May 14, 2020 Project Reference #12884

Mr. Adam McIlheran
Remediation and Redevelopment Program
Wisconsin Dept. of Natural Resources
2300 N. Martin Luther King Jr. Drive
Milwaukee, WI 53212

RE: Site Investigation Report Addendum
2730 S. 19th Street, Milwaukee, Wisconsin
BRRTS #02-41-183640 and #03-41-540712

Dear Mr. McIlheran:

The Sigma Group, Inc. (Sigma) on behalf of ACME Galvanizing, Inc. has prepared this letter report to provide supplemental information and document the additional site investigation activities completed to address questions and comments received from the Wisconsin Department of Natural Resources (WDNR) in their response to the October 14, 2019 site investigation report (SIR) addendum.

The WDNR provided feedback of their review of the site investigation report addendum via email correspondence on December 13, 2019. The WDNR questions and comments and our responses based on supplemental data and information follow:

Degree & Extent

A1: Vapor Pathway

- *The DNR concurs that an additional indoor air sampling event for winter months should be done. Details regarding sampling are included in our RAP additional data request.*

  As proposed in the October 2019 SIR addendum, a second round of indoor air samples was collected from within the ACME Galvanizing facility on January 15, 2020 for laboratory analysis of trichloroethene (TCE) by EPA method TO-15. The indoor air sampling density was expanded from the original four sampling locations to include four additional sampling locations (eight in total). The sampling locations were selected to include areas near suspected historic source areas as well as enclosed indoor spaces that are frequently used by facility personnel and may have limited ventilation. An ambient outdoor air sample was also collected to evaluate potential TCE impacts originating upwind of the site. The sampling locations are depicted on **Figure 1**, and a brief description of each sample location follows:

  - IAS-2-1: Main office area.
  - IAS-2-2: Wastewater treatment office.
  - IAS-2-3: Employee break/lunchroom. Located near a historic vapor degreaser.
  - IAS-2-4: Employee restroom. Sample located adjacent to the open doorway into the employee locker room.
  - IAS-2-5: Central storage area within the plating process work area.
  - IAS-2-6: Laboratory area.

- IAS-2-7: Barrel plating area. Located near a historic vapor degreaser.
- IAS-2-8: Maintenance shop and office area.
- IAS-2-9: Ambient outdoor air sample collected at the eastern property boundary. Wind was out of the east on 1/15/2020.

The indoor air samples were collected using six-liter Summa cannisters with flow controllers set to collect a sample over an eight-hour period, following the recommended approach in the WDNR vapor intrusion guidance document (*RR-800 Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin, dated January 2018*). At each location, the cannister was placed at the typical breathing height (approximately four to five feet above ground surface) and left undisturbed for the duration of sample collection. Following collection, the canisters were submitted to the project laboratory for analysis of TCE using EPA method TO-15

The analytical results indicate that low-level TCE was detected within each of the indoor air samples submitted for laboratory analysis, however no concentrations exceeding the Vapor Action Limit (VAL) for TCE were reported. The ambient outdoor air sample collected upwind of the ACME facility was not found to contain TCE at a concentration greater than the laboratory limit of detection. The analytical results of the January 2020 indoor air sampling event are summarized in **Table 1**, along with the results from the July 2019 sampling event. The laboratory analytical report is included as **Appendix A**.

Based on two rounds of indoor air sampling completed to date, no VAL exceedances for TCE have been detected. However, for repeat sample locations (main office area, wastewater treatment office, employee break/lunchroom, and barrel plating area), the concentrations of TCE detected in the most recent indoor air samples were greater than those detected in the July 2019 samples. This suggests that reduced ventilation during winter months likely results in increased TCE indoor air impacts. While no concentrations of TCE that exceed its VAL were detected, the concentration detected within sample IAS-2-3 collected within the employee break/ lunchroom and near the former degreaser area approached the VAL.

Given the increase in indoor air concentrations a sub-slab venting system is proposed for installation at the facility. Details regarding the system installation, operation, and proposed monitoring are presented in the Remedial Action Plan (RAP) addendum dated May 13, 2020.

A2: Soil Pathway

- *SIR states entire fill area remain capped as remedy for closure. Clarify what area or areas are proposed for capping, which COCs the cap would apply to, and whether the cap would be for direct contact and/or infiltration, if applicable.*

  Most of the ACME property is covered with the facility building and paved parking areas with the exception of a narrow strip at the southeast property boundary. An area approximately 450 feet long and 50 feet wide is currently bare ground and is used for temporary storage of goods and used parts or machinery. Soil in this area is assumed to contain fill-related PAHs which potentially pose a direct contact risk. To minimize/ prevent a direct contact risk Sigma proposes to cap the area with asphalt. Attached **Figure 2** depicts the proposed area of the cap. The construction of the cap will be documented and included in the remedial action completion.

A3: Groundwater Pathway

- *There is no deep downgradient well present to delineate impacts above Enforcement Standards in PZ-5 or to determine if impacts are beyond the park property. Determine the extent of impacts in this direction from the source areas, such as by installing downgradient well(s). It is not impracticable to install additional wells downgradient.*

  As requested, to further evaluate groundwater quality within Pulaski Park east of PZ-5 a monitoring well nest including piezometer PZ-6 and monitoring well MW-23, were installed. The well nest was positioned within the far eastern portion of Pulaski Park directly downgradient from piezometer PZ-5 and the most highly impacted wells on the ACME Parcel (**Figure 3**). In addition, as part of the activities, groundwater samples were collected from select monitoring wells and piezometers, and groundwater elevations were measured. Details regarding the additional groundwater assessment activities follows:

  Well and Piezometer Installation
  The supplemental monitoring well and piezometer were installed on January 29, 2020 by first advancing a Geoprobe soil boring at the location of the piezometer PZ-6 to facilitate continuous soil sample collection and verify screen interval elevation placement. Following completion of the soil sampling activities , hollow-stem augers were advanced to a depth of 48-feet bgs and piezometer PZ-6 was constructed with a five-foot section of 2-inch PVC well screen placed from 43- to 48-feet bgs and 2-inch PVC riser pipe from 43-feet bgs to the ground surface. Monitoring well MW-23 was blind drilled and constructed in a similar manner to PZ-6 with 2-inch PVC well screen placed from 20- to 35-feet bgs and riser pipe to the surface. The wellheads of both MW-23 and PZ-6 were completed with protective steel flush-grade covers. Following completion, the ground surface and top of casing locations and elevations were surveyed to mean sea level (MSL). The soil boring logs are presented in **Appendix B** and details regarding the piezometer and monitoring well construction are provided on the forms included in **Appendix C.**

  Piezometer and Well Development and Sampling
  On January 30, 2020, piezometer PZ-6 was developed in accordance with ch. NR 141 while monitoring well MW-23 was observed to be dry. Once recovered, monitoring well MW-23 was developed on February 19, 2020. The slow rate of recovery after installation is attributed to the tight clay soils observed within the screen interval of MW-23. The monitoring well development forms are included as **Appendix D.**

  On January 31, 2020 and February 20, 2020 an initial and second round of groundwater samples were collected from off-site monitoring wells MW-21, MW-22, MW-23 (February 20 once recovered) and piezometers PZ-5 and PZ-6. The groundwater samples collected in the initial and subsequent round from monitoring wells MW-21 and MW-22 and piezometers PZ-5, and PZ-6 were submitted for laboratory analysis of VOCs.

  Between April 9 and 13, 2020 a third round of groundwater samples were collected from an expanded well network including the newly installed off-site monitoring wells and piezometer and select on and off-site wells and piezometers: MW-6, MW-7, MW12,

MW-16, MW-18, MW-21, and MW-22, and piezometers PZ-4, PZ-5, and PZ-6. Each of the groundwater samples were submitted for laboratory analysis of VOCs.

In addition, natural attenuation and in-situ parameters including dissolved oxygen and redox potential were measured at each of the monitoring wells and piezometers, including those where groundwater samples for laboratory analysis were not collected. To evaluate biodegradation processes at monitoring well MW-21 and piezometer PZ-5 samples for dissolved gases (methane, ethane and ethene) were collected and submitted for laboratory analysis.

Water Elevation Measurements

On April 30, 2020, groundwater levels were measured within each of the project monitoring wells and piezometers. In addition, the water level within the Kinnickinnic River directly east of the ACME Galvanizing property was surveyed. The water elevation data is summarized in **Table 2**.

ASSESSMENT RESULTS

Geology

Review of the soil boring log for piezometer PZ-6 identified a zone of coarse sand and gravel fill material to approximately six feet bgs underlain by a clay rich unit (within which MW-23 is screened) present from approximately six to 39.5-feet bgs. A unit composed primarily of sand sized material approximately 10-ft thick was encountered below to the clay rich unit followed by stiff clay-rich material observed at an approximate depth of 49.5-ft.

To better understand the geology of the off-site area Sigma obtained publicly available geotechnical soil boring information and near surface interceptor sewer construction information from the Milwaukee Metropolitan Sewerage District (MMSD). In addition, geotechnical soil borings completed at the nearby Cleveland Avenue bridge over the Kinnickinnic River (northeast of the ACME property) and soil borings completed at the railroad crossing over the Kinnickinnic River immediate southeast of the ACME property were reviewed. The stratigraphy observed on the eastern side of the Cleveland Avenue bridge consists of interbedded units of silty clays and sand rich silty clays with a sand dominated zone at approximately 26-ft bgs. Underlying the sand zone, stiff clay-rich materials were observed up to a depth of approximately 60 ft-bgs (approximately 572 ft MSL) (maximum depth of the soil borings). Both the sand zone and stiff clay below observed at these soil borings correlates well with substrate materials observed at piezometer PZ-6 discussed above. This correlation is also evident at the soil borings completed near the railroad crossing southeast of the ACME property. The stratigraphy observed in these soil borings consisted of interbedded sands, silty and clay dominated zones at similar elevations.

Review of the MMSD-related near-surface interceptor sewer construction information indicates the presence of bedrock at approximately 80 ft-bgs (559 ft MSL). It is important to note that the historical borings completed at the railroad bridge also identified bedrock at an elevation of approximately 555 to 559 ft MSL. The geotechnical soil boring logs and MMSD sewer information for the near surface interceptor are presented in **Appendix E.** A west to east geologic cross section B-B'

(cross-section line depicted on **Figure 4**) developed using the geotechnical soil boring and the MMSD sewer information is presented as **Figure 5.**

Hydrogeology

Groundwater flow beneath the ACME Galvanizing and Pulaski Park properties is best described with three separate flow regimes which include: 1) shallow perched groundwater zones east and west of the river within the sandy fill and low permeability clay rich units (where present) where flow likely follows topography, 2) the groundwater table unit, present within the interbedded sandy silts and clay zones at depths ranging from 20 to 30 feet bgs (605 to 627 MSL) which discharges locally to the Kinnickinnic River; and 3) the saturated interbedded sandy-rich and the deeper tight clay unit identified at depths of approximately 39.25 to 48.5 ft bgs which flows to the east toward Lake Michigan independent of the overlying Kinnickinnic River (**Figure 6**).

Details regarding the flow characteristics of the three groundwater flow regimes are presented as follows:

Perched Groundwater

The shallow perched groundwater zone observed on the ACME Galvanizing property is noted within the west and southwest portion of the property where the clay rich soils were observed at monitoring wells MW-10, MW-1A, MW-2A, MW-3A, MW-4A, and MW-5A. This perched groundwater has been measured at depths ranging from approximately 4.5 to 10 feet bgs. While the monitoring wells installed east of the river (MW-21, MW-22, and MW-23 within Pulaski Park) are not screened across the upper most portion of this shallow zone it is anticipated that similar to the west side of the river perched groundwater is present in the shallow fill and tight clay zones and follows site topography and discharges to the west toward the River. The perched groundwater zones are presented the geologic cross section **Figure 6**.

Groundwater Table

The groundwater table on the ACME property is observed within the on-site and off-site groundwater monitoring wells at depths ranging from 20 to 30 feet bgs (605 to 627 ft MSL). The shallow groundwater aquifer is present within deeper portions of the fill and the interbedded silts, sand, and clay layer below the shallow fill (**Figure 5** and **Figure 6**). Review of the groundwater table measurements indicates that shallow groundwater flows from west to east and discharges to the Kinnickinnic River. This is best observed within the east to west cross-section **Figure 6**. It is interpreted that consistent with typical fluvial flow systems the shallow groundwater flow on the east side discharges west to the Kinnickinnic River.

Deeper Groundwater Flow

The deeper saturated sand and interbedded silt and clay units identified at 588.1 to 597.4 ft MSL flows from the west to the east with a generally modest horizontal gradient and exhibits variable both upward and downward vertical gradients. Multiple piezometers are screened predominantly within this interbedded sand, silty sand, and silty clay unit. It is interesting to note that piezometer PZ-6 which is screened within a more dominant sandy zone in this interbedded unit. This deeper saturated interval is interpreted to be independent of or not significantly influenced by the overlying Kinnickinnic River with the dominant direction of flow to the east/northeast. Future

groundwater elevation measurements proposed as part of the remedial action plan will assist in the further development and confirmation of the conceptual flow model.

The groundwater elevation measurements are summarized in **Table 2**. The April 30, 2020 shallow groundwater and potentiometric surface contour maps are presented as **Figures 7 and 8**.

Please note that inconsistent and irregular water levels not representative of long-term trends were measured within monitoring well MW-21, MW-16, and piezometer PZ-4 during the April 30, 2020 groundwater measurement event and were not included in the groundwater flow evaluation. It is proposed that these wells be evaluated with future water level measurements to confirm if the conditions are indicative of mounding by preferential recharge, recent modifications to the Kinnickinnic Riverbed, or well integrity issues.

Groundwater Analytical Results
The results of the January, February, and April 2020 groundwater sampling events are summarized below:

VOCs

- TCE – concentrations of TCE greater than ch. NR 140 preventive action limit (PAL) or enforcement standards (ESs) were detected within the groundwater samples collected from monitoring wells MW-16, MW-18, and MW-20 and piezometer PZ-4 during at least one of the groundwater sampling events.
- PCE – a concentration of tetrachloroethane within the monitoring well MW-20 greater than its NR 140 ES was detected during the April 13, 2020 sampling event. This detection was generally consistent with previous detections at this monitoring well.
- Intermediate Daughter Products – concentrations of the degradation daughter products of TCE and PCE including cis- 1,2-dichloroethene (cis-1,2-DCE) and trans-1,2-dichloroethene (trans-1,2,-DCE), greater than their applicable ch. NR 140 PALs and/or ESs were detected at MW-6, MW-7, MW-16, MW-20, and MW-21.
- Vinyl Chloride – Concentrations of vinyl chloride greater than its ch. NR 140 PAL and/or ES were detected within the groundwater samples collected from monitoring wells MW-6, MW-7, MW-12, MW-16, and MW-21 and piezometer PZ-5.

Review of the analytical data reported for the groundwater samples collected from newly installed off-site groundwater monitoring well MW-23 and piezometer PZ-6 indicate no VOCs were detected within the groundwater samples with the exception of cis-1,2-DCE detected within the initial January 31, 2020 groundwater sample collected from piezometer PZ-6.

The analytical results from the expanded groundwater monitoring well network sampled between April 9 and 13, 2020 indicate that concentrations of chlorinated-VOCs (CVOCs) reported within the groundwater samples are consistent with previous groundwater sampling events.

The results combined with the groundwater elevation data confirm the site conceptual model. Specifically, the highest concentrations of VOCs including trichloroethene (TCE)

and its daughter products including vinyl chloride indicate that the source area on the ACME Galvanizing property is within the former degreaser and wastewater treatment areas. The shallow groundwater is interpreted to discharge to the Kinnickinnic River (on both the east and west sides of the river) and deeper groundwater water flow is to the east below the KK River. This interpretation is further evidenced by the two orders of magnitude reduction in concentrations of TCE and its daughter products including vinyl chloride detected within monitoring well MW-21 and piezometer PZ-5 and the absence of impact within the groundwater collected from piezometer PZ-6.

Groundwater analytical data are summarized in **Table 3**. Laboratory analytical reports and COC documents for groundwater sampling events are included as **Appendix F.**

Natural Attenuation Parameters

Natural attenuation processes occurring in the subsurface materials at the site were further assessed during the supplemental site investigation activities completed in early 2020. Sigma collected one to three rounds of in situ biodegradation parameters including dissolved oxygen, ferrous iron, redox potential, and pH from groundwater in off-site wells and piezometers and select on-site wells. In addition, two off-site wells (MW-21 and PZ-5) with CVOC groundwater impacts were sampled for biodegradation end products (dissolved gasses such as methane, ethane and ethene). The data is summarized in **Table 4**. The laboratory report and chain of custody document for the dissolved gas analysis is included as **Appendix G**

Subsurface conditions are predominantly anaerobic (relatively low dissolved oxygen) with neutral pH. Although observed REDOX values are in the moderate to high range to be suitable for biodegradation the presence of ferrous iron, a biproduct of vinyl chloride degradation, clearly indicates subsurface geochemical conditions are conducive for plume degradation. Furthermore, the detection of dissolved gases at both sampling points MW-21 and PZ-5 supports the conclusion that biodegradation of the groundwater CVOC plume is ongoing. Therefore, it is evident based on recently collected geochemical and biodegradation data that natural attenuation of the CVOCs impacts identified in the off-site groundwater plume is occurring.

- *The analytical report QA/QC data and COCs for gw sampling of August and September 2019 need to be submitted; they are missing from the submittal.*

  The laboratory reports including the QA/QC results and associated chain-of-custody documents for the August and September 2019 sampling event are included in **Attachment F**.

- *Figure 9: need dates of "NE" results at applicable wells.*

  The revised **Figure 9** is attached.

Impacts to Receptors

A3: Utilities

- *The SIR Addendum response did not include information on the catch basin in the area of MW-7 that drains to the KK River, or the catch basin in the loading dock in the area of GP-33. Aerials photos indicate there may be two catch basins in the area of MW-7. Include a discussion on these structures that includes the information requested, including whether you believe they are or were migration pathways for the chlorinated impacts beneath the building. State whether you believe any other onsite utilities could be a vapor migration pathway and why or why not.*

  The storm sewer catch basin structures located near monitoring well MW-7 (denoted CB-4 and CB-5 on **Figure 10**), including the loading dock trench drain (TD-1) were surveyed using GPS. To calculate the elevation of the bottom of each structure, the invert depth was also measured at each structure. In addition to storm sewer catch basin structures, storm sewer manholes located northwest of the ACME Galvanizing main office (MH-1) and off-site to the east of the property (MH-2) were also surveyed in a similar manner.

  Based on observations of storm sewer flow within manholes MH-1 and MH-2, storm water flows from west to east in the vicinity of catch basins CB-4 and CB-5 and trench drain TD-1. The bottom of the storm sewer pipe was measured at an elevation of approximately 626.5 feet mean sea level (MSL) within manhole MH-1 and approximately 621.2 feet MSL within manhole MH-2. Assuming a consistent slope between the two manholes, the bottom elevation of the storm sewer pipe near catch basin CB-5 is approximately 623.5 feet MSL, as depicted in cross-section view on **Figure 11.** Please note that due to their construction as deep sump catch basins, the direction of the discharge and location of the connection of CB-4 and CB-5 to the storm sewer could not be directly observed.

  The bottom elevation of storm sewer catch basin CB-4 was measured at approximately 628.7 feet MSL. Although no as-built drawings could be located for the catch basin structures, an assumption was made that 6-inches (0.5-feet) of permeable backfill likely underlies the structure itself. The likely bottom of the backfill beneath the structure is therefore located at approximately 628.2 feet MSL. The bottom elevation of catch basin CB-5 was measured at approximately 628.0 feet MSL, with permeable backfill likely extending to approximately 627.5 feet MSL. The bottom elevation of the trench drain located within the loading dock on the northeast side of the ACME facility was measured at approximately 630.5 feet MSL, with permeable backfill likely extending to 630 feet MSL.

  The majority of the storm water system is confined to the site as noted in **Figure 10** and the measured elevations indicate that the system is not in contact with the water table. The discharge is off-site to the Kinnickinnic River and is not in contact or within close proximity of potential off-site receptors. Therefore, the existing site storm water sewer system is not a conduit for groundwater migration or vapor intrusion within off-site structures.

  Given the permeability of the shallow subsurface as determined through the SVE pilot testing the backfill surrounding the site's sanitary sewer as shown in **Figure 12** is not significantly more permeable and does not preferentially transmit vapors across or off-site.

Closing
We appreciate your assistance with this project. Please call us at 414-588-0415 or 414-588-7936 if you have any questions.

Sincerely,

THE SIGMA GROUP, INC.

Kristin Kurzka, P.E., P.G.
Senior Engineer

Mafizul Islam, P.E.
Senior Engineer

Attachments

Tables
1. Indoor Air Analytical Results Table
2. Groundwater Elevation Table
3. Groundwater Analytical Results Table
4. Groundwater In-Situ Measurements and Geochemical Data Table

Figures
1. Indoor Air Sample Location Map
2. Proposed Asphalt Cap
3. Soil Boring, Groundwater Monitoring Well, and Piezometer Location Map
4. Geologic Cross Section Locations Map
5. Geologic Cross Section B-B'
6. Geologic Cross Section A-A'
7. Groundwater Elevation Contour Map (April 30, 2020)
8. Piezometric Surface Elevation Contour Map (April 30, 2020)
9. Groundwater Quality Map – Metals (Revised May 2020)
10. Storm Sewer Location Map
11. Storm Sewer Cross Section
12. Site Utilities Map

Appendices
A. Indoor Air Laboratory Analytical Report and COC
B. Soil Boring Logs
C. Monitoring Well Construction Reports
D. Monitoring Well Development Forms
E. Off-Site Geologic Information
F. Groundwater Laboratory Analytical Reports and COCs
G. Natural Attenuation Gas Analysis Laboratory Report and COC

cc: Mr. Edward Weiss - EDW@acmegalv.com

TABLES

Table 1
Indoor Air Analytical Data
ACME Galvanizing - 2730 S. 19th Street, Milwaukee, Wisconsin
Sigma Project No. #12884

Sample Type:		Indoor Air Samples														
Sample Location:		**Main Office Area**		**Wastewater Treatment Office**		**Employee Break/Lunch Room (near former Vapor Degreaser)**		**Barrel Plating Area (near former Vapor Degreaser)**		**Employee Restroom**	**Central Plating and Storage Area**	**Laboratory Area**	**Maintenance Shop/Office Area**	**Ambient Outdoor Air (upwind)**	VAL for Small Commercial Indoor Air [2]	VAL for Large Commercial / Industrial Indoor Air [3]
Sample Identification:		IAS-1	IAS-2-1	IAS-2	IAS-2-2	IAS-3	IAS-2-3	IAS-4	IAS-2-7	IAS-2-4	IAS-2-5	IAS-2-6	IAS-2-8	IAS-2-9		
Date:		7/25/19	1/15/20	7/25/19	1/15/20	7/25/19	1/15/20	7/25/19	1/15/20	1/15/20	1/15/20	1/15/20	1/15/20	1/15/20		
Duration:		8 hr.		8 hr.		8 hr.		8 hr.		8 hr.	8 hr.	8 hr.	8 hr.	8 hr.		
VOCs (Summa canisters by EPA Method TO-15)																
Trichloroethene (TCE)	µg/m^3	1.4	2.1	<0.40	2.9	<0.38	7.0	0.9	4.8	5.3	4.6	4.4	0.86 J	<0.39	8.8	8.8

Notes:

1. Analytical units: µg/m^3 = micrograms per cubic meter

2. VAL for Small Commercial Indoor Air = Vapor Action Level described in WDNR publication PUB-RR-800 "Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin" (dated January 2018) which in turn references EPA Region 3 Risk-Based Concentrations for **industrial** air (Regional Screening Level Master Table - November 2017 [https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-november-2017]) and **small commercial** air in November 2017 "WI Vapor Quick Look-Up Table - Indoor Air Vapor Action Levels And Vapor Risk Screening Levels". VAL adjusted to 1-in-100,000 increase in lifetime cancer risk for carcinogens per WDNR publication PUB-RR-800; VAL is not adjusted for non-carcinogens (i.e., harzard index = 1).

