	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	22.0	4.6	< 0.26	< 0.18
	3/3/2015	30.08	723.62	15.2	7.96	761	-95	0.1	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	8.8	2.4	< 0.26	< 0.18
	6/17/2015	29.79	723.91	17.0	7.24	728	-40	1.6	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	17.5	5.8	< 0.26	< 0.18
	9/23/2015	29.77	723.93	16.3	7.19	713	-42	1.6	NM	NM	NM	NM	< 0.50	0.33 J	< 0.50	42.6	8.8	< 0.26	< 0.18
	12/16/2015	29.26	724.44	15.7	7.15	733	-11	3.2	NM	NM	NM	NM	< 0.50	0.54 J	< 0.50	57.2	16	< 0.26	< 0.18
	3/9/2016	28.63	725.07	16.0	7.11	724	35	2.6	NM	NM	NM	NM	< 0.50	0.65 J	< 0.50	134	21.4	< 0.26	< 0.18
MW-105	3/10/2010	25.33	725.86	13.1	7.06	780	-61	NM	<100	655	NM	NM	<1.0	1.8	<1.0	91.5	42.8	<1.0	2.6
	5/28/2010	25.03	726.16	16.0	7.26	3040	-480	0.3	421,000	4720	NM	11.5	<1.0	<1.0	<1.0	1.6	5.9	<1.0	<1.0
	7/1/2010	24.89	726.30	13.3	6.87	2050	-24	0.1	174,000	2790	NM	<4.0	<1.0	<1.0	<1.0	2.7	37.9	<1.0	<1.0
DUP-01	7/1/2010	24.89	726.30	13.3	6.87	2050	-24	0.1	169,000	2740	NM	<4.0	<1.0	<1.0	<1.0	2.5	37.5	<1.0	<1.0
	7/29/2010	24.68	726.51	14.7	7.34	1781	-266	0.1	121,000	3030	NM	NM	<1.0	1.5	<1.0	<1.0	67.2	<1.0	<1.0
	8/30/2010	24.25	726.94	17.1	7.67	1158	-350	0.0	52,600	1950	NM	NM	<1.0	1	<1.0	<1.0	27.7	<1.0	10.4
	9/24/2010	24.95	726.24	15.0	7.74	877	-319	0.1	20,100	992	NM	<4.0	<1.0	<1.0	<1.0	<1.0	6.6	<1.0	22.9
	11/4/2010	25.54	725.65	14.7	8.63	609	-364	0.0	6,280	411	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	41.4
DUP-01	11/4/2010	25.54	725.65	14.7	8.63	609	-364	0.0	6,340	413	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	34.4
	11/29/2010	26	725.19	14.1	9.05	583	-361	0.0	1,350	152	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	19.9
DUP-01	11/29/2010	26	725.19	14.1	9.05	583	-361	0.0	1,590	154	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	19.0
	12/21/2010	26.25	724.94	13.9	9.05	604	-26	1.0	1,190	146	NM	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	18.6
	3/17/2011	25.97	725.22	14.2	8.84	677	-310	0.0	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	11.7
	7/6/2011	25.77	725.42	13.9	9.08	591	-293	0.3	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	7.3
	9/26/2011	26.56	724.63	14.1	8.98	646	-229	1.5	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	12/21/2011	26.89	724.30	14.2	8.83	585	-183	1.6	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	7
	3/6/2012	27.45	723.74	14.0	8.51	646	-235	0.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	6.9
	6/6/2012	27.7	723.49	14.3	8.24	665	-272	0.0	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	5.5
	9/27/2012	29.4	721.79	15.0	8.33	609	-308	0.0	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	6.5
	12/21/2012	29.89	721.30	12.5	8.14	690	-275	0.0	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	5.2
	3/8/2013	29.33	721.86	12.0	8.17	720	-267	0.0	NM	NM	NM	NM	< 0.9	0.92	< 0.45	1.9	1.7	< 0.89	10.3
	5/20/2013	25.37	725.82	14.9	7.87	796	-250	0.0	NM	NM	NM	NM	< 0.44	0.79 J	< 0.47	3.4	8.5	< 0.37	4.5
	8/28/2013	24.52	726.67	15.6	7.84	597	-239	0.0	NM	NM	NM	NM	< 0.44	0.86 J	< 0.47	17.3	13.4	< 0.37	6.7
	12/11/2013	26.58	724.61	10.1	7.59	770	-158	0.1	NM	NM	NM	NM	< 0.44	0.98 J	< 0.47	51.2	26.2	< 0.37	19.1
	3/11/2014	27.14	724.05	11.5	8.10	616	-243	0.0	NM	NM	NM	NM	< 0.44	0.39 J	< 0.47	6.1	3.6	0.52 J	68.8
	6/25/2014	25.83	725.36	19.1	8.17	576	-297	0.0	NM	NM	NM	NM	< 0.50	0.75 J	< 0.50	0.64 J	3.1	< 0.26	27
	9/24/2014	25.97	725.22	15.9	7.86	700	-215	0.0	NM	NM	NM	NM	< 0.50	0.78 J	< 0.50	12.0	8.4	< 0.26	29.2
	12/17/2014	27.2	723.99	11.3	7.13	711	-215	1.1	NM	NM	NM	NM	< 0.50	1.7	< 0.50	16.1	24.8	1.2	43.3
	3/5/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	6/17/2015	27.33	723.86	15.8	7.72	996	-212	0.0	NM	NM	NM	NM	< 0.50	0.83 J	< 0.50	0.98 J	3.9	2.7	43.3
	9/23/2015	27.44	723.75	15.8	7.50	884	-213	0.1	NM	NM	NM	NM	< 0.50	0.87 J	< 0.50	1.0	1.4	< 0.26	18.2
	12/17/2015	26.68	724.51	11.4	7.55	732	-179	0.1	NM	NM	NM	NM	< 0.50	0.93 J	< 0.50	0.43 J	1.3	1.1	33.7
	3/9/2016	26.21	724.98	15.7	7.40	743	-191	0.0	NM	NM	NM	NM	< 0.50	0.70 J	< 0.50	1.0 J	5.4	1	28.9

Table 1
Source Area Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Inorganics				Volatile Organic Compounds						
Well	Date	Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Dis. Iron	Dis. Manganese	Nitrate	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells (1)																100			
MW-106	3/10/2010	27.42	725.78	13.1	7.16	752	176	7.0	<100	158	NM	NM	<1.0	<1.0	<1.0	5.2	1.1	<1.0	<1.0
	5/28/2010	26.87	726.33	13.7	7.19	720	49	2.0	<100	59.8	NM	16.4	<1.0	<1.0	<1.0	5.3	2.2	<1.0	<1.0
	7/1/2010	27.02	726.18	13.8	6.52	616	-5	2.0	582	516	NM	8.3	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<1.0
	7/29/2010	26.85	726.35	18.8	7.30	735	-175	0.3	2,130	359	NM	NM	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0
	8/25/2010	26.36	726.84	15.2	6.99	740	-94	1.1	2,370	234	NM	NM	<1.0	<1.0	<1.0	6.4	2.6	<1.0	<1.0
DUP-01	8/25/2010	26.36	726.84	15.2	6.99	740	-94	1.1	2,250	229	NM	NM	<1.0	<1.0	<1.0	6.4	2.7	<1.0	<1.0
	9/24/2010	26.95	726.25	15.1	7.15	773	-196	0.8	2,290	190	NM	5.8	<1.0	<1.0	<1.0	6.7	2.9	<1.0	<1.0
	11/4/2010	27.64	725.56	14.5	7.26	739	-118	0.9	2,500	250	NM	NM	<1.0	<1.0	<1.0	5.1	15.7	<1.0	<1.0
	11/29/2010	28.10	725.10	13.9	7.26	766	-114	0.9	2,840	286	NM	NM	<1.0	<1.0	<1.0	1.4	3.8	<1.0	<1.0
	12/21/2010	28.34	724.86	12.9	7.22	751	-84	1.8	2,400	309	NM	20.7	1.3	<1.0	2.1	2.6	4.2	1.5	<1.0
	3/17/2011	28.10	725.10	13.8	7.23	785	-90	0.5	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.2	< 0.83	< 0.89	< 0.18
	7/7/2011	27.94	725.26	14.3	7.19	778	-47	0.9	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	9/26/2011	28.68	724.52	13.9	7.08	761	-6	1.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	12/21/2011	28.99	724.21	13.1	7.07	752	-48	1.6	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	3/6/2012	29.53	723.67	13.9	7.26	786	-85	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	6/6/2012	29.79	723.41	15.5	7.12	777	13	0.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	9/27/2012	31.49	721.71	15.3	7.12	744	2	0.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	12/20/2012	32.00	721.20	13.7	7.15	766	96	0.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	3/7/2013	31.42	721.78	10.8	7.15	9269	124	1.0	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.97 J	< 0.83	< 0.89	< 0.18
	5/20/2013	27.45	725.75	16.2	7.08	674	24	0.8	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	0.74 J	0.86 J	< 0.37	< 0.18
	8/28/2013	26.62	726.58	17.0	7.15	749	97	5.1	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	1.8	0.79 J	< 0.37	< 0.18
	12/11/2013	28.68	724.52	13.2	7.20	694	50	6.6	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	0.89 J	< 0.42	< 0.37	< 0.18
	3/11/2014	29.29	723.91	12.4	7.23	749	-75	7.4	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	0.42 J	< 0.42	< 0.37	< 0.18
	6/24/2014	27.92	725.28	17.4	7.22	762	137	7.5	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	0.75 J	3	< 0.26	< 0.18
	9/24/2014	28.13	725.07	16.4	7.27	779	102	7.1	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	0.84 J	< 0.26	< 0.26	< 0.18
	12/17/2014	29.27	723.93	13.4	7.21	783	96	7.9	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	0.63 J	0.57 J	< 0.26	< 0.18
	3/5/2015	30.05	723.15	12.6	7.17	808	77	7.2	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	0.55 J	1.3	< 0.26	< 0.18
	6/17/2015	29.63	723.57	16.6	7.25	751	102	7.4	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	1.1	9.2	< 0.26	< 0.18
	9/23/2015	29.68	723.52	17.6	7.24	737	83	8.3	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	0.88 J	5.5	< 0.26	< 0.18
	12/16/2015	29.18	724.02	13.2	7.21	767	83	8.4	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	0.90 J	6.4	< 0.26	< 0.18
	3/9/2016	28.50	724.70	15.9	7.21	763	91	8.5	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	1.4	8	< 0.26	< 0.18
MW-107	3/11/2010	27.7	726.08	14.1	7.05	794	139	5.0	<100	NM	NM	15.3	16.4	<1.0	1.6	63.7	4.3	<1.0	<1.0
	5/27/2010	27.17	726.61	14.1	7.00	784	91	8.0	<100	31.6	NM	13.8	14.1	<1.0	1.4	53.0	3.2	<1.0	<1.0
	7/1/2010	27.35	726.43	14.5	6.70	723	0	7.7	<100	23.3	NM	12	14.9	<1.0	1.5	57.1	3.3	<1.0	<1.0
	7/29/2010	27.25	726.53	15.3	7.09	728	19	5.1	<100	22.6	NM	NM	13.3	<1.0	1.6	53.3	2.9	<1.0	<1.0
	8/31/2010	26.78	727.00	16.6	7.00	726	10	4.7	<100	13.2	NM	NM	11.1	<1.0	1.4	46.2	5.4	<1.0	<1.0
	9/24/2010	27.28	726.50	15.6	7.11	696	29	5.2	<100	10.8	NM	10.8	16.7	<1.0	1.7	51.4	8.0	<1.0	<1.0
	11/4/2010	27.97	725.81	15.0	7.13	743	48	6.8	<100	<5	NM	NM	10.7	<1.0	1.6	51.3	4.3	<1.0	<1.0
	11/29/2010	28.44	725.34	14.7	7.15	721	62	7.1	<100	<5	NM	NM	11.2	<1.0	1.6	48.2	4.1	<1.0	<1.0
	12/20/2010	28.67	725.11	14.8	7.12	688	16	5.1	<100	8.9	NM	11.8	13.4	1.5	1.1	48.8	4.3	<1.0	<1.0
	3/22/2011	28.35	725.43	14.3	7.14	668	81	4.9	NM	NM	NM	NM	9.9	1.5	1.3	36.9	26.7	< 0.89	< 0.18
	7/7/2011	28.25	725.53	15.3	7.25	656	10	5.0	NM	NM	NM	NM	12.5	< 0.75	< 0.45	20.7	12.0	< 0.89	< 0.18
	9/23/2011	28.98	724.80	14.9	7.17	668	14	4.7	NM	NM	NM	NM	8.1	< 0.75	1.1	17.9	16	< 0.89	< 0.18
	12/21/2011	29.32	724.46	15.3	7.16	646	-61	3.7	NM	NM	NM	NM	5.5	< 0.75	< 0.45	11.6	7.4	< 0.89	< 0.18
	3/6/2012	29.86	723.92	14.5	7.24	706	-126	NM	NM	NM	NM	NM	3.3	< 0.75	< 0.45	10.2	2.5	< 0.89	< 0.18
	6/7/2012	30.13	723.65	15.1	7.10	752	-41	1.0	NM	NM	NM	NM	7.6	< 0.75	< 0.45	8.5	3.7	< 0.89	< 0.18
	9/27/2012	31.81	721.97	15.4	7.13	707	26	0.4	NM	NM	NM	NM	3.4	< 0.75	0.94 J	5.9	2	< 0.89	< 0.18
	12/20/2012	32.34	721.44	15.3	7.14	739	86	0.2	NM	NM	NM	NM	3.5	< 0.75	1.1	4	2.3	< 0.89	< 0.18
	3/19/2013	31.74	722.04	15.0	6.98	777	93	0.6	NM	NM	NM	NM	21	0.97 J	1.1	6.3	6.8	< 0.89	< 0.18
	5/20/2013	27.83	725.95	15.4	7.05	799	18	0.7	NM	NM	NM	NM	12.2	0.61 J	0.65 J	4.9	3.1	< 0.37	< 0.18
	8/27/2013	26.95	726.83	17.1	6.58	863	99	3.9	NM	NM	NM	NM	28.9	0.75 J	0.86 J	12.5	5.3	< 0.37	< 0.18
DUP-03	8/27/2013	26.95	726.83	17.1	6.58	863	99	3.9	NM	NM	NM	NM	28.1	0.83 J	0.89 J	12.3	5.0	< 0.37	< 0.18
	12/11/2013	29.02	724.76	16.1	7.12	667	25	4.0	NM	NM	NM	NM	8.1	< 0.28	0.89 J	13.1	< 0.42	< 0.37	< 0.18
	3/12/2014	29.56	724.22	15.5	7.10	781	-69	4.4	NM	NM	NM	NM	5.4	< 0.28	0.89 J	12.6	1.0 J	< 0.37	< 0.18
	6/25/2014	28.28	725.50	16.7	7.03	809	98	3.3	NM	NM	NM	NM	10.4	< 0.24	0.67 J	12.1	1.7 J	< 0.26	< 0.18
	9/24/2014	28.47	725.31	16.2	7.14	722	57	2.5	NM	NM	NM	NM	8.4	< 0.24	0.70 J	11.0	0.81 J	< 0.26	< 0.18
	12/17/2014	29.61	724.17	16.2	7.06	741	46	1.7	NM	NM	NM	NM	4	< 0.24	0.84 J	10.5	< 0.26	< 0.26	< 0.18
	3/3/2015	30.32	723.46	16.0	7.92	878	14	1.4	NM	NM	NM	NM	4.8	0.27 J	0.86 J	12.4	0.39 J	< 0.26	< 0.18
	6/17/2015	30.00	723.78	16.5	7.02	842	0	0.7	NM	NM	NM	NM	6.8	0.47 J	0.59 J	8.8	0.78 J	< 0.26	< 0.18
	9/23/2015	30.03	723.75	16.6	6.92	880	30	0.5	NM	NM	NM	NM	16.2	0.84 J	0.83 J	12.7	1.6	< 0.26	< 0.18
	12/16/2015	29.52	724.26	16.4	7.03	774	17	1.0	NM	NM	NM	NM	5.3	< 0.24	0.67 J	9.4	0.46 J	< 0.26	< 0.18
	3/9/2016	28.86	724.92	16.4	6.91	840	48	0.5	NM	NM	NM	NM	8.1	< 0.24	0.52 J	10.7	0.76 J	< 0.26	< 0.18

Notes
(1) Limit established in 2009 Workplan
(2) NM indicates not measured
(3) S* indicates the samples was collected from the top of the water column in the well (less than 2 feet below the top of well screen).
(4) D* indicates the samples was collected from the bottom of the water column in the well (less than 2 feet below the bottom of the well screen).
(5) J indicates estimated concentration. Reported result is between the method detection limit and the practical quantitation limit.
(6) < indicates parameter was not detected above the listed method detection limit.
(7) **Red Bold** values exceed the Intermediate Cleanup Criteria

Table 2
Long Term Monitoring Wells on Warner Property - Data Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Inorganics				Volatile Organic Compounds						
Well	Date	Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Total Chrome	Dis. Iron	Dis. Manganese	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Long Term Groundwater Clean-up Goal - All LTMW Wells (1)									100				200	200	5	5	70	100	2
LTMW-01	3/11/2010	27.51	725.27	11.9	7.06	803	135	2.0	< 5.0	<100	NM	16.6	19.5	8.7	<2.5	<2.5	395	2.8	<2.5
	6/27/2010	27.10	725.68	13.3	6.45	724	11	3.6	< 5.0	NM	NM	NM	14.1	6.6	<4.0	< 4.0	223	<4.0	<4.0
	9/23/2010	27.10	725.68	15.1	7.04	717	44	2.0	< 0.44	NM	NM	NM	22.1	7.4	<4.0	< 4.0	199	14.6	<4.0
	12/22/2010	28.53	724.25	12.2	7.15	712	40	1.8	< 5.0	<100	5.4	13.3	19.7	9.1	<2.0	<2.0	230	3.4	<2.0
	3/16/2011	28.25	724.53	13.3	7.18	778	148	2.3	NM	NM	NM	NM	16.7	3.6	< 0.9	< 0.96	119	2.6	< 0.36
	7/6/2011	28.05	724.73	13.6	7.22	737	30	1.9	NM	NM	NM	NM	15.6	4.4	< 0.45	< 0.48	115	< 0.89	< 0.18
	9/22/2011	28.80	723.98	13.4	7.14	686	45	1.3	NM	NM	NM	NM	25.6	4.4	< 0.45	< 0.48	98.4	< 0.89	< 0.18
DUP-02	9/22/2011	28.80	723.98	13.4	7.14	686	45	1.3	NM	NM	NM	NM	25.1	4.3	< 0.45	< 0.48	97.9	< 0.89	< 0.18
	12/21/2011	29.20	723.58	11.2	7.12	692	-41	2.7	NM	NM	NM	NM	23.7	5.1	< 0.45	< 0.48	89.2	< 0.89	< 0.18
	3/1/2012	29.67	723.11	11.5	7.22	761	98	4.0	< 2.4	NM	NM	NM	20.8	3.4	< 0.45	< 0.48	50.2	< 0.89	< 0.18
	6/7/2012	29.91	722.87	13.1	7.31	760	-50	1.0	5.5	NM	NM	NM	18	2.4	< 0.45	< 0.48	23	< 0.89	< 0.18
	9/27/2012	31.62	721.16	12.7	7.17	718	6	1.9	<2.4	NM	NM	NM	22.9	3.2	< 0.45	0.72 J	23.9	< 0.89	< 0.18
	12/21/2012	32.09	720.69	12.4	7.12	725	90	3.3	< 2.4	NM	NM	NM	15.1	2.6	< 0.45	< 0.48	13.8	< 0.89	< 0.18
	3/8/2013	31.47	721.31	11.2	7.22	707	175	3.6	< 1.4	NM	NM	NM	10.2	2.1	< 0.45	< 0.48	18.2	< 0.89	< 0.18
	5/21/2013	27.52	725.26	13.8	7.18	706	131	3.6	< 1.4	NM	NM	NM	10.4	1.2	< 0.47	< 0.43	5.1	< 0.37	< 0.18
	8/29/2013	26.84	725.94	16.0	7.19	715	96	3.6	< 1.4	NM	NM	NM	7.2	0.92 J	< 0.47	< 0.43	4.1	< 0.37	< 0.18
	12/12/2013	28.87	723.91	10.7	7.16	671	126	4.0	< 1.4	NM	NM	NM	3.4	0.42 J	< 0.47	< 0.36	2.9	< 0.37	< 0.18
	3/11/2014	29.44	723.34	10.8	7.21	737	-84	2.7	< 1.4	NM	NM	NM	9.3	0.75 J	< 0.47	< 0.36	4.1	< 0.37	< 0.18
	6/24/2014	28.05	724.73	14.4	7.15	841	31	0.2	< 1.5	NM	NM	NM	32.8	3.5	< 0.50	< 0.33	12.7	< 0.26	< 0.18
	9/23/2014	28.28	724.50	14.7	7.19	766	71	0.2	< 1.5	NM	NM	NM	22.5	2.4	< 0.50	0.40 J	9.3	< 0.26	< 0.18
	12/18/2014	29.96	722.82	11.7	7.02	731	115	2.0	< 1.5	NM	NM	NM	14.0	1.8	< 0.50	0.49 J	8.0	< 0.26	< 0.18
	3/5/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	6/18/2015	29.74	723.04	15.4	7.12	796	95	2.3	< 1.5	NM	NM	NM	10.4	2	< 0.50	< 0.33	13.7	< 0.26	< 0.18
	9/24/2015	29.85	722.93	13.8	7.15	755	173	4.4	< 1.5	NM	NM	NM	14.3	1.7	< 0.50	< 0.33	5.7	< 0.26	< 0.18
	12/17/2015	29.28	723.50	11.3	7.15	742	137	5.1	< 1.5	NM	NM	NM	11.3	1.3	< 0.50	< 0.33	4.2	< 0.26	< 0.18
	3/8/2016	28.62	724.16	14.0	7.18	723	109	6.0	< 1.5	NM	NM	NM	8.5	0.92 J	< 0.50	< 0.33	3.6	< 0.26	< 0.18
LTMW-02	3/11/2010	27.33	725.14	12.0	7.15	766	166	7.0	< 5.0	<100	NM	16.6	<1.0	<1.0	<1.0	26.8	7.3	<1.0	<1.0
	6/27/2010	26.83	725.64	13.9	6.71	672	25	10.7	< 5.0	NM	NM	NM	<1.0	<1.0	<1.0	16.1	<1.0	<1.0	<1.0
	9/23/2010	26.83	725.64	14.7	7.21	734	99	6.1	< 0.44	NM	NM	NM	<1.0	<1.0	<1.0	10.1	2.5	<1.0	<1.0
	12/22/2010	28.27	724.20	10.9	7.25	726	16	5.6	< 0.44	<100	<5.0	15.7	<1.0	<1.0	<1.0	15.1	3.3	<1.0	<1.0
	3/17/2011	27.97	724.50	13.0	7.29	756	158	3.7	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	14.5	3.5	< 0.89	< 0.18
	7/6/2011	27.80	724.67	15.1	7.27	752	39	3.0	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	13.7	3.8	< 0.89	< 0.18
	9/22/2011	28.54	723.93	13.0	7.21	710	53	3.9	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	13.8	2.2	< 0.89	< 0.18
	12/21/2011	28.95	723.52	11.6	7.25	689	-25	4.3	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	10	1.8	< 0.89	< 0.18
	3/1/2012	29.41	723.06	10.1	7.32	723	105	4.0	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	9.3	< 0.83	< 0.89	< 0.18
	6/6/2012	29.64	722.83	12.8	7.21	733	15	3.0	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	10	< 0.83	< 0.89	< 0.18
DUP-02	6/6/2012	29.64	722.83	12.8	7.21	733	15	3.0	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	8.9	< 0.83	< 0.89	< 0.18
	9/28/2012	31.37	721.10	12.0	7.19	700	183	4.1	< 2.4	NM	NM	NM	< 0.90	< 0.75	< 0.45	8.4	< 0.83	< 0.89	< 0.18
	12/21/2012	31.81	720.66	11.8	7.19	697	126	5.3	< 2.4	NM	NM	NM	< 0.90	< 0.75	< 0.45	8.0	< 0.83	< 0.89	< 0.18
	3/8/2013	31.20	721.27	11.3	7.25	694	200	6.2	< 1.4	NM	NM	NM	< 0.90	< 0.75	< 0.45	7.0	< 0.83	< 0.89	< 0.18
	5/21/2013	27.23	725.24	13.1	7.24	717	180	7.6	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	3.8	< 0.42	< 0.37	< 0.18
	8/29/2013	26.60	725.87	13.5	7.18	699	228	5.1	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	3.0	< 0.42	< 0.37	< 0.18
	12/12/2013	28.61	723.86	9.3	7.21	691	117	4.8	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	3.0	< 0.42	< 0.37	< 0.18
	3/13/2014	29.04	723.43	10.0	7.12	806	64	7.0	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	2.7	< 0.42	< 0.37	< 0.18
	6/25/2014	27.79	724.68	14.5	7.24	978	132	9.2	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	2.5	0.65 J	< 0.26	< 0.18
	9/25/2014	28.06	724.41	12.8	7.3	748	148	5.4	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	2.6	0.98 J	< 0.26	< 0.18
	12/18/2014	29.19	723.28	10.3	7.2	750	114	5.4	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	2.6	0.66 J	< 0.26	< 0.18
	3/5/2015	29.90	722.57	10.9	7.08	758	60	6.5	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	2.6	0.66 J	< 0.26	< 0.18
	6/18/2015	29.48	722.99	14.7	7.26	791	35	7.4	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	2.9	1.4	< 0.26	< 0.18
	9/24/2015	29.58	722.89	14.5	7.22	827	53	8.4	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	2.5	1.6	< 0.26	< 0.18
	12/17/2015	29.01	723.46	10.7	7.21	807	80	8.4	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	2.4	1.1	< 0.26	< 0.18
	3/9/2016	28.37	724.10	13.1	7.27	760	96	8.4	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	2.4	1.3	< 0.26	< 0.18