3. VAL for Large Commercial / Industrial Indoor Air = Vapor Action Level described in WDNR publication PUB-RR-800 "Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin" (dated January 2018) which in turn references EPA Region 3 Risk-Based Concentrations for **industrial** air (Regional Screening Level Master Table - November 2017 [https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-november-2017]) and **large commerical / industrial** air in November 2017 "WI Vapor Quick Look-Up Table - Indoor Air Vapor Action Levels And Vapor Risk Screening Levels". VAL adjusted to 1-in-100,000 increase in lifetime cancer risk for carcinogens per WDNR publication PUB-RR-800; VAL is not adjusted for non-carcinogens (i.e., harzard index = 1).
4. NA = not analyzed
5. Laboratory flags: J = concentration between laboratory limit of detection (LOD) and limit of quantification (LOQ)
6. Exceedances: **BOLD** = concentration exceeds Vapor Action Level

Table 2
Water Level Elevations
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

MW-6

Ground Elev.:	634.84	(feet MSL)	New Ground Elev:	634.48	(feet MSL)	Screen Interval:	22 to 32 (feet bgs)
TOC Elev.:	634.59	(feet MSL)	New TOC Elev:	634.16	(feet MSL)		602.5 to 612.5 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
12/12/97	NA	23.61	31.50	0.00	7.89		610.98	23.87	
12/16/97	NA	23.61		0.00	7.89	0.00	610.98	23.87	
01/05/98	Not measured	Not measured		-	-	-	-	-	
01/09/98	NA	23.51		0.00	7.99	0.10	611.08	23.77	
01/22/98	NA	23.40		0.00	8.10	0.11	611.19	23.66	
02/23/98	NA	22.92		0.00	8.58	0.48	611.67	23.18	
01/20/99	-	-		-	-	-	-	-	Could not locate
09/24/13	NA	22.70		0.00	8.80	0.22	611.89	22.96	
02/04/15	NA	23.17		0.00	8.33	-0.47	611.42	23.43	
08/09/17	NA	22.95	31.50	0.00	8.55	0.22	611.21	23.26	turbid, no odor, good recovery
12/01/17	NA	24.18	31.50	0.00	7.32	-1.23	609.98	24.49	slightly turbid, no odor, good recovery
02/21/18	NA	24.44	31.50	0.00	7.06	-0.26	609.72	24.75	turbid, no odor, good recovery
05/29/18	NA	23.06	31.50	0.00	8.44	1.38	611.10	23.37	turbid, no odor, fair recovery
11/07/18	NA	23.22	31.50	0.00	8.28	-0.16	610.94	23.53	clear, no odor, moderate recovery
12/13/18	NA	23.35	31.80	0.00	8.15	-0.13	610.81	23.66	turbid, no odor, fair recovery
07/25/19	NA	23.03	31.50	0.00	8.47	0.32	611.13	23.34	clear, no odor, good recovery
04/09/20	NA	22.85	31.50	0.00	8.65	0.18	611.31	23.16	slightly turbid, no odor, good recovery
04/13/20	NA	22.91	31.50	0.00	8.59	-0.06	611.25	23.22	measurement only
04/30/20	NA	22.83	31.50	0.00	8.67	0.08	611.33	23.14	measurement only

MW-7

Ground Elev.:	633.42	(feet MSL)	New Ground Elev:	633.05	(feet MSL)	Screen Interval:	22 to 32 (feet bgs)
TOC Elev.:	633.14	(feet MSL)	New TOC Elev:	632.66	(feet MSL)		601.1 to 611.1 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
01/05/98	NA	23.14	31.75	0.00	8.61		610.00	23.42	
01/09/98	NA	23.14		0.00	8.61	0.00	610.00	23.42	
01/22/98	NA	23.52		0.00	8.23	-0.38	609.62	23.80	
02/23/98	NA	23.33		0.00	8.42	0.19	609.81	23.61	
01/20/99	NA	23.80		0.00	7.95	-0.47	609.34	24.08	
09/24/13	NA	23.34		0.00	8.41	0.46	609.80	23.62	
02/04/15	NA	23.49		0.00	8.26	-0.15	609.65	23.77	
08/09/17	NA	23.16	31.75	0.00	8.59	0.33	609.50	23.55	turbid, no odor, good recovery
12/01/17	NA	23.35	31.75	0.00	8.40	-0.19	609.31	23.74	slightly turbid, slight petroleum odor, going dry
02/21/18	NA	23.11	31.75	0.00	8.64	0.24	609.55	23.50	mostly clear,no odor, good recovery
03/26/18	NA	26.31	31.75	0.00	5.44	-3.20	606.35	26.70	clear, no odor, moderate recovery, duplicate & matrix
05/29/18	NA	22.69	31.75	0.00	9.06	3.62	609.97	23.08	mostly clear,no odor, fair recovery
11/07/18	NA	22.33	31.75	0.00	9.42	0.36	610.33	22.72	clear, no odor, moderate recovery
12/12/18	NA	22.50	32.16	0.00	9.25	-0.17	610.16	22.89	slightly turbid, no odor, good recovery
07/25/19	NA	22.15	31.75	0.00	9.60	0.35	610.51	22.54	slightly turbid, no odor, good recovery
04/09/20	NA	22.42	31.75	0.00	9.33	-0.27	610.24	22.81	slightly turbid, no odor, good recovery
04/13/20	NA	22.41	31.75	0.00	9.34	0.01	610.25	22.80	measurement only
04/30/20	NA	21.82	31.75	0.00	9.93	0.59	610.84	22.21	measurement only

MW-8

Ground Elev.:	---	(feet MSL)	New Ground Elev:	634.13	(feet MSL)	Screen Interval:	22 to 32 (feet bgs)
TOC Elev.:	---	(feet MSL)	New TOC Elev:	633.55	(feet MSL)		602.1 to 612.1 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
12/01/12	16.41	18.43	21.60	2.02	3.17	-	-	-	
01/01/13	17.07	21.08	21.60	4.01	0.52	2.65	-	-	
08/09/17	NA	22.98	32.00	0.00	9.02	8.50	610.57	23.57	mostly clear, no odor, good recovery
12/01/17	NA	23.78	32.00	0.00	8.22	-0.80	609.77	24.37	slightly turbid, no odor, good recovery
02/20/18	NA	23.75	32.00	0.00	8.25	0.03	609.80	24.34	mostly clear, no odor, good recovery, duplicate taken
05/29/18	NA	22.56	32.00	0.00	9.44	1.19	610.99	23.15	clear, no odor, good recovery
11/07/18	NA	22.74	32.00	0.00	9.26	-0.18	610.81	23.33	clear, no odor, good recovery
12/13/18	NA	22.78	32.44	0.00	9.66	0.40	610.77	23.37	clear, no odor, good recovery
07/25/19	NA	22.41	32.00	0.00	9.59	-0.07	611.14	23.00	mostly clear, no odor, good recovery
04/09/20	NA	22.63	32.00	0.00	9.37	-0.22	610.92	23.22	measurement only
04/13/20	NA	22.83	32.00	0.00	9.17	-0.20	610.72	23.42	measurement only
04/30/20	NA	22.26	32.00	0.00	9.74	0.57	611.29	22.85	measurement only

MW-9

Ground Elev.:	---	(feet MSL)	New Ground Elev:	633.76	(feet MSL)	Screen Interval:	20 to 30 (feet bgs)
TOC Elev.:	---	(feet MSL)	New TOC Elev:	633.50	(feet MSL)		603.8-613.8 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
12/01/12	15.91	15.96	21.40	0.05	5.44	-	-	-	
01/01/13	16.93	16.94	21.40	0.01	4.46	-0.98	-	-	
08/09/17	NA	24.10	29.65	0.00	5.55	1.09	609.40	24.36	No free product, slightly turbid, no odor, good recovery
12/01/17	NA	25.46	29.65	0.00	4.19	-1.36	608.04	25.72	No free product, clear, no odor, good recovery
02/21/18	NA	24.25	29.65	0.00	5.40	1.21	609.25	24.51	No free product, slightly turbid, no odor, duplicate taken
05/29/18	NA	22.32	29.65	0.00	7.33	1.93	611.18	22.58	No free product, turbid, odor, fair recovery
11/07/18	NA	22.95	29.65	0.00	6.70	-0.63	610.55	23.21	No free product, clear, no odor, moderate recovery
12/13/18	NA	23.51	30.25	0.00	6.74	0.04	609.99	23.77	No free product, slightly turbid, no odor, fair recovery
07/25/19	NA	23.59	29.65	0.00	6.06	-0.68	609.91	23.85	No free product, mstly clear, no odor, good recovery
04/09/20	NA	23.88	29.65	0.00	5.77	-0.29	609.62	24.14	No free product
04/13/20	NA	24.08	29.65	0.00	5.57	-0.49	609.42	24.34	No free product
04/30/20	NA	23.86	29.65	0.00	5.79	0.02	609.64	24.12	No free product

MW-10

Ground Elev.:	637.49	(feet MSL)	New Ground Elev:	637.20	(feet MSL)	Screen Interval:	5 to 20 (feet bgs)
TOC Elev.:	637.02	(feet MSL)	New TOC Elev:	636.89	(feet MSL)		617.2 to 632.2 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
02/04/15	NA	11.22	19.90	0.00	8.68	-	625.80	11.69	
08/09/17	NA	10.18	19.90	0.00	9.72	1.04	626.71	10.49	turbid, no odor, good recovery
12/01/17	NA	10.77	19.90	0.00	9.13	-0.59	626.12	11.08	turbid, no odor, fair recovery
02/20/18	NA	11.21	19.90	0.00	8.69	-0.44	625.68	11.52	turbid, no odor, good recovery
05/29/18	NA	9.51	19.90	0.00	10.39	1.70	627.38	9.82	turbid, no odor, good recovery
11/07/18	NA	10.32	19.90	0.00	9.58	-0.81	626.57	10.63	clear, no odor, good recovery
12/12/18	NA	9.89	19.90	0.00	10.01	0.43	627.00	10.20	turbid, no odor, good recovery
07/25/19	NA	9.82	19.90	0.00	10.08	0.07	627.07	10.13	turbid, no odor, good recovery
04/09/20	NA	9.54	19.90	0.00	10.36	0.28	627.35	9.85	measurement only
04/13/20	NA	9.67	19.90	0.00	10.23	-0.13	627.22	9.98	measurement only
04/30/20	NA	9.69	19.90	0.00	10.21	-0.02	627.20	10.00	measurement only

Table 2
Water Level Elevations
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

MW-11

Ground Elev.:	635.32	(feet MSL)	New Ground Elev:	635.08	(feet MSL)	Screen Interval:	15 to 30 (feet bgs)
TOC Elev.:	634.91	(feet MSL)	New TOC Elev:	634.66	(feet MSL)		605.1 to 620.1 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
02/04/15	NA	20.77	29.75	0.00	8.98	-	614.14	21.18	
08/09/17	NA	20.47	29.75	0.00	9.28	0.30	614.19	20.89	turbid, no odor, good recovery
12/01/17	NA	22.00	29.75	0.00	7.75	-1.53	612.66	22.42	slightly turbid, no odor, good recovery
02/20/18	NA	22.48	29.75	0.00	7.27	-0.48	612.18	22.90	turbid, no odor, slow recovery
05/30/18	NA	22.07	29.75	0.00	7.68	0.41	612.59	22.49	turbid, no odor, slow recovery
11/08/18	NA	21.69	29.75	0.00	8.06	0.38	612.97	22.11	clear, no odor, slow recovery
12/13/18	NA	21.52	29.72	0.00	8.20	0.14	613.14	21.94	mostly clear, no odor, good recovery
07/26/19	NA	21.17	29.75	0.00	8.58	0.38	613.49	21.59	clear, no odor, good recovery
04/09/20	NA	21.85	29.75	0.00	7.90	-0.68	612.81	22.27	measurement only
04/13/20	NA	21.90	29.75	0.00	7.85	-0.05	612.76	22.32	measurement only
04/30/20	NA	21.90	29.75	0.00	7.85	0.00	612.76	22.32	measurement only

MW-12

Ground Elev.:	635.44	(feet MSL)	New Ground Elev:	635.11	(feet MSL)	Screen Interval:	15 to 30 (feet bgs)
TOC Elev.:	634.75	(feet MSL)	New TOC Elev:	634.77	(feet MSL)		605.1 to 620.1 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
02/04/15	19.54	19.54	29.90	0.00	10.36	-	615.21	20.23	
08/09/17	NA	21.20	29.90	0.00	8.70	-1.66	613.57	21.54	turbid, no odor, moderate recovery
12/01/17	NA	22.50	29.90	0.00	7.40	-1.30	612.27	22.84	slightly turbid, no odor, moderate recovery
02/20/18	NA	22.95	29.90	0.00	6.95	-0.45	611.82	23.29	slightly turbid, no odor, good recovery
03/26/18	NA	25.78	29.90	0.00	4.12	-2.83	608.99	26.12	turbid, no odor, moderate recovery
05/30/18	NA	22.61	29.90	0.00	7.29	3.17	612.16	22.95	turbid, no odor, good recovery
11/08/18	NA	22.26	29.90	0.00	7.64	0.35	612.51	22.60	clear, no odor, good recovery
12/13/18	NA	21.98	29.72	0.00	7.74	0.10	612.79	22.32	mostly clear, no odor, good recovery
07/26/19	NA	21.63	29.90	0.00	8.27	0.53	613.14	21.97	slightly turbid, no odor, good recovery
04/09/20	NA	22.29	29.90	0.00	7.61	-0.66	612.48	22.63	slightly turbid, no odor, moderate recovery
04/13/20	NA	22.41	29.90	0.00	7.49	-0.12	612.36	22.75	measurement only
04/30/20	NA	22.33	29.90	0.00	7.57	0.08	612.44	22.67	measurement only

MW-13

Ground Elev.:	634.43	(feet MSL)	New Ground Elev:	634.08	(feet MSL)	Screen Interval:	15 to 30 (feet bgs)
TOC Elev.:	633.86	(feet MSL)	New TOC Elev:	633.59	(feet MSL)		604.1 to 619.1 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
02/04/15	NA	18.92	30.30	0.00	11.38	-	614.94	19.49	
08/09/17	NA	18.91	30.30	0.00	11.39	0.01	614.68	19.40	turbid, no odor, moderate recovery
12/01/17	NA	20.93	30.30	0.00	9.37	-2.02	612.66	21.42	turbid, no odor, moderate recovery
02/20/18	NA	21.54	30.30	0.00	8.76	-0.61	612.05	22.03	turbid, no odor, good recovery
05/30/18	NA	20.85	30.30	0.00	9.45	0.69	612.74	21.34	turbid, no odor, good recovery
11/08/18	NA	20.17	30.30	0.00	10.13	0.68	613.42	20.66	clear, no odor, good recovery
12/13/18	NA	20.31	30.18	0.00	9.87	-0.26	613.28	20.80	turbid, no odor, good recovery
07/26/19	NA	19.75	30.30	0.00	10.55	0.68	613.84	20.24	slightly turbid, no odor, good recovery
04/09/20	NA	20.68	30.30	0.00	9.62	-0.93	612.91	21.17	measurement only
04/13/20	NA	20.83	30.30	0.00	9.47	-0.15	612.76	21.32	measurement only
04/30/20	NA	20.80	30.30	0.00	9.50	0.03	612.79	21.29	measurement only

MW-14

Ground Elev.:	634.34	(feet MSL)				Screen Interval:	15 to 30 (feet bgs)
TOC Elev.:	633.92	(feet MSL)					604.1 to 619.1 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
12/01/17	NA	23.38	30.10	0.00	6.72	-	610.54	23.80	clear, no odor, good recovery
02/20/18	NA	23.47	30.10	0.00	6.63	-0.09	610.45	23.89	turbid ,no odor, good recovery
05/29/18	NA	22.18	30.10	0.00	7.92	1.29	611.74	22.60	turbid, no odor, good recovery
11/07/18	NA	22.61	30.10	0.00	7.49	-0.43	611.31	23.03	clear, no odor, good recovery
12/12/18	NA	22.63	30.10	0.00	7.47	-0.02	611.29	23.05	turbid, slight sulfur, good recovery
07/25/19	NA	22.27	30.10	0.00	7.83	0.36	611.65	22.69	turbid, no odor, good recovery
04/09/20	NA	21.98	30.10	0.00	8.12	0.29	611.94	22.40	measurement only
04/13/20	NA	22.27	30.10	0.00	7.83	-0.29	611.65	22.69	measurement only
04/30/20	NA	22.21	30.10	0.00	7.89	0.06	611.71	22.63	measurement only

MW-15

Ground Elev.:	633.64	(feet MSL)				Screen Interval:	15 to 30 (feet bgs)
TOC Elev.:	633.35	(feet MSL)					604.1 to 619.1 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
12/01/17	NA	22.76	30.10	0.00	7.34	-	610.59	23.05	clear, no odor, good recovery
02/21/18	NA	22.61	30.10	0.00	7.49	0.15	610.74	22.90	mostly clear, no odor, good recovery
03/26/18	NA	25.87	30.10	0.00	4.23	-3.26	607.48	26.16	turbid, no odor, good recovery
05/29/18	NA	21.79	30.10	0.00	8.31	4.08	611.56	22.08	turbid, no odor, good recovery
11/07/18	NA	22.03	30.10	0.00	8.07	-0.24	611.32	22.32	clear, no odor, good recovery
12/12/18	NA	22.08	29.55	0.00	7.47	-0.60	611.27	22.37	turbid, no odor, good recovery
07/25/19	NA	21.82	30.10	0.00	8.28	0.81	611.53	22.11	clear, no odor, good recovery
04/09/20	NA	21.34	30.10	0.00	8.76	0.48	612.01	21.63	turbid, no odor, good recovery
04/13/20	NA	21.48	30.10	0.00	8.62	0.34	611.87	21.77	measurement only
04/30/20	NA	21.19	30.10	0.00	8.91	0.15	612.16	21.48	measurement only

MW-16

Ground Elev.:	633.67	(feet MSL)				Screen Interval:	15 to 30 (feet bgs)
TOC Elev.:	633.29	(feet MSL)					604.1 to 619.1 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
12/01/17	NA	23.15	29.85	0.00	6.70	-	610.14	23.52	slightly turbid, slight petroleum odor, good recovery
02/20/18	NA	21.52	29.85	0.00	8.33	1.63	611.77	21.89	turbid, no odor, good recovery
05/29/18	NA	17.65	29.85	0.00	12.20	3.87	615.64	18.02	turbid, no odor, good recovery
11/07/18	NA	19.71	29.85	0.00	10.14	-2.06	613.58	20.08	clear, no odor, good recovery
12/12/18	NA	17.78	27.91	0.00	10.13	-0.01	615.51	18.15	turbid, no odor, going dry
07/25/19	NA	18.04	20.05	0.00	2.01	-8.12	615.25	18.41	turbid, no odor, slow recovery
04/09/20	NA	15.84	23.70	0.00	7.86	5.85	617.45	16.21	turbid, no odor, slow recovery
04/13/20	NA	16.42	20.05	0.00	3.63	-4.23	616.87	16.79	measurement only
04/30/20	NA	14.82	23.70	0.00	8.88	5.25	618.47	15.19	measurement only

Table 2
Water Level Elevations
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

MW-17

Ground Elev.: 634.26 (feet MSL) — Screen Interval: 15 to 30 (feet bgs)
TOC Elev.: 633.91 (feet MSL) — 604 to 619 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
11/07/18	NA	23.39	29.60	0.00	6.21	-	610.52	23.74	clear, no odor, good recovery
12/12/18	NA	23.39	29.79	0.00	6.40	0.19	610.52	23.74	turbid, no odor, going dry
07/25/19	NA	23.15	29.60	0.00	6.45	0.05	610.76	23.50	turbid, no odor, good recovery
04/09/20	NA	23.15	29.60	0.00	6.45	0.00	610.76	23.50	
04/13/20	NA	23.25	29.60	0.00	6.35	-0.10	610.66	23.60	measurement only
04/30/20	NA	22.82	29.60	0.00	6.78	0.43	611.09	23.17	measurement only

MW-18

Ground Elev.: Not Surveyed (feet MSL) — Screen Interval: 15 to 30 (feet bgs)
TOC Elev.: Not Surveyed (feet MSL) — Not surveyed (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
11/07/18	NA	19.71	29.85	0.00	10.14	-	NA	-	clear, no odor, good recovery
12/12/18	NA	17.78	27.91	0.00	10.13	-0.01	NA	-	turbid, no odor, going dry
07/25/19	NA	23.40	29.00	0.00	5.60	-4.53	NA	-	turbid, no odor, good recovery
04/09/19	NA	23.39	29.00	0.00	5.61	0.01	NA	-	slightly turbid, no odor, good recovery
04/13/20	NA	23.39	29.00	0.00	5.61	0.01	NA	-	measurement only
04/30/20	NA	22.19	29.00	0.00	6.81	1.20	NA	-	measurement only

MW-19

Ground Elev.: Not Surveyed (feet MSL) — Screen Interval: 15 to 30 (feet bgs)
TOC Elev.: Not Surveyed (feet MSL) — Not surveyed (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
12/12/18	10.78	-	-	-	-	-	-	-	
04/09/20	-	-	-	-	-	-	-	-	free product present
04/13/20	-	-	-	-	-	-	-	-	free product present
04/30/20	-	-	-	-	-	-	-	-	free product present

MW-20

Ground Elev.: Not Surveyed (feet MSL) — Screen Interval: 15 to 30 (feet bgs)
TOC Elev.: Not Surveyed (feet MSL) — Not Surveyed (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
07/26/19	NA	21.62	28.85	0.00	7.23	-	NA	NA	slightly turbid, no odor, good recovery
04/09/20	NA	22.21	28.85	0.00	6.64	-0.59	NA	NA	mostly clear, no odor, good recovery
04/13/20	NA	22.21	28.85	0.00	6.64	0.00	NA	NA	measurement only
04/30/20	NA	23.48	28.85	0.00	5.37	-1.27	NA	NA	measurement only

MW-21

Ground Elev.: 635.12 (feet MSL) — Screen Interval: 15 to 30 (feet bgs)
TOC Elev.: 634.78 (feet MSL) — 620.1 to 605.1 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
08/22/19	NA	DRY	29.65	0.00	-	-	-	DRY	dry
09/03/19	NA	29.50	29.65	0.00	0.15	-	605.28	29.84	
01/23/20	NA	29.21	29.65	0.00	0.44	0.29	605.57	29.55	
01/30/20	NA	29.29	29.65	0.00	0.36	-0.08	605.49	29.63	
01/31/20	NA	29.31	29.65	0.00	0.34	-0.02	605.47	29.65	mostly clear, no odor, slow recovery
02/20/20	NA	29.34	29.65	0.00	0.31	-0.03	605.44	29.68	clear, no odor, slow recovery
04/09/20	NA	29.04	29.65	0.00	0.61	0.30	605.74	29.38	slightly turbid, no odor, slow recovery
04/13/20	NA	29.12	29.65	0.00	0.53	-0.08	605.66	29.46	measurement only
04/30/20	NA	28.05	29.65	0.00	1.60	1.07	606.73	28.39	measurement only

MW-22

Ground Elev.: 635.61 (feet MSL) — Screen Interval: 15 to 30 (feet bgs)
TOC Elev.: 635.47 (feet MSL) — 620.6 to 605.6 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
08/22/19	NA	15.47	29.30	0.00	13.83	-	620.00	15.62	turbid, good recovery
09/03/19	NA	15.60	29.30	0.00	13.70	-0.13	619.87	15.75	slightly turbid, good recovery
01/31/20	NA	14.69	29.30	0.00	14.61	0.91	620.78	14.84	slightly turbid, no odor, good recovery
02/19/20	NA	14.33	29.30	0.00	14.97	0.36	621.14	14.48	slightly turbid, no odor, good recovery, DUP
04/09/20	NA	14.25	29.30	0.00	15.05	0.08	621.22	14.40	turbid, no odor, good recovery
04/13/20	NA	14.22	29.30	0.00	15.08	0.11	621.25	14.37	measurement only
04/30/20	NA	14.39	29.30	0.00	14.91	-0.14	621.08	14.54	measurement only

MW-23

Ground Elev.: 636.76 (feet MSL) — Screen Interval: 20 to 35 (feet bgs)
TOC Elev.: 636.36 (feet MSL) — 601.8 to 616.8 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
01/30/20	NA	-	-	-	-	-	-	-	DRY
01/31/20	NA	-	-	-	-	-	-	-	DRY
02/19/20	NA	16.99	33.96	0.00	16.97		619.37	17.39	well development, slow recovery
02/20/20	NA	31.61	34.15	0.00	2.54	-14.43	604.75	32.01	turbid, no odor, moderate recovery
04/09/20	NA	11.25	34.15	0.00	22.90	20.36	625.11	11.65	slightly turbid, no odor, good recovery
04/13/20	NA	18.01	34.15	0.00	16.14	13.60	618.35	18.41	measurement only
04/30/20	NA	11.88	34.15	0.00	22.27	-0.63	624.48	12.28	measurement only

MW-1A

Ground Elev.: 635.29 (feet MSL) — New Ground Elev: 635.11 (feet MSL) — Screen Interval: 2 to 12 (feet bgs)
TOC Elev.: 634.99 (feet MSL) — New TOC Elev: 634.47 (feet MSL) — 623.1 to 633.1 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
07/17/12	4.81	4.81	11.95	0.00	7.14	---	630.18	5.12	
02/04/15	4.94	4.94		0.00	7.01	-0.13	630.05	5.25	
08/09/17	NA	4.47	11.95	0.00	7.48	0.47	630.00	5.11	turbid, no odor, good well recovery
12/01/17	NA	4.62	11.95	0.00	7.33	-0.15	629.85	5.26	slightly turbid, no odor, going dry
02/20/18	NA	5.01	11.95	0.00	6.94	-0.39	629.46	5.65	turbid, no odor, slow well recovery
03/26/18	NA	4.43	11.95	0.00	7.52	0.58	630.04	5.07	turbid, no odor, slow recovery
05/30/18	NA	4.20	11.95	0.00	7.75	0.23	630.27	4.84	turbid, no odor, slow recovery
11/08/18	NA	4.29	11.95	0.00	7.66	-0.09	630.18	4.93	clear, no odor, slow recovery
12/13/18	NA	4.33	11.94	0.00	7.62	-0.04	630.14	4.97	turbid, no odor, poor going dry
07/26/19	NA	4.23	11.95	0.00	7.72	0.10	630.24	4.87	clear, no odor, good recovery
04/09/20	NA	4.31	11.95	0.00	7.64	-0.08	630.16	4.95	
04/13/20	NA	4.43	11.95	0.00	7.52	-0.12	630.04	5.07	measurement only
04/30/20		4.36	11.95	0.00	7.59	0.07	630.11	5.00	measurement only

Table 2
Water Level Elevations
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

MW-2A

Ground Elev.: 634.85 (feet MSL) New Ground Elev: 634.69 (feet MSL) Screen Interval: 2 to 12 (feet bgs)
TOC Elev.: 634.67 (feet MSL) New TOC Elev: 634.54 (feet MSL) 622.7 to 632.7 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
07/17/12	NA	4.41	12.05	0.00	7.64	---	630.26	4.59	
02/04/15	NA	4.47		0.00	7.58	-0.06	630.20	4.65	
08/09/17	NA	4.26	12.05	0.00	7.79	0.21	630.28	4.41	turbid, no odor, good recovery, duplicate taken
12/01/17	NA	4.39	12.05	0.00	7.66	-0.13	630.15	4.54	mostly clear, no odor, good recovery
02/21/18	NA	4.09	12.05	0.00	7.96	0.30	630.45	4.24	slightly turbid, no odor, good recovery
05/30/18	NA	4.09	12.05	0.00	7.96	0.00	630.45	4.24	turbid, no odor, fair recovery
11/08/18	NA	4.17	12.05	0.00	7.88	-0.08	630.37	4.32	clear, no odor, moderate recovery
12/13/18	NA	4.15	12.10	0.00	7.90	0.02	630.39	4.30	turbid, no odor, good recovery, duplicate taken
07/26/19	NA	4.19	12.05	0.00	7.86	-0.04	630.35	4.34	turbid, no odor, good recovery
04/09/20	NA	-	-	-	-	-	-	-	ponded water on surface, flush mount submerged
04/13/20	NA	-	-	-	-	-	-	-	ponded water on surface, flush mount submerged
04/30/20	NA	-	-	-	-	-	-	-	ponded water on surface, flush mount submerged

MW-3A

Ground Elev.: 635.10 (feet MSL) New Ground Elev: 634.22 (feet MSL) Screen Interval: 2 to 12 (feet bgs)
TOC Elev.: 635.24 (feet MSL) New TOC Elev: 635.24 (feet MSL) 623.1 to 633.1 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
07/17/12	NA	6.08	12.15	0.00	6.07	---	629.16	5.94	
02/04/15	NA	5.10	-	0.00	7.05	0.98	630.14	4.96	
08/09/17	6.40	7.08	-	0.68	5.07	-1.98	628.74	6.06	free phase product encountered
12/01/17	4.78	4.79	12.15	0.01	7.36	2.29	630.46	3.77	free phase product encountered; not sampled
02/20/18	4.59	5.00	12.15	0.41	7.15	-0.21	630.59	3.98	free phase product encountered; not sampled
05/30/18	4.39	4.48	12.15	0.09	7.67	0.52	630.84	3.46	
11/07/18	4.59	4.63	12.15	0.04	7.52	-0.15	630.65	3.61	
12/12/18	-	4.59	12.13	0.00	7.56	0.04	630.65	3.57	
07/26/19	4.48	4.53	12.15	0.05	7.62	0.06	630.75	3.51	
04/09/20	4.57	4.61	12.15	0.04	7.54	-0.08	630.67	3.59	measurement only
04/13/20	4.57	4.61	12.15	0.04	7.54	0.00	630.67	3.59	measurement only
04/30/20	NA	-	-	-	-	-	-	-	free phase product encountered

MW-4A

Ground Elev.: 635.24 (feet MSL) New Ground Elev: 634.83 (feet MSL) Screen Interval: 2 to 12 (feet bgs)
TOC Elev.: 634.97 (feet MSL) New TOC Elev: 634.61 (feet MSL) 622.8 to 632.8 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
07/17/12	NA	6.18	12.15	0.00	5.97	---	628.79	6.45	
02/04/15	NA	6.37	-	0.00	5.78	-0.19	628.60	6.64	
08/09/17	NA	6.03	12.15	0.00	6.12	0.34	628.58	6.26	mostly clear, no odor, good recovery
12/01/17	NA	6.21	12.15	0.00	5.94	-0.18	628.40	6.44	mostly clear, no odor, good recovery
02/20/18	NA	6.23	12.15	0.00	5.92	-0.02	628.38	6.46	turbid, no odor, good recovery
05/30/18	NA	5.24	12.15	0.00	6.91	0.99	629.37	5.47	slightly turbid, no odor, good recovery
11/07/18	NA	5.79	12.15	0.00	6.36	-0.55	628.82	6.02	clear, no odor, good recovery
12/13/18	NA	5.64	12.13	0.00	6.51	0.15	628.97	5.87	mostly clear, no odor, good recovery
07/26/19	NA	5.89	12.15	0.00	6.26	-0.25	628.72	6.12	slightly turbid, no odor, good recovery
04/09/20	NA	5.51	12.15	0.00	6.64	0.38	629.10	5.74	measurement only
04/13/20	NA	5.64	12.15	0.00	6.51	-0.13	628.97	5.87	measurement only
04/30/20	NA	5.26	12.15	0.00	6.89	0.38	629.35	5.49	measurement only

MW-5A

Ground Elev.: 635.31 (feet MSL) New Ground Elev: 635.14 (feet MSL) Screen Interval: 2 to 12 (feet bgs)
TOC Elev.: 635.22 (feet MSL) New TOC Elev: 635.06 (feet MSL) 623.1 to 633.1 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
07/17/12	NA	6.38	11.75	0.00	5.37	---	628.84	6.47	
02/04/15	NA	6.42		0.00	5.33	-0.04	628.80	6.51	
08/09/17	NA	6.20	11.75	0.00	5.55	0.22	628.86	6.29	turbid, slight odor, good recovery
12/01/17	NA	6.34	11.75	0.00	5.41	-0.14	628.72	6.43	mostly clear but slight sheen, slight petro odor, going dry,
02/20/18	NA	6.32	11.75	0.00	5.43	0.02	628.74	6.41	slightly turbid, no odor, good recovery
05/30/18	NA	5.41	11.75	0.00	6.34	0.91	629.65	5.50	slightly turbid, no odor, good recovery, duplicate taken
11/08/18	NA	6.11	11.75	0.00	5.64	-0.70	628.95	6.20	clear, no odor, good recovery
12/13/18	NA	5.90	12.12	0.00	5.85	0.21	629.16	5.99	slightly turbid, petro odor, good recovery
07/26/19	NA	6.07	11.75	0.00	5.68	-0.17	628.99	6.16	turbid, no odor, good recovery, dup taken
04/09/20	NA	5.72	11.75	0.00	6.03	0.35	629.34	5.81	measurement only
04/13/20	NA	5.84	11.75	0.00	5.91	0.23	629.22	5.93	measurement only
04/30/20	NA	5.49	11.75	0.00	6.26	0.23	629.57	5.58	measurement only

PZ-1

Ground Elev.: 634.92 (feet MSL) Screen Interval: 23 to 28 (feet bgs)
TOC Elev.: 634.57 (feet MSL) 606.9 to 611.9 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
02/20/18	NA	23.21	28.25	0.00	5.04	-	611.36	23.56	slightly turbid, no odor, slow recovery
05/30/18	NA	22.67	28.25	0.00	5.58	0.54	611.90	23.02	turbid, no odor, fair recovery
11/08/18	NA	22.31	28.25	0.00	5.94	0.36	612.26	22.66	clear, no odor, moderate recovery
12/13/18	NA	22.44	28.80	0.00	6.36	0.42	612.13	22.74	clear, no odor, good recovery
07/26/19	NA	21.85	28.25	0.00	6.40	0.04	612.72	22.20	clear, no odor, good recovery
04/09/20	NA	24.08	28.25	0.00	4.17	-2.23	610.49	24.43	measurement only
04/13/20	NA	24.05	28.25	0.00	4.20	-2.20	610.52	24.40	measurement only
04/30/20	NA	22.04	28.30	0.00	6.26	2.09	612.53	22.39	measurement only

PZ-2

Ground Elev.: 634.87 (feet MSL) Screen Interval: 40 to 45 (feet bgs)
TOC Elev.: 634.57 (feet MSL) 589.9 to 594.9 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
02/20/18	NA	24.75	44.70	0.00	19.95	-	609.82	25.05	mostly clear, no odor, slow recovery
05/30/18	NA	24.26	44.70	0.00	20.44	0.49	610.31	24.56	clear, no odor, good recovery
11/08/18	NA	23.80	44.70	0.00	20.90	0.46	610.77	24.10	clear, no odor, good recovery
12/13/18	NA	23.94	45.56	0.00	21.62	0.72	610.63	24.29	slightly turbid, no odor, going dry, duplicate taken
07/26/19	NA	23.50	28.30	0.00	4.80	-16.82	611.07	23.80	mostly clear, no odor, slow recovery
04/09/20	NA	22.30	28.30	0.00	6.00	1.20	612.27	22.60	measurement only
04/13/20	NA	22.25	28.30	0.00	6.05	1.25	612.32	22.55	measurement only
04/30/20	NA	23.82	44.70	0.00	20.88	14.88	610.75	24.12	measurement only

Table 2
Water Level Elevations
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

PZ-3

Ground Elev.: 633.93 (feet MSL) Screen Interval: 42.5 to 37.5 (feet bgs)
TOC Elev.: 633.62 (feet MSL) 591.4 to 596.4 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
02/20/18	NA	25.06	41.70	0.00	16.64	-	608.56	25.36	mostly clear, no odor, slow recovery
05/29/18	NA	24.46	41.70	0.00	17.24	0.60	609.16	24.76	turbid, no odor, slow recovery
11/07/18	NA	24.05	41.70	0.00	17.65	0.41	609.57	24.35	clear, no odor, slow recovery, duplicate taken
12/13/18	NA	24.61	42.40	0.00	17.79	0.14	609.01	24.91	turbid, no odor, poor recovery
07/25/19	NA	24.04	41.70	0.00	17.66	-0.13	609.58	24.34	turbid, no odor, slow recovery
04/09/20	NA	24.14	41.70	0.00	17.56	-0.10	609.48	24.44	measurement only
04/13/20	NA	24.51	41.70	0.00	17.19	-0.47	609.11	24.81	measurement only
04/30/20	NA	24.25	41.70	0.00	17.45	-0.11	609.37	24.55	measurement only

PZ-4

Ground Elev.: 633.58 (feet MSL) Screen Interval: 39 to 44 (feet bgs)
TOC Elev.: 633.25 (feet MSL) 589.6 to 594.6 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
02/21/18	NA	28.34	43.55	0.00	15.21	-	604.91	28.67	mostly clear, no odor, slow recovery
03/26/18	NA	28.81	43.55	0.00	14.74	-0.47	604.44	29.14	turbid, no odor, moderate recovery
05/29/18	NA	28.32	43.55	0.00	15.23	0.49	604.93	28.65	turbid, no odor, slow recovery
11/07/18	NA	23.53	43.55	0.00	20.02	4.79	609.72	23.86	clear, no odor, slow recovery
12/13/18	NA	25.31	45.33	0.00	20.02	0.00	607.94	25.64	turbid, no odor, good recovery
07/25/19	NA	23.65	43.55	0.00	19.90	-0.12	609.60	23.98	turbid, no odor, slow recovery
04/09/20	NA	18.80	43.55	0.00	24.75	4.85	614.45	19.13	turbid, no odor, slow recovery
04/13/20	NA	18.91	43.55	0.00	24.64	4.74	614.34	19.24	measurement only
04/30/20	NA	17.92	43.55	0.00	25.63	0.88	615.33	18.25	measurement only

PZ-5

Ground Elev.: 635.21 (feet MSL) Screen Interval: 37 to 42 (feet bgs)
TOC Elev.: 634.97 (feet MSL) 593.2 to 598.2 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
08/22/19	NA	29.68	41.95	0.00	12.27	-	605.29	29.92	mostly clear, slow recovery
09/03/19	NA	29.31	41.95	0.00	12.64	0.37	605.66	29.55	mostly clear, slow recovery
01/31/20	NA	28.72	41.95	0.00	13.23	0.59	606.25	28.96	mostly clear, no odor, moderate recovery, DUP
02/19/20	NA	28.66	41.95	0.00	13.29	0.06	606.31	28.90	slightly turbid, no odor, moderate recovery
04/09/20	NA	28.93	41.95	0.00	13.02	-0.27	606.04	29.17	turbid, no odor, moderate recovery
04/13/20	NA	28.82	41.95	0.00	13.13	-0.16	606.15	29.06	measurement only
04/30/20	NA	27.50	41.95	0.00	14.45	1.43	607.47	27.74	measurement only

PZ-6

Ground Elev.: 636.61 (feet MSL) Screen Interval: 43 to 48 (feet bgs)
TOC Elev.: 636.33 (feet MSL) 588.6 to 593.6 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
01/30/20	NA	32.09	46.80	0.00	14.71		604.24	33.00	well development,
01/31/20	NA	32.34	46.80	0.00	14.46	-0.25	603.99	32.61	clear, no odor, good recovery
02/19/20	NA	32.56	46.80	0.00	14.24	-0.22	603.77	32.83	mostly clear, no odor, good recovery
04/09/20	NA	32.43	46.80	0.00	14.37	0.13	603.90	32.70	slightly turbid, no odor, good recovery, DUP
04/13/20	NA	34.44	46.80	0.00	12.36	-1.88	601.89	34.71	measurement only
04/30/20	NA	31.64	46.80	0.00	15.16	0.79	604.69	31.91	measurement only

TW-1

Ground Elev.: 611.74 (feet MSL) Screen Interval: 4 to 6 (feet bgs)
TOC Elev.: 613.08 (feet MSL) 605.7 to 607.7 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
01/05/18	NA	5.89	7.00	0.00	1.11	-	607.19	4.55	slightly turbid, no odor, poor recovery
02/20/18	NA	3.34	7.00	0.00	3.66	2.55	609.74	2.00	slightly turbid, no odor, moderate recovery
05/29/18	NA	5.05	7.00	0.00	1.95	-1.71	608.03	3.71	turbid, no odor, slow recovery
11/08/18	NA	4.50	7.00	0.00	2.50	0.55	608.58	3.16	clear, no odor, slow recovery
12/13/18	NA	4.73	6.89	0.00	2.16	-0.34	608.35	3.39	clear, no odor, good recovery

TW-2

Ground Elev.: 612.20 (feet MSL) Screen Interval: 4 to 6 (feet bgs)
TOC Elev.: 613.41 (feet MSL) 606.2 to 608.2 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
01/05/18	NA	5.64	6.90	0.00	1.26	-	607.77	4.42	slightly turbid, no odor, poor recovery
02/20/18	NA	3.02	6.90	0.00	3.88	2.62	610.39	1.80	slightly turbid, no odor, moderate recovery
03/26/18	NA	5.71	6.90	0.00	1.19	-2.69	607.70	4.49	turbid, no odor, moderate recovery
05/29/18	NA	4.77	6.90	0.00	2.13	0.94	608.64	3.55	slightly turbid, no odor, slow recovery
11/08/18	NA	4.76	6.90	0.00	2.14	0.01	608.65	3.54	clear, no odor, slow recovery
12/13/18	NA	4.97	6.97	0.00	2.00	-0.14	608.44	3.75	clear, no odor, good recovery

TW-3

Ground Elev.: 612.49 (feet MSL) Screen Interval: 4 to 6 (feet bgs)
TOC Elev.: 613.62 (feet MSL) 606.6 to 608.6 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
01/05/18	NA	5.19	7.10	0.00	1.91	-	608.43	4.06	clear, no odor, poor recovery
02/20/18	NA	2.79	7.10	0.00	4.31	2.40	610.83	1.66	slightly turbid, no odor, moderate recovery
05/29/18	NA	5.27	7.10	0.00	1.83	-2.48	608.35	4.14	slightly turbid, no odor, slow recovery
11/08/18	NA	4.48	7.10	0.00	2.62	0.79	609.14	3.35	clear, no odor, slow recovery
12/13/18	NA	4.86	7.22	0.00	2.36	-0.26	608.76	3.73	clear, no odor, good recovery

TW-4

Ground Elev.: 613.86 (feet MSL) Screen Interval: 2.1 to 5.1 (feet bgs)
TOC Elev.: 617.24 (feet MSL) 606.6 to 608.6 (feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
10/04/18	NA	5.92	8.07	0.00	2.15	-	611.32	2.54	
10/09/18	NA	5.64	8.10	0.00	2.46	0.31	611.60	2.26	
11/01/18	NA	5.88	8.21	0.00	2.33	-0.13	611.36	2.50	
12/13/18	NA	5.86	8.33	0.00	2.47	0.14	611.38	2.48	

Table 2
Water Level Elevations
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

TW-5

Ground Elev.:	613.19	(feet MSL)	Screen Interval:	5.5 to 8.5	(feet bgs)
TOC Elev.:	616.92	(feet MSL)		606.6 to 608.6	(feet MSL)

Date	Depth to Free Product (feet TOC)	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Free Product Thickness (feet)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
10/04/18	NA	8.65	12.25	0.00	3.60	-	608.27	4.92	
10/09/18	NA	8.86	12.25	0.00	3.39	-0.21	608.06	5.13	
11/01/18	NA	8.89	12.25	0.00	3.36	-0.03	608.03	5.16	
12/13/18	NA	9.04	12.25	0.00	3.21	-0.15	607.88	5.31	

Notes:
1. All Monitoring Wells were re-surveyed on August 9, 2017 by Sigma using a Trimle R8 GPS receiver. Monitoring wells MW-14, MW-15, MW-16, TW-1, TW-2, and TW-3 were surveyed in the same manner on January 25, 2018. Piezometers PZ-1 through PZ-4 were surveyed in the same manner on March 5, 2018. Monitoring wells MW-17, TW-4, and TW-5 were surveyed in the same manner on October 25, 2018. Monitoring wells MW-18, MW-19, and MW-20 could not be surveyed due to their location inside the site building. New ground elevations indicate the survey elevations from August 9, 2017, January 25, 2018, or March 5, 2018. Monitoring wells MW-21, MW-22, and MW-23 and piezometers PZ-5 and PZ-6 were surveyed following installation in September 2019 and January 2020.
2. Groundwater levels adjusted to account for floating free product. Density of petroleum hydrocarbon free product assumed to be 0.85.
3. feet MSL = feet above Mean Sea Level
4. feet bgs = feet below ground surface
5. feet TOC = feet below top of casing
6. NA = not applicable

Table 3
Groundwater Analytical Table
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

Well Location:		MW-1				MW-2				MW-3				MW-4		MW-5			NR 140 ES	NR 140 PAL
Date:		10/1/97	10/31/97	12/16/97	1/20/99	10/1/97	10/31/97	12/16/97	1/20/99	10/1/97	10/31/97	12/16/97	1/20/99	12/16/97	1/9/98	12/16/97	1/9/98	1/20/99		
Water Elevation* (feet MSL):		NZ	NZ	NZ	NZ	NZ	NZ	NZ	NZ	NZ	NZ	NZ	NZ	NZ	NZ	NZ	NZ	NZ		
PVOCs & Detected VOCs																				
Benzene	µg/L	<1.6	<1.6	<0.21	<0.32	<0.31	<0.31	<0.21	<0.32	<0.31	<0.31	<0.21	<0.32	<0.21	<0.21	<0.21	<0.21	<0.32	5	0.5
Bromobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Bromodichloromethane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.6	0.06
Bromoform	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.4	0.44
tert-Butylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
sec-Butylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
n-Butylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Carbon Tetrachloride	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	0.5
Chlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Chloroethane	µg/L	<1.6	<1.6	<0.63	<0.13	<0.33	<0.33	<0.63	<0.13	<0.33	<0.33	<0.63	<0.13	<0.63	<0.83	<0.63	<0.63	<0.13	400	80
Chloroform	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	0.6
Chloromethane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30	3
2-Chlorotoluene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
4-Chlorotoluene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Dibromochloromethane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	60	6
1,4-Dichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75	15
1,3-Dichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	600	120
1,2-Dichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	600	60
Dichlorodifluoromethane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,000	200
1,2-Dichloroethane	µg/L	<2.2	<2.2	<0.14	<0.36	<0.44	<0.44	<0.14	<0.36	<0.44	<0.44	<0.14	<0.36	***1.7***	***3.2***	<0.31	<0.14	<0.36	5	0.5
1,1-Dichloroethane	µg/L	<2.4	<2.4	<0.31	<0.34	<0.49	<0.49	<0.31	<0.34	<0.49	<0.49	<0.31	<0.34	<0.31	<0.31	<0.31	<0.31	<0.34	850	85
1,1-Dichloroethene	µg/L	<2.7	<2.7	0.4	***1.1***	<0.54	<0.54	<0.13	<0.39	<0.54	<0.54	<0.13	<0.39	0.43	***2.2***	<0.13	<0.13	<0.39	7	0.7
cis-1,2-Dichloroethene	µg/L	4.4	***7.5***	***8.3***	***8.2***	<0.39	<0.39	<0.32	<0.32	<0.39	<0.39	<0.32	<0.32	5.3	***13***	<0.32	<0.32	<0.32	70	7
trans-1,2-Dichloroethene	µg/L	<2.8	<2.8	0.8	1.3	<0.56	<0.56	<0.11	<0.38	<0.56	<0.56	<0.11	<0.38	1.1	3.5	<0.11	<0.11	<0.38	100	20
1,2-Dichloropropane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	0.5
2,2-Dichloropropane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1,3-Dichloropropane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
trans-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
cis-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Di-isopropyl ether	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
EDB (1,2-Dibromoethane)	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05	0.005
Ethylbenzene	µg/L	<1.8	<1.8	<0.21	<0.34	<0.31	<0.35	<0.21	<0.34	<0.31	<0.35	<0.21	<0.34	<0.21	<0.68	<0.21	<0.68	<0.34	700	140
Hexachlorobutadiene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Isopropylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
p-Isopropyltoluene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Methylene Chloride	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	0.5
Methyl-tert-butyl-ether	µg/L	<1.4	<1.4	<0.21	<0.31	<0.29	<0.29	<0.21	<0.31	<0.29	<0.29	<0.21	<0.31	<0.21	<0.21	<0.21	<0.21	<0.31	60	12
Naphthalene	µg/L	6.0	<3.6	<1.0	<0.88	<0.72	<0.72	<1.0	<0.88	<0.72	<0.72	<1.0	<0.88	<1.0	<1.0	<1.0	<1.0	<0.88	100	10
n-Propylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70	7
Tetrachloroethene (PCE)	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	0.5
Toluene	µg/L	<1.6	<1.6	<1.5	<0.35	<0.32	<0.32	<1.5	<0.35	<0.32	<0.32	<1.5	<0.35	<1.5	<1.5	<1.5	<1.5	<0.35	800	160
1,2,4-Trichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70	14
1,2,3-Trichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1,1,1-Trichloroethane	µg/L	<1.8	<1.8	<0.37	<0.45	<0.36	<0.36	<0.37	<0.45	<0.36	<0.36	<0.37	<0.45	<0.37	<0.37	<0.37	<0.37	<0.45	200	40
1,1,2-Trichloroethane	µg/L	<1.6	<1.6	<0.064	<0.37	<0.32	<1.6	<0.064	<0.37	<0.32	<1.6	<0.064	<0.37	<0.064	<0.064	<0.064	<0.064	<0.37	5	0.5
Trichloroethene (TCE)	µg/L	**100**	**260**	**510**	**540**	**29**	***2.9***	***0.87***	***1.1***	***0.54***	***3.0***	***2.2***	<0.48	**16**	**22**	***2.1***	***1.5***	***4.8***	5	0.5
Trichlorofluoromethane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,490	698
1,2,4-Trimethylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1,3,5-Trimethylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Total Trimethylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480	96
Vinyl Chloride	µg/L	<3.2	<3.2	<0.045	<0.15	<0.63	<0.63	<0.045	<0.15	<0.63	<0.63	<0.045	<0.15	<0.045	<0.045	<0.045	<0.045	<0.15	0.2	0.02
Xylenes, Total	µg/L	<3.6	<3.6	<1.2	<0.66	<0.73	<0.73	<1.2	<0.66	<0.73	<0.73	<1.2	<0.66	<1.2	<1.2	<1.2	<1.2	<0.66	2,000	400
PAHs																				
Acenaphthene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Acenaphthylene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Anthracene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,000	600
Benzo(a)anthracene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Benzo(a)pyrene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Benzo(b)fluoranthene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Benzo(ghi)perylene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Benzo(k)fluoranthene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Chrysene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Dibenzo(a,h)anthracene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Fluoranthene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Indeno(1,2,3-cd)pyrene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1-Methylnaphthalene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
2-Methylnaphthalene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Naphthalene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	10
Phenanthrene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Pyrene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	50
Dissolved Metals																				
Arsenic	µg/L	***4.5***	NA	NA	NA	<2.1	NA	NA	NA	<2.1	NA	NA	NA	NA	NA	NA	NA	NA	10	1
Barium	µg/L	97	NA	NA	NA	69	NA	NA	NA	34	NA	NA	NA	NA	NA	NA	NA	NA	2,000	400
Cadmium	µg/L	***1.1***	NA	NA	NA	<0.043	NA	NA	NA	<0.043	NA	NA	NA	NA	NA	NA	NA	NA	5	0.5
Chromium	µg/L	0.84	NA	NA	NA	0.73	NA	NA	NA	0.32	NA	NA	NA	NA	NA	NA	NA	NA	100	10
Lead	µg/L	<0.73	NA	NA	NA	<0.73	NA	NA	NA	<0.73	NA	NA	NA	NA	NA	NA	NA	NA	15	1.5
Mercury	µg/L	<0.083	NA	NA	NA	<0.083	NA	NA	NA	0.16	NA	NA	NA	NA	NA	NA	NA	NA	2	0.2
Selenium	µg/L	<18	NA	NA	NA	<3.5	NA	NA	NA	<3.5	NA	NA	NA	NA	NA	NA	NA	NA	50	10
Silver	µg/L	<0.3	NA	NA	NA	<0.3	NA	NA	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	50	10
Zinc	µg/L	5600	6400	NA	NA	14	180	NA	NA	290	2000	NA	NA	NA	NA	NA	NA	NA	NS	NS