Table 2
Long Term Monitoring Wells on Warner Property - Data Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Inorganics				Volatile Organic Compounds						
Well	Date	Water Depth Feet	Water Elev. Ft. MSL	Sample Temp. °C	pH Std. Units	Spec. Cond. µmhos/cm	ORP mV	Dis. Oxygen mg/L	Total Chrome µg/L	Dis. Iron µg/L	Dis. Manganese µg/L	Sulfate mg/L	1,1,1-TCA µg/L	1,1-DCA µg/L	PCE µg/L	TCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Vinyl Chloride µg/L
Long Term Groundwater Clean-up Goal - All LTMW Wells (1)									*100*				*200*	*200*	*5*	*5*	*70*	*100*	*2*
LTMW-03	3/11/2010	27.16	725.03	11.8	7.19	673	141	7.0	< 5.0	<100	NM	25.2	<1.0	<1.0	<1.0	***52.8***	57.3	<1.0	<1.0
	6/25/2010	26.79	725.40	13.6	8.85	769	15	7.0	< 5.0	NM	NM	NM	<1.0	<1.0	<1.0	***107***	***76***	<1.0	<1.0
	9/21/2010	26.62	725.57	15.9	6.86	683	72	3.3	< 5.0	NM	NM	NM	<1.0	<1.0	<1.0	***151***	66.2	<1.0	<1.0
DUP-01	9/21/2010	26.62	725.57	15.9	6.86	683	72	3.3	< 5.0	NM	NM	NM	<1.0	<1.0	<1.0	***153***	64.9	<1.0	<1.0
	12/22/2010	28.10	724.09	9.7	7.22	694	36	4.6	< 5.0	<100	<5.0	18.0	<1.0	<1.0	<1.0	***143***	***85.9***	<1.0	<1.0
	3/17/2011	27.80	724.39	13.3	7.26	707	120	2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***109***	30.1	< 0.89	< 0.18
	7/6/2011	27.59	724.60	16.6	7.30	740	43	5.9	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***77.8***	***86.6***	< 0.89	< 0.18
	9/22/2011	28.36	723.83	12.9	7.21	692	38	6.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***84.8***	***73.9***	1.1	1.3
	12/21/2011	28.80	723.39	11.3	7.17	719	-46	4.8	NM	NM	NM	NM	< 0.9	1.5	< 0.45	***123***	***116***	< 0.89	1.4
	3/6/2012	29.21	722.98	11.3	7.25	756	-9	2.0	5.4	NM	NM	NM	< 0.9	1.3	< 0.45	***103***	***102***	< 0.89	1.4
	6/6/2012	29.44	722.75	14.4	7.17	752	-30	3.0	5.6	NM	NM	NM	< 0.9	1.1	< 0.45	***69.2***	***91.5***	< 0.89	< 0.18
	9/28/2012	31.18	721.01	12.4	7.21	675	13	1.5	< 2.4	NM	NM	NM	< 0.9	1.2	< 0.45	***84.5***	55.3	< 0.89	***10***
	12/20/2012	31.62	720.57	10.0	7.15	727	86	1.9	< 2.4	NM	NM	NM	< 0.9	1.3	< 0.45	***92.8***	***80.7***	< 0.89	***2.3***
	3/8/2013	31.00	721.19	10.4	7.29	655	36	0.5	< 1.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	***59.9***	31.2	< 0.89	***6***
	5/21/2013	27.00	725.19	13.5	7.21	689	57	0.9	2.7 J	NM	NM	NM	< 0.44	< 0.28	< 0.47	***73.6***	37.9	< 0.89	***2.6***
	8/29/2013	26.42	725.77	14.8	7.18	645	133	8.3	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	***66.8***	45.8	< 0.89	< 0.18
	9/30/2013	27.29	724.90	14.0	7.26	588	154	7.3	1.9 J	NM	NM	NM	< 0.44	0.34 J	< 0.47	***50.4***	20.6	< 0.37	0.26 J
	10/23/2013	27.76	724.43	11.6	7.69	567	90	7.7	1.8 J	NM	NM	NM	< 0.44	< 0.28	< 0.47	***39.6***	15.6	< 0.37	< 0.18
	11/25/2013	28.15	724.04	10.3	7.39	479	39	5.1	1.9 J	NM	NM	NM	< 0.44	< 0.28	< 0.47	***32.1***	16	< 0.37	< 0.18
	12/12/2013	28.43	723.76	8.6	7.46	486	-8	4.0	2.2 J	NM	NM	NM	< 0.44	< 0.28	< 0.47	***29.4***	14.4	< 0.37	1.6
DUP-02	12/12/2013	28.43	723.76	8.6	7.46	486	-8	4.0	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	***27.7***	12.8	< 0.37	1.5
	3/13/2014	28.83	723.36	9.8	7.42	679	-88	2.1	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	***5.6***	26.5	< 0.37	< 0.18
	6/26/2014	27.60	724.59	14.9	7.41	655	-122	1.3	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	4.9	31	0.34 J	***3.6***
	9/25/2014	27.88	724.31	13.8	7.51	595	-120	1.6	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	***6.6***	15	< 0.26	***11.2***
	12/18/2014	29.02	723.17	10.3	7.30	554	-101	1.4	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	***29.7***	8.6	< 0.26	***3.0***
	3/5/2015	29.71	722.48	9.0	7.14	565	-89	1.5	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	***26.5***	6.4	< 0.26	***2.7***
	6/18/2015	29.28	722.91	14.2	7.35	600	-88	0.6	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	***32.6***	11.6	< 0.26	***8.0***
	9/24/2015	29.38	722.81	15.3	7.32	573	-102	1.6	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	***20.9***	5.9	< 0.26	***5.7***
	12/17/2015	28.81	723.38	10.3	7.35	607	-110	0.4	2.5 J	NM	NM	NM	< 0.50	0.40 J	< 0.50	***15.3***	5.3	< 0.26	***19.8***
	3/10/2016	28.21	723.98	11.0	7.24	537	-47	1.6	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	***18.2***	4.6	< 0.26	***4.7***
LTMW-03A	3/11/2010	27.55	724.97	11.9	7.07	863	153	5.0	< 5.0	<100	NM	20.1	<2.0	<2.0	<2.0	***275***	53.1	2.2	<2.0
	6/25/2010	27.15	725.37	13.5	6.81	926	14	7.1	< 5.0	NM	NM	NM	<2.0	<2.0	<2.0	***167***	30.8	<2.0	<2.0
	9/21/2010	27.03	725.49	15.8	6.73	770	90	3.8	9.2	NM	NM	NM	<2.0	<2.0	<2.0	***56.6***	8	<2.0	<2.0
	12/22/2010	28.48	724.04	10.1	7.28	684	14	1.3	< 5.0	<100	<5.0	13.2	<1.0	<1.0	<1.0	***33.9***	6.5	<1.0	<1.0
	3/17/2011	28.17	724.35	12.9	7.37	682	-31	0.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***10.2***	15.9	< 0.89	< 0.18
	7/6/2011	27.99	724.53	15.9	7.48	674	-101	0.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.4	55.5	< 0.89	***5.3***
	9/22/2011	28.74	723.78	12.5	7.46	623	-101	1.8	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.2	15.2	< 0.89	***10.2***
	12/21/2011	29.10	723.42	11.4	7.40	656	-122	1.9	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.5	2.4	< 0.89	***4.7***
	3/6/2012	29.61	722.91	11.4	7.46	727	-37	0.2	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.6	1.4	< 0.89	***4.7***
	6/6/2012	29.83	722.69	14.1	7.37	736	-76	0.3	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.8	1.8	< 0.89	***5.5***
	9/28/2012	31.59	720.93	11.8	7.35	704	-102	0.0	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.5	1.8	< 0.89	1.9
	12/20/2012	32.00	720.52	11.3	7.28	717	-89	0.1	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.2	1.3	< 0.89	1.7
	3/8/2013	31.40	721.12	10.3	7.38	695	-69	0.1	< 1.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.9	1.4	< 0.89	1.7
	5/21/2013	27.39	725.13	12.9	7.25	711	-75	0.3	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	1.9	< 0.42	< 0.37	< 0.18
	8/29/2013	26.81	725.71	14.7	7.21	698	-80	0.1	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	1.5	< 0.42	< 0.37	1.9
	12/12/2013	28.81	723.71	8.4	7.10	907	-98	0.0	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	< 0.36	5.1	< 0.37	***8.5***
	3/13/2014	29.23	723.29	8.9	7.07	673	-91	0.2	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	1.1	0.85 J	< 0.37	***5.1***
	6/26/2014	27.99	724.53	13.6	7.22	704	-119	0.3	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	1.6	0.65 J	< 0.26	***4.9***
	9/25/2014	28.25	724.27	13.1	7.35	724	-126	0.0	< 1.5	NM	NM	NM	< 0.50	0.40 J	< 0.50	1.1	2.6	< 0.26	***4.1***
	12/18/2014	29.40	723.12	10.2	7.23	726	-117	1.0	< 1.5	NM	NM	NM	< 0.50	0.30 J	< 0.50	2.5	8	< 0.26	***2.9***
	3/5/2015	30.10	722.42	10.8	7.19	739	-118	0.1	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	***8.7***	4.6	< 0.26	***4***
	6/18/2015	29.67	722.85	14.2	7.27	733	-106	0.0	< 1.5	NM	NM	NM	< 0.50	0.54 J	< 0.50	***27***	10.1	< 0.26	***6.3***
	9/24/2015	29.78	722.74	14.4	7.25	758	-149	0.1	< 1.5	NM	NM	NM	< 0.50	0.26 J	< 0.50	***30.7***	7.4	< 0.26	***6.6***
	12/17/2015	29.20	723.32	9.8	7.26	761	-101	0.1	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	***14.9***	3.8	< 0.26	***5.6***
	3/10/2016	28.59	723.93	11.1	7.11	746	-82	0.0	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	***8.3***	1.3	< 0.26	***6.4***

Notes: (1) Maximum Concentration Level (MCL) promulgated under the Safe Drinking Water Act.
(2) Limit established in 2009 Workplan
(3) < indicates analyte was not detected above the listed concentration
(4) J indicates estimated concentration. Reported result is between the method detection limit and the practical quantitation limit.
(5) ***Blue bold and italic*** values exceed the Long Term Cleanup Criteria

Table 3
Long Term Monitoring Wells on Hononegah Road - Data Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters								Inorganics					Volatile Organic Compounds						
Well	Date	Water Depth	Well Elev.	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Total Chrome	Dis. Iron	Dis. Manganese	Nitrate	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet		Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Long Term Groundwater Clean-up Goal - All LTMW Wells [1]										100					200	200	5	5	70	100	2
Non-potable Intermediate Groundwater Cleanup Criteria [2]																		1,900	6,100		
LTMW-04	3/12/2010	30.14	748.50	718.36	11.7	7.35	995	86	4.0	11.9	216	NM[3]	NM	20.8	<1.0[4]	<1.0	<1.0	3.0	1.2	<1.0	<1.0
	6/24/2010	29.60		718.90	13.6	6.84	866	12	6.9	7.6	NM	NM	NM	NM	<1.0	<1.0	<1.0	3.7	1.6	<1.0	<1.0
	9/22/2010	29.80		718.70	13.4	7.31	806	13	5.8	10.4	NM	NM	NM	NM	1.1	<1.0	<1.0	3.5	1.0	<1.0	<1.0
	12/22/2010	30.75		717.75	10.4	7.25	821	-6	4.4	42.1	164	139	NM	21.6	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0
	3/15/2011	30.23		718.27	11.5	7.32	873	62	6.8	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	3.5	1.4	< 0.89	< 0.18
	7/5/2011	30.45		718.05	13.0	7.37	832	27	7.9	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	3.7	2.5	< 0.89	< 0.18
	9/21/2011	31.30		717.20	13.3	7.24	802	16	8.1	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	3.4	2.0	< 0.89	< 0.18
	12/22/2011	31.25		717.25	10.8	7.26	804	-29	6.3	NM	NM	NM	NM	NM	1.0	< 0.75	< 0.45	4.5	4.8	< 0.89	< 0.18
DUP-02	12/22/2011	31.25		717.25	10.8	7.26	804	-29	6.3	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	4.6	4.6	< 0.89	< 0.18
	3/1/2012	31.72		716.78	10.9	7.34	871	70	5.0	6.8	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	5.7 [5]	5.2	< 0.89	< 0.18
	6/6/2012	31.73		716.77	12.5	7.3	866	26	5.0	5.6	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	6.4	5.8	< 0.89	< 0.18
	9/26/2012	33.58		714.92	14.1	7.28	825	159	6.5	< 2.4	NM	NM	NM	NM	1.0 J	< 0.75	< 0.45	7.1	8	< 0.89	< 0.18
DUP-01	9/26/2012	33.58		714.92	14.1	7.28	825	159	6.5	< 2.4	NM	NM	NM	NM	1.0	< 0.75	< 0.45	7.1	8.1	< 0.89	< 0.18
	12/19/2012	33.55		714.95	11.6	7.35	844	148	7.3	< 2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	8.2	7.8	< 0.89	< 0.18
DUP-01	12/19/2012	33.55		714.95	11.6	7.35	844	148	7.3	< 2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	7.9	7.7	< 0.89	< 0.18
	3/8/2013	32.59		715.91	11.3	7.25	1287	180	5.3	3.8 J	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	8	7.1	< 0.89	< 0.18
DUP-01	3/8/2013	32.59		715.91	11.3	7.25	1287	180	5.3	3.0 J	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	8.3	8.4	< 0.89	< 0.18
	5/21/2013	28.75		719.75	13.8	7.26	807	117	5.8	2.9 J	NM	NM	NM	NM	1.1	< 0.28	< 0.47	11.5	9.5	< 0.37	< 0.18
DUP-01	5/21/2013	28.75		719.75	13.8	7.26	807	117	5.8	2.9 J	NM	NM	NM	NM	1.1	< 0.28	< 0.47	11.7	9.4	< 0.37	< 0.18
	8/27/2013	29.94		718.56	15.6	7.29	831	116	6.2	< 1.4	NM	NM	NM	NM	1.0	< 0.28	< 0.47	8.6	5.6	< 0.37	< 0.18
DUP-01	8/27/2013	29.94		718.56	15.6	7.29	831	116	6.2	2.8 J	NM	NM	NM	NM	1.1	< 0.28	< 0.47	8.7	5.7	< 0.37	< 0.18
	12/10/2013	31.32		717.18	10.1	7.32	818	87	6.3	1.8 J	NM	NM	NM	NM	1.2	< 0.28	< 0.47	7.9	6.3	< 0.37	< 0.18
DUP-01	12/10/2013	31.32		717.18	10.1	7.32	818	87	6.3	2.9 J	NM	NM	NM	NM	1.0	< 0.28	< 0.47	7.2	5.8	< 0.37	< 0.18
	3/11/2014	31.62		716.88	9.4	7.29	1610	-90	5.7	5.9	NM	NM	NM	NM	0.81 J	< 0.28	< 0.47	7.5	5.5	< 0.37	< 0.18
DUP-01	3/11/2014	31.62		716.88	9.4	7.29	1610	-90	5.7	6.1	NM	NM	NM	NM	0.77 J	< 0.28	< 0.47	7.6	5.6	< 0.37	< 0.18
	6/24/2014	30.10		718.40	14.5	7.29	881	123	5.6	2.3 J	NM	NM	NM	NM	0.86 J	< 0.24	< 0.50	9.6	8.7	< 0.26	< 0.18
DUP-01	6/24/2014	30.10		718.40	14.5	7.29	881	123	5.6	< 1.5	NM	NM	NM	NM	0.84 J	< 0.24	< 0.50	8.8	8.9	< 0.26	< 0.18
	9/23/2014	30.89		717.61	12.3	7.37	838	75	5.6	< 1.5	NM	NM	NM	NM	0.75 J	< 0.24	< 0.50	9.4	8.6	< 0.26	< 0.18
DUP-01	9/23/2014	30.89		717.61	12.3	7.37	838	75	5.6	< 1.5	NM	NM	NM	NM	0.65 J	< 0.24	< 0.50	9.3	8.5	< 0.26	< 0.18
	12/16/2014	31.65		716.85	11.2	7.28	841	115	6.4	< 1.5	NM	NM	NM	NM	0.69 J	< 0.24	< 0.50	8.8	8.1	< 0.26	< 0.18
DUP-01	12/16/2014	31.65		716.85	11.2	7.28	841	115	6.4	2.7 J	NM	NM	NM	NM	0.74 J	< 0.24	< 0.50	9.1	8.1	< 0.26	< 0.18
	3/4/2015	32.04		716.46	8.6	6.84	864	76	5.4	2.3 J	NM	NM	NM	NM	0.87 J	< 0.24	< 0.50	10.6	8.4	< 0.26	< 0.18
DUP-01	3/4/2015	32.04		716.46	8.6	6.84	864	76	5.4	3.2 J	NM	NM	NM	NM	0.90 J	< 0.24	< 0.50	10.7	8.2	< 0.26	< 0.18
	6/16/2015	31.45		717.05	13.6	7.32	873	30	5.1	2.3 J	NM	NM	NM	NM	0.83 J	< 0.24	< 0.50	11.5	7.5	< 0.26	< 0.18
DUP-01	6/16/2015	31.45		717.05	13.6	7.32	873	30	5.1	< 1.5	NM	NM	NM	NM	0.94 J	< 0.24	< 0.50	11.7	7.9	< 0.26	< 0.18
	9/22/2015	31.79		716.71	15.0	7.28	864	82	5.0	2.0J	NM	NM	NM	NM	0.86 J	< 0.24	< 0.50	10.3	6.9	< 0.26	< 0.18
DUP-01	9/22/2015	31.79		716.71	15.0	7.28	864	82	5.0	2.3 J	NM	NM	NM	NM	0.63 J	< 0.24	< 0.50	11.2	6.6	< 0.26	< 0.18
	12/15/2015	30.75		717.75	10.4	7.38	854	102	5.7	< 1.5	NM	NM	NM	NM	0.63 J	< 0.24	< 0.50	10.7	5.9	< 0.26	< 0.18
DUP-01	12/15/2015	30.75		717.75	10.4	7.38	854	102	5.7	< 1.5	NM	NM	NM	NM	0.64 J	< 0.24	< 0.50	10.7	6	< 0.26	< 0.18
	3/8/2016	30.54		717.96	11.9	7.23	859	115	5.4	< 1.5	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	11.5	5.6	< 0.26	< 0.18
DUP-01	3/8/2016	30.54		717.96	11.9	7.23	859	115	5.4	< 1.5	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	7.2	3.3	< 0.26	< 0.18
LTMW-05	3/12/2010	30.92	749.35	718.43	11.7	7.24	811	108	5.0	14.5	< 3.7	NM	NM	19.8	< 0.9	< 0.75	< 0.45	12.3	6.2	< 0.89	< 0.18
	6/24/2010	30.40		718.95	13.3	6.92	895	14	6.4	8.9	NM	NM	NM	NM	1.1	< 0.75	< 0.45	10.9	5.3	< 0.89	< 0.18
	9/22/2010	NM		NM	NM	NM	NM	NM	NM	11.2	NM	NM	NM	NM	1.5	< 0.75	< 0.45	9.2	4.0	< 0.89	< 0.18
	12/22/2010	31.59		717.76	10.6	7.28	797	70	5.1	8.4	< 100	< 5.0	NM	20.7	< 0.9	< 0.75	< 0.45	7.3	3.9	< 0.89	< 0.18
	3/16/2011	31.03		718.32	11.7	7.34	856	153	7.0	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	9.4	4.6	< 0.89	< 0.18
	7/5/2011	31.27		718.08	13.5	7.36	830	53	7.4	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	9.7	6.2	< 0.89	< 0.18
	9/21/2011	32.10		717.25	13.0	7.23	792	63	8.1	NM	NM	NM	NM	NM	1	< 0.75	< 0.45	9.9	5.2	< 0.89	< 0.18
	12/22/2011	32.05		717.30	9.9	7.25	798	5	6.1	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	10.8	9.0	< 0.89	< 0.18
	3/1/2012	32.50		716.85	10.8	7.29	871	81	5.0	19.2	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	12.1	9.2	< 0.89	< 0.18
	6/6/2012	32.50		716.85	12.8	7.30	865	42	5.0	13.7	NM	NM	NM	NM	4.3	< 0.75	< 0.45	14.1	10.4	< 0.89	< 0.18
	9/27/2012	34.39		714.96	12.0	7.25	830	201	6.6	< 2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	14	11.8	< 0.89	< 0.18
	12/19/2012	34.29		715.06	11.6	7.35	839	169	7.2	< 2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	13.6	9.6	< 0.89	< 0.18
	3/7/2013	33.30		716.05	9.5	7.28	11338	195	6.5	2.8 J	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	13.8	9.4	< 0.89	< 0.18
	5/20/2013	29.52		719.83	13.6	7.35	800	43	0.3	1.4 J	NM	NM	NM	NM	0.65 J	< 0.28	< 0.47	5.3	2.5	< 0.37	< 0.18
	8/27/2013	30.75		718.60	16.5	7.28	850	155	6.1	12.8	NM	NM	NM	NM	< 0.70	< 0.28	< 0.47	12.9	7.8	< 0.37	< 0.18
	12/10/2013	32.13		717.22	10.4	7.32	828	114	5.8	< 1.4	NM	NM	NM	NM	0.63 J	< 0.28	< 0.47	12.9	8.3	< 0.37	< 0.18
	3/11/2014	32.38		716.97	10.1	7.32	844	-111	6.0	1.4 J	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	10.8	5.7	< 0.37	< 0.18
	6/24/2014	30.89		718.46	15.9	7.28	899	112	6.0	2.9 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	9.9	5.6	< 0.26	< 0.18
	9/23/2014	31.69		717.66	13.3	7.37	851	74	6.4	2.2 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	10.6	8.0	< 0.26	< 0.18
	12/16/2014	32.44		716.91	11.3	7.27	841	3	5.8	1.6 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	7.1	6.2	< 0.26	< 0.18
	3/4/2015	32.81		716.54	10.3	7.17	858	-43	5.6	1.6 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	11.9	7.2	< 0.26	< 0.18
	6/16/2015	32.20		717.15	13.5	7.30	886	11	5.7	< 1.5	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	9.7	4.6	< 0.26	< 0.18
	9/22/2015	32.56		716.79	15.0	7.32	856	-264	0.2	1.8 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	8.4	4.0	< 0.26	< 0.18
	12/15/2015	31.52		717.83	11.2	7.36	885	37	6.3	< 1.5	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	7.5	2.9	< 0.26	< 0.18
	3/8/2016	31.32		718.03	12.9	7.22	876	-2	5.4	< 1.5	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	8.6	3.3	< 0.26	< 0.18

Table 3
Long Term Monitoring Wells on Hononegah Road - Data Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters								Inorganics					Volatile Organic Compounds						
Well	Date	Water Depth Feet	Well Elev.	Water Elev. Ft. MSL	Sample Temp. °C	pH Std. Units	Spec. Cond. µmhos/cm	ORP mV	Dis. Oxygen mg/L	Total Chrome µg/L	Dis. Iron µg/L	Dis. Manganese µg/L	Nitrate mg/L	Sulfate mg/L	1,1,1-TCA µg/L	1,1-DCA µg/L	PCE µg/L	TCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Vinyl Chloride µg/L
Long Term Groundwater Clean-up Goal - All LTMW Wells (1)										***100***					***200***	***200***	***5***	***5***	***70***	***100***	***2***
Non-potable Intermediate Groundwater Cleanup Criteria (2)																		**1,900**	**6,100**		
LTMW-06	3/12/2010	31.80	749.95	718.15	11.7	7.23	949	94	7.0	< 0.32	<100	NM	NM	17.4	<1.0	<1.0	<1.0	***40.4***	14.0	<1.0	<1.0
	6/25/2010	31.28		718.67	14.1	6.75	1030	20	7.8	< 5.0	NM	NM	NM	NM	<1.0	<1.0	<1.0	***35.4***	13.0	<1.0	<1.0
	9/22/2010	31.50		718.45	13.5	7.19	857	41	5.7	7.0	NM	NM	NM	NM	<1.0	<1.0	<1.0	***33.2***	9.5	<1.0	<1.0
	12/22/2010	32.40		717.55	10.4	7.27	864	71	5.7	11	<100	7.7	NM	17.1	<1.0	<1.0	<1.0	***28.1***	9.9	<1.0	<1.0
	3/16/2011	31.88		718.07	12.0	7.27	1180	151	8.4	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***32***	7.3	< 0.89	< 0.18
	7/5/2011	32.12		717.83	13.6	7.32	1121	70	9.2	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***20.1***	5.6	< 0.89	< 0.18
	9/21/2011	32.96		716.99	12.8	7.21	939	74	9.9	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***26.8***	7.5	< 0.89	< 0.18
	12/22/2011	32.90		717.05	9.9	7.14	1449	12	7.9	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***28***	9.3	< 0.89	< 0.18
	3/1/2012	33.34		716.61	11.0	7.77	937	89	5.0	< 2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***22***	11.5	< 0.89	< 0.18
	6/6/2012	33.34		716.61	13.2	7.33	902	59	4.0	6.6	NM	NM	NM	NM	4.3	< 0.75	< 0.45	***29.3***	15.0	< 0.89	< 0.18
	9/27/2012	35.20		714.75	13.7	7.24	919	185	7.7	< 2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***40.4***	26.7	< 0.89	< 0.18
	12/19/2012	35.13		714.82	11.2	7.26	1305	176	8.7	< 2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***40.5***	17.6	< 0.89	< 0.18
	3/7/2013	34.13		715.82	9.5	7.32	8772	191	7.6	1.7 J	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***34.4***	19.6	< 0.89	< 0.18
	5/20/2013	30.40		719.55	14.2	7.31	914	100	3.3	< 1.4	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	***32***	16.9	< 0.37	< 0.18
	8/27/2013	31.63		718.32	15.8	7.30	900	196	7.1	2.5 J	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	***38.6***	16.9	< 0.37	< 0.18
	12/10/2013	32.95		717.00	9.6	7.25	1442	131	8.1	1.9 J	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	***41.9***	20.4	< 0.37	< 0.18
	3/11/2014	33.21		716.74	10.0	7.33	941	-98	7.7	< 1.4	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	***28.3***	13.7	< 0.37	< 0.18
	6/24/2014	31.72		718.23	16.9	7.30	977	129	7.2	2.4 J	NM	NM	NM	NM	< 0.50	0.34 J	< 0.50	***32.9***	24.7	< 0.26	< 0.18
	9/23/2014	32.54		717.41	14.4	7.39	915	38	6.8	1.6 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	***33.5***	25.2	< 0.26	< 0.18
	12/16/2014	33.28		716.67	10.8	7.29	903	88	7.1	2.2 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	***30.5***	18.1	< 0.26	< 0.18
	3/4/2015	33.67		716.28	10.0	6.94	1244	13	7.0	2.4 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	***27.2***	12	< 0.26	< 0.18
	6/17/2015	32.97		716.98	12.8	7.29	965	106	6.9	< 1.5	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	***23.5***	10.9	< 0.26	< 0.18
	9/22/2015	33.39		716.56	15.2	7.27	1045	34	6.9	2.1 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	***34.7***	12.7	< 0.26	< 0.18
	12/15/2015	32.34		717.61	11.2	7.37	1003	38	7.3	1.8 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	***26.4***	10	< 0.26	< 0.18
	3/8/2016	32.16		717.79	12.8	7.23	1298	85	7.0	2.2 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	***20.7***	8.6	< 0.26	< 0.18
LTMW-07	3/12/2010	31.97	750.07	718.10	11.8	7.26	819	-19	5.0	18.8	<100	NM	NM	19.9	<1.0	<1.0	<1.0	***14.1***	9.1	<1.0	<1.0
DUP-02	3/12/2010	31.97		718.10	11.8	7.26	819	-19	5.0	20.0	<100	NM	NM	19.9	<1.0	<1.0	<1.0	***14.4***	8.9	<1.0	<1.0
	6/25/2010	31.47		718.60	12.6	6.84	915	17	8.0	42.9	NM	NM	NM	NM	<1.0	<1.0	<1.0	***15.5***	9.7	<1.0	<1.0
	9/22/2010	31.72		718.35	13.6	7.23	802	58	4.8	54.8	NM	NM	NM	NM	<1.0	<1.0	<1.0	***19.3***	10.6	<1.0	<1.0
	12/22/2010	32.57		717.50	10.3	7.3	804	68	5.3	35.7	<100	6.7	NM	20	<1.0	<1.0	<1.0	***14.4***	10.7	<1.0	<1.0
	3/16/2011	32.05		718.02	12.3	7.33	858	140	6.6	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***12.0***	7.8	< 0.89	< 0.18
DUP-01	3/16/2011	32.05		718.02	12.3	7.33	858	140	6.6	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***11.9***	7.6	< 0.89	< 0.18
	7/6/2011	32.36		717.71	12.7	7.42	848	39	7.5	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***11.1***	8	< 0.89	< 0.18
	9/21/2011	33.12		716.95	12.2	7.24	848	80	8.2	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***11.5***	5.8	< 0.89	< 0.18
	12/22/2011	33.04		717.03	9.6	7.26	835	17	6.2	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***7.5***	4.8	< 0.89	< 0.18
	3/1/2012	33.51		716.56	10.4	7.29	919	95	5.0	34.2	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	***5.7***	3.4	< 0.89	< 0.18
	6/6/2012	33.52		716.55	12.7	7.27	928	61	4.0	31.5	NM	NM	NM	NM	4	< 0.75	< 0.45	4.9	2.2	< 0.89	< 0.18
	9/27/2012	35.38		714.69	12.6	7.27	877	183	7.1	< 2.4	NM	NM	NM	NM	<0.9	< 0.75	< 0.45	3.8	2	< 0.89	< 0.18
	12/19/2012	35.24		714.83	10.9	7.36	912	183	8.0	< 2.4	NM	NM	NM	NM	<0.9	< 0.75	< 0.45	2.8	1.1	< 0.89	< 0.18
	3/7/2013	34.29		715.78	9.5	7.32	8883	196	7.4	1.5 J	NM	NM	NM	NM	<0.9	< 0.75	< 0.45	2.1	< 0.83	< 0.89	< 0.18
	5/20/2013	30.61		719.46	15.1	7.38	833	48	1.1	< 1.4	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	3.7	1.9	< 0.37	< 0.18
	8/27/2013	31.85		718.22	15.5	7.30	893	214	6.9	2.0 J	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	2.2	0.71 J	< 0.37	< 0.18
	12/10/2013	33.14		716.93	9.0	7.35	894	62	7.0	2.1 J	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	1.5	0.47 J	< 0.37	< 0.18
	3/11/2014	33.36		716.71	10.4	7.34	909	-104	6.9	< 1.4	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	1.1	< 0.42	< 0.37	< 0.18
	6/24/2014	31.90		718.17	15.7	7.30	979	58	7.0	2.3	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	0.88 J	< 0.26	< 0.26	< 0.18
	9/23/2014	32.74		717.33	13.8	7.37	946	22	6.9	1.5 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	0.50 J	< 0.26	< 0.26	< 0.18
	12/16/2014	33.45		716.62	11.0	7.27	948	-15	7.5	2.1 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	0.58 J	< 0.26	< 0.26	< 0.18
	3/4/2015	33.80		716.27	9.2	6.91	964	-79	7.0	< 1.5	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	0.53 J	< 0.26	< 0.26	< 0.18
	6/17/2015	33.08		716.99	13.0	7.30	984	-34	7.1	< 1.5	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	< 0.33	< 0.26	< 0.26	< 0.18
	9/22/2015	33.53		716.54	14.3	7.26	983	-4	7.0	2.3 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	< 0.33	< 0.26	< 0.26	< 0.18
	12/15/2015	32.49		717.58	11.2	7.37	995	23	7.3	1.6 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	0.34 J	< 0.26	< 0.26	< 0.18
	3/8/2016	32.35		717.72	12.3	7.22	1005	14	7.1	< 1.5	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	< 0.33	< 0.26	< 0.26	< 0.18

Notes: (1) Maximum Concentration Level (MCL) promulgated under the Safe Drinking Water Act.
(2) Limit established in 2009 Workplan
(3) NM indicates not measured
(4) < indicates analyte was not detected above the listed concentration
(5) J indicates estimated concentration. Reported result is between the method detection limit and the practical quantitation limit.
(6) ***Blue bold and italic*** values exceed the Long Term Cleanup Criteria

Table 4
Long Term Monitoring Wells on Edgemere Terrace - Data Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Inorganics				Volatile Organic Compounds						
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Total Chrome	Dis. Iron	Dis. Manganese	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
Well	Date	Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Long Term Clean-up Criteria - All LTMW Wells (1)									*100*				*200*	*200*	*5*	*5*	*70*	*100*	*2*
Surface Water Discharge Intermediate Clean-up Criteria (2)									**42**				**76**	**47**	**45**	**25**	**620**	**970**	**120**
LTMW-08	3/8/2010	17.73	711.43	10.4	7.17	718	25	6.4	5.2	<100(4)	160	NM	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0
	6/23/2010	16.08	713.08	13.1	6.80	930	12	8.5	< 5.0	NM(3)	NM	NM	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0
DUP-01	6/23/2010	16.08	713.08	13.1	6.80	930	12	8.5	< 5.0	NM(3)	NM	NM	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0
	9/21/2010	17.42	711.74	14.6	7.21	781	31	5.4	34.7	NM	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/22/2010	17.04	712.12	10.3	7.31	775	49	7.3	67.5	<100	14.1	21.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/15/2011	16.34	712.82	10.8	7.34	828	99	7.0	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.1	< 0.83	< 0.89	< 0.18
	6/30/2011	17.66	711.50	13.2	7.27	803	49	8.7	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.2	< 0.83	< 0.89	< 0.18
	9/21/2011	18.75	710.41	13.1	7.24	785	55	9.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.0	< 0.83	< 0.89	< 0.18
DUP-01	9/21/2011	18.75	710.41	13.1	7.24	785	55	9.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.1	< 0.83	< 0.89	< 0.18
	12/20/2011	17.63	711.53	10.7	7.03	793	133	7.9	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.4	< 0.83	< 0.89	< 0.18
DUP-01	12/20/2011	17.63	711.53	10.7	7.03	793	133	7.9	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.4	< 0.83	< 0.89	< 0.18
	2/28/2012	18.43	710.73	9.6	7.19	861	100	9.4	12.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.3	< 0.83	< 0.89	< 0.18
	6/5/2012	18.39	710.77	13.2	7.23	861	105	5.0	8.5	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.2	< 0.83	< 0.89	< 0.18
DUP-01	6/5/2012	18.39	710.77	13.2	7.23	861	105	5.0	7.6	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.4	< 0.83	< 0.89	< 0.18
	9/26/2012	20.25	708.91	NA	7.27	825	183	5.5	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	2	1.1	< 0.89	< 0.18
	12/19/2012	19.61	709.55	10.8	7.28	832	194	6.5	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.4	1.5	< 0.89	< 0.18
	3/6/2013	18.52	710.64	7.8	7.32	807	166	5.8	2.2 J	NM	NM	NM	< 0.9	< 0.75	< 0.45	3.1	2.1	< 0.89	< 0.18
	5/20/2013	15.02	714.14	13.5	7.30	764	-248	0.2	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	1	< 0.42	< 0.37	< 0.18
	8/26/2013	18.08	711.08	16.9	7.27	802	114	6.4	2.8 J	NM	NM	NM	0.56 J	< 0.28	< 0.47	1.5	< 0.42	< 0.37	< 0.18
	12/9/2013	18.43	710.73	9.4	7.26	837	82	6.3	2.4 J	NM	NM	NM	0.61 J	< 0.28	< 0.44	2.1	0.96 J	< 0.37	< 0.18
	3/10/2014	18.75	710.41	10.3	7.39	835	-154	5.9	2.5 J	NM	NM	NM	0.51 J	< 0.28	< 0.47	1.9	0.78 J	< 0.37	< 0.18
	6/23/2014	16.15	713.01	13.8	7.30	906	108	6.6	2.3 J	NM	NM	NM	0.54 J	< 0.24	< 0.50	1.7	0.52 J	< 0.26	< 0.18
	9/22/2014	18.41	710.75	14.0	7.35	863	60	6.5	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	1.6	0.61 J	< 0.26	< 0.18
	12/15/2014	18.48	710.68	10.8	7.22	873	58	6.5	2.5 J	NM	NM	NM	< 0.50	< 0.24	< 0.50	2	0.92 J	< 0.26	< 0.18
	3/2/2015	18.81	710.35	9.3	6.64	880	-94	6.2	9.4	NM	NM	NM	0.57 J	< 0.24	< 0.50	2	0.93 J	< 0.26	< 0.18
	6/16/2015	16.86	712.30	15.1	7.28	906	7	5.9	< 1.5	NM	NM	NM	0.67 J	< 0.24	< 0.50	2.1	1.1	< 0.26	< 0.18
	9/21/2015	18.13	711.03	15.4	7.27	898	-122	5.4	2.3 J	NM	NM	NM	< 0.50	< 0.24	< 0.50	1.7	1.2	< 0.26	< 0.18
	12/14/2015	16.29	712.87	11.4	7.22	880	58	5.8	2.0 J	NM	NM	NM	0.53 J	< 0.24	< 0.50	2.8	1.3	< 0.26	< 0.18
	3/7/2016	17.00	712.16	11.5	7.18	920	64	6.4	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	2	0.37 J	< 0.26	< 0.18
LTMW-09	3/8/2010	18.12	711.19	11.1	6.41	797	58	2.0	< 5.0	<100	225	NM	1.1	<1.0	<1.0	*9.3*(5)	6.5	<1.0	<1.0
DUP-01	3/8/2010	18.12	711.19	11.1	6.41	797	58	2.0	< 5.0	NM	NM	NM	1.1	<1.0	<1.0	*9.6*(5)	6.4	<1.0	<1.0
	6/24/2010	16.42	712.89	13.4	6.74	1080	18	3.4	< 5.0	NM	NM	NM	1.1	<1.0	<1.0	*7.7*	3.4	<1.0	<1.0
	9/21/2010	17.86	711.45	14.5	7.20	890	85	4.6	7.8	NM	NM	NM	1.1	<1.0	<1.0	*7.1*	2.4	<1.0	<1.0
	12/22/2010	17.45	711.86	10.7	7.30	891	71	5.9	14.1	<100	<5	18.3	<1.0	<1.0	<1.0	*5.4*	2.8	<1.0	<1.0
	3/15/2011	16.75	712.56	11.4	7.33	944	177	7.5	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	*6.8*	2.9	< 0.89	< 0.18
	7/1/2011	18.14	711.17	14.3	7.32	980	78	8.6	NM	NM	NM	NM	1.0	< 0.75	< 0.45	*6.4*	1.9	< 0.89	< 0.18
	9/21/2011	19.23	710.08	12.7	7.25	881	72	10.3	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	*6.4*	1.6	< 0.89	< 0.18
	12/20/2011	18.09	711.22	11.1	7.19	902	134	7.5	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	*6.1*	2.5	< 0.89	< 0.18
	2/29/2012	18.86	710.45	11.7	7.32	974	135	6.0	5.3	NM	NM	NM	< 0.9	< 0.75	< 0.45	*5.8*	2.2	< 0.89	< 0.18
DUP-01	2/29/2012	18.86	710.45	11.7	7.32	974	135	6.0	5.7	NM	NM	NM	< 0.9	< 0.75	< 0.45	*5.8*	2.1	< 0.89	< 0.18
	6/5/2012	18.88	710.43	14.2	7.31	970	102	4.0	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	*5.4*	2.4	< 0.89	< 0.18
	9/26/2012	20.65	708.66	15.1	7.26	1016	149	6.8	< 2.4	NM	NM	NM	< 0.90	< 0.75	< 0.45	*5.6*	2.4	< 0.89	< 0.18
	12/19/2012	19.99	709.32	11.8	7.29	1034	187	8.4	< 2.4	NM	NM	NM	1.1	< 0.75	< 0.45	*7.3*	3	< 0.89	< 0.18
	3/6/2013	18.99	710.32	9.3	7.30	1016	170	8.0	2.4 J	NM	NM	NM	0.92 J	< 0.75	< 0.45	*9.4*	4.4	< 0.89	< 0.18
	5/20/2013	15.60	713.71	14.4	7.30	1019	186	7.2	2.0 J	NM	NM	NM	0.77 J	< 0.28	< 0.47	*7.7*	3.3	< 0.37	< 0.18
	8/26/2013	18.64	710.67	15.0	7.29	969	151	7.3	2.0 J	NM	NM	NM	0.86 J	< 0.28	< 0.47	*5.8*	1.7	< 0.37	< 0.18
	12/9/2013	18.92	710.39	10.2	7.26	996	78	7.2	2.1 J	NM	NM	NM	0.79 J	< 0.28	< 0.47	*5.4*	2.6	< 0.37	< 0.18
	3/10/2014	19.21	710.10	9.5	7.39	994	-159	7.5	< 1.4	NM	NM	NM	0.60 J	< 0.28	< 0.47	*5.4*	2.4	< 0.37	< 0.18
	6/23/2014	16.55	712.76	15.7	7.3	974	136	7.4	1.4 J	NM	NM	NM	0.80 J	< 0.24	< 0.50	*5.8*	3.3	< 0.26	< 0.18
	9/22/2014	18.93	710.38	13.6	7.38	924	40	7.9	< 1.5	NM	NM	NM	0.55 J	< 0.24	< 0.50	5.0	2.8	< 0.26	< 0.18
	12/15/2014	18.95	710.36	10.9	7.26	950	7	7.6	2.0 J	NM	NM	NM	0.55 J	< 0.24	< 0.50	*5.8*	3.7	< 0.26	< 0.18
	3/2/2015	19.25	710.06	8.7	6.87	1011	-83	8.0	2.2 J	NM	NM	NM	0.76 J	< 0.24	< 0.50	*6.2*	4.1	< 0.26	< 0.18
	6/16/2015	17.12	712.19	14.5	7.27	1055	-56	7.5	< 1.5	NM	NM	NM	0.68 J	< 0.24	< 0.50	*6.5*	4.9	< 0.26	< 0.18
	9/21/2015	18.50	710.81	14.2	7.28	1036	-61	7.4	2.5 J	NM	NM	NM	< 0.50	< 0.24	< 0.50	*5.7*	5.4	< 0.26	< 0.18
	12/14/2015	16.70	712.61	11.2	7.24	1014	-19	7.2	2.2 J	NM	NM	NM	0.60 J	< 0.24	< 0.50	*6.5*	5.5	< 0.26	< 0.18
	3/7/2016	17.50	711.81	13.0	7.25	1010	-61	6.8	< 1.5	NM	NM	NM	0.65 J	< 0.24	< 0.50	*5.4*	5.3	< 0.26	< 0.18

Table 4
Long Term Monitoring Wells on Edgemere Terrace - Data Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Inorganics				Volatile Organic Compounds						
Well	Date	Water Depth Feet	Water Elev. Ft. MSL	Sample Temp. °C	pH Std. Units	Spec. Cond. µmhos/cm	ORP mV	Dis. Oxygen mg/L	Total Chrome µg/L	Dis. Iron µg/L	Dis. Manganese µg/L	Sulfate mg/L	1,1,1-TCA µg/L	1,1-DCA µg/L	PCE µg/L	TCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Vinyl Chloride µg/L
Long Term Clean-up Criteria - All LTMW Wells (1)									100				200	200	5	5	70	100	2
Surface Water Discharge Intermediate Clean-up Criteria (2)									42				76	47	45	25	620	970	120
LTMW-10	3/9/2010	14.80	711.28	11.2	7.24	1170	92	4.0	< 5.0	<100	27.1	NM	<1.0	<1.0	<1.0	21.9	12.4	<1.0	<1.0
	6/24/2010	12.99	713.09	13.7	6.78	1150	16	8.7	< 5.0	NM	NM	NM	1.4	<1.0	<1.0	17.6	8.5	<1.0	<1.0
	9/21/2010	14.40	711.68	14.9	7.17	927	66	5.2	16.5	NM	NM	NM	1.5	<1.0	<1.0	15.2	6.1	<1.0	<1.0
	12/22/2010	14.01	712.07	9.9	7.26	1112	76	6.3	27.8	<100	5.5	19.4	<1.0	<1.0	<1.0	20.8	12	<1.0	<1.0
DUP-02	12/22/2010	14.01	712.07	9.9	7.26	1112	76	6.3	25.2	<100	<5	19.4	<1.0	<1.0	<1.0	19.0	9.6	<1.0	<1.0
	3/15/2011	13.31	712.77	11.0	7.28	1175	176	7.3	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	21.4	10	< 0.89	< 0.18
	7/1/2011	14.65	711.43	14.5	7.23	1029	77	8.8	NM	NM	NM	NM	1.3	< 0.75	< 0.45	16.4	4.4	< 0.89	< 0.18
	9/21/2011	15.73	710.35	13.4	7.20	1033	74	8.8	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	23.4	9.8	< 0.89	< 0.18
	12/20/2011	14.65	711.43	10.7	7.19	943	144	8.2	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	21.7	13.4	< 0.89	< 0.18
	2/29/2012	15.37	710.71	11.2	7.27	1002	134	6.0	26.2	NM	NM	NM	< 0.9	< 0.75	< 0.45	20.4	11.1	< 0.89	< 0.18
	6/5/2012	15.40	710.68	13.9	7.21	999	89	5.0	8.8	NM	NM	NM	< 0.9	< 0.75	< 0.45	19.4	10.5	< 0.89	< 0.18
	9/26/2012	17.14	708.94	13.2	7.25	986	138	7.01	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	9.9	7.4	<0.89	<0.18
	12/19/2012	16.48	709.60	11.1	7.30	1003	175	8.5	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	7.4	5.1	<0.89	<0.18
	3/16/2013	15.50	710.58	8.4	7.32	946	158	7.5	3.0 J	NM	NM	NM	< 0.9	< 0.75	< 0.45	6	2.7	<0.89	<0.18
	5/20/2013	12.22	713.86	14.7	7.26	969	176	7.8	5.9	NM	NM	NM	< 0.44	< 0.28	< 0.47	14.9	7.7	< 0.37	< 0.18
	8/26/2013	15.15	710.93	15.4	7.27	1010	144	7.5	2.3 J	NM	NM	NM	< 0.44	< 0.28	< 0.47	20.6	9	< 0.37	< 0.18
	12/9/2013	15.40	710.68	9.3	7.28	947	97	7.3	1.9 J	NM	NM	NM	< 0.44	< 0.28	< 0.47	10	4.6	< 0.37	< 0.18
	3/10/2014	15.72	710.36	11.7	7.41	939	-144	6.9	1.8 J	NM	NM	NM	< 0.44	< 0.28	< 0.47	7.1	3.1	< 0.37	< 0.18
	6/23/2014	13.11	712.97	16.0	7.28	1027	101	7.1	2.2 J	NM	NM	NM	< 0.50	< 0.24	< 0.50	14.6	8.6	< 0.26	< 0.18
	9/22/2014	15.43	710.65	13.0	7.36	970	70	7.6	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	15.3	9.4	< 0.26	< 0.18
	12/15/2014	15.42	710.66	9.8	7.19	954	95	7.7	2.2 J	NM	NM	NM	< 0.50	< 0.24	< 0.50	9.8	4.1	< 0.26	< 0.18
	3/2/2015	15.76	710.32	6.8	7.95	969	-82	7.0	1.9 J	NM	NM	NM	< 0.50	< 0.24	< 0.50	8.8	3.7	< 0.26	< 0.18
	6/16/2015	13.62	712.46	14.6	7.28	986	35	6.8	4.0 J	NM	NM	NM	< 0.50	< 0.24	< 0.50	6.9	2.4	< 0.26	< 0.18
	9/22/2015	14.96	711.12	12.6	7.26	980	9	7.0	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	5.2	1.8	< 0.26	< 0.18
	12/14/2015	13.22	712.86	10.5	7.28	972	-38	6.7	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	5.8	1.8	< 0.26	< 0.18
	3/7/2016	14.07	712.01	13.6	7.24	10	57	6.6	1.7 J	NM	NM	NM	< 0.50	< 0.24	< 0.50	15.8	7.3	< 0.26	< 0.18
LTMW-11	3/9/2010	20.80	711.47	10.9	7.28	894	181	4.0	7.1	<100	35.7	NM	<1.0	<1.0	<1.0	12.6	9.6	<1.0	<1.0
	6/23/2010	19.35	712.92	14.4	6.85	1170	12	7.4	< 5.0	NM	NM	NM	<1.0	<1.0	<1.0	18	11.3	<1.0	<1.0
	9/21/2010	20.72	711.55	13.5	7.19	943	93	5.2	5.7	NM	NM	NM	<1.0	<1.0	<1.0	20.4	9.2	<1.0	<1.0
	12/22/2010	20.30	711.97	10.0	7.29	836	65	5.4	9.7	<100	<5	19.2	<1.0	<1.0	<1.0	15.5	10.2	<1.0	<1.0
	3/15/2011	19.62	712.65	11.3	7.31	885	177	5.9	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	15.8	8.9	< 0.89	< 0.18
	7/5/2011	21.10	711.17	13.0	7.33	933	49	7.3	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	19.1	11.1	< 0.89	< 0.18
	9/21/2011	21.98	710.29	13.0	7.23	808	76	7.2	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	16	7.7	< 0.89	< 0.18
	12/20/2011	20.94	711.33	10.0	7.25	831	144	7.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	9.7	6.7	< 0.89	< 0.18
	2/29/2012	21.62	710.65	11.7	7.27	917	130	7.0	7.3	NM	NM	NM	< 0.9	< 0.75	< 0.45	8.9	4.9	< 0.89	< 0.18
	6/6/2012	21.70	710.57	12.4	7.33	924	13	4.0	6	NM	NM	NM	< 0.9	< 0.75	< 0.45	8.1	4.3	< 0.89	< 0.18
	9/26/2012	23.39	708.88	12.9	7.27	904	154	6.5	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	4.1	1.8	< 0.89	< 0.18
	12/19/2012	22.72	709.55	11.0	7.33	938	181	7.4	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.1	< 0.83	< 0.89	< 0.18
	3/16/2013	21.79	710.48	8.5	7.32	937	177	6.8	1.7 J	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.4	< 0.83	< 0.89	< 0.18
	5/20/2013	18.53	713.74	14.1	6.81	131	34	0.2	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	1.1	0.52 J	< 0.37	< 0.18
	8/26/2013	21.40	710.87	14.0	7.30	910	168	6.8	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	10.9	4.6	< 0.37	< 0.18
	12/9/2013	21.56	710.71	5.8	7.31	895	123	6.5	2.0 J	NM	NM	NM	< 0.44	< 0.28	< 0.47	3.4	1.5	< 0.37	< 0.18
	3/10/2014	21.96	710.31	8.9	7.41	888	-142	5.6	2.3 J	NM	NM	NM	< 0.44	< 0.28	< 0.47	2.5	0.79 J	< 0.37	< 0.18
	6/23/2014	19.36	712.91	15.3	7.31	963	121	6.6	1.7 J	NM	NM	NM	< 0.50	< 0.24	< 0.50	4.5	2.5	< 0.26	< 0.18
	9/22/2014	21.66	710.61	13.4	7.37	897	83	6.8	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	4.3	2.0	< 0.26	< 0.18
	12/15/2014	21.65	710.62	10.3	7.25	917	24	7.2	2.1 J	NM	NM	NM	< 0.50	< 0.24	< 0.50	2.7	0.75 J	< 0.26	< 0.18
	3/2/2015	21.98	710.29	7.3	7.88	944	-61	6.6	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	2.2	0.54 J	< 0.26	< 0.18
	6/16/2015	19.82	712.45	15.1	7.29	972	39	6.5	1.6 J	NM	NM	NM	< 0.50	< 0.24	< 0.50	1.7	< 0.26	< 0.26	< 0.18
	9/22/2015	21.18	711.09	14.4	7.27	968	-9	6.6	2.5 J	NM	NM	NM	< 0.50	< 0.24	< 0.50	1.4	< 0.26	< 0.26	< 0.18
	12/15/2015	19.19	713.08	10.2	7.30	968	70	6.8	1.7 J	NM	NM	NM	< 0.50	< 0.24	< 0.50	1.1	< 0.26	< 0.26	< 0.18
	3/7/2016	20.34	711.93	12.4	7.28	964	11	6.2	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	3.1	1.1	< 0.26	< 0.18