Notes:
1. NR 140 ES = Wis Admin Code, Ch. NR140 ES
2. NR 140 PAL = Wis Admin Code, Ch. NR140 PAL
3. NS = no standard
4. µg/L = micrograms per liter (parts per billion, ppb)
5. NA = Not Analyzed
6. Lab flags: "J" = Analyte detected between LOD and LOQ
7. Trip blank results:
10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: Methylene chloride reported above LDL
All other VOCs reported below LDL
1/5/18: All VOCs reported below LDL
2/21/19: All VOCs reported below LDL
3/26/18: All VOCs reported below LDL
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: All VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: All VOCs reported below LDL
1/31/20: All VOCs reported below LDL
2/19/20: All VOCs reported below LDL
4/9/20: All VOCs reported below LDL

8. Equipment blank results:
10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: No equipment blank collected
1/5/18: No equipment blank collected
2/21/19: All VOCs reported below LDL
3/26/18: No equipment blank collected
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: Chloroform reported above LDL
Other VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: No equipment blank collected
1/31/20: All ' = Concentration exceeds NR140 ES
2/19/20: All ' = Concentration exceeds NR140 PAL
4/9/20: All VOCs reported below LDL

9. Exceedances
BOLD = Concentration exceeds NR140 ES
10. Special ***ITALICS*** = Concentration exceeds NR140 PAL
* = monitoring well screen submerged below water table
** = not a statistically valid PAL exceedance per NR140.14(3)(c)

ES = Enforcement Standard
PAL = Preventive Action Limit
LOD = Limit of Detection
LOQ = Limit of Quantitation
LDL = Laboratory Detection Limit

11. Groundwater Elevation Notes

NZ = Well casing elevation not surveyed

Table 3
Groundwater Analytical Table
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

Well Location:		MW-6												MW-7											NR 140 ES	NR 140 PAL
Date:		12/16/97	1/9/98	9/24/13	2/4/15	8/9/17	12/1/17	2/20/18	5/29/18	11/7/18	12/13/18	7/25/19	4/9/20	1/9/98	1/20/99	9/24/13	2/4/15	8/9/17	12/1/17	2/21/18	5/29/18	11/7/18	12/12/18	7/25/19	4/9/20		
Water Elevation* (feet MSL):		610.98	611.08	611.89	611.42	611.21	609.98	609.72	611.10	610.94	610.81	611.13	611.31	610.00	609.62	609.80	609.65	609.50	609.31	609.55	609.97	610.33	610.16	610.51	610.24	
PVOCs & Detected VOCs																										
Benzene	µg/L	<0.21	<0.21	<0.24	<0.44	<0.17	<0.17	<0.22	<0.22	<0.22	<0.22	<0.22	<0.33	0.28	<160	<0.24	<4.4	<1.7	<1.7	<2.2	<11	<2.2	<2.2	<2.2	<1.65	5	0.5
Bromobenzene	µg/L	NA	NA	<0.32	<0.48	<0.43	<0.43	<0.44	<0.44	<0.44	<0.44	<0.44	<0.26	NA	NA	<0.32	<4.8	<4.3	<4.3	<4.4	<22	<4.4	<4.4	<4.4	<1.3	NS	NS
Bromodichloromethane	µg/L	NA	NA	<0.37	<0.46	<0.31	<0.31	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	NA	NA	<0.37	<4.6	<3.1	<3.1	<3.3	<16.5	<3.3	<3.3	<3.3	<1.65	0.6	0.06
Bromoform	µg/L	NA	NA	<0.35	<0.46	<0.49	<0.49	<0.45	<0.45	<0.45	<0.45	<0.45	<0.65	NA	NA	<0.35	<4.6	<4.9	<4.9	<4.5	<22.5	<4.5	<4.5	<4.5	<3.25	4.4	0.44
tert-Butylbenzene	µg/L	NA	NA	<0.36	<1.1	<0.39	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	<0.61	NA	NA	<0.36	<11	<3.9	<3.9	<2.5	<12.5	<2.5	<2.5	<2.5	<3.05	NS	NS
sec-Butylbenzene	µg/L	NA	NA	<0.33	<1.2	<0.24	<0.24	<0.79	<0.79	<0.79	<0.79	<0.79	<0.32	NA	NA	<0.33	<12	<2.4	<2.4	<7.9	<39.5	<7.9	<7.9	<7.9	<1.6	NS	NS
n-Butylbenzene	µg/L	NA	NA	<0.35	<1.0	<0.34	<0.34	<0.71	<0.71	<0.71	<0.71	<0.71	<0.28	NA	NA	<0.35	<10	<3.4	<3.4	<7.1	<35.5	<7.1	<7.1	<7.1	<1.4	NS	NS
Carbon Tetrachloride	µg/L	NA	NA	<0.33	<0.65	<0.21	<0.21	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	NA	NA	<0.33	<6.5	<2.1	<2.1	<3.1	<15.5	<3.1	<3.1	<3.1	<1.55	5	0.5
Chlorobenzene	µg/L	NA	NA	<0.24	<0.46	<0.27	<0.27	<0.26	<0.26	<0.26	<0.26	<0.26	<0.39	NA	NA	<0.24	<4.6	<2.7	<2.7	<2.6	<13	<2.6	<2.6	<2.6	<1.95	NS	NS
Chloroethane	µg/L	<0.63	<0.63	<0.63	<0.65	<0.5	<0.5	<0.61	<0.61	<0.61	<0.61	<0.61	<1.1	<0.68	<65	<0.63	<6.5	<5.0	<5.0	<6.1	<30.5	<6.1	<6.1	<6.1	<5.5	400	80
Chloroform	µg/L	NA	NA	NA	<0.43	<0.96	<0.96	<0.26	<0.26	<0.26	<0.26	<0.26	<0.44	NA	NA	NA	<4.3	<9.6	<9.6	<2.6	<13	<2.6	<2.6	<2.6	<2.2	6	0.6
Chloromethane	µg/L	NA	NA	NA	<1.9	<1.3	<1.3	<0.54	<0.54	<0.54	<0.54	<0.54	<0.8	NA	NA	NA	<19	<13	<13	<5.4	<27	<5.4	<5.4	<5.4	<4	30	3
2-Chlorotoluene	µg/L	NA	NA	NA	<0.4	<0.36	<0.36	<0.31	<0.31	<0.31	<0.31	<0.31	<0.32	NA	NA	NA	<4.0	<3.6	<3.6	<3.1	<15.5	<3.1	<3.1	<3.1	<1.6	NS	NS
4-Chlorotoluene	µg/L	NA	NA	NA	<0.63	<0.35	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	<0.3	NA	NA	NA	<6.3	<3.5	<3.5	<2.6	<13	<2.6	<2.6	<2.6	<1.5	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	NA	NA	NA	<1.4	<1.88	<1.88	<2.96	<2.96	<2.96	<2.96	<2.96	<0.82	NA	NA	NA	<14	<18.8	<18.8	<29.6	<148	<29.6	<29.6	<29.6	<4.1	0.2	0.02
Dibromochloromethane	µg/L	NA	NA	NA	<0.45	<0.45	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	<0.23	NA	NA	NA	<4.5	<4.5	<4.5	<2.2	<11	<2.2	<2.2	<2.2	<1.15	60	6
1,4-Dichlorobenzene	µg/L	NA	NA	NA	<0.49	<0.42	<0.42	<0.7	<0.7	<0.7	<0.7	<0.7	<0.36	NA	NA	NA	<4.9	<4.2	<4.2	<7.0	<35	<7.0	<7.0	<7.0	<1.8	75	15
1,3-Dichlorobenzene	µg/L	NA	NA	NA	<0.52	<0.45	<0.45	<0.85	<0.85	<0.85	<0.85	<0.85	<0.31	NA	NA	NA	<5.2	<4.5	<4.5	<8.5	<42.5	<8.5	<8.5	<8.5	<1.55	600	120
1,2-Dichlorobenzene	µg/L	NA	NA	NA	<0.46	<0.34	<0.34	<0.86	<0.86	<0.86	<0.86	<0.86	<0.32	NA	NA	NA	<4.6	<3.4	<3.4	<8.6	<43	<8.6	<8.6	<8.6	<1.6	600	60
Dichlorodifluoromethane	µg/L	NA	NA	NA	<0.87	<0.38	<0.38	<0.32	<0.32	<0.32	<0.32	<0.32	<0.45	NA	NA	NA	<8.7	<3.8	<3.8	<3.2	<16	<3.2	<3.2	<3.2	<2.25	1,000	200
1,2-Dichloroethane	µg/L	<0.14	<0.14	<0.41	<0.54	<0.45	<0.45	<0.25	<0.25	<0.25	<0.25	<0.25	<0.39	0.21	<180	<0.41	<5.4	<4.5	<4.5	<2.5	<12.5	<2.5	<2.5	<2.5	<1.95	5	0.5
1,1-Dichloroethane	µg/L	4.0	2.4	1.84	3.12	1.88	1.69	1.26	1.46	0.85 J	2.5	1.55	1.61	18	<170	2.4	12.9	19.1	14.4	9.5 J	<18	21.7	16.9	17.5	32	850	85
1,1-Dichloroethene	µg/L	<0.13	<0.13	<0.4	<0.65	<0.46	<0.46	<0.42	<0.42	<0.42	<0.42	<0.42	<0.5	***5.0***	<200	***1.32***	<6.5	<4.6	<4.6	<4.2	<21	<4.2	***4.8 J***	<4.2	***4.6J***	7	0.7
cis-1,2-Dichloroethene	µg/L	***26***	***18***	***46***	***35***	***28.7***	***28.3***	***17.6***	***25.2***	***19.3***	***42***	***31.2***	***25***	**340**	**520**	2.86	**530**	**490**	**470**	**450**	**350**	**302**	**390**	**350**	**640**	70	7
trans-1,2-Dichloroethene	µg/L	2.0	1.8	0.94	1.07	2.06	0.62 J	0.71 J	0.36 J	0.67 J	1.02 J	0.61 J	0.47J	**610**	**1000**	0.99	**820**	**690**	**740**	**670**	**257**	**190**	**330**	**308**	**620**	100	20
1,2-Dichloropropane	µg/L	NA	NA	<0.32	<0.43	<0.39	<0.39	<0.44	<0.44	<0.44	<0.44	<0.44	<0.38	NA	NA	<0.32	<4.3	<3.9	<3.9	<4.4	<22	<4.4	<4.4	<4.4	<1.9	5	0.5
2,2-Dichloropropane	µg/L	NA	NA	<0.36	<3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.36	<31	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1,3-Dichloropropane	µg/L	NA	NA	<0.33	<0.42	<0.49	<0.49	<0.3	<0.3	<0.3	<0.3	<0.3	<0.35	NA	NA	<0.33	<4.2	<4.9	<4.9	<3.0	<15	<3.0	<3.0	<3.0	<1.75	NS	NS
trans-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	<0.42	<0.42	<0.32	<0.32	<0.32	<0.32	<0.32	<0.3	NA	NA	NA	NA	<4.2	<4.2	<3.2	<16	<3.2	<3.2	<3.2	<1.5	NS	NS
cis-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	<0.21	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	<0.36	NA	NA	NA	NA	<2.1	<2.1	<2.6	<13	<2.6	<2.6	<2.6	<1.8	NS	NS
Di-isopropyl ether	µg/L	NA	NA	<0.23	<0.44	<0.26	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	<0.34	NA	NA	<0.23	<4.4	<2.6	<2.6	<2.1	<10.5	<2.1	<2.1	<2.1	<1.7	NS	NS
EDB (1,2-Dibromoethane)	µg/L	NA	NA	<0.44	<0.63	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.24	NA	NA	<0.44	<6.3	<3.4	<3.4	<3.4	<17	<3.4	<3.4	<3.4	<1.2	0.05	0.005
Ethylbenzene	µg/L	<0.21	<0.68	<0.55	<0.71	<0.2	<0.2	<0.26	<0.26	<0.26	<0.26	<0.26	<0.32	<0.68	<170	<0.55	<7.1	<2.0	<2.0	<2.6	<13	<2.6	<2.6	<2.6	<1.6	700	140
Hexachlorobutadiene	µg/L	NA	NA	<1.5	<2.2	<1.47	<1.47	<1.34	<1.34	<1.34	<1.34	<1.34	<0.72	NA	NA	<1.5	<22	<14.7	<14.7	<13.4	<67	<13.4	<13.4	<13.4	<3.6	NS	NS
Isopropylbenzene	µg/L	NA	NA	<0.3	<0.82	<0.29	<0.29	<0.78	<0.78	<0.78	<0.78	<0.78	<0.32	NA	NA	<0.3	<8.2	<2.9	<2.9	<7.8	<39	<7.8	<7.8	<7.8	<1.6	NS	NS
p-Isopropyltoluene	µg/L	NA	NA	<0.31	<1.1	<0.28	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.47	NA	NA	<0.31	<11	<2.8	<2.8	<2.4	<12	<2.4	<2.4	<2.4	<2.35	NS	NS
Methylene Chloride	µg/L	NA	NA	<0.5	<1.3	<0.94	<0.94	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	NA	NA	<0.5	<13	<9.4	<9.4	<13.2	<66	<13.2	<13.2	<13.2	<6.6	5	0.5
Methyl-tert-butyl-ether	µg/L	<0.21	<0.21	<0.23	<1.1	<0.82	<0.82	<0.28	<0.28	<0.28	<0.28	<0.28	<0.47	<0.21	<160	<0.23	<11	<8.2	<8.2	<2.8	<14	<2.8	<2.8	<2.8	<2.35	60	12
Naphthalene	µg/L	<1.0	<1.0	<1.7	<1.6	<2.17	<2.17	<2.1	<2.1	<2.1	<2.1	<2.1	<1.1	<1.0	<440	<1.7	<16	<21.7	<21.7	<21	<105	<21	<21	<21	<5.5	100	10
n-Propylbenzene	µg/L	NA	NA	<0.25	<0.77	<0.19	<0.19	<0.61	<0.61	<0.61	<0.61	<0.61	<0.33	NA	NA	<0.25	<7.7	<1.9	<1.9	<6.1	<30.5	<6.1	<6.1	<6.1	<1.65	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	NA	NA	<0.45	<0.52	<0.69	<0.69	<0.3	<0.3	<0.3	<0.3	<0.3	<0.37	NA	NA	<0.45	<5.2	<6.9	<6.9	<3.0	<15	<3.0	<3.0	<3.0	<1.85	0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	NA	NA	<0.33	<0.48	<0.47	<0.47	<0.35	<0.35	<0.35	<0.35	<0.35	<0.88	NA	NA	<0.33	<4.8	<4.7	<4.7	<3.5	<17.5	<3.5	<3.5	<3.5	<4.4	70	7
Tetrachloroethene (PCE)	µg/L	NA	NA	<0.33	<0.74	<0.48	<0.48	<0.38	<0.38	<0.38	<0.38	<0.38	<0.33	NA	NA	<0.33	<7.4	<4.8	<4.8	<3.8	<19	<3.8	<3.8	<3.8	<1.65	5	0.5
Toluene	µg/L	<1.5	<1.5	<0.69	<0.44	<0.67	<0.67	0.2 J	0.2 J	<0.19	<0.19	<0.19	<0.26	<1.5	<180	<0.69	<4.4	<6.7	<6.7	<1.9	<9.5	<1.9	<1.9	<1.9	<1.3	800	160
1,2,4-Trichlorobenzene	µg/L	NA	NA	<0.98	<1.7	<1.29	<1.29	<1.15	<1.15	<1.15	<1.15	<1.15	<0.44	NA	NA	<0.98	<17	<12.9	<12.9	<11.5	<57.5	<11.5	<11.5	<11.5	<2.2	70	14
1,2,3-Trichlorobenzene	µg/L	NA	NA	<1.8	2.7	<0.83	<0.83	<1.71	<1.71	<1.71	<1.71	<1.71	<1	NA	NA	<1.8	<27	<8.3	<8.3	<17.1	<85.5	<17.1	<17.1	<17.1	<5	NS	NS
1,1,1-Trichloroethane	µg/L	<0.37	<0.37	0.82	2.66	<0.35	<0.35	0.5 J	0.79 J	<0.33	0.72 J	<0.33	<0.3	<0.37	<230	6.5	<8.4	<3.5	<3.5	<3.3	<16.5	<3.3	<3.3	<3.3	<1.5	200	40
1,1,2-Trichloroethane	µg/L	<0.064	<0.064	<0.34	<0.48	<0.65	<0.65	<0.42	<0.42	<0.42	<0.42	<0.42	<0.36	<0.064	<190	<0.34	<4.8	<6.5	<6.5	<4.2	<21	<4.2	<4.2	<4.2	<1.8	5	0.5
Trichloroethene (TCE)	µg/L	**6.4**	***2.6***	***4.1***	***4.4***	***1.77***	***1.59***	***0.66 J***	***1.61***	***0.52 J***	***0.99***	***0.78 J***	***2.55***	**390**	<240	**54**	**10.3**	**11.7 J**	**15.9**	<3.0	<15	<3.0	<3.0	<3.0	**23.7**	5	0.5
Trichlorofluoromethane	µg/L	NA	NA	<0.71	<0.87	<0.64	<0.64	<0.35	<0.35	<0.35	<0.35	<0.35	<0.42	NA	NA	<0.71	<8.7	<6.4	<6.4	<3.5	<17.5	<3.5	<3.5	<3.5	<2.1	3,490	698
1,2,4-Trimethylbenzene	µg/L	NA	NA	<2.2	<1.6	<1.14	<1.14	<0.8	<0.8	<0.8	<0.8	<0.8	<0.3	NA	NA	<2.2	<16	<11.4	<11.4	<8.0	<40	<8.0	<8.0	<8.0	1.95J	NS	NS
1,3,5-Trimethylbenzene	µg/L	NA	NA	<1.4	<1.5	<0.91	<0.91	<0.63	<0.63	<0.63	<0.63	<0.63	<0.32	NA	NA	<1.4	<15	<9.1	<9.1	<6.3	<31.5	<6.3	<6.3	<6.3	<1.6	NS	NS
Total Trimethylbenzene	µg/L	NA	NA	<2.2	<3.1	<2.05	<2.05	<1.43	<1.43	<1.43	<1.43	<1.43	<0.62	NA	NA	<2.2	<31	<20.5	<20.5	<14.3	<71.5	<14.3	<14.3	<14.3	1.95J	480	96
Vinyl Chloride	µg/L	**17**	**13**	**5.4**	**4.4**	**6.3**	**7.6**	**8.3**	**8.3**	**10.1**	**9.1**	**4.8**	**1.24**	**3.0**	<75	**0.89**	**27.9**	**61**	**36**	**24.9**	**121**	**185**	**108**	**139**	**91**	0.2	0.02
Xylenes, Total	µg/L	<1.2	<1.2	<0.69	<3.1	<1.95	<1.95	<0.72	<0.72	<0.72	<0.72	<0.72	<1.48	<1.2	<330	<0.69	<31	<19.5	<19.5	<7.2	<73	<7.2	<7.2	<7.2	<7.4	2,000	400
PAHs																										
Acenaphthene	µg/L	NA	NA	NA	<0.02	NA	NA	NA	NA	0.0092 J	NA	<0.0094	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	<0.008	NA	NA	NA	NS	NS
Acenaphthylene	µg/L	NA	NA	NA	<0.021	NA	NA	NA	NA	<0.009	NA	<0.0156	NA	NA	NA	NA	<.021	NA	NA	NA	NA	<0.009	NA	NA	NA	NS	NS
Anthracene	µg/L	NA	NA	NA	<0.02	NA	NA	NA	NA	<0.009	NA	<0.015	NA	NA	NA	NA	0.047	NA	NA	NA	NA	<0.009	NA	NA	NA	3,000	600
Benzo(a)anthracene	µg/L	NA	NA	NA	0.0261	NA	NA	NA	NA	0.032 J	NA	<0.0131	NA	NA	NA	NA	0.08	NA	NA	NA	NA	<0.017	NA	NA	NA	NS	NS
Benzo(a)pyrene	µg/L	NA	NA	NA	<0.019	NA	NA	NA	NA	<0.017	NA	<0.0167	NA	NA	NA	NA	***0.056***	NA	NA	NA	NA	<0.017	NA	NA	NA	0.2	0.02
Benzo(b)fluoranthene	µg/L	NA	NA	NA	***0.0233***	NA	NA	NA	NA	***0.0213 J***	NA	<0.016	NA	NA	NA	NA	***0.073***	NA	NA	NA	NA	<0.02	NA	NA	NA	0.2	0.02
Benzo(ghi)perylene	µg/L	NA	NA	NA	<0.024	NA	NA	NA	NA	<0.011	NA	<0.0142	NA	NA	NA	NA	0.043	NA	NA	NA	NA	<0.011	NA	NA	NA	NS	NS
Benzo(k)fluoranthene	µg/L	NA	NA	NA	<0.018	NA	NA	NA	NA	0.0165 J	NA	<0.0146	NA	NA	NA	NA	0.0298	NA	NA	NA	NA	<0.014	NA	NA	NA	NS	NS
Chrysene	µg/L	NA	NA	NA	0.0182	NA	NA	NA	NA	***0.0252 J***	NA	<0.0157	NA	NA	NA	NA	***0.065***	NA	NA	NA	NA	<0.019	NA	NA	NA	0.2	0.02
Dibenzo(a,h)anthracene	µg/L	NA	NA	NA	<0.025	NA	NA	NA	NA	<0.01	NA	<0.0173	NA	NA	NA	NA	<0.025	NA	NA	NA	NA	<0.01	NA	NA	NA	NS	NS
Fluoranthene	µg/L	NA	NA	NA	0.033	NA	NA	NA	NA	<0.031	NA	0.0103 J	NA	NA	NA	NA	0.153	NA	NA	NA	NA	<0.031	NA	NA	NA	400	80
Fluorene	µg/L	NA	NA	NA	<0.017	NA	NA	NA	NA	<0.011	NA	<0.0079	NA	NA	NA	NA	<0.017	NA	NA	NA	NA	<0.011	NA	NA	NA	400	80
Indeno(1,2,3-cd)pyrene	µg/L	NA	NA	NA	<0.018	NA	NA	NA	NA	<0.012	NA	<0.0121	NA	NA	NA	NA	0.035	NA	NA	NA	NA	<0.012	NA	NA	NA	NS	NS
1-Methylnaphthalene	µg/L	NA	NA	NA	<0.018	NA	NA	NA	NA	<0.0239	NA	<0.0191	NA	NA	NA	NA	<0.018	NA	NA	NA	NA	<0.0239	NA	NA	NA	NS	NS
2-Methylnaphthalene	µg/L	NA	NA	NA	<0.017	NA	NA	NA	NA	<0.0236	NA	0.0209 J	NA	NA	NA	NA	0.0199	NA	NA	NA	NA	<0.0236	NA	NA	NA	NS	NS
Naphthalene	µg/L	NA	NA	NA	<0.018	NA	NA	NA	NA	0.0283 J	NA	<0.026	NA	NA	NA	NA	0.0236	NA	NA	NA	NA	0.0235 J	NA	NA	NA	100	10
Phenanthrene	µg/L	NA	NA	NA	0.019	NA	NA	NA	NA	<0.025	NA	<0.0143	NA	NA	NA	NA	0.044	NA	NA	NA	NA	<0.025	NA	NA	NA	NS	NS
Pyrene	µg/L	NA	NA	NA	0.0285	NA	NA	NA	NA	<0.03	NA	<0.0121	NA	NA	NA	NA	0.131	NA	NA	NA	NA	<0.03	NA	NA	NA	250	50
Dissolved Metals																										
Arsenic	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.7 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.8 J	NA	NA	NA	10	1
Barium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,000	400
Cadmium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.4	<0.4	***0.744 J***	***NA***	5	0.5
Chromium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	<3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3.9	NA	NA	NA	100	10
Lead	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.8	NA	NA	NA	15	1.5
Mercury	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	2	0.2
Selenium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	10
Silver	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	<8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<8.4	NA	NA	NA	50	10
Zinc	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	36.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<7.0	8.0 J	NA	NA	NS	NS

Notes:
1. NR 140 ES = Wis Admin Code, Ch. NR140 ES
2. NR 140 PAL = Wis Admin Code, Ch. NR140 PAL
3. NS = no standard
4. µg/L = micrograms per liter (parts per billion, ppb)
5. NA = Not Analyzed
6. Lab flags: "J" = Analyte detected between LOD and LOQ
7. Trip blank results:
10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: Methylene chloride reported above LDL
All other VOCs reported below LDL
1/5/18: All VOCs reported below LDL
2/21/19: All VOCs reported below LDL
3/26/18: All VOCs reported below LDL
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: All VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: No equipment blank collected
1/5/18: No equipment blank collected
2/21/19: All VOCs reported below LDL
3/26/18: No equipment blank collected
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
8. Equipment blank results:
10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: No equipment blank collected
1/5/18: No equipment blank collected
2/21/19: All VOCs reported below LDL
3/26/18: No equipment blank collected
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: Chloroform reported above LDL
Other VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: No equipment blank collected
1/31/20: All '= Concentration exceeds NR140 ES
2/19/20: All '= Concentration exceeds NR140 PAL
4/9/20: All VOCs reported below LDL
9. Exceedances
BOLD = Concentration exceeds NR140 ES
10. Special ***ITALICS*** = Concentration exceeds NR140 PAL
* = monitoring well screen submerged below water table
** = not a statistically valid PAL exceedance per NR140.14(3)(c)

ES = Enforcement Standard
PAL = Preventive Action Limit
LOD = Limit of Detection
LOQ = Limit of Quantitation
LDL = Laboratory Detection Limit

11. Groundwater Elevation Notes
NZ = Well casing elevation not surveyed

Table 3
Groundwater Analytical Table
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

Well Location:		MW-8											MW-9									NR 140 ES	NR 140 PAL
Date:		1/9/98	1/20/99	9/24/13	2/4/15	8/9/17	12/1/17	2/20/18	5/29/18	11/7/18	12/13/18	7/25/19	1/9/98	10/3/13	8/9/17	12/1/17	2/21/18	5/29/18	11/7/18	12/13/18	7/25/19		
Water Elevation* (feet MSL):		NZ	NZ	NZ	NZ	610.57	609.77	609.80	610.99	610.81	610.77	611.14	NZ	NZ	609.40	608.04	610.10	611.18	610.55	609.99	609.91		
PVOCs & Detected VOCs																							
Benzene	µg/L	<0.21	<160	0.24	<0.44	<0.17	<0.17	<0.22	<0.22	<0.22	<0.22	<0.22	***0.83***	<0.24	<0.17	<0.17	<0.22	<0.22	<0.22	<0.22	<0.22	5	0.5
Bromobenzene	µg/L	NA	NA	<0.32	<0.48	<0.43	<0.43	<0.44	<0.44	<0.44	<0.44	<0.44	NA	<0.32	<0.43	<0.43	<0.44	<0.44	<0.44	<0.44	<0.44	NS	NS
Bromodichloromethane	µg/L	NA	NA	<0.37	<0.46	<0.31	<0.31	<0.33	<0.33	<0.33	<0.33	<0.33	NA	<0.37	<0.31	<0.31	<0.33	<0.33	<0.33	<0.33	<0.33	0.6	0.06
Bromoform	µg/L	NA	NA	<0.35	<0.46	<0.49	<0.49	<0.45	<0.45	<0.45	<0.45	<0.45	NA	<0.35	<0.49	<0.49	<0.45	<0.45	<0.45	<0.45	<0.45	4.4	0.44
tert-Butylbenzene	µg/L	NA	NA	<0.36	<1.1	<0.39	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	NA	<0.36	<0.39	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	NS	NS
sec-Butylbenzene	µg/L	NA	NA	<0.33	<1.2	<0.24	<0.24	<0.79	<0.79	<0.79	<0.79	<0.79	NA	<0.33	<0.24	<0.24	<0.79	<0.79	<0.79	<0.79	<0.79	NS	NS
n-Butylbenzene	µg/L	NA	NA	<0.35	<1.0	<0.34	<0.34	<0.71	<0.71	<0.71	<0.71	<0.71	NA	<0.35	<0.34	<0.34	<0.71	<0.71	<0.71	<0.71	<0.71	NS	NS
Carbon Tetrachloride	µg/L	NA	NA	<0.33	<0.65	<0.21	<0.21	<0.31	<0.31	<0.31	<0.31	<0.31	NA	<0.33	<0.21	<0.21	<0.31	<0.31	<0.31	<0.31	<0.31	5	0.5
Chlorobenzene	µg/L	NA	NA	<0.24	<0.46	<0.27	<0.27	<0.26	<0.26	<0.26	<0.26	<0.26	NA	<0.24	<0.27	<0.27	<0.26	<0.26	<0.26	<0.26	<0.26	NS	NS
Chloroethane	µg/L	6.2	<65	<0.63	<0.65	<0.5	<0.5	<0.61	<0.61	<0.61	<0.61	<0.61	<0.69	<0.63	<0.5	<0.5	<0.61	<0.61	<0.61	<0.61	<0.61	400	80
Chloroform	µg/L	NA	NA	NA	<0.43	<0.96	<0.96	0.37 J	<0.26	<0.26	<0.26	0.40 J	NA	NA	<0.96	<0.96	<0.26	<0.26	<0.26	<0.26	<0.26	6	0.6
Chloromethane	µg/L	NA	NA	NA	<1.9	<1.3	<1.3	<0.54	<0.54	<0.54	<0.54	<0.54	NA	NA	<1.3	<1.3	<0.54	<0.54	<0.54	<0.54	<0.54	30	3
2-Chlorotoluene	µg/L	NA	NA	NA	<0.4	<0.36	<0.36	<0.31	<0.31	<0.31	<0.31	<0.31	NA	NA	<0.36	<0.36	<0.31	<0.31	<0.31	<0.31	<0.31	NS	NS
4-Chlorotoluene	µg/L	NA	NA	NA	<0.63	<0.35	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	NA	NA	<0.35	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	NA	NA	NA	<1.4	<1.88	<1.88	<2.96	<2.96	<2.96	<2.96	<2.96	NA	NA	<1.88	<1.88	<2.96	<2.96	<2.96	<2.96	<2.96	0.2	0.02
Dibromochloromethane	µg/L	NA	NA	NA	<0.45	<0.45	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	NA	NA	<0.45	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	60	6
1,4-Dichlorobenzene	µg/L	NA	NA	NA	<0.49	<0.42	<0.42	<0.7	<0.7	<0.7	<0.7	<0.7	NA	NA	<0.42	<0.42	<0.7	<0.7	<0.7	<0.7	<0.7	75	15
1,3-Dichlorobenzene	µg/L	NA	NA	NA	<0.52	<0.45	<0.45	<0.85	<0.85	<0.85	<0.85	<0.85	NA	NA	<0.45	<0.45	<0.85	<0.85	<0.85	<0.85	<0.85	600	120
1,2-Dichlorobenzene	µg/L	NA	NA	NA	<0.46	<0.34	<0.34	<0.86	<0.86	<0.86	<0.86	<0.86	NA	NA	<0.34	<0.34	<0.86	<0.86	<0.86	<0.86	<0.86	600	60
Dichlorodifluoromethane	µg/L	NA	NA	NA	<0.87	<0.38	<0.38	<0.32	<0.32	<0.32	<0.32	<0.32	NA	NA	<0.38	<0.38	<0.32	<0.32	<0.32	<0.32	<0.32	1,000	200
1,2-Dichloroethane	µg/L	***1.6***	<180	<0.41	<0.54	<0.45	<0.45	<0.25	<0.25	<0.25	<0.25	<0.25	<0.14	<0.41	<0.45	<0.45	<0.25	<0.25	<0.25	<0.25	<0.25	5	0.5
1,1-Dichloroethane	µg/L	***310***	***280***	11.6	7.5	24.9	25.7	15	11.4	9.0	9.6	23.4	4.3	<0.3	1.22 J	2.03	3.3	0.82 J	1.45	1.53	0.64 J	850	85
1,1-Dichloroethene	µg/L	**13**	<200	***4.6***	<0.65	<0.46	***0.86 J***	<0.42	<0.42	<0.42	<0.42	0.56 J	<0.13	<0.4	<0.46	<0.46	<0.42	<0.42	<0.42	<0.42	<0.42	7	0.7
cis-1,2-Dichloroethene	µg/L	**690**	**620**	**560**	2.57	6.6	6.2	4.4	4.2	4.5	4.7	***10.4***	0.59	<0.38	<0.41	<0.41	0.8 J	<0.37	0.53 J	<0.37	<0.37	70	7
trans-1,2-Dichloroethene	µg/L	***31***	<190	**900**	1.25	4.7	3.9	2.65	2.0	3.16	3.14	6.2	<0.11	<0.35	<0.35	<0.35	<0.34	<0.34	<0.34	<0.34	<0.34	100	20
1,2-Dichloropropane	µg/L	NA	NA	<0.32	<0.43	<0.39	<0.39	<0.44	<0.44	<0.44	<0.44	<0.44	NA	<0.32	<0.39	<0.39	<0.44	<0.44	<0.44	<0.44	<0.44	5	0.5
2,2-Dichloropropane	µg/L	NA	NA	<0.36	<3.1	NA	NA	NA	NA	NA	NA	NA	NA	<0.36	NA	NA	NA	NA	NA	NA	NA	NS	NS
1,3-Dichloropropane	µg/L	NA	NA	<0.33	<0.42	<0.49	<0.49	<0.3	<0.3	<0.3	<0.3	<0.3	NA	<0.33	<0.49	<0.49	<0.3	<0.3	<0.3	<0.3	<0.3	NS	NS
trans-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	<0.42	<0.42	<0.32	<0.32	<0.32	<0.32	<0.32	NA	NA	<0.42	<0.42	<0.32	<0.32	<0.32	<0.32	<0.32	NS	NS
cis-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	<0.21	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	NA	NA	<0.21	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	NS	NS
Di-isopropyl ether	µg/L	NA	NA	<0.23	<0.44	<0.26	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	NA	<0.23	<0.26	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	NS	NS
EDB (1,2-Dibromoethane)	µg/L	NA	NA	<0.44	<0.63	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	NA	<0.44	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	0.05	0.005
Ethylbenzene	µg/L	<0.68	<170	<0.55	<0.71	<0.2	<0.2	<0.26	<0.26	<0.26	<0.26	<0.26	<0.68	<0.55	<0.2	<0.2	<0.26	<0.26	<0.26	<0.26	<0.26	700	140
Hexachlorobutadiene	µg/L	NA	NA	<1.5	<2.2	<1.47	<1.47	<1.34	<1.34	<1.34	<1.34	<1.34	NA	<1.5	<1.47	<1.47	<1.34	<1.34	<1.34	<1.34	<1.34	NS	NS
Isopropylbenzene	µg/L	NA	NA	<0.3	<0.82	<0.29	<0.29	<0.78	<0.78	<0.78	<0.78	<0.78	NA	<0.3	<0.29	<0.29	<0.78	<0.78	<0.78	<0.78	<0.78	NS	NS
p-Isopropyltoluene	µg/L	NA	NA	<0.31	<1.1	<0.28	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	NA	<0.31	<0.28	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	NS	NS
Methylene Chloride	µg/L	NA	NA	<0.5	<1.3	<0.94	<0.94	<1.32	<1.32	<1.32	<1.32	<1.32	NA	<0.5	<0.94	<0.94	<1.32	<1.32	<1.32	<1.32	<1.32	5	0.5
Methyl-tert-butyl-ether	µg/L	<0.21	<160	<0.23	<1.1	<0.82	<0.82	<0.28	<0.28	<0.28	<0.28	<0.28	<0.21	<0.23	<0.82	<0.82	<0.28	<0.28	<0.28	<0.28	<0.28	60	12
Naphthalene	µg/L	<1.0	<440	<1.7	<1.6	<2.17	<2.17	<2.1	<2.1	<2.1	<2.1	<2.1	4.1	<1.7	<2.17	<2.17	<2.1	<2.1	<2.1	<2.1	<2.1	100	10
n-Propylbenzene	µg/L	NA	NA	<0.25	<0.77	<0.19	<0.19	<0.61	<0.61	<0.61	<0.61	<0.61	NA	<0.25	<0.19	<0.19	<0.61	<0.61	<0.61	<0.61	<0.61	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	NA	NA	<0.45	<0.52	<0.69	<0.69	<0.3	<0.3	<0.3	<0.3	<0.3	NA	<0.45	<0.69	<0.69	<0.3	<0.3	<0.3	<0.3	<0.3	0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	NA	NA	<0.33	<0.48	<0.47	<0.47	<0.35	<0.35	<0.35	<0.35	<0.35	NA	<0.33	<0.47	<0.47	<0.35	<0.35	<0.35	<0.35	<0.35	70	7
Tetrachloroethene (PCE)	µg/L	NA	NA	<0.33	<0.74	<0.48	<0.48	<0.38	<0.38	<0.38	<0.38	<0.38	NA	<0.33	<0.48	<0.48	<0.38	<0.38	<0.38	<0.38	<0.38	5	0.5
Toluene	µg/L	<1.5	<180	<0.69	<0.44	<0.67	<0.67	<0.19	<0.19	<0.19	<0.19	<0.19	<1.5	<0.69	<0.67	<0.67	0.27 J	<0.19	<0.19	<0.19	<0.19	800	160
1,2,4-Trichlorobenzene	µg/L	NA	NA	<0.98	<1.7	<1.29	<1.29	<1.15	<1.15	<1.15	<1.15	<1.15	NA	<0.98	<1.29	<1.29	<1.15	<1.15	<1.15	<1.15	<1.15	70	14
1,2,3-Trichlorobenzene	µg/L	NA	NA	<1.8	<2.7	<0.83	<0.83	<1.71	<1.71	<1.71	<1.71	<1.71	NA	<1.8	<0.83	<0.83	<1.71	<1.71	<1.71	<1.71	<1.71	NS	NS
1,1,1-Trichloroethane	µg/L	***84***	<230	<0.33	4.5	13.2	12.9	9.6	9.9	15	15.9	16.7	0.97	0.92	1.28	1.11	0.81 J	1.04 J	1.44	1.57	1.09	200	40
1,1,2-Trichloroethane	µg/L	***0.51***	<190	<0.34	<0.48	<0.65	<0.65	<0.42	<0.42	<0.42	<0.42	<0.42	<0.064	<0.34	<0.65	<0.65	<0.42	<0.42	<0.42	<0.42	<0.42	5	0.5
Trichloroethene (TCE)	µg/L	**140**	<240	**7.3**	**37**	**76**	**75**	**59**	**64**	**79**	**86**	**75**	***1.3***	0.43	***0.57 J***	<0.45	***0.95***	***1.47***	***2.59***	***1.35***	***0.68 J***	5	0.5
Trichlorofluoromethane	µg/L	NA	NA	<0.71	<0.87	<0.64	<0.64	<0.35	<0.35	<0.35	<0.35	<0.35	NA	<0.71	<0.64	<0.64	<0.35	<0.35	<0.35	<0.35	<0.35	3,490	698
1,2,4-Trimethylbenzene	µg/L	NA	NA	<2.2	<1.6	<1.14	<1.14	<0.8	<0.8	<0.8	<0.8	<0.8	NA	<2.2	<1.14	<1.14	<0.8	<0.8	<0.8	<0.8	<0.8	NS	NS
1,3,5-Trimethylbenzene	µg/L	NA	NA	<1.4	<1.5	<0.91	<0.91	<0.63	<0.63	<0.63	<0.63	<0.63	NA	<1.4	<0.91	<0.91	<0.63	<0.63	<0.63	<0.63	<0.63	NS	NS
Total Trimethylbenzene	µg/L	NA	NA	<2.2	<3.1	<2.05	<2.05	<1.43	<1.43	<1.43	<1.43	<1.43	NA	<2.2	<2.05	<2.05	<1.43	<1.43	<1.43	<1.43	<1.43	480	96
Vinyl Chloride	µg/L	**0.4**	<75	**35**	<0.17	<0.19	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	<0.045	<0.18	<0.19	<0.19	**0.47 J**	<0.2	<0.2	<0.2	<0.2	0.2	0.02
Xylenes, Total	µg/L	<1.2	<330	<0.69	<3.1	<1.95	<1.95	<0.72	<0.72	<0.72	<0.72	<0.72	<1.2	<0.69	<1.95	<1.95	<0.72	<0.72	<0.72	<0.72	<0.72	2,000	400
PAHs																							
Acenaphthene	µg/L	NA	NA	NA	<0.02	NA	NA	NA	NA	<0.008	NA	NA	NA	NA	NA	NA	NA	NA	0.0173 J	NA	NA	NS	NS
Acenaphthylene	µg/L	NA	NA	NA	<0.021	NA	NA	NA	NA	<0.009	NA	NA	NA	NA	NA	NA	NA	NA	<0.009	NA	NA	NS	NS
Anthracene	µg/L	NA	NA	NA	0.115	NA	NA	NA	NA	<0.009	NA	NA	NA	NA	NA	NA	NA	NA	<0.009	NA	NA	3,000	600
Benzo(a)anthracene	µg/L	NA	NA	NA	0.15	NA	NA	NA	NA	<0.017	NA	NA	NA	NA	NA	NA	NA	NA	<0.017	NA	NA	NS	NS
Benzo(a)pyrene	µg/L	NA	NA	NA	***0.113***	NA	NA	NA	NA	<0.017	NA	NA	NA	NA	NA	NA	NA	NA	<0.017	NA	NA	0.2	0.02
Benzo(b)fluoranthene	µg/L	NA	NA	NA	***0.143***	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	<0.02	NA	NA	0.2	0.02
Benzo(ghi)perylene	µg/L	NA	NA	NA	0.117	NA	NA	NA	NA	<0.011	NA	NA	NA	NA	NA	NA	NA	NA	<0.011	NA	NA	NS	NS
Benzo(k)fluoranthene	µg/L	NA	NA	NA	0.114	NA	NA	NA	NA	<0.014	NA	NA	NA	NA	NA	NA	NA	NA	<0.014	NA	NA	NS	NS
Chrysene	µg/L	NA	NA	NA	***0.132***	NA	NA	NA	NA	<0.019	NA	NA	NA	NA	NA	NA	NA	NA	<0.019	NA	NA	0.2	0.02
Dibenzo(a,h)anthracene	µg/L	NA	NA	NA	0.091	NA	NA	NA	NA	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	<0.01	NA	NA	NS	NS
Fluoranthene	µg/L	NA	NA	NA	0.197	NA	NA	NA	NA	<0.031	NA	NA	NA	NA	NA	NA	NA	NA	<0.031	NA	NA	400	80
Fluorene	µg/L	NA	NA	NA	0.0301	NA	NA	NA	NA	<0.011	NA	NA	NA	NA	NA	NA	NA	NA	<0.011	NA	NA	400	80
Indeno(1,2,3-cd)pyrene	µg/L	NA	NA	NA	0.115	NA	NA	NA	NA	<0.012	NA	NA	NA	NA	NA	NA	NA	NA	<0.012	NA	NA	NS	NS
1-Methylnaphthalene	µg/L	NA	NA	NA	<0.018	NA	NA	NA	NA	<0.0239	NA	NA	NA	NA	NA	NA	NA	NA	<0.0239	NA	NA	NS	NS
2-Methylnaphthalene	µg/L	NA	NA	NA	<0.017	NA	NA	NA	NA	<0.0236	NA	NA	NA	NA	NA	NA	NA	NA	<0.0236	NA	NA	NS	NS
Naphthalene	µg/L	NA	NA	NA	0.022	NA	NA	NA	NA	0.0261 J	NA	NA	NA	NA	NA	NA	NA	NA	0.025 J	NA	NA	100	10
Phenanthrene	µg/L	NA	NA	NA	0.103	NA	NA	NA	NA	<0.025	NA	NA	NA	NA	NA	NA	NA	NA	<0.025	NA	NA	NS	NS
Pyrene	µg/L	NA	NA	NA	0.163	NA	NA	NA	NA	<0.03	NA	NA	NA	NA	NA	NA	NA	NA	<0.03	NA	NA	250	50
Dissolved Metals																							
Arsenic	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.6	NA	NA	NA	NA	NA	NA	NA	NA	<0.6	NA	NA	10	1
Barium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,000	400
Cadmium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	**23.2**	**33.6**	**26.8**	NA	NA	NA	NA	NA	NA	***2.2***	***0.7 J***	**6.53**	5	0.5
Chromium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	<3.9	NA	NA	NA	NA	NA	NA	NA	NA	<3.9	NA	NA	100	10
Lead	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.8	NA	NA	NA	NA	NA	NA	NA	NA	<0.8	NA	NA	15	1.5
Mercury	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	2	0.2
Selenium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	10
Silver	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	<8.4	NA	NA	NA	NA	NA	NA	NA	NA	<8.4	NA	NA	50	10
Zinc	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	5640	7820	NA	NA	NA	NA	NA	NA	NA	7460	7870	NA	NS	NS

Notes:
1. NR 140 ES = Wis Admin Code, Ch. NR140 ES
2. NR 140 PAL = Wis Admin Code, Ch. NR140 PAL
3. NS = no standard
4. µg/L = micrograms per liter (parts per billion, ppb)
5. NA = Not Analyzed
6. Lab flags: "J" = Analyte detected between LOD and LOQ
7. Trip blank results: 10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: Methylene chloride reported above LDL
All other VOCs reported below LDL
1/5/18: All VOCs reported below LDL
2/21/19: All VOCs reported below LDL
3/26/18: All VOCs reported below LDL
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: All VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: All VOCs reported below LDL
8. Equipment blank results: 10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: No equipment blank collected
1/5/18: No equipment blank collected
2/21/19: All VOCs reported below LDL
3/26/18: No equipment blank collected
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: Chloroform reported above LDL
Other VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: No equipment blank collected
1/31/20: All '= Concentration exceeds NR140 ES
2/19/20: All '= Concentration exceeds NR140 PAL
4/9/20: All VOCs reported below LDL
9. Exceedances
BOLD = Concentration exceeds NR140 ES
10. Special ***ITALICS*** = Concentration exceeds NR140 PAL
* = monitoring well screen submerged below water table
** = not a statistically valid PAL exceedance per NR140.14(3)(c)

ES = Enforcement Standard
PAL = Preventive Action Limit
LOD = Limit of Detection
LOQ = Limit of Quantitation
LDL = Laboratory Detection Limit

11. Groundwater Elevation Notes

NZ = Well casing elevation not surveyed

Table 3
Groundwater Analytical Table
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