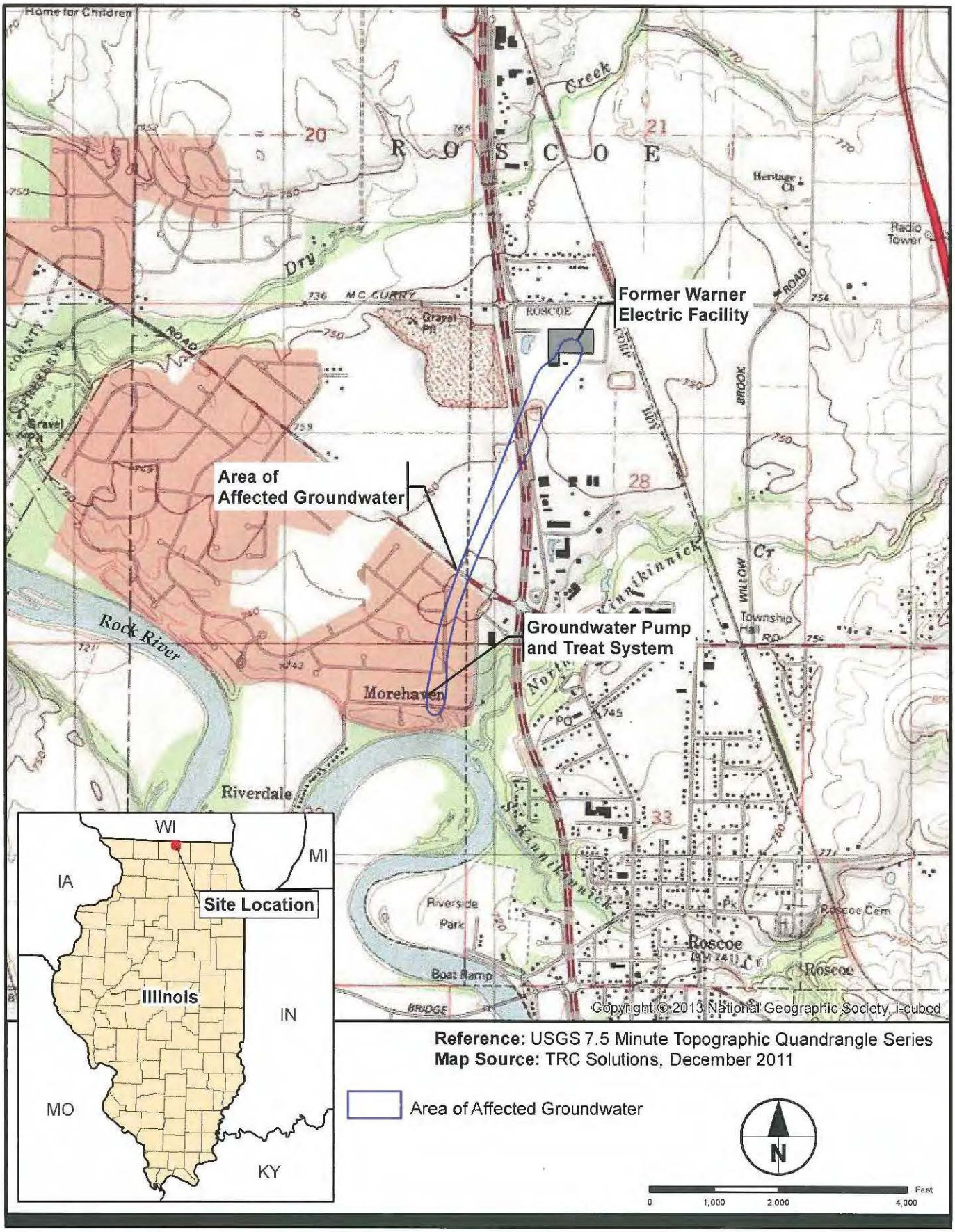
Notes: (1) Maximum Concentration Level (MCL) promulgated under the Safe Drinking Water Act.
(2) Limit established in 2009 Workplan
(3) NM indicates not measured
(4) < indicates analyte was not detected above the listed concentration
(5) J indicates estimated concentration. Reported result is between the method detection limit and the practical quantitation limit.
(6) ***Blue bold and italic*** values exceed the Long Term Cleanup Criteria

Table 5
Proposed Monitoring Well Sampling Frequency
Former Warner Electric Clutch and Brake
Roscoe, Illinois

Well Location and Designation	Total Depth (feet bgs)	Screen Depth (feet bgs)	Current Monitoring Frequency	Proposed Monitoring Frequency
Wells At Source Area				
MW-101	35	25 to 35	Quarterly	Semi-annual
MW-102	35	25 to 35	Quarterly	Semi-annual
MW-103	35	25 to 35	Quarterly	Quarterly
MW-104	35	25 to 35	Quarterly	Quarterly
MW-105	35	25 to 35	Quarterly	Quarterly
MW-106	35	25 to 35	Quarterly	Semi-annual
MW-107	35	25 to 35	Quarterly	Semi-annual
Wells Immediaely Downgradient From Source Area				
LTMW-01	37	32 to 37	Quarterly	Semi-annual
LTMW-02	40	35 to 40	Quarterly	Semi-annual
LTMW-03	35	25 to 35	Quarterly	Quarterly
LTMW-03A	45	40 to 45	Quarterly	Semi-annual
Wells Located At Hononegah Road				
LTMW-04	75	70 to 75	Quarterly	Semi-annual
LTMW-05	85	80 to 85	Quarterly	Semi-annual
LTMW-06	70	65 to 70	Quarterly	Semi-annual
LTMW-07	75	70 to 75	Quarterly	Semi-annual
Wells Located At Distal End of Plume on Edgemere Terrace				
LTMW-08	75	70 to 75	Quarterly	Semi-annual
LTMW-09	55	50 to 55	Quarterly	Semi-annual
LTMW-10	55	50 to 55	Quarterly	Semi-annual
LTMW-11	85	80 to 85	Quarterly	Semi-annual

FIGURES

Figures



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Project Management Initials: Designer: EM/ftc ANSI A 8.5" x 11"

Dana Corporation
Former Warner Electric Division
Roscoe, Illinois
Project No.: 60272149 Date: 2014-02-18

Site Location Map

AECOM

Figure: 1

ANSI B 11" x 17"

Project Management Initials: Designer: EM/ftc

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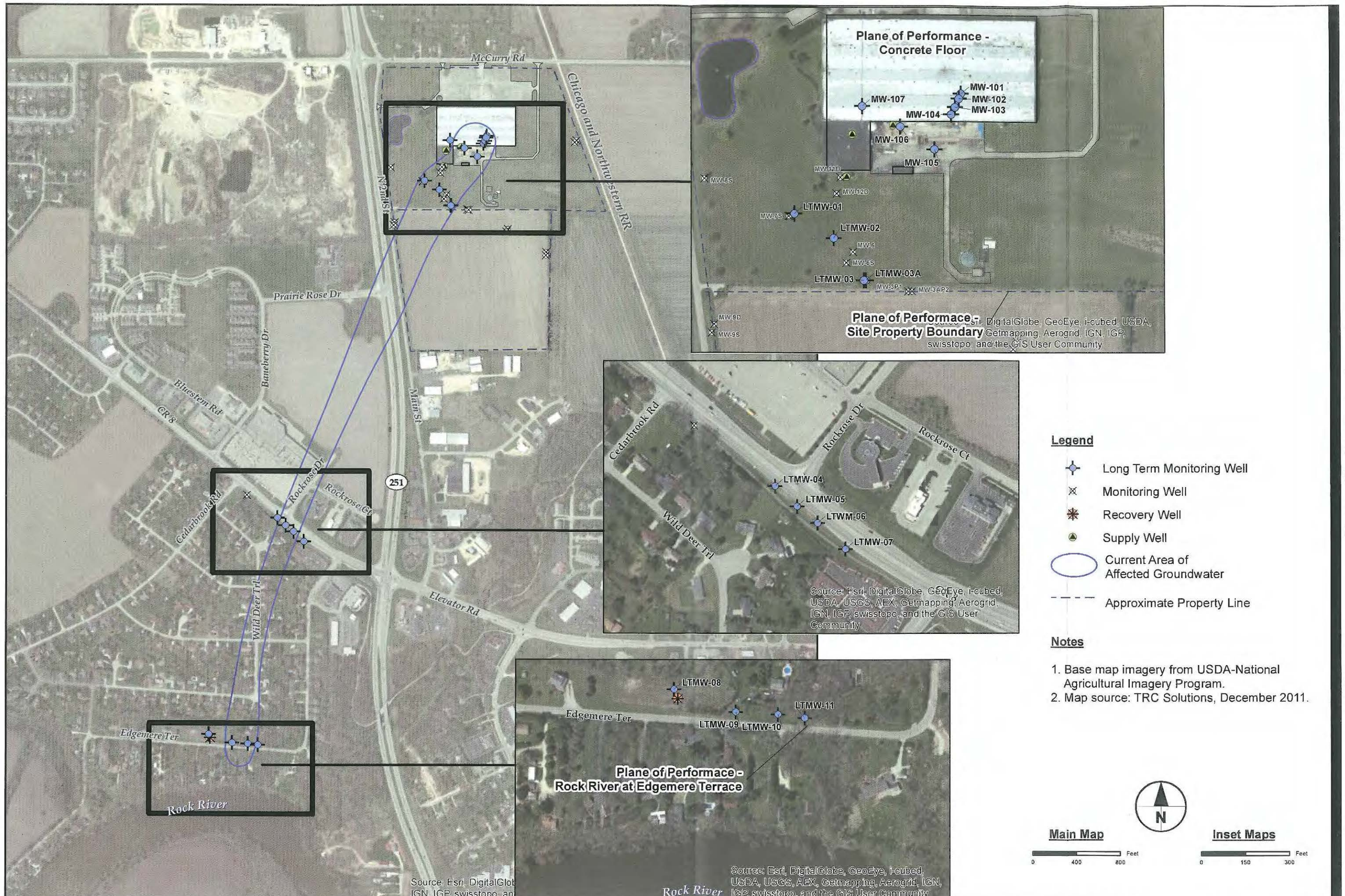


AECOM

Figure: 2

Planes of Performance and Monitoring Well Locations

Dana Corporation
Former Warner Electric Division
Roscoe, Illinois
Project No.: 60272149 Date: 2014-02-18

Figure 3
MW-101 CVOC Concentration Trend

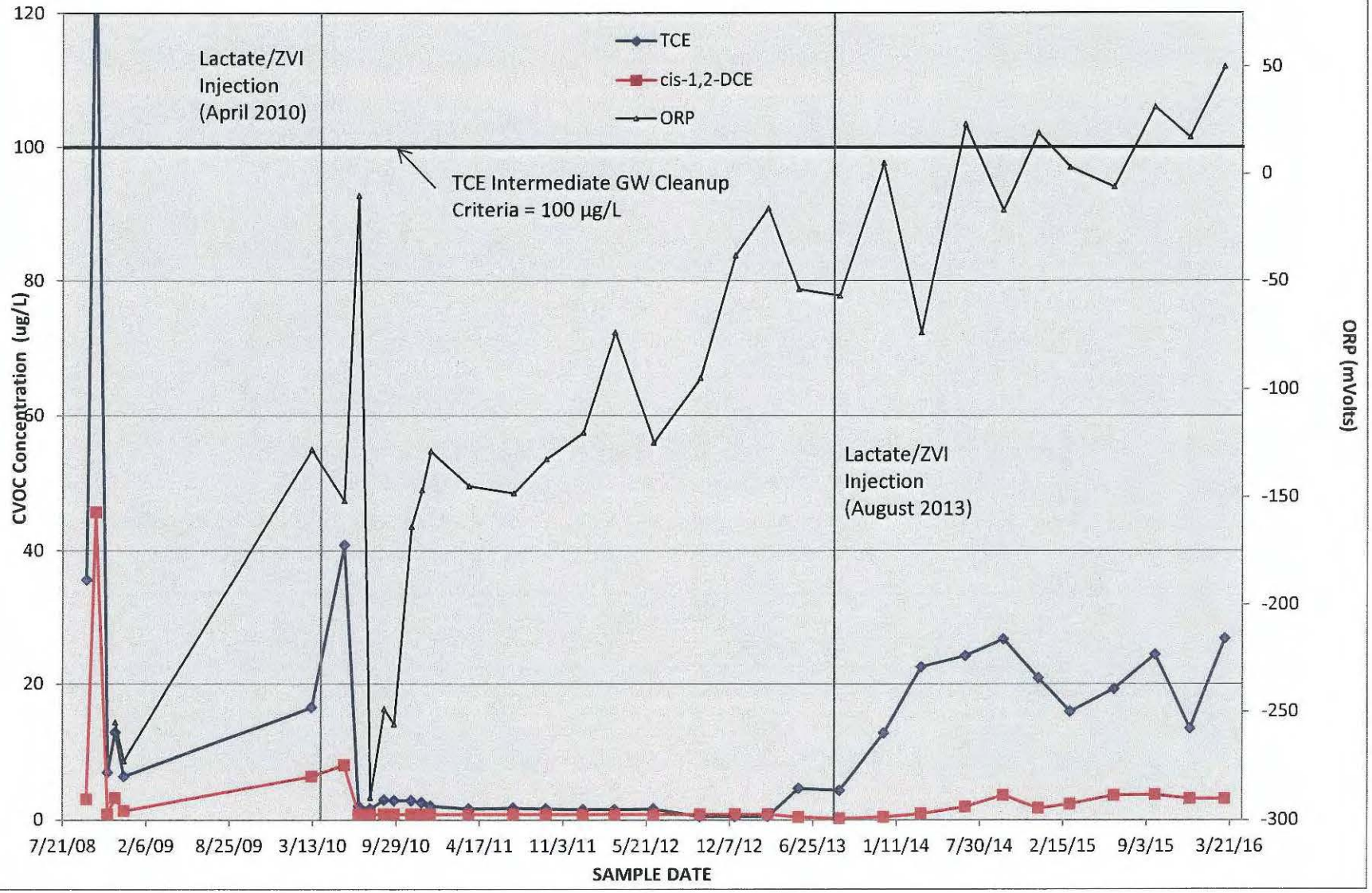
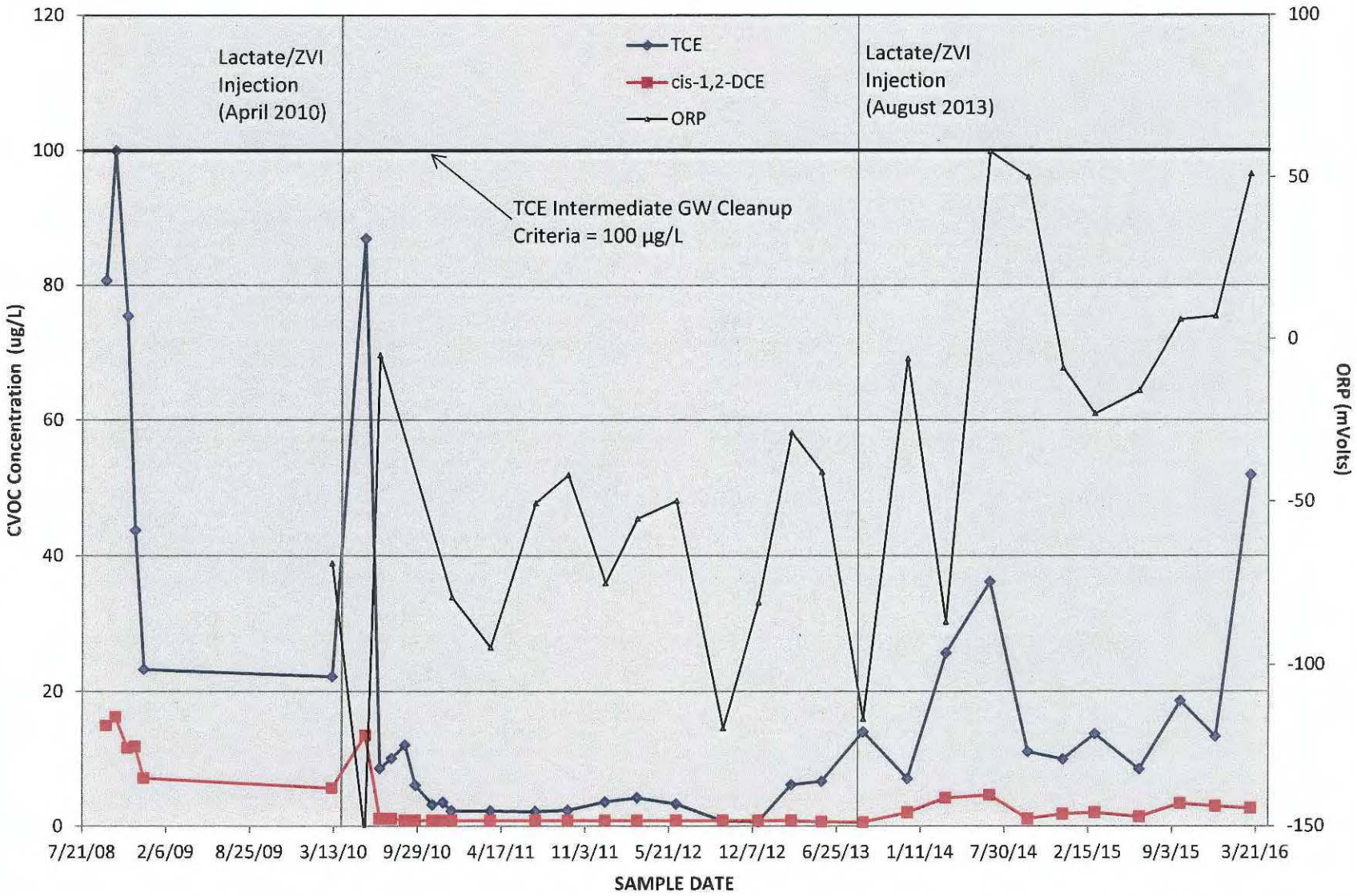


Figure 4
MW-102 CVOC Concentration Trend



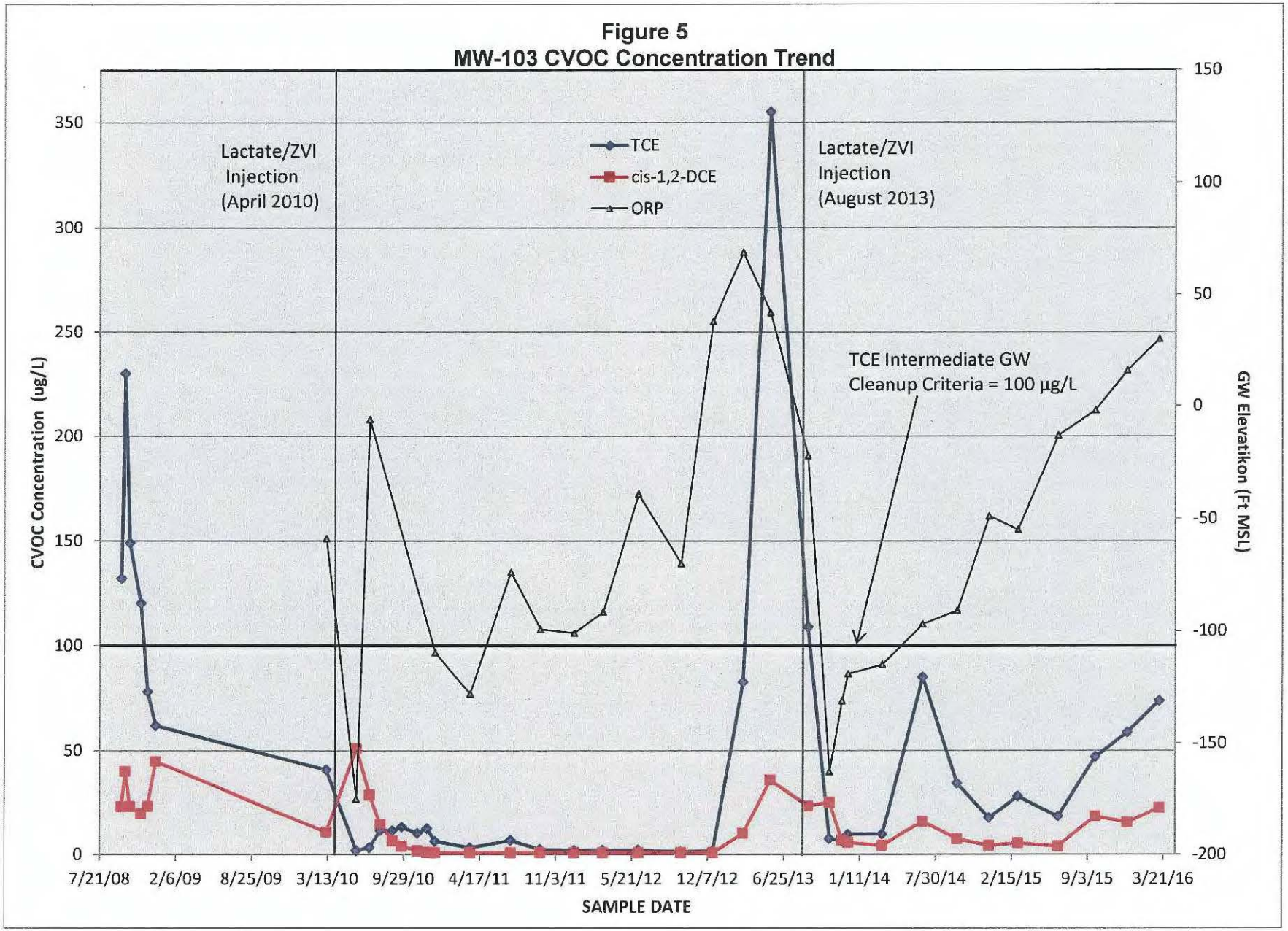


Figure 5
MW-103 CVOC Concentration Trend
Lactate/ZVI Injection (April 2010)
Lactate/ZVI Injection (August 2013)
TCE
cis-1,2-DCE
ORP
TCE Intermediate GW Cleanup Criteria = 100 µg/L
CVOC Concentration (ug/L)
GW Elevatikon (Ft MSL)
SAMPLE DATE
0
50
100
150
200
250
300
350
-200
-150
-100
-50
0
50
100
150
7/21/08
2/6/09
8/25/09
3/13/10
9/29/10
4/17/11
11/3/11
5/21/12
12/7/12
6/25/13
1/11/14
7/30/14
2/15/15
9/3/15
3/21/16

Figure 6
MW-104 CVOC Concentration Trend

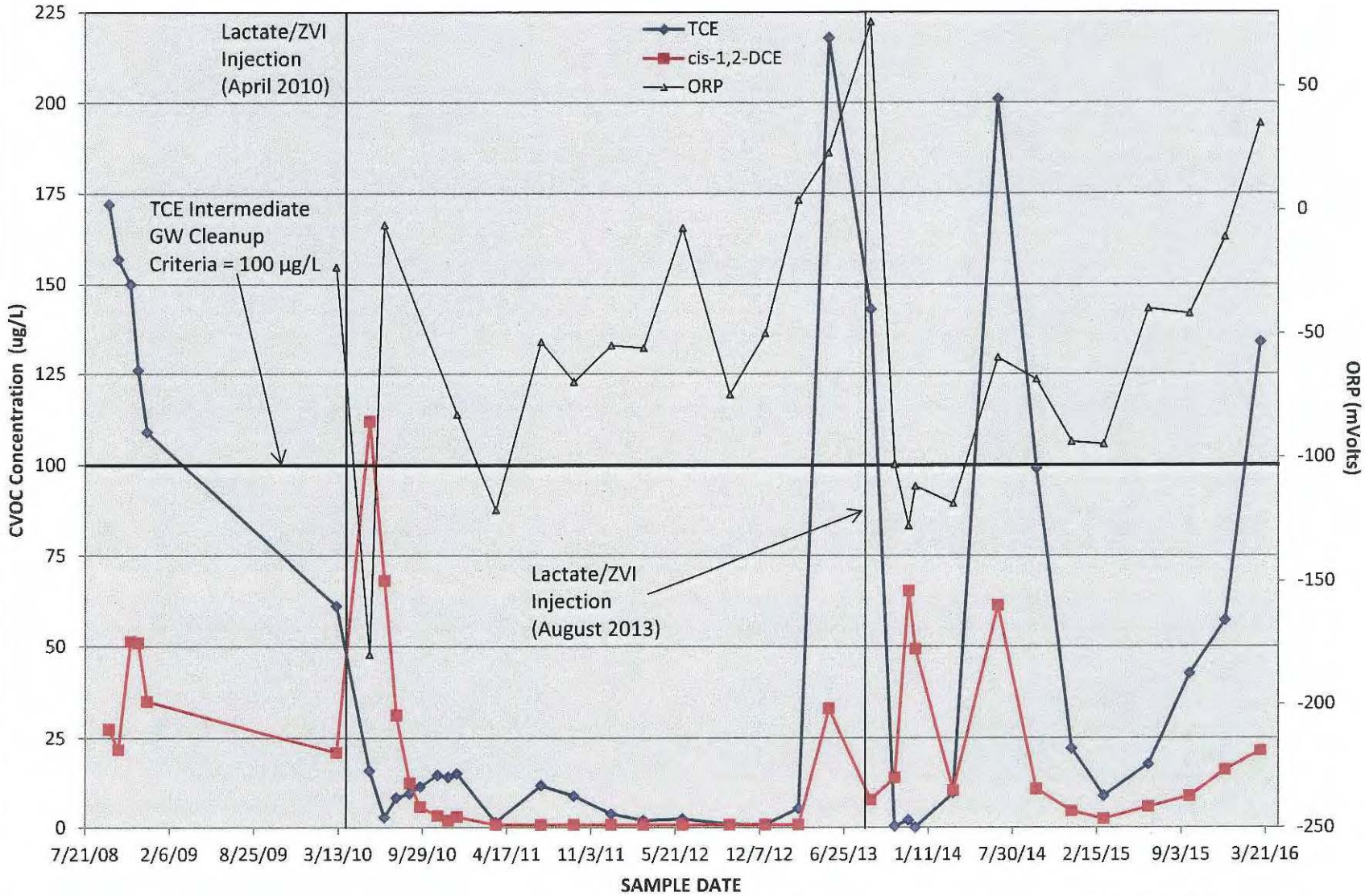


Figure 7
MW-105 CVOC Concentration Trend

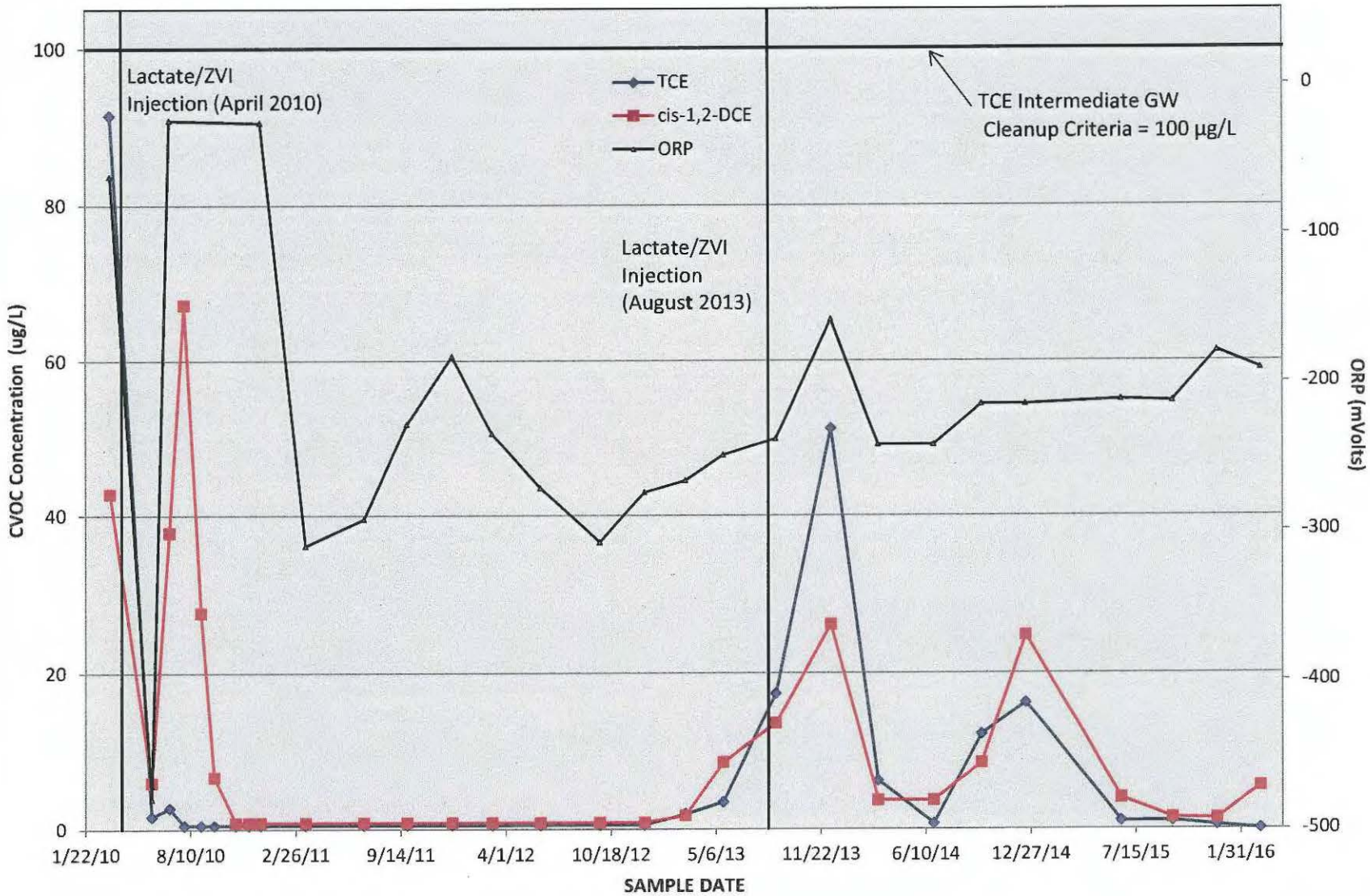


Figure 8
MW-106 CVOC Concentration Trend

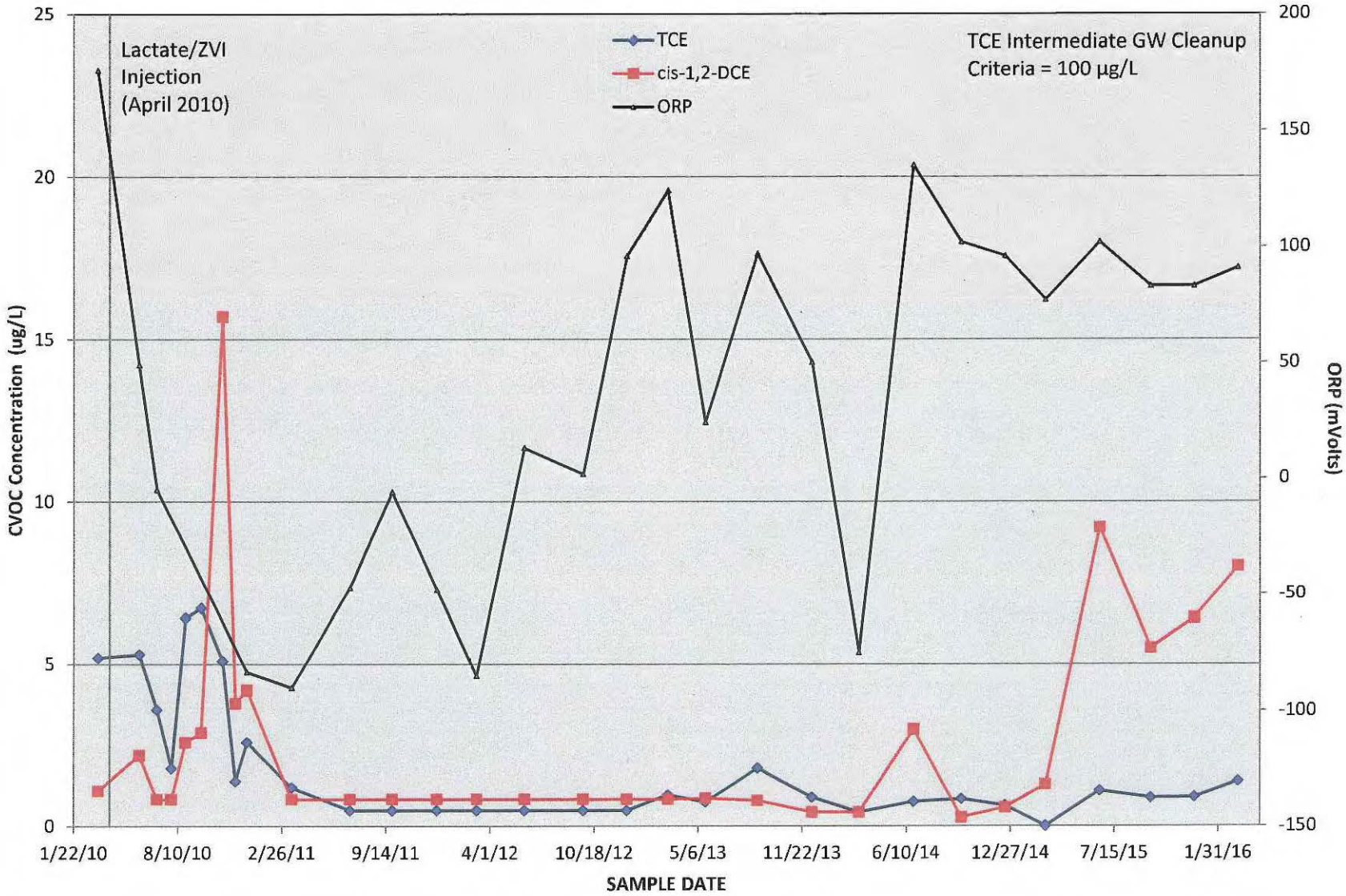


Figure 9
MW-107 CVOC Concentration

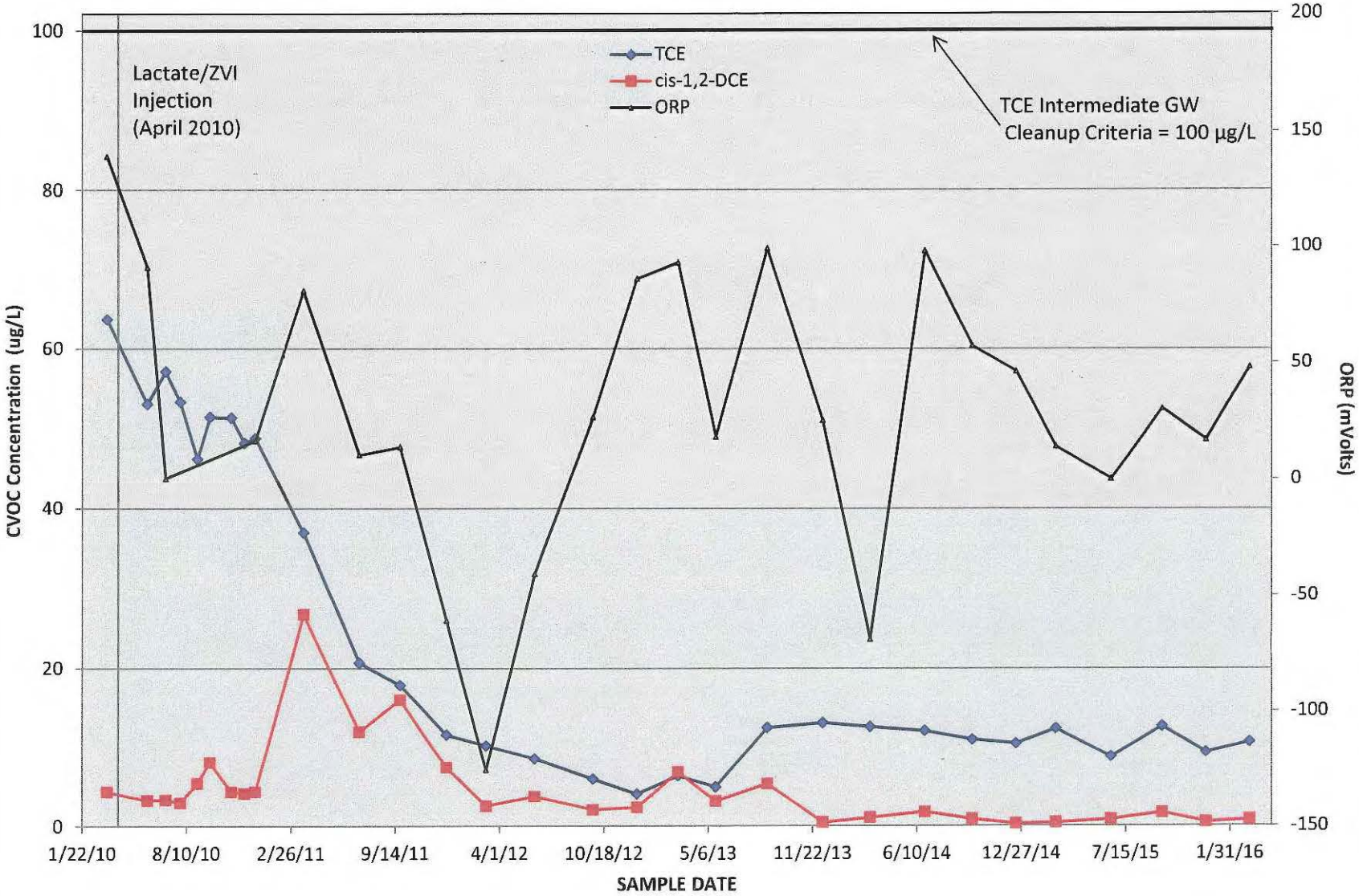


Figure 10
LTMW-01 CVOC Concentration Trend

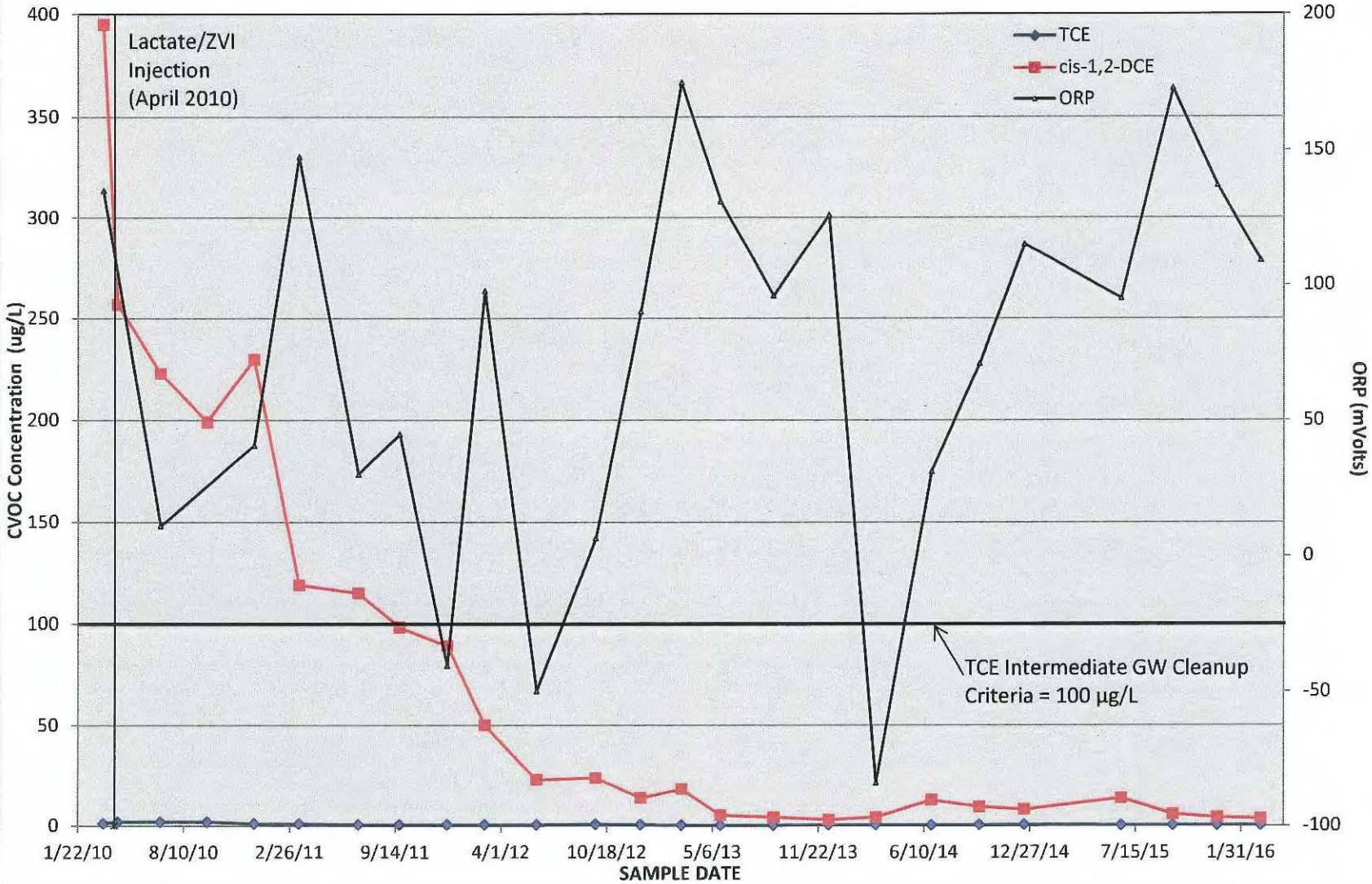


Figure 11
LTMW-02 CVOC Concentration Trend

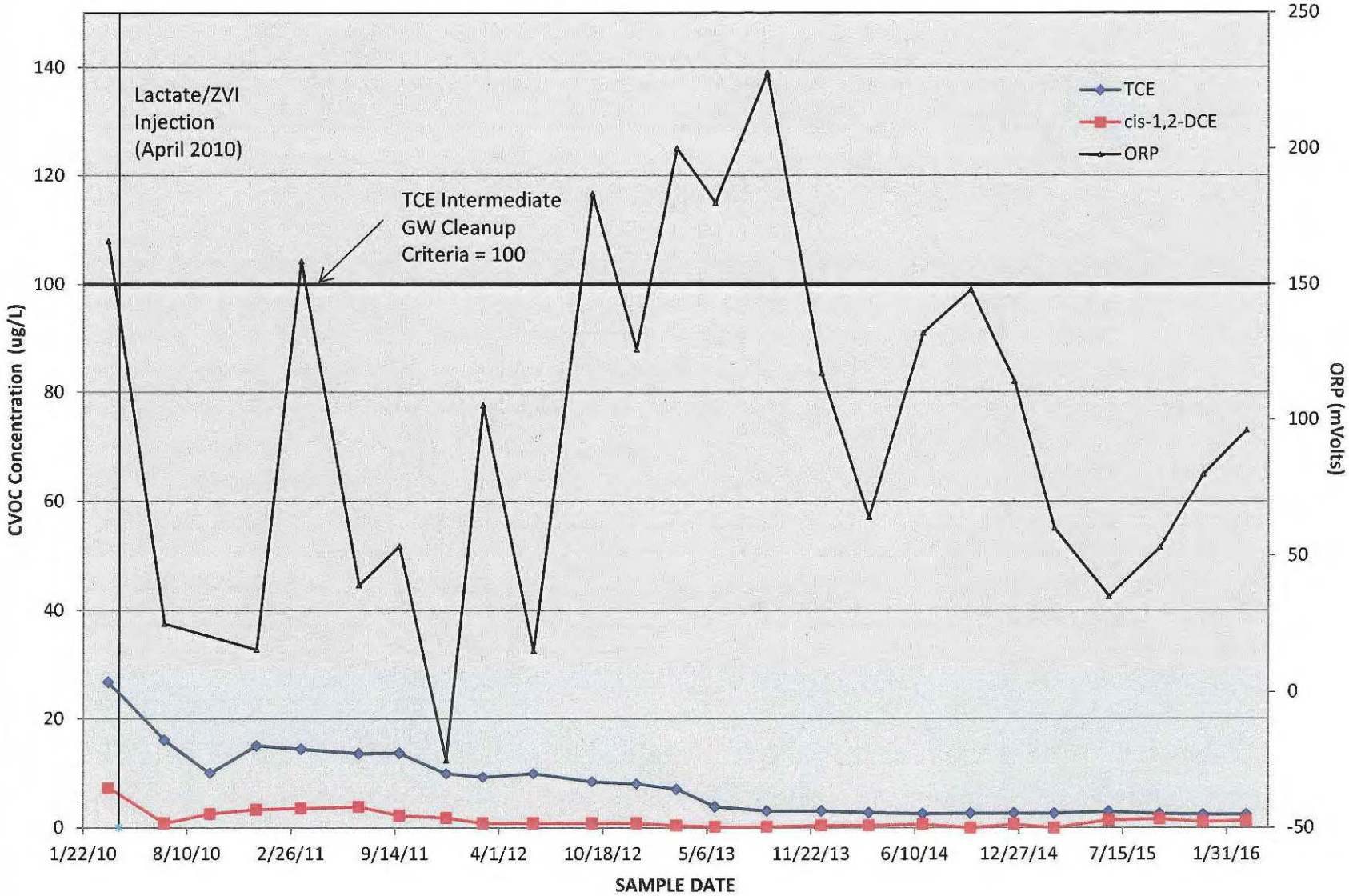


Figure 12
LTMW-03 CVOC Concentration Trend

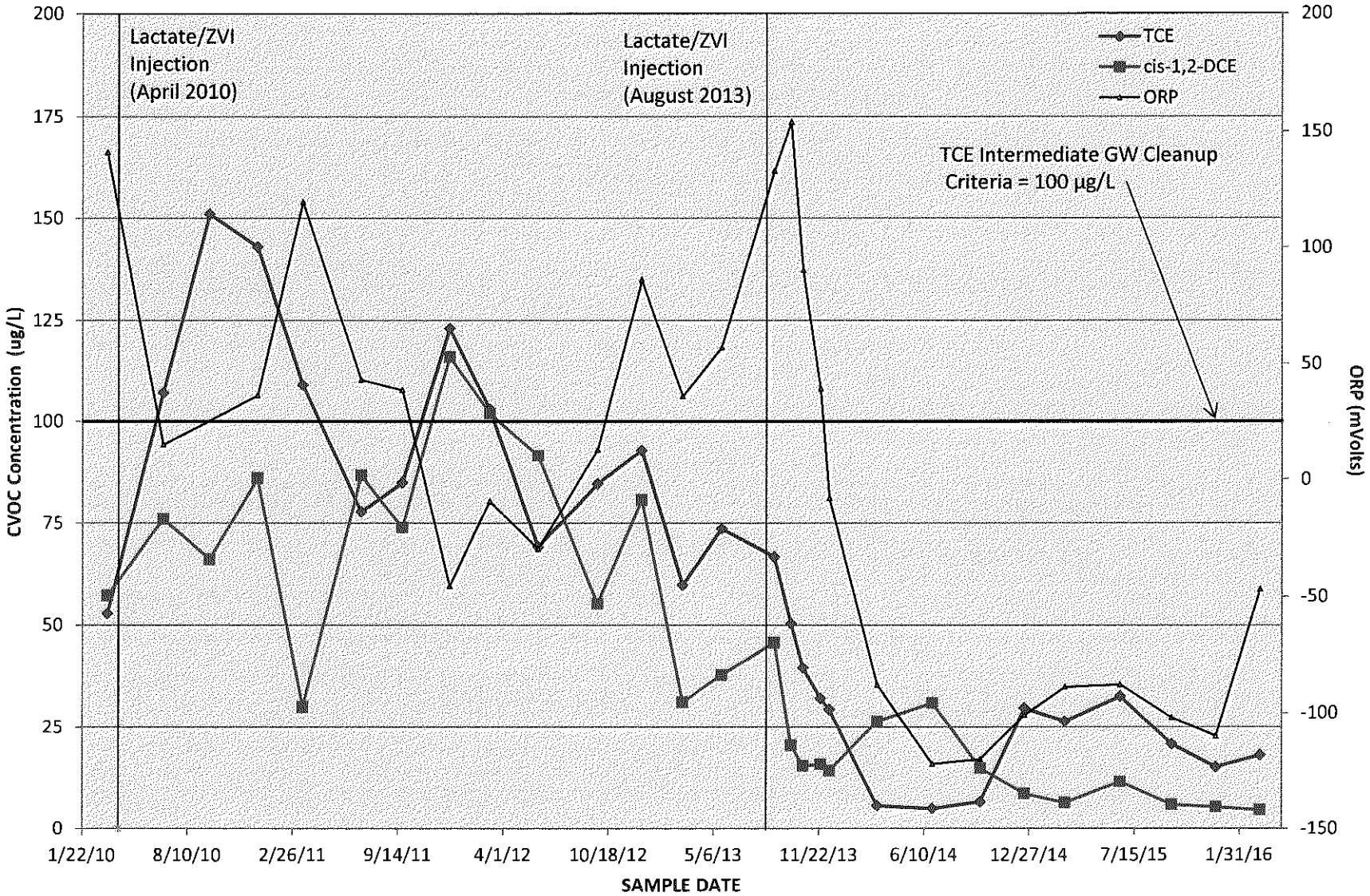


Figure 13
LTMW-03A Concentration Trend

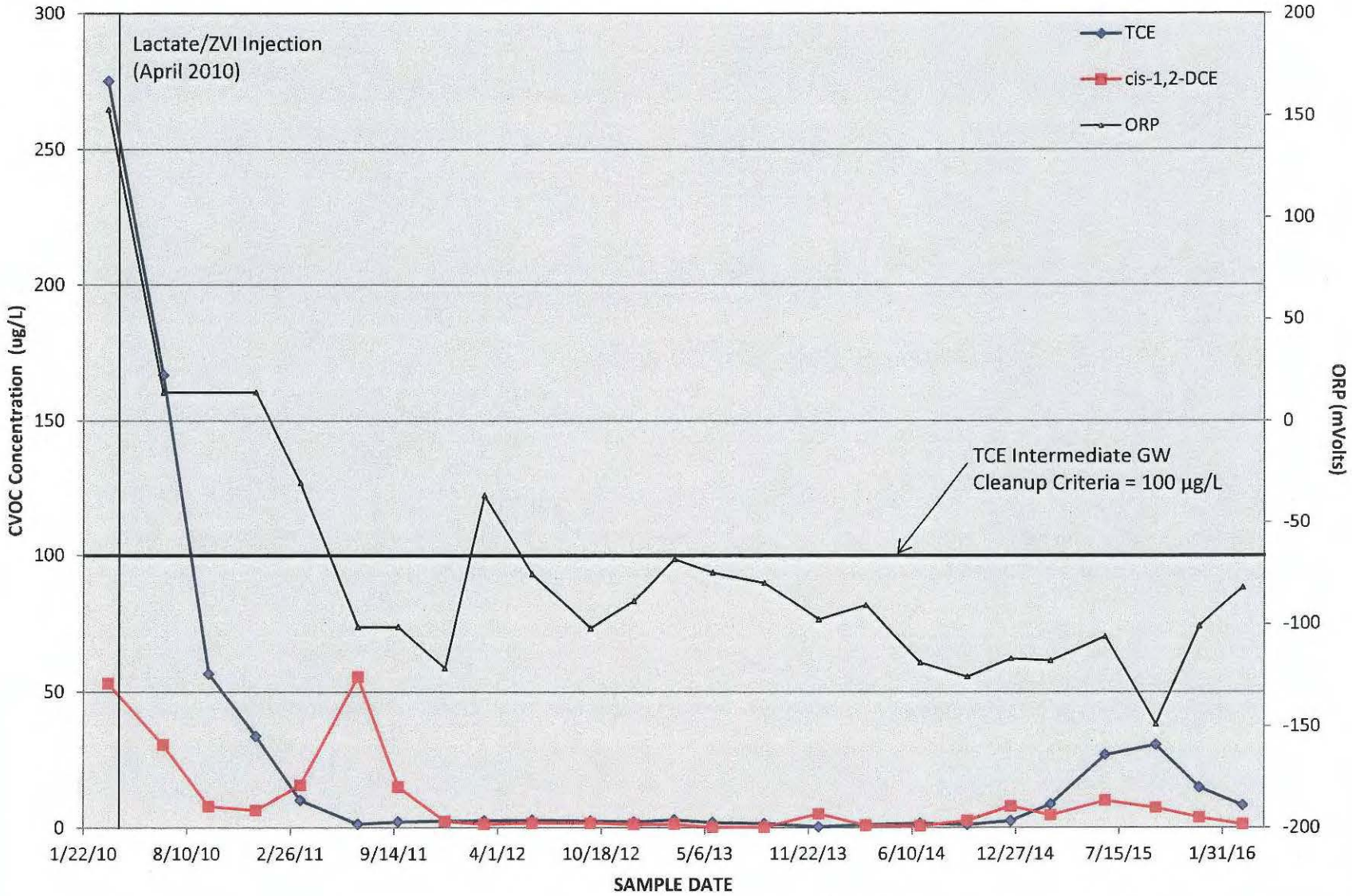


Figure 14
Long Term TCE Concentration Trend at Hononegah Road

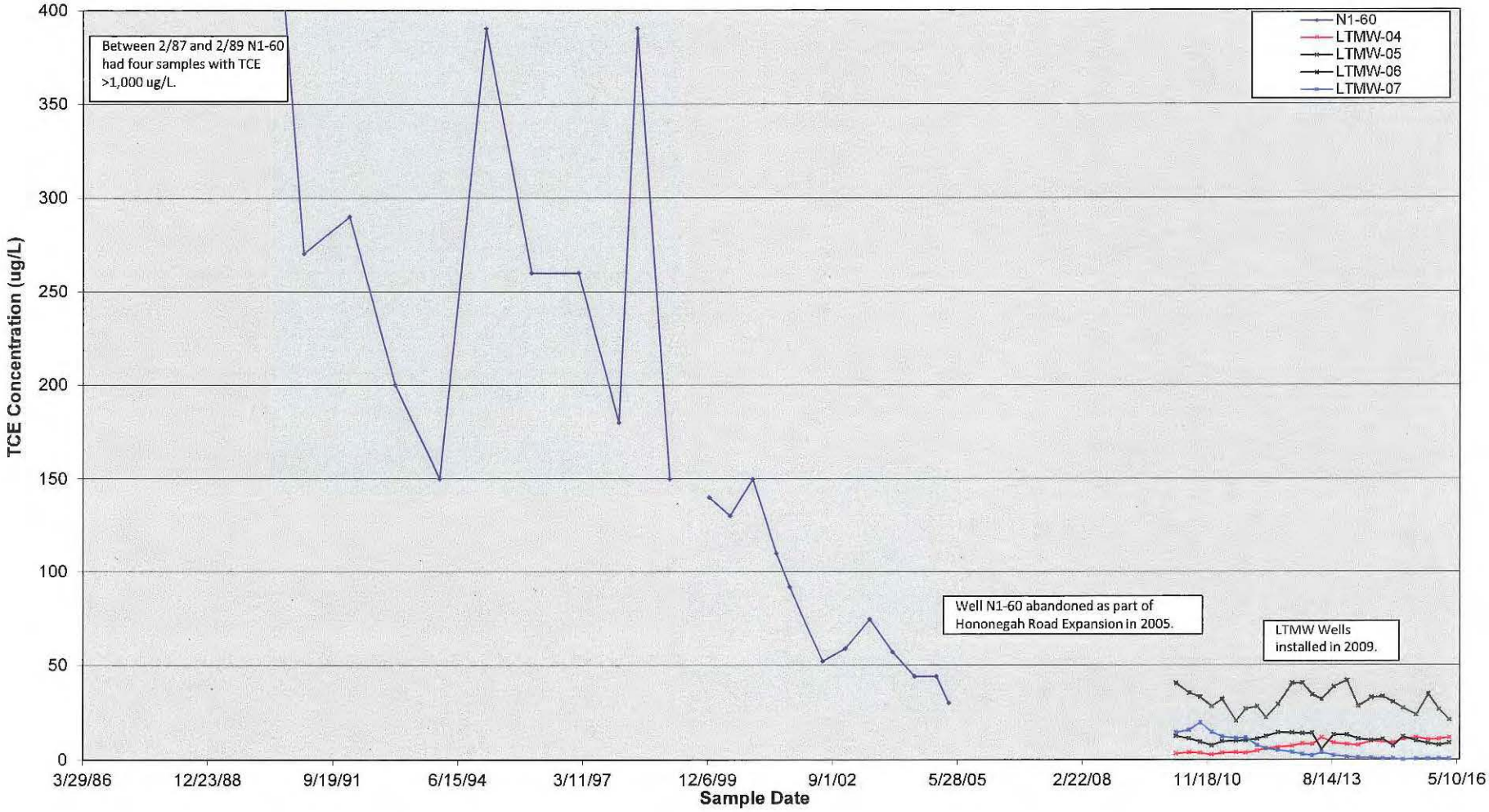


Figure 15
LTMW-04 CVOC Concentration Trend

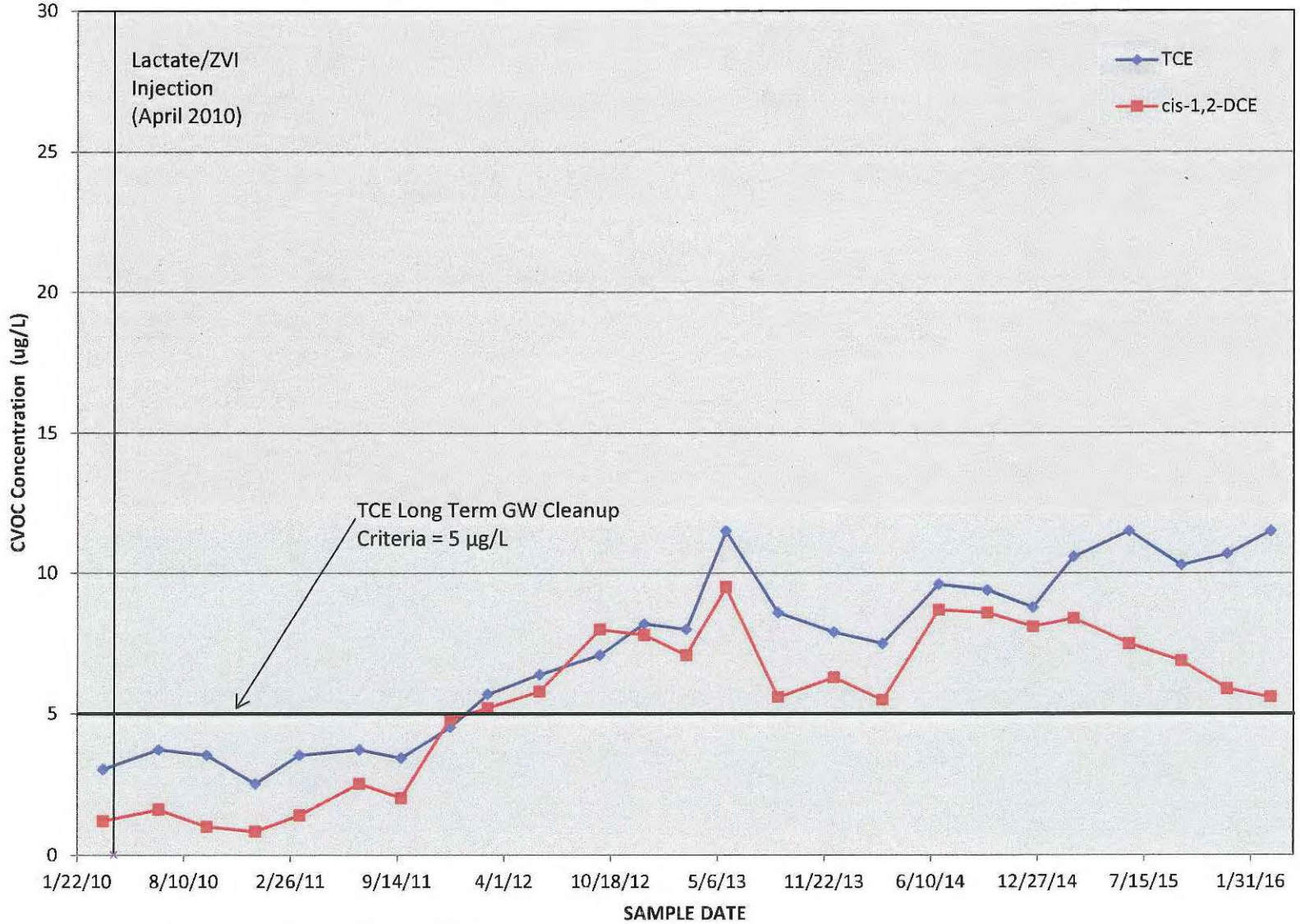


Figure 16
LTMW-05 CVOC Concentration Trend

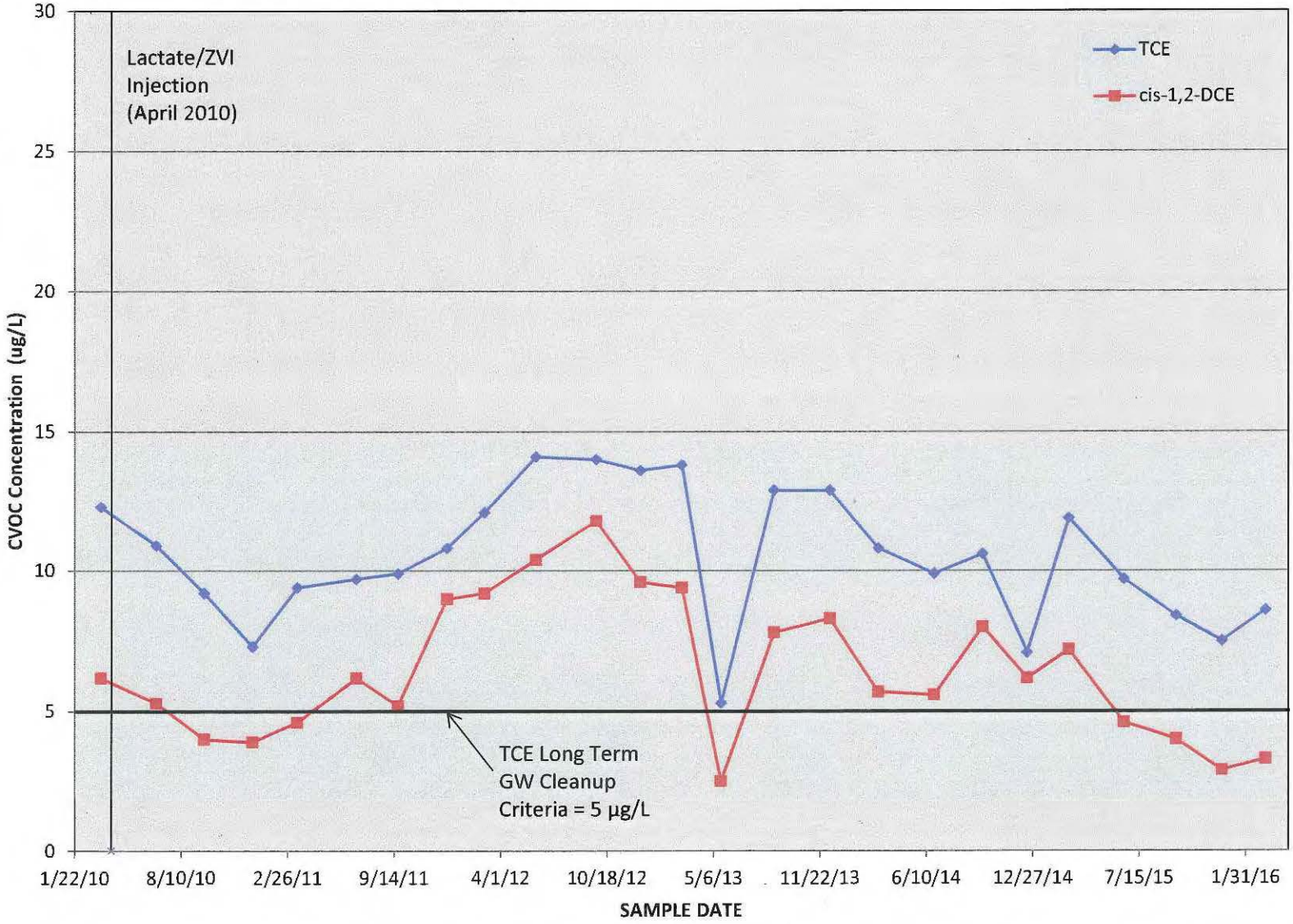


Figure 17
LTMW-06 CVOC Concentration Trend

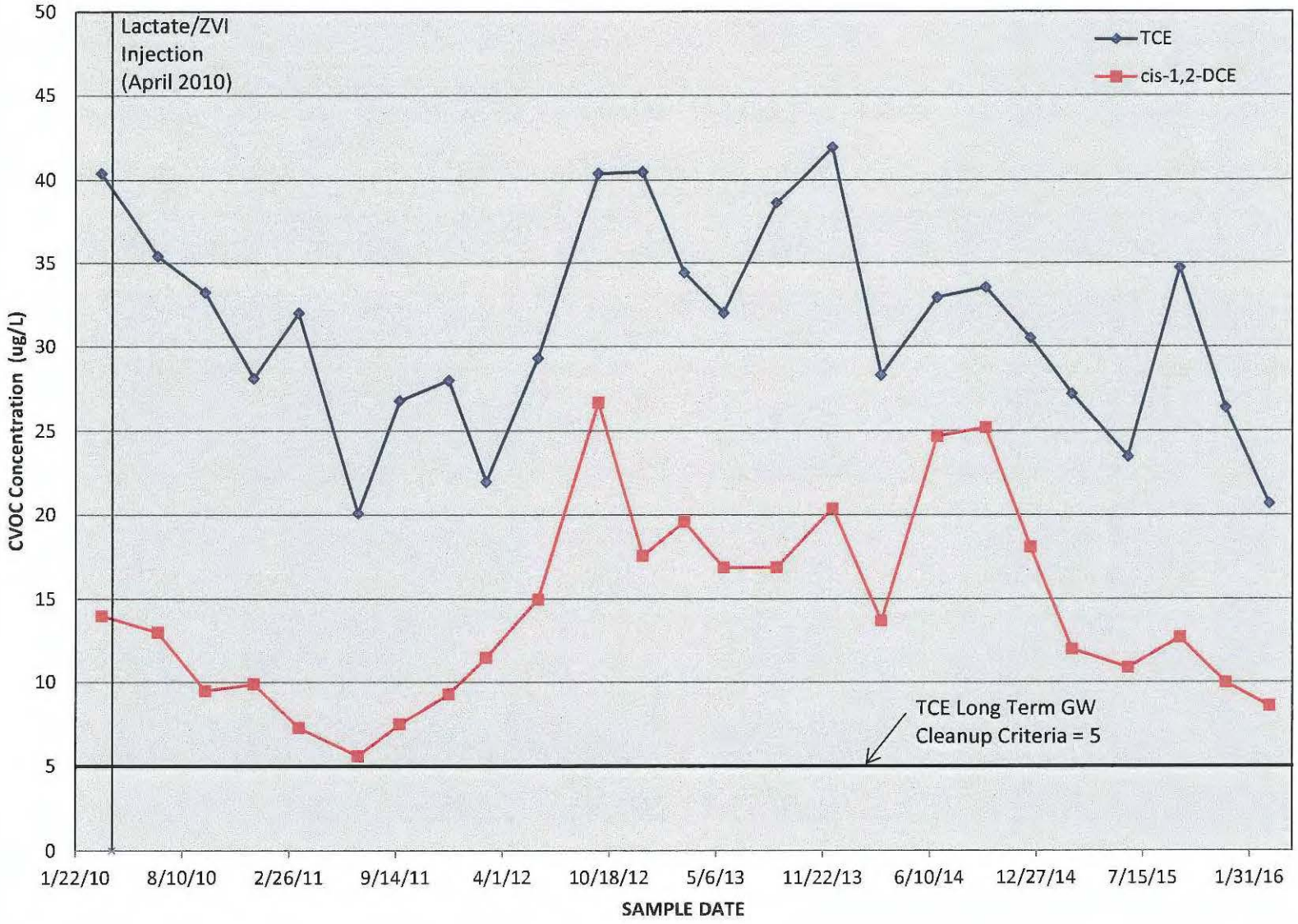


Figure 18
LTMW-07 CVOC Concentration Trend

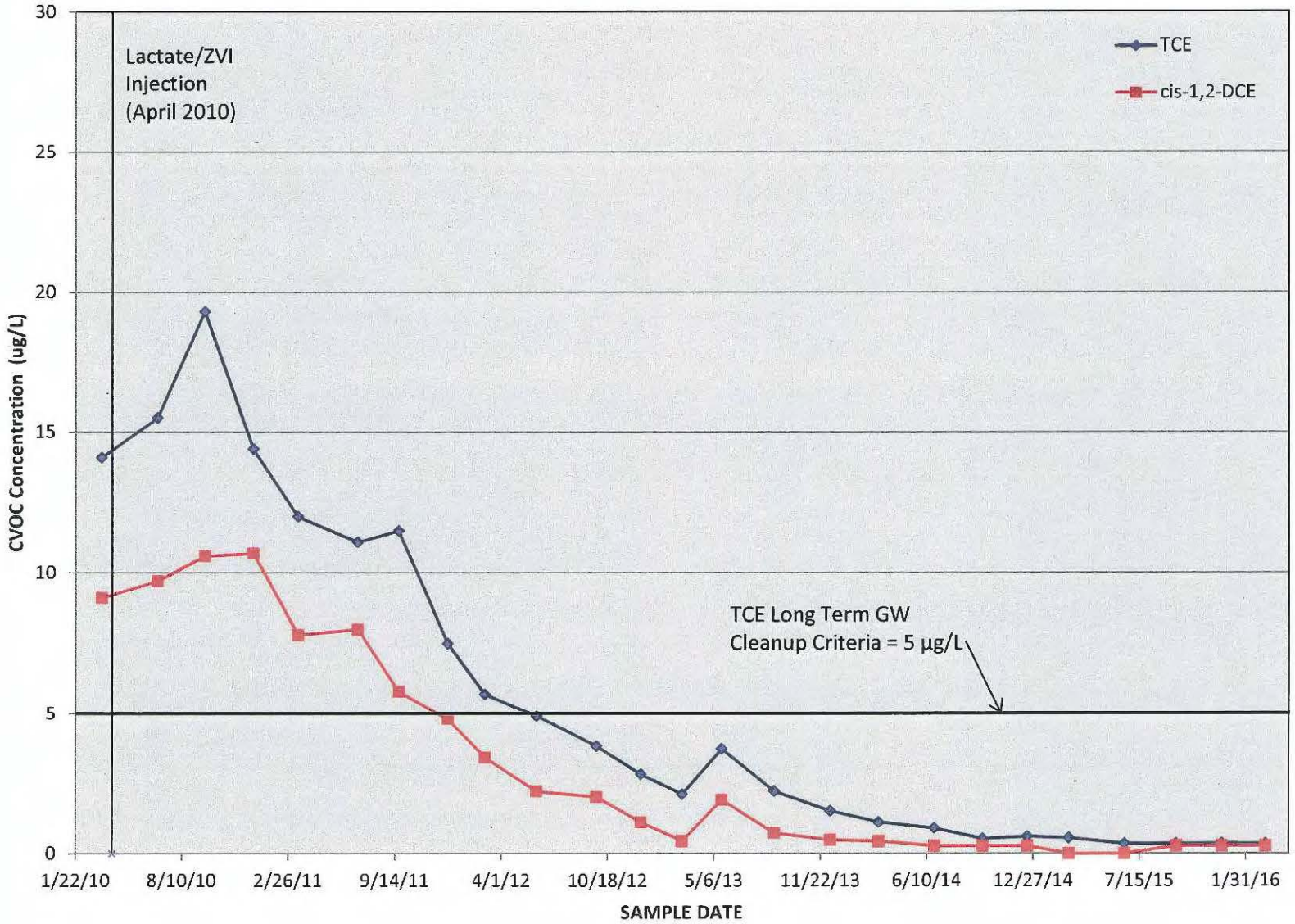


Figure 19
LTMW-08 CVOC Concentration Trend

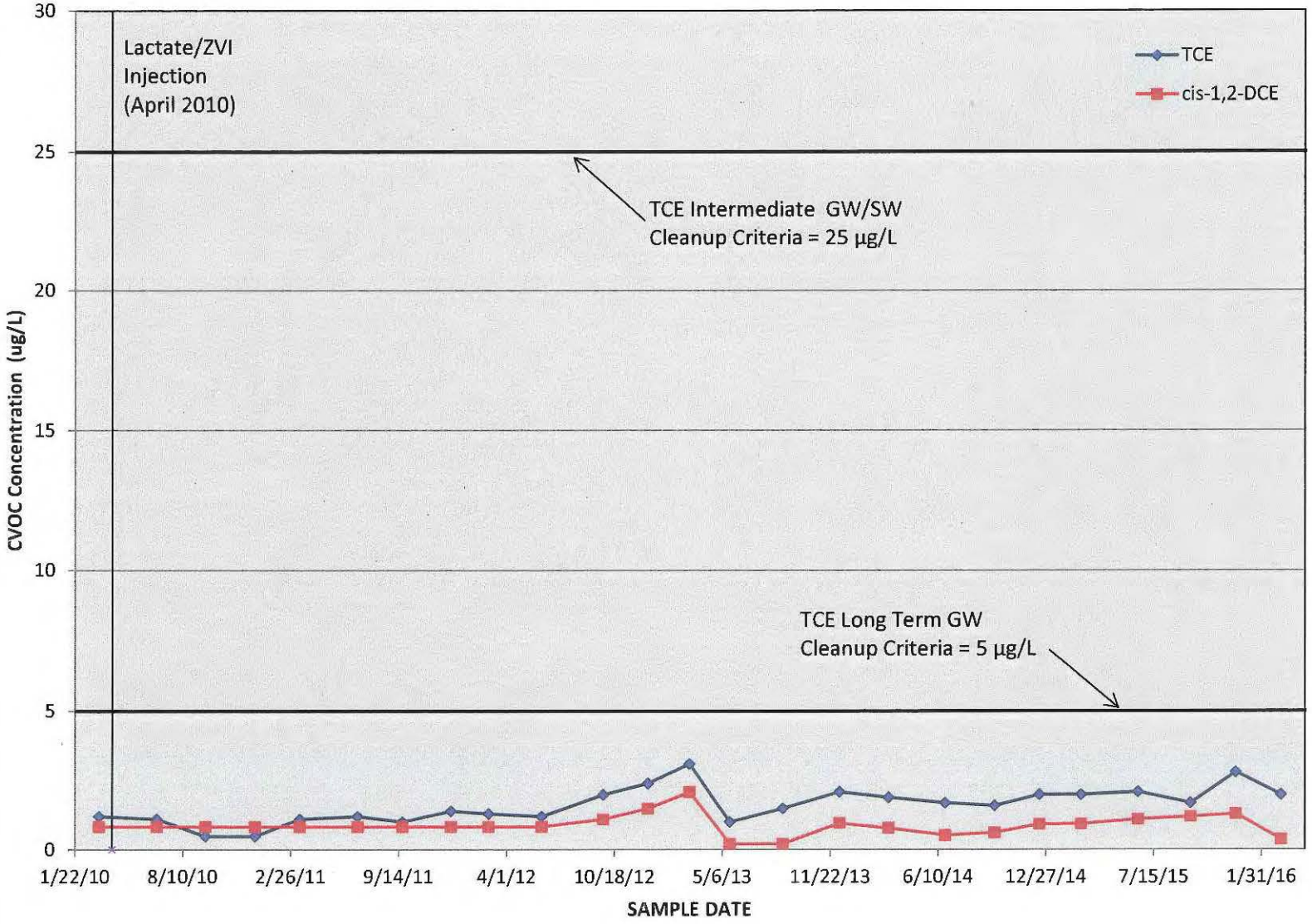


Figure 20
LTMW-09 CVOC Concentration Trend

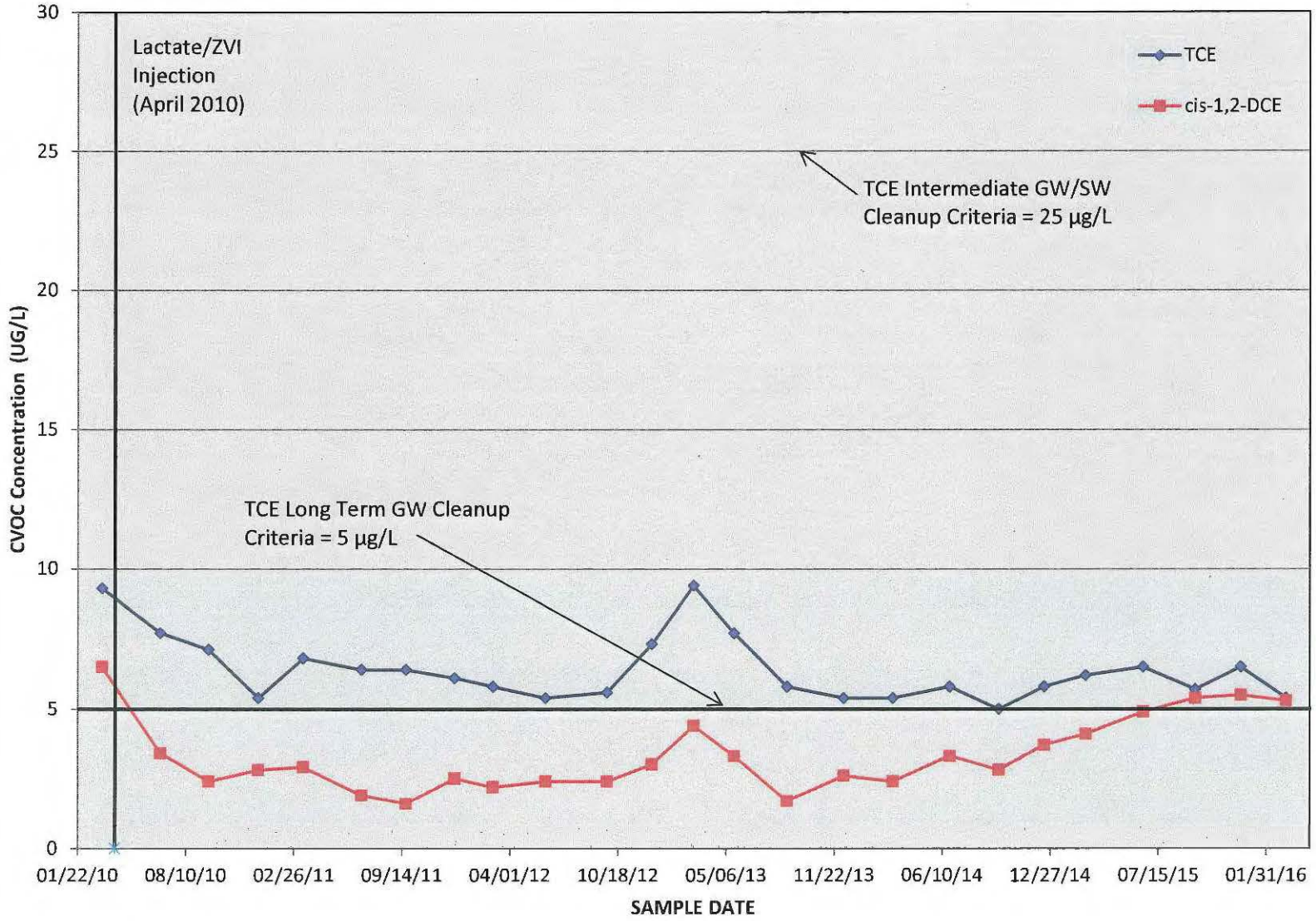


Figure 21
LTMW-10 CVOC Concentration Trend

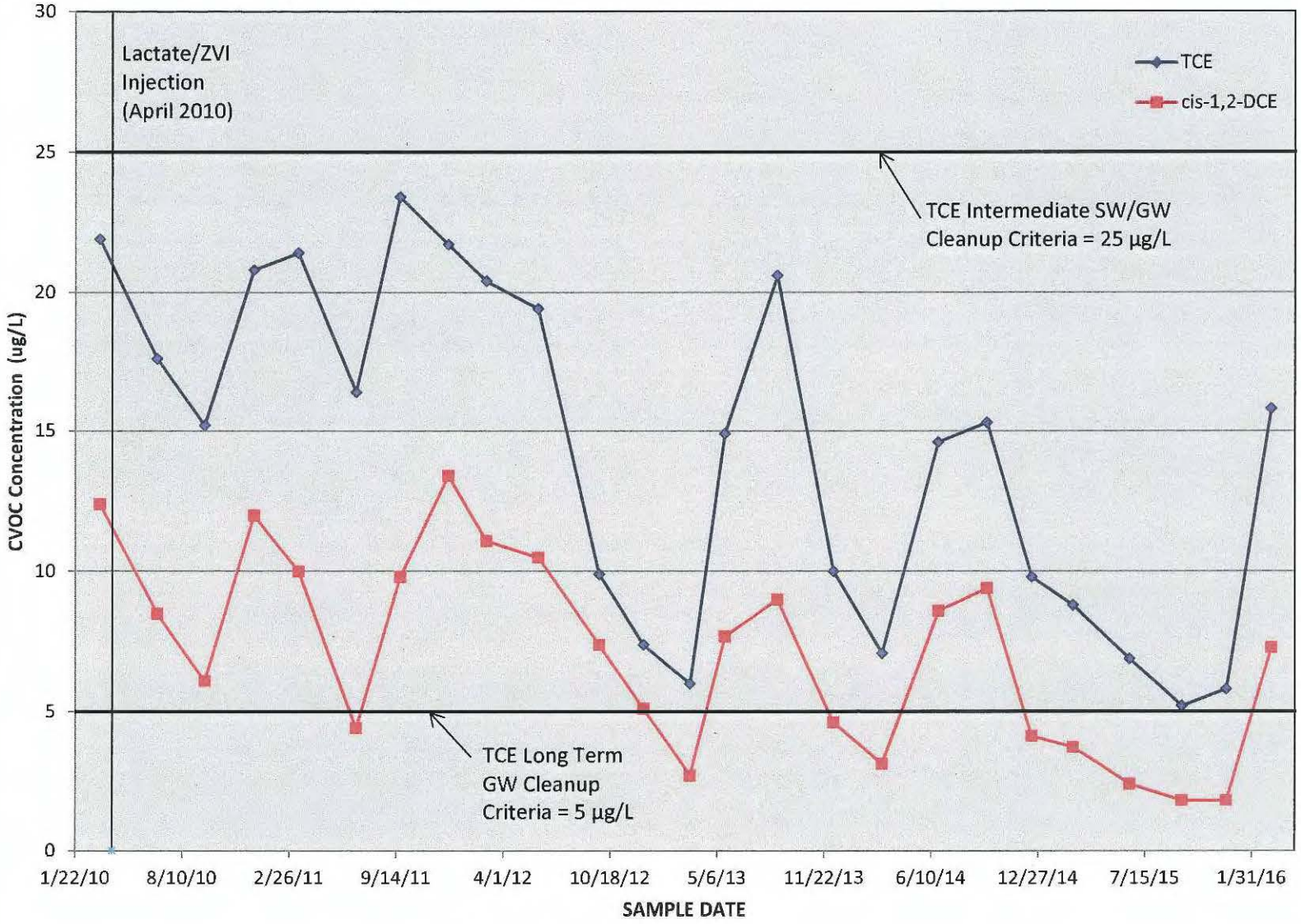
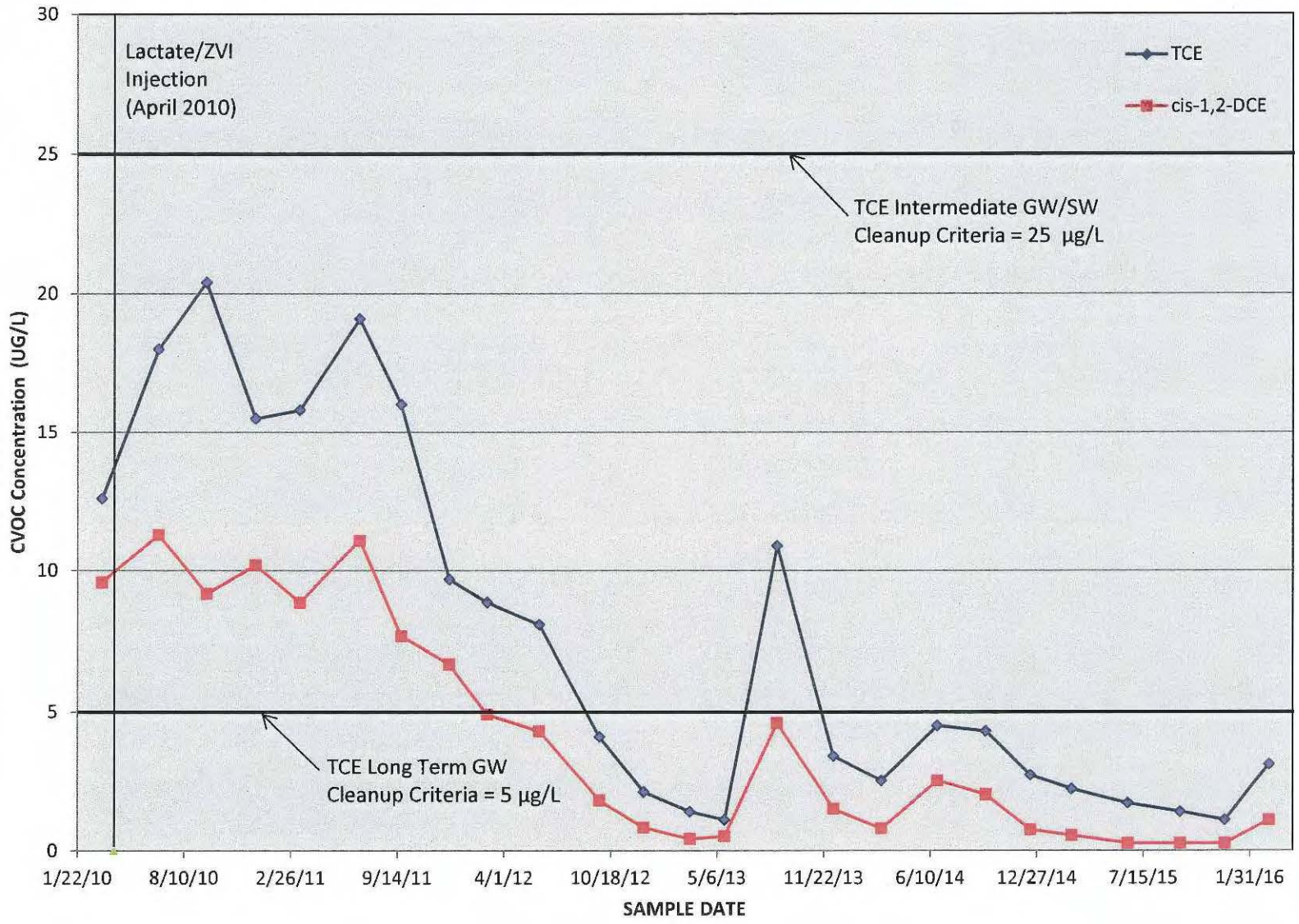


Figure 22
LTMW-11 CVOC Concentration Trend



ATTACHMENT 1

Attachment 1 - Laboratory Data Report

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

March 21, 2016

Jim Buss
AECOM, Inc. - MADISON
1350 Deming Way
Suite 100
Middleton, WI 53562

RE: Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Dear Jim Buss:
Enclosed are the analytical results for sample(s) received by the laboratory on March 11, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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SAMPLE SUMMARY