Well Location:		MW-10								MW-11								MW-12									NR 140 ES	NR 140 PAL
Date:		2/4/15	8/9/17	12/1/17	2/20/18	5/29/18	11/7/18	12/12/18	7/25/19	2/4/15	8/9/17	12/1/17	2/20/18	5/30/18	11/8/18	12/13/18	7/26/19	2/4/15	8/9/17	12/1/17	2/20/18	5/30/18	11/8/18	12/13/18	7/26/19	4/9/20		
Water Elevation* (feet MSL):		625.80	626.71	626.12	625.68	627.38	626.57	627.00	627.07	614.14	614.19	612.66	612.18	612.59	612.97	613.14	613.49	615.21	613.57	612.27	611.82	612.16	612.51	612.79	613.14	612.48		
PVOCs & Detected VOCs																												
Benzene	µg/L	<0.44	<0.17	<0.17	<0.22	<0.22	<0.22	<0.22	<0.22	<0.44	<0.17	<0.17	<0.22	<0.22	<0.22	<0.22	<0.22	<0.44	<0.17	<0.17	<0.22	<0.22	<0.22	<0.22	<0.22	<0.33	5	0.5
Bromobenzene	µg/L	<0.48	<0.43	<0.43	<0.44	<0.44	<0.44	<0.44	<0.44	<0.48	<0.43	<0.43	<0.44	<0.44	<0.44	<0.44	<0.44	<0.48	<0.43	<0.43	<0.44	<0.44	<0.44	<0.44	<0.44	<0.26	NS	NS
Bromodichloromethane	µg/L	<0.46	<0.31	<0.31	<0.33	<0.33	<0.33	<0.33	<0.33	<0.46	<0.31	<0.31	<0.33	<0.33	<0.33	<0.33	<0.33	<0.46	<0.31	<0.31	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.6	0.06
Bromoform	µg/L	<0.46	<0.49	<0.49	<0.45	<0.45	<0.45	<0.45	<0.45	<0.46	<0.49	<0.49	<0.45	<0.45	<0.45	<0.45	<0.45	<0.46	<0.49	<0.49	<0.45	<0.45	<0.45	<0.45	<0.45	<0.65	4.4	0.44
tert-Butylbenzene	µg/L	<1.1	<0.39	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	<1.1	<0.39	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	<1.1	<0.39	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	<0.61	NS	NS
sec-Butylbenzene	µg/L	<1.2	<0.24	<0.24	<0.79	<0.79	<0.79	<0.79	<0.79	<1.2	<0.24	<0.24	<0.79	<0.79	<0.79	<0.79	<0.79	<1.2	<0.24	<0.24	<0.79	<0.79	<0.79	<0.79	<0.79	<0.32	NS	NS
n-Butylbenzene	µg/L	<1.0	<0.34	<0.34	<0.71	<0.71	<0.71	<0.71	<0.71	<1.0	<0.34	<0.34	<0.71	<0.71	<0.71	<0.71	<0.71	<1.0	<0.34	<0.34	<0.71	<0.71	<0.71	<0.71	<0.71	<0.28	NS	NS
Carbon Tetrachloride	µg/L	<0.65	<0.21	<0.21	<0.31	<0.31	<0.31	<0.31	<0.31	<0.65	<0.21	<0.21	<0.31	<0.31	<0.31	<0.31	<0.31	<0.65	<0.21	<0.21	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	5	0.5
Chlorobenzene	µg/L	<0.46	<0.27	<0.27	<0.26	<0.26	<0.26	<0.26	<0.26	<0.46	<0.27	<0.27	<0.26	<0.26	<0.26	<0.26	<0.26	<0.46	<0.27	<0.27	<0.26	<0.26	<0.26	<0.26	<0.26	<0.39	NS	NS
Chloroethane	µg/L	<0.65	<0.5	<0.5	<0.61	<0.61	<0.61	<0.61	<0.61	<0.65	<0.5	<0.5	<0.61	<0.61	<0.61	<0.61	<0.61	<0.65	<0.5	<0.5	<0.61	<0.61	<0.61	<0.61	<0.61	<1.1	400	80
Chloroform	µg/L	<0.43	<0.96	<0.96	<0.26	<0.26	<0.26	<0.26	<0.26	<0.43	<0.96	<0.96	<0.26	<0.26	<0.26	<0.26	<0.26	<0.43	<0.96	<0.96	<0.26	<0.26	<0.26	<0.26	<0.26	<0.44	6	0.6
Chloromethane	µg/L	<1.9	<1.3	<1.3	<0.54	<0.54	<0.54	<0.54	<0.54	<1.9	<1.3	<1.3	<0.54	<0.54	<0.54	<0.54	<0.54	<1.9	<1.3	<1.3	<0.54	<0.54	<0.54	<0.54	<0.54	<0.8	30	3
2-Chlorotoluene	µg/L	<0.4	<0.36	<0.36	<0.31	<0.31	<0.31	<0.31	<0.31	<0.4	<0.36	<0.36	<0.31	<0.31	<0.31	<0.31	<0.31	<0.4	<0.36	<0.36	<0.31	<0.31	<0.31	<0.31	<0.31	<0.32	NS	NS
4-Chlorotoluene	µg/L	<0.63	<0.35	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	<0.63	<0.35	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	<0.63	<0.35	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	<0.3	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	<1.4	<1.88	<1.88	<2.96	<2.96	<2.96	<2.96	<2.96	<1.4	<1.88	<1.88	<2.96	<2.96	<2.96	<2.96	<2.96	<1.4	<1.88	<1.88	<2.96	<2.96	<2.96	<2.96	<2.96	<0.82	0.2	0.02
Dibromochloromethane	µg/L	<0.45	<0.45	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	<0.45	<0.45	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	<0.45	<0.45	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	<0.23	60	6
1,4-Dichlorobenzene	µg/L	<0.49	<0.42	<0.42	<0.7	<0.7	<0.7	<0.7	<0.7	<0.49	<0.42	<0.42	<0.7	<0.7	<0.7	<0.7	<0.7	<0.49	<0.42	<0.42	<0.7	<0.7	<0.7	<0.7	<0.7	<0.36	75	15
1,3-Dichlorobenzene	µg/L	<0.52	<0.45	<0.45	<0.85	<0.85	<0.85	<0.85	<0.85	<0.52	<0.45	<0.45	<0.85	<0.85	<0.85	<0.85	<0.85	<0.52	<0.45	<0.45	<0.85	<0.85	<0.85	<0.85	<0.85	<0.31	600	120
1,2-Dichlorobenzene	µg/L	<0.46	<0.34	<0.34	<0.86	<0.86	<0.86	<0.86	<0.86	<0.46	<0.34	<0.34	<0.86	<0.86	<0.86	<0.86	<0.86	<0.46	<0.34	<0.34	<0.86	<0.86	<0.86	<0.86	<0.86	<0.32	600	60
Dichlorodifluoromethane	µg/L	<0.87	<0.38	<0.38	<0.32	<0.32	<0.32	<0.32	<0.32	<0.87	<0.38	<0.38	<0.32	<0.32	<0.32	<0.32	<0.32	<0.87	<0.38	<0.38	<0.32	<0.32	<0.32	<0.32	<0.32	<0.45	1,000	200
1,2-Dichloroethane	µg/L	<0.54	<0.45	<0.45	<0.25	<0.25	<0.25	<0.25	<0.25	<0.54	<0.45	<0.45	<0.25	<0.25	<0.25	<0.25	<0.25	<0.54	<0.45	<0.45	<0.25	<0.25	<0.25	<0.25	<0.25	<0.39	5	0.5
1,1-Dichloroethane	µg/L	<1.1	<0.42	<0.42	<0.36	<0.36	<0.36	<0.36	<0.36	<1.1	<0.42	<0.42	<0.36	<0.36	1.11 J	<0.36	<0.36	<1.1	<0.42	<0.42	<0.36	<0.36	<0.36	<0.36	<0.36	<0.46	850	85
1,1-Dichloroethene	µg/L	<0.65	<0.46	<0.46	<0.42	<0.42	<0.42	<0.42	<0.42	<0.65	<0.46	<0.46	<0.42	<0.42	<0.42	<0.42	<0.42	<0.65	<0.46	<0.46	<0.42	<0.42	<0.42	<0.42	<0.42	<0.5	7	0.7
cis-1,2-Dichloroethene	µg/L	<0.45	<0.41	<0.41	<0.37	<0.37	<0.37	<0.37	<0.37	<0.45	<0.41	<0.41	<0.37	<0.37	<0.37	<0.37	<0.37	<0.45	<0.41	<0.41	<0.37	0.4 J	<0.37	<0.37	<0.37	<0.39	70	7
trans-1,2-Dichloroethene	µg/L	<0.54	<0.35	<0.35	<0.34	<0.34	<0.34	<0.34	<0.34	<0.54	<0.35	<0.35	<0.34	<0.34	<0.34	<0.34	<0.34	<0.54	<0.35	<0.35	<0.34	<0.34	<0.34	<0.34	<0.34	<0.37	100	20
1,2-Dichloropropane	µg/L	<0.43	<0.39	<0.39	<0.44	<0.44	<0.44	<0.44	<0.44	<0.43	<0.39	<0.39	<0.44	<0.44	<0.44	<0.44	<0.44	<0.43	<0.39	<0.39	<0.44	<0.44	<0.44	<0.44	<0.44	<0.38	5	0.5
2,2-Dichloropropane	µg/L	<3.1	NA	NA	NA	NA	NA	NA	NA	<3.1	NA	NA	NA	NA	NA	NA	NA	<3.1	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1,3-Dichloropropane	µg/L	<0.42	<0.49	<0.49	<0.3	<0.3	<0.3	<0.3	<0.3	<0.42	<0.49	<0.49	<0.3	<0.3	<0.3	<0.3	<0.3	<0.42	<0.49	<0.49	<0.3	<0.3	<0.3	<0.3	<0.3	<0.35	NS	NS
trans-1,3-Dichloropropene	µg/L	NA	<0.42	<0.42	<0.32	<0.32	<0.32	<0.32	<0.32	NA	<0.42	<0.42	<0.32	<0.32	<0.32	<0.32	<0.32	NA	<0.42	<0.42	<0.32	<0.32	<0.32	<0.32	<0.32	<0.3	NS	NS
cis-1,3-Dichloropropene	µg/L	NA	<0.21	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	NA	<0.21	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	NA	<0.21	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	<0.36	NS	NS
Di-isopropyl ether	µg/L	<0.44	<0.26	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	<0.44	<0.26	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	<0.44	<0.26	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	<0.34	NS	NS
EDB (1,2-Dibromoethane)	µg/L	<0.63	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.63	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.63	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.24	0.05	0.005
Ethylbenzene	µg/L	<0.71	<0.2	<0.2	<0.26	<0.26	<0.26	<0.26	<0.26	<0.71	<0.2	<0.2	<0.26	<0.26	<0.26	<0.26	<0.26	<0.71	<0.2	<0.2	<0.26	<0.26	<0.26	<0.26	<0.26	<0.32	700	140
Hexachlorobutadiene	µg/L	<2.2	<1.47	<1.47	<1.34	<1.34	<1.34	<1.34	<1.34	<2.2	<1.47	<1.47	<1.34	<1.34	<1.34	<1.34	<1.34	<2.2	<1.47	<1.47	<1.34	<1.34	<1.34	<1.34	<1.34	<0.72	NS	NS
Isopropylbenzene	µg/L	<0.82	<0.29	<0.29	<0.78	<0.78	<0.78	<0.78	<0.78	<0.82	<0.29	<0.29	<0.78	<0.78	<0.78	<0.78	<0.78	<0.82	<0.29	<0.29	<0.78	<0.78	<0.78	<0.78	<0.78	<0.32	NS	NS
p-Isopropyltoluene	µg/L	<1.1	<0.28	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<1.1	<0.28	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<1.1	<0.28	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.47	NS	NS
Methylene Chloride	µg/L	<1.3	<0.94	<0.94	<1.32	<1.32	<1.32	<1.32	<1.32	<1.3	<0.94	<0.94	<1.32	<1.32	<1.32	<1.32	<1.32	<1.3	<0.94	<0.94	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	5	0.5
Methyl-tert-butyl-ether	µg/L	<1.1	<0.82	<0.82	<0.28	<0.28	<0.28	<0.28	<0.28	<1.1	<0.82	<0.82	<0.28	<0.28	<0.28	<0.28	<0.28	<1.1	<0.82	<0.82	<0.28	<0.28	<0.28	<0.28	<0.28	<0.47	60	12
Naphthalene	µg/L	<1.6	<2.17	<2.17	<2.1	<2.1	<2.1	<2.1	<2.1	<1.6	<2.17	<2.17	<2.1	<2.1	<2.1	<2.1	<2.1	<1.6	<2.17	<2.17	<2.1	<2.1	<2.1	<2.1	<2.1	<1.1	100	10
n-Propylbenzene	µg/L	<0.77	<0.19	<0.19	<0.61	<0.61	<0.61	<0.61	<0.61	<0.77	<0.19	<0.19	<0.61	<0.61	<0.61	<0.61	<0.61	<0.77	<0.19	<0.19	<0.61	<0.61	<0.61	<0.61	<0.61	<0.33	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	<0.52	<0.69	<0.69	<0.3	<0.3	<0.3	<0.3	<0.3	<0.52	<0.69	<0.69	<0.3	<0.3	<0.3	<0.3	<0.3	<0.52	<0.69	<0.69	<0.3	<0.3	<0.3	<0.3	<0.3	<0.37	0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	<0.48	<0.47	<0.47	<0.35	<0.35	<0.35	<0.35	<0.35	<0.48	<0.47	<0.47	<0.35	<0.35	<0.35	<0.35	<0.35	<0.48	<0.47	<0.47	<0.35	<0.35	<0.35	<0.35	<0.35	<0.88	70	7
Tetrachloroethene (PCE)	µg/L	<0.74	<0.48	<0.48	<0.38	<0.38	<0.38	<0.38	<0.38	<0.74	<0.48	<0.48	<0.38	<0.38	<0.38	<0.38	<0.38	<0.74	<0.48	<0.48	<0.38	<0.38	<0.38	<0.38	<0.38	<0.33	5	0.5
Toluene	µg/L	<0.44	<0.67	<0.67	<0.19	<0.19	<0.19	<0.19	0.20 J	<0.44	<0.67	<0.67	0.26 J	<0.19	<0.19	<0.19	<0.19	<0.44	<0.67	<0.67	0.24 J	0.25 J	<0.19	<0.19	<0.19	<0.26	800	160
1,2,4-Trichlorobenzene	µg/L	<1.7	<1.29	<1.29	<1.15	<1.15	<1.15	<1.15	<1.15	<1.7	<1.29	<1.29	<1.15	<1.15	<1.15	<1.15	<1.15	<1.7	<1.29	<1.29	<1.15	<1.15	<1.15	<1.15	<1.15	<0.44	70	14
1,2,3-Trichlorobenzene	µg/L	<2.7	<0.83	<0.83	<1.71	<1.71	<1.71	<1.71	<1.71	<2.7	<0.83	<0.83	<1.71	<1.71	<1.71	<1.71	<1.71	<2.7	<0.83	<0.83	<1.71	<1.71	<1.71	<1.71	<1.71	<1	NS	NS
1,1,1-Trichloroethane	µg/L	<0.84	<0.35	<0.35	<0.33	<0.33	<0.33	<0.33	<0.33	<0.84	<0.35	<0.35	<0.33	<0.33	23.6	<0.33	<0.33	<0.84	<0.35	<0.35	<0.33	<0.33	<0.33	<0.33	<0.33	<0.3	200	40
1,1,2-Trichloroethane	µg/L	<0.48	<0.65	<0.65	<0.42	<0.42	<0.42	<0.42	<0.42	<0.48	<0.65	<0.65	<0.42	<0.42	<0.42	<0.42	<0.42	<0.48	<0.65	<0.65	<0.42	<0.42	<0.42	<0.42	<0.42	<0.36	5	0.5
Trichloroethene (TCE)	µg/L	<0.47	<0.45	<0.45	<0.3	<0.3	<0.3	<0.3	<0.3	<0.47	<0.45	<0.45	<0.3	<0.3	<0.3	<0.3	<0.3	<0.47	<0.45	<0.45	<0.3	<0.3	<0.3	<0.3	<0.3	<0.47	5	0.5
Trichlorofluoromethane	µg/L	<0.87	<0.64	<0.64	<0.35	<0.35	<0.35	<0.35	<0.35	<0.87	<0.64	<0.64	<0.35	<0.35	<0.35	<0.35	<0.35	<0.87	<0.64	<0.64	<0.35	<0.35	<0.35	<0.35	<0.35	<0.42	3,490	698
1,2,4-Trimethylbenzene	µg/L	<1.6	<1.14	<1.14	<0.8	<0.8	<0.8	<0.8	<0.8	<1.6	<1.14	<1.14	<0.8	<0.8	<0.8	<0.8	<0.8	<1.6	<1.14	<1.14	<0.8	<0.8	<0.8	<0.8	<0.8	0.35J	NS	NS
1,3,5-Trimethylbenzene	µg/L	<1.5	<0.91	<0.91	<0.63	<0.63	<0.63	<0.63	<0.63	<1.5	<0.91	<0.91	<0.63	<0.63	<0.63	<0.63	<0.63	<1.5	<0.91	<0.91	<0.63	<0.63	<0.63	<0.63	<0.63	<0.32	NS	NS
Total Trimethylbenzene	µg/L	<3.1	<2.05	<2.05	<1.43	<1.43	<1.43	<1.43	<1.43	<3.1	<2.05	<2.05	<1.43	<1.43	<1.43	<1.43	<1.43	<3.1	<2.05	<2.05	<1.43	<1.43	<1.43	<1.43	<1.43	0.35J	480	96
Vinyl Chloride	µg/L	<0.17	<0.19	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	<0.17	<0.19	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	**24.8**	**10.8**	**14.6**	**10.7**	**10.5**	**10.4**	**11.9**	**9.8**	**9**	0.2	0.02
Xylenes, Total	µg/L	<3.1	<1.95	<1.95	<0.72	<0.72	<0.72	<0.72	<0.72	<3.1	<1.95	<1.95	<0.72	<0.72	<0.72	<0.72	<0.72	<3.1	<1.95	<1.95	<0.72	<0.72	<0.72	<0.72	<0.72	<1.48	2,000	400
PAHs																												
Acenaphthene	µg/L	<0.02	NA	NA	NA	NA	<0.008	NA	NA	<0.02	NA	NA	NA	NA	0.0123 J	NA	NA	<0.02	NA	NA	NA	NA	0.0082 J	NA	NA	NA	NS	NS
Acenaphthylene	µg/L	<0.021	NA	NA	NA	NA	0.009 J	NA	NA	<0.021	NA	NA	NA	NA	<0.009	NA	NA	<0.021	NA	NA	NA	NA	<0.009	NA	NA	NA	NS	NS
Anthracene	µg/L	<0.02	NA	NA	NA	NA	<0.009	NA	NA	0.067	NA	NA	NA	NA	<0.009	NA	NA	0.078	NA	NA	NA	NA	<0.009	NA	NA	NA	3,000	600
Benzo(a)anthracene	µg/L	<0.019	NA	NA	NA	NA	0.0239 J	NA	NA	0.056 J	NA	NA	NA	NA	<0.017	NA	NA	0.079	NA	NA	NA	NA	<0.017	NA	NA	NA	NS	NS
Benzo(a)pyrene	µg/L	<0.019	NA	NA	NA	NA	<0.017	NA	NA	***0.0315 J***	NA	NA	NA	NA	<0.017	NA	NA	***0.056 J***	NA	NA	NA	NA	<0.017	NA	NA	NA	0.2	0.02
Benzo(b)fluoranthene	µg/L	<0.019	NA	NA	NA	NA	<0.02	NA	NA	***0.034 J***	NA	NA	NA	NA	<0.02	NA	NA	***0.061 J***	NA	NA	NA	NA	<0.02	NA	NA	NA	0.2	0.02
Benzo(ghi)perylene	µg/L	<0.024	NA	NA	NA	NA	<0.011	NA	NA	0.038 J	NA	NA	NA	NA	<0.011	NA	NA	0.062 J	NA	NA	NA	NA	<0.011	NA	NA	NA	NS	NS
Benzo(k)fluoranthene	µg/L	<0.018	NA	NA	NA	NA	<0.014	NA	NA	0.0291 J	NA	NA	NA	NA	<0.014	NA	NA	0.055 J	NA	NA	NA	NA	<0.014	NA	NA	NA	NS	NS
Chrysene	µg/L	<0.017	NA	NA	NA	NA	<0.019	NA	NA	***0.05 J***	NA	NA	NA	NA	<0.019	NA	NA	***0.068***	NA	NA	NA	NA	<0.019	NA	NA	NA	0.2	0.02
Dibenzo(a,h)anthracene	µg/L	<0.025	NA	NA	NA	NA	<0.01	NA	NA	0.0314 J	NA	NA	NA	NA	<0.01	NA	NA	0.051 J	NA	NA	NA	NA	<0.01	NA	NA	NA	NS	NS
Fluoranthene	µg/L	0.0207 J	NA	NA	NA	NA	<0.031	NA	NA	0.05 J	NA	NA	NA	NA	<0.031	NA	NA	0.068	NA	NA	NA	NA	<0.031	NA	NA	NA	400	80
Fluorene	µg/L	<0.017	NA	NA	NA	NA	<0.011	NA	NA	<0.017	NA	NA	NA	NA	<0.011	NA	NA	0.0253	NA	NA	NA	NA	<0.011	NA	NA	NA	400	80
Indeno(1,2,3-cd)pyrene	µg/L	<0.018	NA	NA	NA	NA	<0.012	NA	NA	0.032 J	NA	NA	NA	NA	<0.012	NA	NA	0.058	NA	NA	NA	NA	<0.012	NA	NA	NA	NS	NS
1-Methylnaphthalene	µg/L	<0.018	NA	NA	NA	NA	<0.0239	NA	NA	<0.018	NA	NA	NA	NA	0.0286 J	NA	NA	<0.018	NA	NA	NA	NA	<0.0239	NA	NA	NA	NS	NS
2-Methylnaphthalene	µg/L	<0.017	NA	NA	NA	NA	<0.0236	NA	NA	<0.017	NA	NA	NA	NA	<0.0236	NA	NA	<0.017	NA	NA	NA	NA	<0.0236	NA	NA	NA	NS	NS
Naphthalene	µg/L	<0.018	NA	NA	NA	NA	<0.023	NA	NA	<0.018	NA	NA	NA	NA	0.039 J	NA	NA	<0.018	NA	NA	NA	NA	0.0247 J	NA	NA	NA	100	10
Phenanthrene	µg/L	0.0202 J	NA	NA	NA	NA	<0.025	NA	NA	0.038 J	NA	NA	NA	NA	<0.025	NA	NA	0.058	NA	NA	NA	NA	<0.025	NA	NA	NA	NS	NS
Pyrene	µg/L	0.0306 J	NA	NA	NA	NA	<0.03	NA	NA	0.05 J	NA	NA	NA	NA	<0.03	NA	NA	0.069	NA	NA	NA	NA	<0.03	NA	NA	NA	250	50
Dissolved Metals																												
Arsenic	µg/L	NA	NA	NA	NA	NA	<0.6	NA	NA	NA	NA	NA	NA	NA	<0.6	NA	NA	NA	NA	NA	NA	NA	<0.6	NA	NA	NA	10	1
Barium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,000	400
Cadmium	µg/L	NA	NA	NA	NA	NA	<0.4	NA	NA	NA	NA	NA	NA	NA	***0.6 J***	0.4 J	***0.779 J***	NA	NA	NA	NA	NA	0.4 J	NA	NA	NA	5	0.5
Chromium	µg/L	NA	NA	NA	NA	NA	<3.9	NA	NA	NA	NA	NA	NA	NA	<3.9	NA	NA	NA	NA	NA	NA	NA	<3.9	NA	NA	NA	100	10
Lead	µg/L	NA	NA	NA	NA	NA	<0.8	NA	NA	NA	NA	NA	NA	NA	<0.8	NA	NA	NA	NA	NA	NA	NA	<0.8	NA	NA	NA	15	1.5
Mercury	µg/L	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	2	0.2
Selenium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	10
Silver	µg/L	NA	NA	NA	NA	NA	<8.4	NA	NA	NA	NA	NA	NA	NA	<8.4	NA	NA	NA	NA	NA	NA	NA	<8.4	NA	NA	NA	50	10
Zinc	µg/L	NA	NA	NA	NA	NA	95.8	NA	NA	NA	NA	NA	NA	NA	7.5 J	46.7	NA	NA	NA	NA	NA	NA	<7.0	NA	NA	NA	NS	NS

Notes:
1. NR 140 ES = Wis Admin Code, Ch. NR140 ES
2. NR 140 PAL = Wis Admin Code, Ch. NR140 PAL
3. NS = no standard
4. µg/L = micrograms per liter (parts per billion, ppb)
5. NA = Not Analyzed
6. Lab flags: "J" = Analyte detected between LOD and LOQ
7. Trip blank results: 10/1/97: All VOCs reported below LDL; 10/31/97: All VOCs reported below LDL; 12/16/97: All VOCs reported below LDL; 1/9/98: All VOCs reported below LDL; 1/20/98: All VOCs reported below LDL; 9/24/13: All VOCs reported below LDL; 2/4/15: All VOCs reported below LDL; 8/9/17: All VOCs reported below LDL; 12/1/17: Methylene chloride reported above LDL; All other VOCs reported below LDL; 1/5/18: All VOCs reported below LDL; 2/21/19: All VOCs reported below LDL; 3/26/18: All VOCs reported below LDL; 5/29/18: All VOCs reported below LDL; 11/7/2018: All VOCs reported below LDL; 12/12/18: All VOCs reported below LDL; 7/25/19: All VOCs reported below LDL; 8/22/19: All VOCs reported below LDL; 9/3/19: All VOCs reported below LDL; 1/31/20: All VOCs reported below LDL; 2/19/20: All VOCs reported below LDL; 4/9/20: All VOCs reported below LDL
8. Equipment blank results: 10/1/97: All VOCs reported below LDL; 10/31/97: All VOCs reported below LDL; 12/16/97: All VOCs reported below LDL; 1/9/98: All VOCs reported below LDL; 1/20/98: All VOCs reported below LDL; 9/24/13: All VOCs reported below LDL; 2/4/15: All VOCs reported below LDL; 8/9/17: All VOCs reported below LDL; 12/1/17: No equipment blank collected; 1/5/18: No equipment blank collected; 2/21/19: All VOCs reported below LDL; 3/26/18: No equipment blank collected; 5/29/18: All VOCs reported below LDL; 11/7/2018: All VOCs reported below LDL; 12/12/18: Chloroform reported above LDL; Other VOCs reported below LDL; 7/25/19: All VOCs reported below LDL; 8/22/19: All VOCs reported below LDL; 9/3/19: No equipment blank collected; 1/31/20: All ' = Concentration exceeds NR140 ES; 2/19/20: All ' = Concentration exceeds NR140 PAL; 4/9/20: All VOCs reported below LDL
9. Exceedances **BOLD** = Concentration exceeds NR140 ES
10. Special ***ITALICS*** = Concentration exceeds NR140 PAL
* = monitoring well screen submerged below water table
** = not a statistically valid PAL exceedance per NR140.14(3)(c)

ES = Enforcement Standard
PAL = Preventive Action Limit
LOD = Limit of Detection
LOQ = Limit of Quantitation
LDL = Laboratory Detection Limit

11. Groundwater Elevation Notes

NZ = Well casing elevation not surveyed

Table 3
Groundwater Analytical Table
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

Well Location:		MW-13								MW-14						MW-15							NR 140 ES	NR 140 PAL
Date:		2/4/15	8/9/17	12/1/17	2/20/18	5/30/18	11/8/18	12/13/18	7/26/19	12/1/17	2/20/18	5/29/18	11/7/18	12/12/18	7/25/19	12/1/17	2/21/18	5/29/18	11/7/18	12/12/18	7/25/19	4/9/20		
Water Elevation* (feet MSL):		614.94	614.68	612.66	612.05	612.74	613.42	613.28	613.84	610.54	610.45	611.74	611.31	611.29	611.65	610.59	610.74	611.56	611.32	611.27	611.53	612.01		
PVOCs & Detected VOCs																								
Benzene	µg/L	<0.44	<0.17	<0.17	<0.22	<0.22	<0.22	<0.22	<0.22	<0.17	<0.22	<0.22	<0.22	<0.22	<0.22	<0.17	<0.22	<0.22	<0.22	<0.22	<0.22	<0.33	5	0.5
Bromobenzene	µg/L	<0.48	<0.43	<0.43	<0.44	<0.44	<0.44	<0.44	<0.44	<0.43	<0.44	<0.44	<0.44	<0.44	<0.44	<0.43	<0.44	<0.44	<0.44	<0.44	<0.44	<0.26	NS	NS
Bromodichloromethane	µg/L	<0.46	<0.31	<0.31	<0.33	<0.33	<0.33	<0.33	<0.33	<0.31	<0.33	<0.33	<0.33	<0.33	<0.33	<0.31	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.6	0.06
Bromoform	µg/L	<0.46	<0.49	<0.49	<0.45	<0.45	<0.45	<0.45	<0.45	<0.49	<0.45	<0.45	<0.45	<0.45	<0.45	<0.49	<0.45	<0.45	<0.45	<0.45	<0.45	<0.65	4.4	0.44
tert-Butylbenzene	µg/L	<1.1	<0.39	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	<0.61	NS	NS
sec-Butylbenzene	µg/L	<1.2	<0.24	<0.24	<0.79	<0.79	<0.79	<0.79	<0.79	<0.24	<0.79	<0.79	<0.79	<0.79	<0.79	<0.24	<0.79	<0.79	<0.79	<0.79	<0.79	<0.32	NS	NS
n-Butylbenzene	µg/L	<1.0	<0.34	<0.34	<0.71	<0.71	<0.71	<0.71	<0.71	<0.34	<0.71	<0.71	<0.71	<0.71	<0.71	<0.34	<0.71	<0.71	<0.71	<0.71	<0.71	<0.28	NS	NS
Carbon Tetrachloride	µg/L	<0.65	<0.21	<0.21	<0.31	<0.31	<0.31	<0.31	<0.31	<0.21	<0.31	<0.31	<0.31	<0.31	<0.31	<0.21	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	5	0.5
Chlorobenzene	µg/L	<0.46	<0.27	<0.27	<0.26	<0.26	<0.26	<0.26	<0.26	<0.27	<0.26	<0.26	<0.26	<0.26	<0.26	<0.27	<0.26	<0.26	<0.26	<0.26	<0.26	<0.39	NS	NS
Chloroethane	µg/L	1.57 J	<0.5	<0.5	<0.61	<0.61	<0.61	<0.61	<0.61	<0.5	<0.61	<0.61	<0.61	<0.61	<0.61	<0.5	<0.61	<0.61	<0.61	<0.61	<0.61	<1.1	400	80
Chloroform	µg/L	<0.43	<0.96	<0.96	<0.26	<0.26	<0.26	<0.26	<0.26	<0.96	<0.26	<0.26	<0.26	<0.26	<0.26	<0.96	<0.26	<0.26	<0.26	<0.26	<0.26	<0.44	6	0.6
Chloromethane	µg/L	<1.9	<1.3	<1.3	<0.54	<0.54	<0.54	<0.54	<0.54	<1.3	<0.54	<0.54	<0.54	<0.54	<0.54	<1.3	<0.54	<0.54	<0.54	<0.54	<0.54	<0.8	30	3
2-Chlorotoluene	µg/L	<0.4	<0.36	<0.36	<0.31	<0.31	<0.31	<0.31	<0.31	<0.36	<0.31	<0.31	<0.31	<0.31	<0.31	<0.36	<0.31	<0.31	<0.31	<0.31	<0.31	<0.32	NS	NS
4-Chlorotoluene	µg/L	<0.63	<0.35	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	<0.3	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	<1.4	<1.88	<1.88	<2.96	<2.96	<2.96	<2.96	<2.96	<1.88	<2.96	<2.96	<2.96	<2.96	<2.96	<1.88	<2.96	<2.96	<2.96	<2.96	<2.96	<0.82	0.2	0.02
Dibromochloromethane	µg/L	<0.45	<0.45	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	<0.23	60	6
1,4-Dichlorobenzene	µg/L	<0.49	<0.42	<0.42	<0.7	<0.7	<0.7	<0.7	<0.7	<0.42	<0.7	<0.7	<0.7	<0.7	<0.7	<0.42	<0.7	<0.7	<0.7	<0.7	<0.7	<0.36	75	15
1,3-Dichlorobenzene	µg/L	<0.52	<0.45	<0.45	<0.85	<0.85	<0.85	<0.85	<0.85	<0.45	<0.85	<0.85	<0.85	<0.85	<0.85	<0.45	<0.85	<0.85	<0.85	<0.85	<0.85	<0.31	600	120
1,2-Dichlorobenzene	µg/L	<0.46	<0.34	<0.34	<0.86	<0.86	<0.86	<0.86	<0.86	<0.34	<0.86	<0.86	<0.86	<0.86	<0.86	<0.34	<0.86	<0.86	<0.86	<0.86	<0.86	<0.32	600	60
Dichlorodifluoromethane	µg/L	<0.87	<0.38	<0.38	<0.32	<0.32	<0.32	<0.32	<0.32	<0.38	<0.32	<0.32	<0.32	<0.32	<0.32	<0.38	<0.32	<0.32	<0.32	<0.32	<0.32	<0.45	1,000	200
1,2-Dichloroethane	µg/L	<0.54	<0.45	<0.45	<0.25	<0.25	<0.25	<0.25	<0.25	<0.45	<0.25	<0.25	<0.25	<0.25	<0.25	<0.45	<0.25	<0.25	<0.25	<0.25	<0.25	<0.39	5	0.5
1,1-Dichloroethane	µg/L	<1.1	0.77 J	0.7 J	0.57 J	<0.36	0.50 J	0.63 J	0.47 J	0.47 J	<0.36	<0.36	<0.36	<0.36	<0.36	3.3	2.42	1.55	1.64	1.86	1.39	0.87J	850	85
1,1-Dichloroethene	µg/L	<0.65	<0.46	<0.46	<0.42	<0.42	<0.42	<0.42	<0.42	<0.46	<0.42	<0.42	<0.42	<0.42	<0.42	<0.46	<0.42	<0.42	<0.42	<0.42	<0.42	<0.5	7	0.7
cis-1,2-Dichloroethene	µg/L	1.23 J	1.56	3.6	2.2	2.17	0.75 J	1.13 J	1.48	1.21 J	0.82 J	1.27	1.03 J	0.59 J	0.85 J	4.2	4.1	3.1	4.0	4.4	3.6	3.0	70	7
trans-1,2-Dichloroethene	µg/L	<0.54	<0.35	<0.35	<0.34	<0.34	<0.34	<0.34	<0.34	0.46 J	<0.34	0.62 J	0.50 J	<0.34	0.45 J	1.79	1.6	1.3	1.58	2.3	1.71	1.93	100	20
1,2-Dichloropropane	µg/L	<0.43	<0.39	<0.39	<0.44	<0.44	<0.44	<0.44	<0.44	<0.39	<0.44	<0.44	<0.44	<0.44	<0.44	<0.39	<0.44	<0.44	<0.44	<0.44	<0.44	<0.38	5	0.5
2,2-Dichloropropane	µg/L	<3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1,3-Dichloropropane	µg/L	<0.42	<0.49	<0.49	<0.3	<0.3	<0.3	<0.3	<0.3	<0.49	<0.3	<0.3	<0.3	<0.3	<0.3	<0.49	<0.3	<0.3	<0.3	<0.3	<0.3	<0.35	NS	NS
trans-1,3-Dichloropropene	µg/L	NA	<0.42	<0.42	<0.32	<0.32	<0.32	<0.32	<0.32	<0.42	<0.32	<0.32	<0.32	<0.32	<0.32	<0.42	<0.32	<0.32	<0.32	<0.32	<0.32	<0.3	NS	NS
cis-1,3-Dichloropropene	µg/L	NA	<0.21	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	<0.36	NS	NS
Di-isopropyl ether	µg/L	<0.44	<0.26	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	<0.34	NS	NS
EDB (1,2-Dibromoethane)	µg/L	<0.63	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.24	0.05	0.005
Ethylbenzene	µg/L	<0.71	<0.2	<0.2	<0.26	<0.26	<0.26	<0.26	<0.26	<0.2	<0.26	<0.26	<0.26	<0.26	<0.26	<0.2	<0.26	<0.26	<0.26	<0.26	<0.26	<0.32	700	140
Hexachlorobutadiene	µg/L	<2.2	<1.47	<1.47	<1.34	<1.34	<1.34	<1.34	<1.34	<1.47	<1.34	<1.34	<1.34	<1.34	<1.34	<1.47	<1.34	<1.34	<1.34	<1.34	<1.34	<0.72	NS	NS
Isopropylbenzene	µg/L	<0.82	<0.29	<0.29	<0.78	<0.78	<0.78	<0.78	<0.78	<0.29	<0.78	<0.78	<0.78	<0.78	<0.78	<0.29	<0.78	<0.78	<0.78	<0.78	<0.78	<0.32	NS	NS
p-Isopropyltoluene	µg/L	<1.1	<0.28	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.47	NS	NS
Methylene Chloride	µg/L	<1.3	<0.94	<0.94	<1.32	<1.32	<1.32	<1.32	<1.32	<0.94	<1.32	<1.32	<1.32	<1.32	<1.32	<0.94	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	5	0.5
Methyl-tert-butyl-ether	µg/L	<1.1	<0.82	<0.82	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.28	<0.28	<0.28	<0.28	<0.28	<0.47	60	12
Naphthalene	µg/L	<1.6	<2.17	<2.17	<2.1	<2.1	<2.1	<2.1	<2.1	<2.17	<2.1	<2.1	<2.1	<2.1	<2.1	<2.17	<2.1	<2.1	<2.1	<2.1	<2.1	<1.1	100	10
n-Propylbenzene	µg/L	<0.77	<0.19	<0.19	<0.61	<0.61	<0.61	<0.61	<0.61	<0.19	<0.61	<0.61	<0.61	<0.61	<0.61	<0.19	<0.61	<0.61	<0.61	<0.61	<0.61	<0.33	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	<0.52	<0.69	<0.69	<0.3	<0.3	<0.3	<0.3	<0.3	<0.69	<0.3	<0.3	<0.3	<0.3	<0.3	<0.69	<0.3	<0.3	<0.3	<0.3	<0.3	<0.37	0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	<0.48	<0.47	<0.47	<0.35	<0.35	<0.35	<0.35	<0.35	<0.47	<0.35	<0.35	<0.35	<0.35	<0.35	<0.47	<0.35	<0.35	<0.35	<0.35	<0.35	<0.88	70	7
Tetrachloroethene (PCE)	µg/L	<0.74	<0.48	<0.48	<0.38	<0.38	<0.38	<0.38	<0.38	<0.48	<0.38	<0.38	<0.38	<0.38	<0.38	<0.48	<0.38	<0.38	<0.38	<0.38	<0.38	<0.33	5	0.5
Toluene	µg/L	<0.44	<0.67	<0.67	<0.19	0.26 J	<0.19	0.20 J	<0.19	<0.67	<0.19	0.21 J	<0.19	<0.19	<0.19	<0.67	<0.19	<0.19	<0.19	0.21 J	<0.19	<0.26	800	160
1,2,4-Trichlorobenzene	µg/L	<1.7	<1.29	<1.29	<1.15	<1.15	<1.15	<1.15	<1.15	<1.29	<1.15	<1.15	<1.15	<1.15	<1.15	<1.29	<1.15	<1.15	<1.15	<1.15	<1.15	<0.44	70	14
1,2,3-Trichlorobenzene	µg/L	<2.7	<0.83	<0.83	<1.71	<1.71	<1.71	<1.71	<1.71	<0.83	<1.71	<1.71	<1.71	<1.71	<1.71	<0.83	<1.71	<1.71	<1.71	<1.71	<1.71	<1.0	NS	NS
1,1,1-Trichloroethane	µg/L	<0.84	<0.35	<0.35	<0.33	<0.33	<0.33	<0.33	<0.33	0.55 J	0.35 J	0.78 J	0.4 J	0.38 J	0.55 J	4.2	3.3	2.48	2.11	2.73	2.03	1.44	200	40
1,1,2-Trichloroethane	µg/L	<0.48	<0.65	<0.65	<0.42	<0.42	<0.42	<0.42	<0.42	<0.65	<0.42	<0.42	<0.42	<0.42	<0.42	<0.65	<0.42	<0.42	<0.42	<0.42	<0.42	<0.36	5	0.5
Trichloroethene (TCE)	µg/L	<0.47	<0.45	<0.45	<0.3	<0.3	<0.3	<0.3	<0.3	**25.6**	**25.6**	**154**	**38**	**27.7**	**79**	**103**	**94**	**85**	**71**	**98**	**78**	**77**	5	0.5
Trichlorofluoromethane	µg/L	<0.87	<0.64	<0.64	<0.35	<0.35	<0.35	<0.35	<0.35	<0.64	<0.35	<0.35	<0.35	<0.35	<0.35	<0.64	<0.35	<0.35	<0.35	<0.35	<0.35	<0.42	3,490	698
1,2,4-Trimethylbenzene	µg/L	<1.6	<1.14	<1.14	<0.8	<0.8	<0.8	<0.8	<0.8	<1.14	<0.8	<0.8	<0.8	<0.8	<0.8	<1.14	<0.8	<0.8	<0.8	<0.8	<0.8	<0.3	NS	NS
1,3,5-Trimethylbenzene	µg/L	<1.5	<0.91	<0.91	<0.63	<0.63	<0.63	<0.63	<0.63	<0.91	<0.63	<0.63	<0.63	<0.63	<0.63	<0.91	<0.63	<0.63	<0.63	<0.63	<0.63	<0.32	NS	NS
Total Trimethylbenzene	µg/L	<3.1	<2.05	<2.05	<1.43	<1.43	<1.43	<1.43	<1.43	<2.05	<1.43	<1.43	<1.43	<1.43	<1.43	<2.05	<1.43	<1.43	<1.43	<1.43	<1.43	<0.62	480	96
Vinyl Chloride	µg/L	**0.21 J**	<0.19	**0.72**	**0.45 J**	**0.21 J**	**0.27 J**	<0.2	**0.37 J**	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.02
Xylenes, Total	µg/L	<3.1	<1.95	<1.95	<0.72	<0.72	<0.72	<0.72	<0.72	<1.95	<0.72	<0.72	<0.72	<0.72	<0.72	<1.95	<0.72	<0.72	<0.72	<0.72	<0.72	<1.48	2,000	400
PAHs																								
Acenaphthene	µg/L	<0.02	NA	NA	NA	NA	0.0212 J	NA	NA	NA	NA	NA	0.0146 J	NA	NA	NA	NA	NA	0.012 J	NA	<0.0094	NA	NS	NS
Acenaphthylene	µg/L	<0.021	NA	NA	NA	NA	<0.009	NA	NA	NA	NA	NA	<0.009	NA	NA	NA	NA	NA	<0.009	NA	<0.0156	NA	NS	NS
Anthracene	µg/L	<0.02	NA	NA	NA	NA	<0.009	NA	NA	NA	NA	NA	<0.009	NA	NA	NA	NA	NA	<0.009	NA	<0.015	NA	3,000	600
Benzo(a)anthracene	µg/L	0.041 J	NA	NA	NA	NA	<0.017	NA	NA	NA	NA	NA	0.0197 J	NA	NA	NA	NA	NA	0.044 J	NA	<0.0131	NA	NS	NS
Benzo(a)pyrene	µg/L	***0.0229 J***	NA	NA	NA	NA	<0.017	NA	NA	NA	NA	NA	<0.017	NA	NA	NA	NA	NA	***0.048 J***	NA	<0.0167	NA	0.2	0.02
Benzo(b)fluoranthene	µg/L	***0.0245 J***	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	***0.082***	NA	<0.016	NA	0.2	0.02
Benzo(ghi)perylene	µg/L	0.0278 J	NA	NA	NA	NA	<0.011	NA	NA	NA	NA	NA	<0.011	NA	NA	NA	NA	NA	0.04	NA	<0.0142	NA	NS	NS
Benzo(k)fluoranthene	µg/L	<0.018	NA	NA	NA	NA	<0.014	NA	NA	NA	NA	NA	<0.014	NA	NA	NA	NA	NA	0.022 J	NA	<0.0146	NA	NS	NS
Chrysene	µg/L	***0.04 J***	NA	NA	NA	NA	<0.019	NA	NA	NA	NA	NA	<0.019	NA	NA	NA	NA	NA	***0.049 J***	NA	<0.0157	NA	0.2	0.02
Dibenzo(a,h)anthracene	µg/L	<0.025	NA	NA	NA	NA	<0.01	NA	NA	NA	NA	NA	<0.01	NA	NA	NA	NA	NA	<0.01	NA	<0.0173	NA	NS	NS
Fluoranthene	µg/L	0.04 J	NA	NA	NA	NA	<0.031	NA	NA	NA	NA	NA	<0.031	NA	NA	NA	NA	NA	0.036 J	NA	<0.0088	NA	400	80
Fluorene	µg/L	<0.017	NA	NA	NA	NA	<0.011	NA	NA	NA	NA	NA	<0.011	NA	NA	NA	NA	NA	<0.011	NA	<0.0079	NA	400	80
Indeno(1,2,3-cd)pyrene	µg/L	<0.018	NA	NA	NA	NA	<0.012	NA	NA	NA	NA	NA	<0.012	NA	NA	NA	NA	NA	0.038	NA	<0.0121	NA	NS	NS
1-Methylnaphthalene	µg/L	<0.018	NA	NA	NA	NA	<0.0239	NA	NA	NA	NA	NA	<0.0239	NA	NA	NA	NA	NA	<0.0239	NA	<0.0191	NA	NS	NS
2-Methylnaphthalene	µg/L	<0.017	NA	NA	NA	NA	<0.0236	NA	NA	NA	NA	NA	<0.0236	NA	NA	NA	NA	NA	<0.0236	NA	<0.0186	NA	NS	NS
Naphthalene	µg/L	<0.018	NA	NA	NA	NA	<0.023	NA	NA	NA	NA	NA	<0.023	NA	NA	NA	NA	NA	<0.023	NA	<0.026	NA	100	10
Phenanthrene	µg/L	0.0312 J	NA	NA	NA	NA	<0.025	NA	NA	NA	NA	NA	<0.025	NA	NA	NA	NA	NA	<0.025	NA	<0.0143	NA	NS	NS
Pyrene	µg/L	0.104	NA	NA	NA	NA	<0.03	NA	NA	NA	NA	NA	<0.03	NA	NA	NA	NA	NA	0.041 J	NA	<0.0121	NA	250	50
Dissolved Metals																								
Arsenic	µg/L	NA	NA	NA	NA	NA	0.9 J	NA	NA	NA	NA	NA	<0.6	NA	NA	NA	NA	NA	<0.6	NA	NA	NA	10	1
Barium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,000	400
Cadmium	µg/L	NA	NA	NA	NA	NA	<0.4	NA	NA	NA	NA	NA	**52.1**	**34.2**	**13**	NA	NA	NA	**59.3**	**61.5**	**92**	**71.5**	5	0.5
Chromium	µg/L	NA	NA	NA	NA	NA	<3.9	NA	NA	NA	NA	NA	<3.9	NA	NA	NA	NA	NA	***54.9***	NA	NA	NA	100	10
Lead	µg/L	NA	NA	NA	NA	NA	<0.8	NA	NA	NA	NA	NA	<0.8	NA	NA	NA	NA	NA	<0.8	NA	NA	NA	15	1.5
Mercury	µg/L	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	2	0.2
Selenium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	10
Silver	µg/L	NA	NA	NA	NA	NA	<8.4	NA	NA	NA	NA	NA	<8.4	NA	NA	NA	NA	NA	<8.4	NA	NA	NA	50	10
Zinc	µg/L	NA	NA	NA	NA	NA	38.6	NA	NA	NA	NA	NA	11900	9770	NA	NA	NA	NA	454	558	NA	NA	NS	NS

Notes:
1. NR 140 ES = Wis Admin Code, Ch. NR140 ES
2. NR 140 PAL = Wis Admin Code, Ch. NR140 PAL
3. NS = no standard
4. µg/L = micrograms per liter (parts per billion, ppb)
5. NA = Not Analyzed
6. Lab flags: "J" = Analyte detected between LOD and LOQ
7. Trip blank results:
10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: Methylene chloride reported above LDL
All other VOCs reported below LDL
1/5/18: All VOCs reported below LDL
2/21/19: All VOCs reported below LDL
3/26/18: All VOCs reported below LDL
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: All VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: All VOCs reported below LDL
1/31/20: All VOCs reported below LDL
2/19/20: All VOCs reported below LDL
4/9/20: All VOCs reported below LDL
8. Equipment blank results:
10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: No equipment blank collected
1/5/18: No equipment blank collected
2/21/19: All VOCs reported below LDL
3/26/18: No equipment blank collected
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: Chloroform reported above LDL
Other VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: No equipment blank collected
1/31/20: All ' = Concentration exceeds NR140 ES
2/19/20: All ' = Concentration exceeds NR140 PAL
4/9/20: All VOCs reported below LDL
9. Exceedances
BOLD = Concentration exceeds NR140 ES
10. Special ***ITALICS*** = Concentration exceeds NR140 PAL
* = monitoring well screen submerged below water table
** = not a statistically valid PAL exceedance per NR140.14(3)(c)

ES = Enforcement Standard
PAL = Preventive Action Limit
LOD = Limit of Detection
LOQ = Limit of Quantitation
LDL = Laboratory Detection Limit

11. Groundwater Elevation Notes
NZ = Well casing elevation not surveyed

Table 3
Groundwater Analytical Table
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