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40129303001	LTMW-08	Water	03/07/16 10:25	03/11/16 09:25
40129303002	LTMW-09	Water	03/07/16 12:00	03/11/16 09:25
40129303003	LTMW-10	Water	03/07/16 13:32	03/11/16 09:25
40129303004	LTMW-11	Water	03/07/16 15:30	03/11/16 09:25
40129303005	LTMW-04	Water	03/08/16 08:32	03/11/16 09:25
40129303006	LTMW-05	Water	03/08/16 10:11	03/11/16 09:25
40129303007	LTMW-06	Water	03/08/16 11:09	03/11/16 09:25
40129303008	LTMW-07	Water	03/08/16 12:48	03/11/16 09:25
40129303009	RB-1	Water	03/08/16 11:30	03/11/16 09:25
40129303010	LTMW-01	Water	03/08/16 14:16	03/11/16 09:25
40129303011	MW-106	Water	03/08/16 15:17	03/11/16 09:25
40129303012	MW-105	Water	03/08/16 16:35	03/11/16 09:25
40129303013	DUP-01	Water	03/08/16 00:00	03/11/16 09:25
40129303014	MW-101	Water	03/09/16 09:10	03/11/16 09:25
40129303015	MW-102	Water	03/09/16 10:20	03/11/16 09:25
40129303016	MW-103	Water	03/09/16 11:42	03/11/16 09:25
40129303017	MW-104	Water	03/09/16 12:57	03/11/16 09:25
40129303018	MW-107	Water	03/09/16 14:20	03/11/16 09:25
40129303019	LTMW-02	Water	03/09/16 15:19	03/11/16 09:25
40129303020	LTMW-03A	Water	03/10/16 08:11	03/11/16 09:25
40129303021	LTMW-03	Water	03/10/16 09:08	03/11/16 09:25
40129303022	DUP-02	Water	03/09/16 00:00	03/11/16 09:25
40129303023	TRIP BLANK	Water	03/07/16 00:00	03/11/16 09:25

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SAMPLE ANALYTE COUNT

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40129303001	LTMW-08	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303002	LTMW-09	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303003	LTMW-10	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303004	LTMW-11	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303005	LTMW-04	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303006	LTMW-05	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303007	LTMW-06	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303008	LTMW-07	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303009	RB-1	EPA 8260	LAP	14	PASI-G
40129303010	LTMW-01	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303011	MW-106	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303012	MW-105	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303013	DUP-01	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303014	MW-101	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303015	MW-102	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303016	MW-103	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303017	MW-104	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303018	MW-107	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303019	LTMW-02	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G

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SAMPLE ANALYTE COUNT

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40129303020	**LTMW-03A**	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303021	**LTMW-03**	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303022	**DUP-02**	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40129303023	**TRIP BLANK**	EPA 8260	LAP	14	PASI-G

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PROJECT NARRATIVE

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AECOM, Inc. - Middleton
Date: March 21, 2016

General Information:
21 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Method: **EPA 8260**
Description: 8260 MSV
Client: AECOM, Inc. - Middleton
Date: March 21, 2016

General Information:
23 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/32536

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40129303001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1306324)
  - Tetrachloroethene
- MSD (Lab ID: 1306325)
  - Tetrachloroethene

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: LTMW-08 **Lab ID: 40129303001** Collected: 03/07/16 10:25 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 15:18	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 09:35	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 09:35	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/15/16 09:35	75-34-3	
cis-1,2-Dichloroethene	**0.37J**	ug/L	1.0	0.26	1		03/15/16 09:35	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 09:35	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 09:35	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 09:35	127-18-4	M1
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 09:35	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/15/16 09:35	71-55-6	
Trichloroethene	**2.0**	ug/L	1.0	0.33	1		03/15/16 09:35	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/15/16 09:35	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/15/16 09:35	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		03/15/16 09:35	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		03/15/16 09:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: LTMW-09 **Lab ID: 40129303002** Collected: 03/07/16 12:00 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 15:29	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 08:19	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 08:19	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/15/16 08:19	75-34-3	
cis-1,2-Dichloroethene	**5.3**	ug/L	1.0	0.26	1		03/15/16 08:19	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 08:19	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 08:19	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 08:19	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 08:19	108-88-3	
1,1,1-Trichloroethane	**0.65J**	ug/L	1.0	0.50	1		03/15/16 08:19	71-55-6	
Trichloroethene	**5.4**	ug/L	1.0	0.33	1		03/15/16 08:19	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/15/16 08:19	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/15/16 08:19	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		03/15/16 08:19	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		03/15/16 08:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: LTMW-10 **Lab ID: 40129303003** Collected: 03/07/16 13:32 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**1.7J**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 15:31	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 08:41	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 08:41	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/15/16 08:41	75-34-3	
cis-1,2-Dichloroethene	**7.3**	ug/L	1.0	0.26	1		03/15/16 08:41	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 08:41	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 08:41	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 08:41	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 08:41	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/15/16 08:41	71-55-6	
Trichloroethene	**15.8**	ug/L	1.0	0.33	1		03/15/16 08:41	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/15/16 08:41	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/15/16 08:41	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		03/15/16 08:41	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		03/15/16 08:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: LTMW-11 **Lab ID: 40129303004** Collected: 03/07/16 15:30 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 15:34	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 09:02	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 09:02	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/15/16 09:02	75-34-3	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.26	1		03/15/16 09:02	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 09:02	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 09:02	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 09:02	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 09:02	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/15/16 09:02	71-55-6	
Trichloroethene	**3.1**	ug/L	1.0	0.33	1		03/15/16 09:02	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/15/16 09:02	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		03/15/16 09:02	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		03/15/16 09:02	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		03/15/16 09:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: LTMW-04 **Lab ID: 40129303005** Collected: 03/08/16 08:32 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 15:36	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 09:57	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 09:57	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/15/16 09:57	75-34-3	
cis-1,2-Dichloroethene	**5.6**	ug/L	1.0	0.26	1		03/15/16 09:57	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 09:57	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 09:57	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 09:57	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 09:57	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/15/16 09:57	71-55-6	
Trichloroethene	**11.5**	ug/L	1.0	0.33	1		03/15/16 09:57	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/15/16 09:57	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/15/16 09:57	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		03/15/16 09:57	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		03/15/16 09:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: LTMW-05 **Lab ID: 40129303006** Collected: 03/08/16 10:11 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 15:38	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 11:03	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 11:03	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/15/16 11:03	75-34-3	
cis-1,2-Dichloroethene	**3.3**	ug/L	1.0	0.26	1		03/15/16 11:03	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 11:03	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 11:03	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 11:03	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 11:03	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/15/16 11:03	71-55-6	
Trichloroethene	**8.6**	ug/L	1.0	0.33	1		03/15/16 11:03	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/15/16 11:03	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/15/16 11:03	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/15/16 11:03	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		03/15/16 11:03	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: LTMW-06 **Lab ID: 40129303007** Collected: 03/08/16 11:09 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**2.2J**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 15:41	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 11:25	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 11:25	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/15/16 11:25	75-34-3	
cis-1,2-Dichloroethene	**8.6**	ug/L	1.0	0.26	1		03/15/16 11:25	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 11:25	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 11:25	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 11:25	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 11:25	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/15/16 11:25	71-55-6	
Trichloroethene	**20.7**	ug/L	1.0	0.33	1		03/15/16 11:25	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/15/16 11:25	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/15/16 11:25	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		03/15/16 11:25	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		03/15/16 11:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: LTMW-07 **Lab ID: 40129303008** Collected: 03/08/16 12:48 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 15:43	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 11:46	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 11:46	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/15/16 11:46	75-34-3	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 11:46	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 11:46	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 11:46	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 11:46	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 11:46	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/15/16 11:46	71-55-6	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		03/15/16 11:46	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/15/16 11:46	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		03/15/16 11:46	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		03/15/16 11:46	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		03/15/16 11:46	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: RB-1 **Lab ID: 40129303009** Collected: 03/08/16 11:30 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 10:19	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 10:19	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/15/16 10:19	75-34-3	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 10:19	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 10:19	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 10:19	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 10:19	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 10:19	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/15/16 10:19	71-55-6	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		03/15/16 10:19	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/15/16 10:19	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/15/16 10:19	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		03/15/16 10:19	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		03/15/16 10:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: LTMW-01 **Lab ID: 40129303010** Collected: 03/08/16 14:16 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 15:45	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 12:08	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 12:08	75-71-8	
1,1-Dichloroethane	**0.92J**	ug/L	1.0	0.24	1		03/15/16 12:08	75-34-3	
cis-1,2-Dichloroethene	**3.6**	ug/L	1.0	0.26	1		03/15/16 12:08	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 12:08	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 12:08	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 12:08	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 12:08	108-88-3	
1,1,1-Trichloroethane	**8.5**	ug/L	1.0	0.50	1		03/15/16 12:08	71-55-6	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		03/15/16 12:08	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/15/16 12:08	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/15/16 12:08	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		03/15/16 12:08	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		03/15/16 12:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: MW-106 **Lab ID: 40129303011** Collected: 03/08/16 15:17 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 15:48	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 10:41	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 10:41	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/15/16 10:41	75-34-3	
cis-1,2-Dichloroethene	**8.0**	ug/L	1.0	0.26	1		03/15/16 10:41	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 10:41	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 10:41	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 10:41	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 10:41	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/15/16 10:41	71-55-6	
Trichloroethene	**1.4**	ug/L	1.0	0.33	1		03/15/16 10:41	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/15/16 10:41	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/15/16 10:41	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/15/16 10:41	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		03/15/16 10:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: MW-105 **Lab ID: 40129303012** Collected: 03/08/16 16:35 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**1.6J**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 15:55	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 12:30	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 12:30	75-71-8	
1,1-Dichloroethane	**0.70J**	ug/L	1.0	0.24	1		03/15/16 12:30	75-34-3	
cis-1,2-Dichloroethene	**5.4**	ug/L	1.0	0.26	1		03/15/16 12:30	156-59-2	
trans-1,2-Dichloroethene	**1.0**	ug/L	1.0	0.26	1		03/15/16 12:30	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 12:30	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 12:30	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 12:30	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/15/16 12:30	71-55-6	
Trichloroethene	**1.0J**	ug/L	1.0	0.33	1		03/15/16 12:30	79-01-6	
Vinyl chloride	**28.9**	ug/L	1.0	0.18	1		03/15/16 12:30	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/15/16 12:30	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		03/15/16 12:30	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		03/15/16 12:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: DUP-01 **Lab ID: 40129303013** Collected: 03/08/16 00:00 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 15:57	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 06:56	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/16/16 06:56	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/16/16 06:56	75-34-3	
cis-1,2-Dichloroethene	**3.3**	ug/L	1.0	0.26	1		03/16/16 06:56	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/16/16 06:56	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/16/16 06:56	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 06:56	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 06:56	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/16/16 06:56	71-55-6	
Trichloroethene	**7.2**	ug/L	1.0	0.33	1		03/16/16 06:56	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/16/16 06:56	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/16/16 06:56	460-00-4	
Dibromofluoromethane (S)	87	%	70-130		1		03/16/16 06:56	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		03/16/16 06:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: MW-101 **Lab ID: 40129303014** Collected: 03/09/16 09:10 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 15:59	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 07:18	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/16/16 07:18	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/16/16 07:18	75-34-3	
cis-1,2-Dichloroethene	**3.1**	ug/L	1.0	0.26	1		03/16/16 07:18	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/16/16 07:18	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/16/16 07:18	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 07:18	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 07:18	108-88-3	
1,1,1-Trichloroethane	**0.72J**	ug/L	1.0	0.50	1		03/16/16 07:18	71-55-6	
Trichloroethene	**26.9**	ug/L	1.0	0.33	1		03/16/16 07:18	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/16/16 07:18	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/16/16 07:18	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/16/16 07:18	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		03/16/16 07:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: MW-102 **Lab ID: 40129303015** Collected: 03/09/16 10:20 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 16:02	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 07:40	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/16/16 07:40	75-71-8	
1,1-Dichloroethane	**0.57J**	ug/L	1.0	0.24	1		03/16/16 07:40	75-34-3	
cis-1,2-Dichloroethene	**7.2**	ug/L	1.0	0.26	1		03/16/16 07:40	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/16/16 07:40	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/16/16 07:40	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 07:40	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 07:40	108-88-3	
1,1,1-Trichloroethane	**0.52J**	ug/L	1.0	0.50	1		03/16/16 07:40	71-55-6	
Trichloroethene	**51.9**	ug/L	1.0	0.33	1		03/16/16 07:40	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/16/16 07:40	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/16/16 07:40	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		03/16/16 07:40	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		03/16/16 07:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: MW-103 **Lab ID: 40129303016** Collected: 03/09/16 11:42 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 16:04	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 08:02	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/16/16 08:02	75-71-8	
1,1-Dichloroethane	**1.6**	ug/L	1.0	0.24	1		03/16/16 08:02	75-34-3	
cis-1,2-Dichloroethene	**22.7**	ug/L	1.0	0.26	1		03/16/16 08:02	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/16/16 08:02	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/16/16 08:02	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 08:02	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 08:02	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/16/16 08:02	71-55-6	
Trichloroethene	**73.9**	ug/L	1.0	0.33	1		03/16/16 08:02	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/16/16 08:02	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/16/16 08:02	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		03/16/16 08:02	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		03/16/16 08:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: MW-104 **Lab ID: 40129303017** Collected: 03/09/16 12:57 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 16:06	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 08:24	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/16/16 08:24	75-71-8	
1,1-Dichloroethane	**0.65J**	ug/L	1.0	0.24	1		03/16/16 08:24	75-34-3	
cis-1,2-Dichloroethene	**21.4**	ug/L	1.0	0.26	1		03/16/16 08:24	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/16/16 08:24	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/16/16 08:24	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 08:24	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/16/16 08:24	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/16/16 08:24	71-55-6	
Trichloroethene	**134**	ug/L	1.0	0.33	1		03/16/16 08:24	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/16/16 08:24	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/16/16 08:24	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		03/16/16 08:24	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		03/16/16 08:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: MW-107 **Lab ID: 40129303018** Collected: 03/09/16 14:20 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 16:09	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 12:52	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 12:52	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/15/16 12:52	75-34-3	
cis-1,2-Dichloroethene	**0.76J**	ug/L	1.0	0.26	1		03/15/16 12:52	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 12:52	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 12:52	75-09-2	
Tetrachloroethene	**0.52J**	ug/L	1.0	0.50	1		03/15/16 12:52	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 12:52	108-88-3	
1,1,1-Trichloroethane	**8.1**	ug/L	1.0	0.50	1		03/15/16 12:52	71-55-6	
Trichloroethene	**10.7**	ug/L	1.0	0.33	1		03/15/16 12:52	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/15/16 12:52	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/15/16 12:52	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/15/16 12:52	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		03/15/16 12:52	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: LTMW-02 **Lab ID: 40129303019** Collected: 03/09/16 15:19 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 16:11	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 13:14	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 13:14	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/15/16 13:14	75-34-3	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	0.26	1		03/15/16 13:14	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 13:14	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 13:14	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 13:14	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 13:14	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/15/16 13:14	71-55-6	
Trichloroethene	**2.4**	ug/L	1.0	0.33	1		03/15/16 13:14	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/15/16 13:14	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/15/16 13:14	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/15/16 13:14	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		03/15/16 13:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: LTMW-03A **Lab ID: 40129303020** Collected: 03/10/16 08:11 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 16:13	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 13:36	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/15/16 13:36	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/15/16 13:36	75-34-3	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	0.26	1		03/15/16 13:36	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/15/16 13:36	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/15/16 13:36	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 13:36	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/15/16 13:36	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/15/16 13:36	71-55-6	
Trichloroethene	**8.3**	ug/L	1.0	0.33	1		03/15/16 13:36	79-01-6	
Vinyl chloride	**6.4**	ug/L	1.0	0.18	1		03/15/16 13:36	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/15/16 13:36	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/15/16 13:36	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		03/15/16 13:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: LTMW-03 **Lab ID: 40129303021** Collected: 03/10/16 09:08 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/16/16 13:49	03/17/16 16:16	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/19/16 01:18	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/19/16 01:18	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/19/16 01:18	75-34-3	
cis-1,2-Dichloroethene	**4.6**	ug/L	1.0	0.26	1		03/19/16 01:18	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/19/16 01:18	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/19/16 01:18	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/19/16 01:18	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/19/16 01:18	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/19/16 01:18	71-55-6	
Trichloroethene	**18.2**	ug/L	1.0	0.33	1		03/19/16 01:18	79-01-6	
Vinyl chloride	**4.7**	ug/L	1.0	0.18	1		03/19/16 01:18	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/19/16 01:18	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		03/19/16 01:18	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		03/19/16 01:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: DUP-02 **Lab ID: 40129303022** Collected: 03/09/16 00:00 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.5**	ug/L	10.0	1.5	1	03/17/16 08:52	03/17/16 18:52	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/19/16 01:40	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/19/16 01:40	75-71-8	
1,1-Dichloroethane	**0.73J**	ug/L	1.0	0.24	1		03/19/16 01:40	75-34-3	
cis-1,2-Dichloroethene	**7.2**	ug/L	1.0	0.26	1		03/19/16 01:40	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/19/16 01:40	156-60-5	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/19/16 01:40	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/19/16 01:40	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/19/16 01:40	108-88-3	
1,1,1-Trichloroethane	**1.2**	ug/L	1.0	0.50	1		03/19/16 01:40	71-55-6	
Trichloroethene	**52.7**	ug/L	1.0	0.33	1		03/19/16 01:40	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/16 01:40	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/19/16 01:40	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		03/19/16 01:40	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/19/16 01:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Sample: TRIP BLANK **Lab ID: 40129303023** Collected: 03/07/16 00:00 Received: 03/11/16 09:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/19/16 00:55	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/19/16 00:55	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/19/16 00:55	75-34-3	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/19/16 00:55	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/19/16 00:55	156-60-5	
Methylene Chloride	**0.51J**	ug/L	1.0	0.23	1		03/19/16 00:55	75-09-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/19/16 00:55	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/19/16 00:55	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/19/16 00:55	71-55-6	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		03/19/16 00:55	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/16 00:55	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/19/16 00:55	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		03/19/16 00:55	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		03/19/16 00:55	2037-26-5	

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QUALITY CONTROL DATA

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

QC Batch: MPRP/13470 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 40129303001, 40129303002, 40129303003, 40129303004, 40129303005, 40129303006, 40129303007, 40129303008, 40129303010, 40129303011, 40129303012, 40129303013, 40129303014, 40129303015, 40129303016, 40129303017, 40129303018, 40129303019, 40129303020, 40129303021

METHOD BLANK: 1307329 Matrix: Water
Associated Lab Samples: 40129303001, 40129303002, 40129303003, 40129303004, 40129303005, 40129303006, 40129303007, 40129303008, 40129303010, 40129303011, 40129303012, 40129303013, 40129303014, 40129303015, 40129303016, 40129303017, 40129303018, 40129303019, 40129303020, 40129303021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chromium	ug/L	<1.5	10.0	1.5	03/17/16 15:13	

LABORATORY CONTROL SAMPLE: 1307330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	500	486	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1307331 1307332

Parameter	Units	40129303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	<1.5	500	500	499	512	100	102	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

QC Batch: MPRP/13473 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 40129303022

METHOD BLANK: 1307592 | Matrix: Water
Associated Lab Samples: 40129303022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chromium	ug/L	<1.5	10.0	1.5	03/17/16 18:36	

LABORATORY CONTROL SAMPLE: 1307593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	500	505	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1307594 1307595

Parameter	Units	40129391001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	<10.0	500	500	505	506	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

QC Batch: MSV/32532 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40129303021, 40129303022, 40129303023

METHOD BLANK: 1305913 Matrix: Water
Associated Lab Samples: 40129303021, 40129303022, 40129303023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	0.50	03/18/16 17:03	
1,1-Dichloroethane	ug/L	<0.24	1.0	0.24	03/18/16 17:03	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	0.50	03/18/16 17:03	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	0.26	03/18/16 17:03	
Dichlorodifluoromethane	ug/L	<0.22	1.0	0.22	03/18/16 17:03	
Methylene Chloride	ug/L	<0.23	1.0	0.23	03/18/16 17:03	
Tetrachloroethene	ug/L	<0.50	1.0	0.50	03/18/16 17:03	
Toluene	ug/L	<0.50	1.0	0.50	03/18/16 17:03	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	0.26	03/18/16 17:03	
Trichloroethene	ug/L	<0.33	1.0	0.33	03/18/16 17:03	
Vinyl chloride	ug/L	<0.18	1.0	0.18	03/18/16 17:03	
4-Bromofluorobenzene (S)	%	94	70-130		03/18/16 17:03	
Dibromofluoromethane (S)	%	97	70-130		03/18/16 17:03	
Toluene-d8 (S)	%	99	70-130		03/18/16 17:03	

LABORATORY CONTROL SAMPLE: 1305914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	56.1	112	70-130	
1,1-Dichloroethane	ug/L	50	53.8	108	70-130	
1,4-Dichlorobenzene	ug/L	50	57.2	114	70-130	
cis-1,2-Dichloroethene	ug/L	50	48.2	96	70-130	
Dichlorodifluoromethane	ug/L	50	35.7	71	33-157	
Methylene Chloride	ug/L	50	54.1	108	70-130	
Tetrachloroethene	ug/L	50	63.0	126	70-130	
Toluene	ug/L	50	58.5	117	70-130	
trans-1,2-Dichloroethene	ug/L	50	55.7	111	70-130	
Trichloroethene	ug/L	50	57.0	114	70-130	
Vinyl chloride	ug/L	50	44.8	90	65-142	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1306289 1306290

Parameter	Units	40129256001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	55.2	53.7	110	107	70-130	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1306289 1306290

Parameter	Units	40129256001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/L	<0.24	50	50	52.8	50.9	106	102	70-134	3	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	55.6	56.3	110	112	70-130	1	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	46.3	49.6	93	99	70-130	7	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	35.5	34.1	71	68	29-160	4	20	
Methylene Chloride	ug/L	<0.23	50	50	53.2	51.1	106	102	70-130	4	20	
Tetrachloroethene	ug/L	<0.50	50	50	62.4	62.1	125	124	70-130	0	20	
Toluene	ug/L	<0.50	50	50	58.1	57.4	116	114	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	54.2	52.8	108	106	70-132	3	20	
Trichloroethene	ug/L	<0.33	50	50	56.7	55.0	113	110	70-130	3	20	
Vinyl chloride	ug/L	<0.18	50	50	44.5	43.0	89	86	60-155	3	20	
4-Bromofluorobenzene (S)	%						101	100	70-130			
Dibromofluoromethane (S)	%						101	100	70-130			
Toluene-d8 (S)	%						100	101	70-130			

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QUALITY CONTROL DATA

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

QC Batch: MSV/32536 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40129303001, 40129303002, 40129303003, 40129303004, 40129303005, 40129303006, 40129303007, 40129303008, 40129303009, 40129303010, 40129303011, 40129303012, 40129303013, 40129303014, 40129303015, 40129303016, 40129303017, 40129303018, 40129303019, 40129303020

METHOD BLANK: 1305927 Matrix: Water
Associated Lab Samples: 40129303001, 40129303002, 40129303003, 40129303004, 40129303005, 40129303006, 40129303007, 40129303008, 40129303009, 40129303010, 40129303011, 40129303012, 40129303013, 40129303014, 40129303015, 40129303016, 40129303017, 40129303018, 40129303019, 40129303020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	0.50	03/15/16 06:29	
1,1-Dichloroethane	ug/L	<0.24	1.0	0.24	03/15/16 06:29	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	0.50	03/15/16 06:29	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	0.26	03/15/16 06:29	
Dichlorodifluoromethane	ug/L	<0.22	1.0	0.22	03/15/16 06:29	
Methylene Chloride	ug/L	<0.23	1.0	0.23	03/15/16 06:29	
Tetrachloroethene	ug/L	<0.50	1.0	0.50	03/15/16 06:29	
Toluene	ug/L	<0.50	1.0	0.50	03/15/16 06:29	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	0.26	03/15/16 06:29	
Trichloroethene	ug/L	<0.33	1.0	0.33	03/15/16 06:29	
Vinyl chloride	ug/L	<0.18	1.0	0.18	03/15/16 06:29	
4-Bromofluorobenzene (S)	%	96	70-130		03/15/16 06:29	
Dibromofluoromethane (S)	%	92	70-130		03/15/16 06:29	
Toluene-d8 (S)	%	102	70-130		03/15/16 06:29	

LABORATORY CONTROL SAMPLE: 1305928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.9	100	70-130	
1,1-Dichloroethane	ug/L	50	44.8	90	70-130	
1,4-Dichlorobenzene	ug/L	50	51.3	103	70-130	
cis-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
Dichlorodifluoromethane	ug/L	50	29.7	59	33-157	
Methylene Chloride	ug/L	50	48.1	96	70-130	
Tetrachloroethene	ug/L	50	58.6	117	70-130	
Toluene	ug/L	50	56.3	113	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.6	97	70-130	
Trichloroethene	ug/L	50	56.2	112	70-130	
Vinyl chloride	ug/L	50	39.8	80	65-142	
4-Bromofluorobenzene (S)	%			108	70-130	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			103	70-130	

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QUALITY CONTROL DATA

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1306324 1306325

Parameter	Units	40129303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	59.7	58.1	119	116	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	49.5	47.6	99	95	70-134	4	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	56.9	56.1	114	112	70-130	1	20	
cis-1,2-Dichloroethene	ug/L	0.37J	50	50	53.2	53.1	106	106	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	33.1	34.9	66	70	29-160	5	20	
Methylene Chloride	ug/L	<0.23	50	50	53.4	52.5	107	105	70-130	2	20	
Tetrachloroethene	ug/L	<0.50	50	50	67.1	68.6	134	137	70-130	2	20	M1
Toluene	ug/L	<0.50	50	50	62.1	61.3	124	123	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	57.8	55.6	116	111	70-132	4	20	
Trichloroethene	ug/L	2.0	50	50	64.5	64.7	125	125	70-130	0	20	
Vinyl chloride	ug/L	<0.18	50	50	46.0	47.7	92	95	60-155	4	20	
4-Bromofluorobenzene (S)	%						106	108	70-130			
Dibromofluoromethane (S)	%						100	99	70-130			
Toluene-d8 (S)	%						104	104	70-130			

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QUALIFIERS

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60343108-1 DANA ROSCOE CORP
Pace Project No.: 40129303

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40129303001	LTMW-08	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303002	LTMW-09	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303003	LTMW-10	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303004	LTMW-11	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303005	LTMW-04	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303006	LTMW-05	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303007	LTMW-06	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303008	LTMW-07	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303010	LTMW-01	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303011	MW-106	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303012	MW-105	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303013	DUP-01	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303014	MW-101	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303015	MW-102	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303016	MW-103	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303017	MW-104	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303018	MW-107	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303019	LTMW-02	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303020	LTMW-03A	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303021	LTMW-03	EPA 3010	MPRP/13470	EPA 6010	ICP/11952
40129303022	DUP-02	EPA 3010	MPRP/13473	EPA 6010	ICP/11954
40129303001	LTMW-08	EPA 8260	MSV/32536		
40129303002	LTMW-09	EPA 8260	MSV/32536		
40129303003	LTMW-10	EPA 8260	MSV/32536		
40129303004	LTMW-11	EPA 8260	MSV/32536		
40129303005	LTMW-04	EPA 8260	MSV/32536		
40129303006	LTMW-05	EPA 8260	MSV/32536		
40129303007	LTMW-06	EPA 8260	MSV/32536		
40129303008	LTMW-07	EPA 8260	MSV/32536		
40129303009	RB-1	EPA 8260	MSV/32536		
40129303010	LTMW-01	EPA 8260	MSV/32536		
40129303011	MW-106	EPA 8260	MSV/32536		
40129303012	MW-105	EPA 8260	MSV/32536		
40129303013	DUP-01	EPA 8260	MSV/32536		
40129303014	MW-101	EPA 8260	MSV/32536		
40129303015	MW-102	EPA 8260	MSV/32536		
40129303016	MW-103	EPA 8260	MSV/32536		
40129303017	MW-104	EPA 8260	MSV/32536		
40129303018	MW-107	EPA 8260	MSV/32536		
40129303019	LTMW-02	EPA 8260	MSV/32536		
40129303020	LTMW-03A	EPA 8260	MSV/32536		
40129303021	LTMW-03	EPA 8260	MSV/32532		
40129303022	DUP-02	EPA 8260	MSV/32532		
40129303023	TRIP BLANK	EPA 8260	MSV/32532		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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MM

40129303

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name:	AECOM
Branch/Location:	Middleton WI
Project Contact:	Jim Buss
Phone:	608-828-8210
Project Number:	60343108-1
Project Name:	Dana Roscoe Corp
Project State:	IL
Sampled By (Print):	Allan Hollatz
Sampled By (Sign):	Allan Hollatz
PO #:	—
Regulatory Program:	

Quote #:	—
Mail To Contact:	Jim Buss
Mail To Company:	AECOM
Mail To Address:	1350 Deming Way Suite 100 Middleton WI 53062
Invoice To Contact:	Same
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

FILTERED? (YES/NO) — Y/N: N, N
PRESERVATION (CODE)* — Pick Letter: B, D

Data Package Options (billable): ☐ EPA Level III ☐ EPA Level IV

MS/MSD: ☐ On your sample (billable) ☐ NOT needed on your sample

Matrix Codes: A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

Analyses Requested: VOC 8260 (List), Total Chromium

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	VOC 8260 (List)	Total Chromium	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	LTMW-08	3-7-16	1025	GW	X	X	3-40mLv B	~~1~~ 3-250mLp D KL 3/11/16	
002	LTMW-09		1200		X	X			
003	LTMW-10		1332		X	X			
004	LTMW-11		1530		X	X			
005	LTMW-04	3-8-16	0832		X	X			
006	LTMW-05		1011		X	X			
007	LTMW-06		1109		X	X			
008	LTMW-07		1248		X	X			
009	RB-1		1130		X			KL 3/11/16	
010	LTMW-01		1416		X	X			
011	MW-106		1517		X	X			
012	MW-105		1635		X	X			
013	DUP-01		0000		X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Allan Hollatz	3-10-16 1310	Kathe Wendel	3/10/16 1310
Kathe Wendel	3/10/16 1700	CS Logistics	3/10/16
CS Logistics	3/11/16 0925	Zatie Schramm Pace	3/11/16 0925

PACE Project No. 40129303

Receipt Temp = 0 °C

Sample Receipt pH: OK / Adjusted

Cooler Custody Seal: Present / Not Present; Intact / Not Intact

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

40129303

(Please Print Clearly)	
Company Name:	AECOM
Branch/Location:	Middleton WI
Project Contact:	Jim Buss
Phone:	608-828-8210
Project Number:	60343108-1
Project Name:	Dana Roscoe Corp
Project State:	IL
Sampled By (Print):	Allan Hollatz
Sampled By (Sign):	Allan Hollatz
PO #:	—
Regulatory Program:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	—
Mail To Contact:	Jim Buss
Mail To Company:	AECOM
Mail To Address:	1350 Deming Way Suite 100 Middleton, WI 53062
Invoice To Contact:	Same
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

FILTERED? (YES/NO)
PRESERVATION (CODE)*

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Y/N	Pick Letter	Analyses Requested: Voc 8260 (List)	Analyses Requested: Total Chromium	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
							N	N			
							B	D			
014	MW-101	3-9-16	0910	GW			X	X	3-40mLvB	1-250mLpD	
015	MW-102	↓	1020	↓			X	X	↓	↓	
016	MW-103	↓	1142	↓			X	X	↓	↓	
017	MW-104	↓	1257	↓			X	X	↓	↓	
018	MW-107	↓	1420	↓			X	X	↓	↓	
019	~~LTMW-03A~~ LTMW-02	↓	1519	↓			X	X	↓	↓	
020	LTMW-03A	3-10-16	0811	↓			X	X	↓	↓	
021	LTMW-03	3-10-16	0908	↓			X	X	↓	↓	
022	DUP-02	3-9-16	0000	↓			X	X	↓	↓	
023	Trip Blank	3-7-16	—	↓			X		2-40mLvB		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	3-10-16 1310	Kathy Wendel	3/10/16 1310
Kathy Wendel	3/10/16 1700	CS Logistics	3/10/16
CS Logistics	3/11/16 0925	Katie Schramm Pace	3/11/16 0925

PACE Project No. 40129303

Receipt Temp = 0 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project # **WO# : 40129303**

40129303

Client Name: AECOM

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace ☑ Other: CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR-56 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0 /Corr: 0 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☑ yes ☐ no

Person examining contents:
Date: 3/11/16
Initials: [illegible]

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☑Yes	☐No	~~☐N/A~~	13. ☑ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☑Yes	☐No	~~☐N/A~~	RJ 3/11/16
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	14.
Trip Blank Present:	☑Yes	☐No	☐N/A	15.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution: D17 - Client crossed off + rewrote on 1 vial. mm 3/11/16

Project Manager Review: [signature] **Date:** 3-11-16