Well Location:		MW-13								MW-14						MW-15							NR 140 ES	NR 140 PAL
Date:		2/4/15	8/9/17	12/1/17	2/20/18	5/30/18	11/8/18	12/13/18	7/26/19	12/1/17	2/20/18	5/29/18	11/7/18	12/12/18	7/25/19	12/1/17	2/21/18	5/29/18	11/7/18	12/12/18	7/25/19	4/9/20		
Water Elevation* (feet MSL):		614.94	614.68	612.66	612.05	612.74	613.42	613.28	613.84	610.54	610.45	611.74	611.31	611.29	611.65	610.59	610.74	611.56	611.32	611.27	611.53	612.01		
PVOCs & Detected VOCs																								
Benzene	µg/L	<0.44	<0.17	<0.17	<0.22	<0.22	<0.22	<0.22	<0.22	<0.17	<0.22	<0.22	<0.22	<0.22	<0.22	<0.17	<0.22	<0.22	<0.22	<0.22	<0.22	<0.33	5	0.5
Bromobenzene	µg/L	<0.48	<0.43	<0.43	<0.44	<0.44	<0.44	<0.44	<0.44	<0.43	<0.44	<0.44	<0.44	<0.44	<0.44	<0.43	<0.44	<0.44	<0.44	<0.44	<0.44	<0.26	NS	NS
Bromodichloromethane	µg/L	<0.46	<0.31	<0.31	<0.33	<0.33	<0.33	<0.33	<0.33	<0.31	<0.33	<0.33	<0.33	<0.33	<0.33	<0.31	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.6	0.06
Bromoform	µg/L	<0.46	<0.49	<0.49	<0.45	<0.45	<0.45	<0.45	<0.45	<0.49	<0.45	<0.45	<0.45	<0.45	<0.45	<0.49	<0.45	<0.45	<0.45	<0.45	<0.45	<0.65	4.4	0.44
tert-Butylbenzene	µg/L	<1.1	<0.39	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	<0.61	NS	NS
sec-Butylbenzene	µg/L	<1.2	<0.24	<0.24	<0.79	<0.79	<0.79	<0.79	<0.79	<0.24	<0.79	<0.79	<0.79	<0.79	<0.79	<0.24	<0.79	<0.79	<0.79	<0.79	<0.79	<0.32	NS	NS
n-Butylbenzene	µg/L	<1.0	<0.34	<0.34	<0.71	<0.71	<0.71	<0.71	<0.71	<0.34	<0.71	<0.71	<0.71	<0.71	<0.71	<0.34	<0.71	<0.71	<0.71	<0.71	<0.71	<0.28	NS	NS
Carbon Tetrachloride	µg/L	<0.65	<0.21	<0.21	<0.31	<0.31	<0.31	<0.31	<0.31	<0.21	<0.31	<0.31	<0.31	<0.31	<0.31	<0.21	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	5	0.5
Chlorobenzene	µg/L	<0.46	<0.27	<0.27	<0.26	<0.26	<0.26	<0.26	<0.26	<0.27	<0.26	<0.26	<0.26	<0.26	<0.26	<0.27	<0.26	<0.26	<0.26	<0.26	<0.26	<0.39	NS	NS
Chloroethane	µg/L	1.57 J	<0.5	<0.5	<0.61	<0.61	<0.61	<0.61	<0.61	<0.5	<0.61	<0.61	<0.61	<0.61	<0.61	<0.5	<0.61	<0.61	<0.61	<0.61	<0.61	<1.1	400	80
Chloroform	µg/L	<0.43	<0.96	<0.96	<0.26	<0.26	<0.26	<0.26	<0.26	<0.96	<0.26	<0.26	<0.26	<0.26	<0.26	<0.96	<0.26	<0.26	<0.26	<0.26	<0.26	<0.44	6	0.6
Chloromethane	µg/L	<1.9	<1.3	<1.3	<0.54	<0.54	<0.54	<0.54	<0.54	<1.3	<0.54	<0.54	<0.54	<0.54	<0.54	<1.3	<0.54	<0.54	<0.54	<0.54	<0.54	<0.8	30	3
2-Chlorotoluene	µg/L	<0.4	<0.36	<0.36	<0.31	<0.31	<0.31	<0.31	<0.31	<0.36	<0.31	<0.31	<0.31	<0.31	<0.31	<0.36	<0.31	<0.31	<0.31	<0.31	<0.31	<0.32	NS	NS
4-Chlorotoluene	µg/L	<0.63	<0.35	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	<0.3	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	<1.4	<1.88	<1.88	<2.96	<2.96	<2.96	<2.96	<2.96	<1.88	<2.96	<2.96	<2.96	<2.96	<2.96	<1.88	<2.96	<2.96	<2.96	<2.96	<2.96	<0.82	0.2	0.02
Dibromochloromethane	µg/L	<0.45	<0.45	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	<0.23	60	6
1,4-Dichlorobenzene	µg/L	<0.49	<0.42	<0.42	<0.7	<0.7	<0.7	<0.7	<0.7	<0.42	<0.7	<0.7	<0.7	<0.7	<0.7	<0.42	<0.7	<0.7	<0.7	<0.7	<0.7	<0.36	75	15
1,3-Dichlorobenzene	µg/L	<0.52	<0.45	<0.45	<0.85	<0.85	<0.85	<0.85	<0.85	<0.45	<0.85	<0.85	<0.85	<0.85	<0.85	<0.45	<0.85	<0.85	<0.85	<0.85	<0.85	<0.31	600	120
1,2-Dichlorobenzene	µg/L	<0.46	<0.34	<0.34	<0.86	<0.86	<0.86	<0.86	<0.86	<0.34	<0.86	<0.86	<0.86	<0.86	<0.86	<0.34	<0.86	<0.86	<0.86	<0.86	<0.86	<0.32	600	60
Dichlorodifluoromethane	µg/L	<0.87	<0.38	<0.38	<0.32	<0.32	<0.32	<0.32	<0.32	<0.38	<0.32	<0.32	<0.32	<0.32	<0.32	<0.38	<0.32	<0.32	<0.32	<0.32	<0.32	<0.45	1,000	200
1,2-Dichloroethane	µg/L	<0.54	<0.45	<0.45	<0.25	<0.25	<0.25	<0.25	<0.25	<0.45	<0.25	<0.25	<0.25	<0.25	<0.25	<0.45	<0.25	<0.25	<0.25	<0.25	<0.25	<0.39	5	0.5
1,1-Dichloroethane	µg/L	<1.1	0.77 J	0.7 J	0.57 J	<0.36	0.50 J	0.63 J	0.47 J	0.47 J	<0.36	<0.36	<0.36	<0.36	<0.36	3.3	2.42	1.55	1.64	1.86	1.39	0.87J	850	85
1,1-Dichloroethene	µg/L	<0.65	<0.46	<0.46	<0.42	<0.42	<0.42	<0.42	<0.42	<0.46	<0.42	<0.42	<0.42	<0.42	<0.42	<0.46	<0.42	<0.42	<0.42	<0.42	<0.42	<0.5	7	0.7
cis-1,2-Dichloroethene	µg/L	1.23 J	1.56	3.6	2.2	2.17	0.75 J	1.13 J	1.48	1.21 J	0.82 J	1.27	1.03 J	0.59 J	0.85 J	4.2	4.1	3.1	4.0	4.4	3.6	3.0	70	7
trans-1,2-Dichloroethene	µg/L	<0.54	<0.35	<0.35	<0.34	<0.34	<0.34	<0.34	<0.34	0.46 J	<0.34	0.62 J	0.50 J	<0.34	0.45 J	1.79	1.6	1.3	1.58	2.3	1.71	1.93	100	20
1,2-Dichloropropane	µg/L	<0.43	<0.39	<0.39	<0.44	<0.44	<0.44	<0.44	<0.44	<0.39	<0.44	<0.44	<0.44	<0.44	<0.44	<0.39	<0.44	<0.44	<0.44	<0.44	<0.44	<0.38	5	0.5
2,2-Dichloropropane	µg/L	<3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1,3-Dichloropropane	µg/L	<0.42	<0.49	<0.49	<0.3	<0.3	<0.3	<0.3	<0.3	<0.49	<0.3	<0.3	<0.3	<0.3	<0.3	<0.49	<0.3	<0.3	<0.3	<0.3	<0.3	<0.35	NS	NS
trans-1,3-Dichloropropene	µg/L	NA	<0.42	<0.42	<0.32	<0.32	<0.32	<0.32	<0.32	<0.42	<0.32	<0.32	<0.32	<0.32	<0.32	<0.42	<0.32	<0.32	<0.32	<0.32	<0.32	<0.3	NS	NS
cis-1,3-Dichloropropene	µg/L	NA	<0.21	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	<0.36	NS	NS
Di-isopropyl ether	µg/L	<0.44	<0.26	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	<0.34	NS	NS
EDB (1,2-Dibromoethane)	µg/L	<0.63	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.24	0.05	0.005
Ethylbenzene	µg/L	<0.71	<0.2	<0.2	<0.26	<0.26	<0.26	<0.26	<0.26	<0.2	<0.26	<0.26	<0.26	<0.26	<0.26	<0.2	<0.26	<0.26	<0.26	<0.26	<0.26	<0.32	700	140
Hexachlorobutadiene	µg/L	<2.2	<1.47	<1.47	<1.34	<1.34	<1.34	<1.34	<1.34	<1.47	<1.34	<1.34	<1.34	<1.34	<1.34	<1.47	<1.34	<1.34	<1.34	<1.34	<1.34	<0.72	NS	NS
Isopropylbenzene	µg/L	<0.82	<0.29	<0.29	<0.78	<0.78	<0.78	<0.78	<0.78	<0.29	<0.78	<0.78	<0.78	<0.78	<0.78	<0.29	<0.78	<0.78	<0.78	<0.78	<0.78	<0.32	NS	NS
p-Isopropyltoluene	µg/L	<1.1	<0.28	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.47	NS	NS
Methylene Chloride	µg/L	<1.3	<0.94	<0.94	<1.32	<1.32	<1.32	<1.32	<1.32	<0.94	<1.32	<1.32	<1.32	<1.32	<1.32	<0.94	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	5	0.5
Methyl-tert-butyl-ether	µg/L	<1.1	<0.82	<0.82	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.28	<0.28	<0.28	<0.28	<0.28	<0.47	60	12
Naphthalene	µg/L	<1.6	<2.17	<2.17	<2.1	<2.1	<2.1	<2.1	<2.1	<2.17	<2.1	<2.1	<2.1	<2.1	<2.1	<2.17	<2.1	<2.1	<2.1	<2.1	<2.1	<1.1	100	10
n-Propylbenzene	µg/L	<0.77	<0.19	<0.19	<0.61	<0.61	<0.61	<0.61	<0.61	<0.19	<0.61	<0.61	<0.61	<0.61	<0.61	<0.19	<0.61	<0.61	<0.61	<0.61	<0.61	<0.33	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	<0.52	<0.69	<0.69	<0.3	<0.3	<0.3	<0.3	<0.3	<0.69	<0.3	<0.3	<0.3	<0.3	<0.3	<0.69	<0.3	<0.3	<0.3	<0.3	<0.3	<0.37	0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	<0.48	<0.47	<0.47	<0.35	<0.35	<0.35	<0.35	<0.35	<0.47	<0.35	<0.35	<0.35	<0.35	<0.35	<0.47	<0.35	<0.35	<0.35	<0.35	<0.35	<0.88	70	7
Tetrachloroethene (PCE)	µg/L	<0.74	<0.48	<0.48	<0.38	<0.38	<0.38	<0.38	<0.38	<0.48	<0.38	<0.38	<0.38	<0.38	<0.38	<0.48	<0.38	<0.38	<0.38	<0.38	<0.38	<0.33	5	0.5
Toluene	µg/L	<0.44	<0.67	<0.67	<0.19	0.26 J	<0.19	0.20 J	<0.19	<0.67	<0.19	0.21 J	<0.19	<0.19	<0.19	<0.67	<0.19	<0.19	<0.19	0.21 J	<0.19	<0.26	800	160
1,2,4-Trichlorobenzene	µg/L	<1.7	<1.29	<1.29	<1.15	<1.15	<1.15	<1.15	<1.15	<1.29	<1.15	<1.15	<1.15	<1.15	<1.15	<1.29	<1.15	<1.15	<1.15	<1.15	<1.15	<0.44	70	14
1,2,3-Trichlorobenzene	µg/L	<2.7	<0.83	<0.83	<1.71	<1.71	<1.71	<1.71	<1.71	<0.83	<1.71	<1.71	<1.71	<1.71	<1.71	<0.83	<1.71	<1.71	<1.71	<1.71	<1.71	<1.0	NS	NS
1,1,1-Trichloroethane	µg/L	<0.84	<0.35	<0.35	<0.33	<0.33	<0.33	<0.33	<0.33	0.55 J	0.35 J	0.78 J	0.4 J	0.38 J	0.55 J	4.2	3.3	2.48	2.11	2.73	2.03	1.44	200	40
1,1,2-Trichloroethane	µg/L	<0.48	<0.65	<0.65	<0.42	<0.42	<0.42	<0.42	<0.42	<0.65	<0.42	<0.42	<0.42	<0.42	<0.42	<0.65	<0.42	<0.42	<0.42	<0.42	<0.42	<0.36	5	0.5
Trichloroethene (TCE)	µg/L	<0.47	<0.45	<0.45	<0.3	<0.3	<0.3	<0.3	<0.3	**25.6**	**25.6**	**154**	**38**	**27.7**	**79**	**103**	**94**	**85**	**71**	**98**	**78**	**77**	5	0.5
Trichlorofluoromethane	µg/L	<0.87	<0.64	<0.64	<0.35	<0.35	<0.35	<0.35	<0.35	<0.64	<0.35	<0.35	<0.35	<0.35	<0.35	<0.64	<0.35	<0.35	<0.35	<0.35	<0.35	<0.42	3,490	698
1,2,4-Trimethylbenzene	µg/L	<1.6	<1.14	<1.14	<0.8	<0.8	<0.8	<0.8	<0.8	<1.14	<0.8	<0.8	<0.8	<0.8	<0.8	<1.14	<0.8	<0.8	<0.8	<0.8	<0.8	<0.3	NS	NS
1,3,5-Trimethylbenzene	µg/L	<1.5	<0.91	<0.91	<0.63	<0.63	<0.63	<0.63	<0.63	<0.91	<0.63	<0.63	<0.63	<0.63	<0.63	<0.91	<0.63	<0.63	<0.63	<0.63	<0.63	<0.32	NS	NS
Total Trimethylbenzene	µg/L	<3.1	<2.05	<2.05	<1.43	<1.43	<1.43	<1.43	<1.43	<2.05	<1.43	<1.43	<1.43	<1.43	<1.43	<2.05	<1.43	<1.43	<1.43	<1.43	<1.43	<0.62	480	96
Vinyl Chloride	µg/L	**0.21 J**	<0.19	**0.72**	**0.45 J**	**0.21 J**	**0.27 J**	<0.2	**0.37 J**	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.02
Xylenes, Total	µg/L	<3.1	<1.95	<1.95	<0.72	<0.72	<0.72	<0.72	<0.72	<1.95	<0.72	<0.72	<0.72	<0.72	<0.72	<1.95	<0.72	<0.72	<0.72	<0.72	<0.72	<1.48	2,000	400
PAHs																								
Acenaphthene	µg/L	<0.02	NA	NA	NA	NA	0.0212 J	NA	NA	NA	NA	NA	0.0146 J	NA	NA	NA	NA	NA	0.012 J	NA	<0.0094	NA	NS	NS
Acenaphthylene	µg/L	<0.021	NA	NA	NA	NA	<0.009	NA	NA	NA	NA	NA	<0.009	NA	NA	NA	NA	NA	<0.009	NA	<0.0156	NA	NS	NS
Anthracene	µg/L	<0.02	NA	NA	NA	NA	<0.009	NA	NA	NA	NA	NA	<0.009	NA	NA	NA	NA	NA	<0.009	NA	<0.015	NA	3,000	600
Benzo(a)anthracene	µg/L	0.041 J	NA	NA	NA	NA	<0.017	NA	NA	NA	NA	NA	0.0197 J	NA	NA	NA	NA	NA	0.044 J	NA	<0.0131	NA	NS	NS
Benzo(a)pyrene	µg/L	***0.0229 J***	NA	NA	NA	NA	<0.017	NA	NA	NA	NA	NA	<0.017	NA	NA	NA	NA	NA	***0.048 J***	NA	<0.0167	NA	0.2	0.02
Benzo(b)fluoranthene	µg/L	***0.0245 J***	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	***0.082***	NA	<0.016	NA	0.2	0.02
Benzo(ghi)perylene	µg/L	0.0278 J	NA	NA	NA	NA	<0.011	NA	NA	NA	NA	NA	<0.011	NA	NA	NA	NA	NA	0.04	NA	<0.0142	NA	NS	NS
Benzo(k)fluoranthene	µg/L	<0.018	NA	NA	NA	NA	<0.014	NA	NA	NA	NA	NA	<0.014	NA	NA	NA	NA	NA	0.022 J	NA	<0.0146	NA	NS	NS
Chrysene	µg/L	***0.04 J***	NA	NA	NA	NA	<0.019	NA	NA	NA	NA	NA	<0.019	NA	NA	NA	NA	NA	***0.049 J***	NA	<0.0157	NA	0.2	0.02
Dibenzo(a,h)anthracene	µg/L	<0.025	NA	NA	NA	NA	<0.01	NA	NA	NA	NA	NA	<0.01	NA	NA	NA	NA	NA	<0.01	NA	<0.0173	NA	NS	NS
Fluoranthene	µg/L	0.04 J	NA	NA	NA	NA	<0.031	NA	NA	NA	NA	NA	<0.031	NA	NA	NA	NA	NA	0.036 J	NA	<0.0088	NA	400	80
Fluorene	µg/L	<0.017	NA	NA	NA	NA	<0.011	NA	NA	NA	NA	NA	<0.011	NA	NA	NA	NA	NA	<0.011	NA	<0.0079	NA	400	80
Indeno(1,2,3-cd)pyrene	µg/L	<0.018	NA	NA	NA	NA	<0.012	NA	NA	NA	NA	NA	<0.012	NA	NA	NA	NA	NA	0.038	NA	<0.0121	NA	NS	NS
1-Methylnaphthalene	µg/L	<0.018	NA	NA	NA	NA	<0.0239	NA	NA	NA	NA	NA	<0.0239	NA	NA	NA	NA	NA	<0.0239	NA	<0.0191	NA	NS	NS
2-Methylnaphthalene	µg/L	<0.017	NA	NA	NA	NA	<0.0236	NA	NA	NA	NA	NA	<0.0236	NA	NA	NA	NA	NA	<0.0236	NA	<0.0186	NA	NS	NS
Naphthalene	µg/L	<0.018	NA	NA	NA	NA	<0.023	NA	NA	NA	NA	NA	<0.023	NA	NA	NA	NA	NA	<0.023	NA	<0.026	NA	100	10
Phenanthrene	µg/L	0.0312 J	NA	NA	NA	NA	<0.025	NA	NA	NA	NA	NA	<0.025	NA	NA	NA	NA	NA	<0.025	NA	<0.0143	NA	NS	NS
Pyrene	µg/L	0.104	NA	NA	NA	NA	<0.03	NA	NA	NA	NA	NA	<0.03	NA	NA	NA	NA	NA	0.041 J	NA	<0.0121	NA	250	50
Dissolved Metals																								
Arsenic	µg/L	NA	NA	NA	NA	NA	0.9 J	NA	NA	NA	NA	NA	<0.6	NA	NA	NA	NA	NA	<0.6	NA	NA	NA	10	1
Barium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,000	400
Cadmium	µg/L	NA	NA	NA	NA	NA	<0.4	NA	NA	NA	NA	NA	**52.1**	**34.2**	**13**	NA	NA	NA	**59.3**	**61.5**	**92**	**71.5**	5	0.5
Chromium	µg/L	NA	NA	NA	NA	NA	<3.9	NA	NA	NA	NA	NA	<3.9	NA	NA	NA	NA	NA	***54.9***	NA	NA	NA	100	10
Lead	µg/L	NA	NA	NA	NA	NA	<0.8	NA	NA	NA	NA	NA	<0.8	NA	NA	NA	NA	NA	<0.8	NA	NA	NA	15	1.5
Mercury	µg/L	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	2	0.2
Selenium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	10
Silver	µg/L	NA	NA	NA	NA	NA	<8.4	NA	NA	NA	NA	NA	<8.4	NA	NA	NA	NA	NA	<8.4	NA	NA	NA	50	10
Zinc	µg/L	NA	NA	NA	NA	NA	38.6	NA	NA	NA	NA	NA	11900	9770	NA	NA	NA	NA	454	558	NA	NA	NS	NS

Notes:
1. NR 140 ES = Wis Admin Code, Ch. NR140 ES
2. NR 140 PAL = Wis Admin Code, Ch. NR140 PAL
3. NS = no standard
4. µg/L = micrograms per liter (parts per billion, ppb)
5. NA = Not Analyzed
6. Lab flags: "J" = Analyte detected between LOD and LOQ
7. Trip blank results:
10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: Methylene chloride reported above LDL
All other VOCs reported below LDL
1/5/18: All VOCs reported below LDL
2/21/19: All VOCs reported below LDL
3/26/18: All VOCs reported below LDL
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: All VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: All VOCs reported below LDL
1/31/20: All VOCs reported below LDL
2/19/20: All VOCs reported below LDL
4/9/20: All VOCs reported below LDL
8. Equipment blank results:
10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: No equipment blank collected
1/5/18: No equipment blank collected
2/21/19: All VOCs reported below LDL
3/26/18: No equipment blank collected
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: Chloroform reported above LDL
Other VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: No equipment blank collected
1/31/20: All ' = Concentration exceeds NR140 ES
2/19/20: All ' = Concentration exceeds NR140 PAL
4/9/20: All VOCs reported below LDL
9. Exceedances
BOLD = Concentration exceeds NR140 ES
10. Special ***ITALICS*** = Concentration exceeds NR140 PAL
* = monitoring well screen submerged below water table
** = not a statistically valid PAL exceedance per NR140.14(3)(c)

ES = Enforcement Standard
PAL = Preventive Action Limit
LOD = Limit of Detection
LOQ = Limit of Quantitation
LDL = Laboratory Detection Limit

11. Groundwater Elevation Notes
NZ = Well casing elevation not surveyed

Table 3
Groundwater Analytical Table
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

Well Location:		MW-16							MW-17			MW-18				MW-20				MW-21			MW-22						MW-23		NR 140 ES	NR 140 PAL
Date:		12/1/17	2/20/18	5/29/18	11/7/18	12/12/18	7/25/19	4/9/20	11/7/18	12/12/18	7/25/19	11/8/18	12/13/18	7/26/19	4/13/20	11/8/18	12/13/18	7/26/19	4/13/20	1/31/20	2/19/20	4/10/20	8/22/19	9/3/19	1/31/20	2/19/20	2/19/20	4/10/20	2/20/20	4/10/20		
Water Elevation* (feet MSL):		610.14	611.77	615.64	613.58	615.51	615.25	617.45	610.52	609.90	610.14	NZ	NZ	NZ	NZ	NZ	NZ	NZ	NZ	605.47	605.44	605.74	620.00	619.87	620.78	621.14	DUP	621.22	604.75	625.11		
PVOCs & Detected VOCs																																
Benzene	µg/L	0.3 J	<0.22	<0.22	0.29 J	<0.22	<2.2	<0.33	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.33	<0.22	<2.2	<2.2	<1.65	<0.22	<0.33	<0.33	<0.22	<0.22	<0.22	<0.33	<0.33	<0.33	<0.33	<0.33	5	0.5
Bromobenzene	µg/L	<0.43	<0.44	<0.44	<0.44	<0.44	<4.4	<0.26	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.26	<0.44	<4.4	<4.4	<1.3	<0.44	<0.26	<0.26	<0.44	<0.44	<0.44	<0.26	<0.26	<0.26	<0.26	<0.26	NS	NS
Bromodichloromethane	µg/L	<0.31	<0.33	<0.33	<0.33	<0.33	<3.3	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<3.3	<3.3	<1.65	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.6	0.06
Bromoform	µg/L	<0.49	<0.45	<0.45	<0.45	<0.45	<4.5	<0.65	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.65	<0.45	<4.5	<4.5	<3.25	<0.45	<0.65	<0.65	<0.45	<0.45	<0.45	<0.65	<0.65	<0.65	<0.65	<0.65	4.4	0.44
tert-Butylbenzene	µg/L	<0.39	<0.25	<0.25	<0.25	<0.25	<2.5	<0.61	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.61	<0.25	<2.5	<2.5	<3.05	<0.25	<0.61	<0.61	<0.25	<0.25	<0.25	<0.61	<0.61	<0.61	<0.61	<0.61	NS	NS
sec-Butylbenzene	µg/L	<0.24	<0.79	<0.79	<0.79	<0.79	<7.9	<0.32	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.32	<0.79	<7.9	<7.9	<1.6	<0.79	<0.32	<0.32	<0.79	<0.79	<0.79	<0.32	<0.32	<0.32	<0.32	<0.32	NS	NS
n-Butylbenzene	µg/L	<0.34	<0.71	<0.71	<0.71	<0.71	<7.1	<0.28	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.28	<0.71	<7.1	<7.1	<1.4	<0.71	<0.28	<0.28	<0.71	<0.71	<0.71	<0.28	<0.28	<0.28	<0.28	<0.28	NS	NS
Carbon Tetrachloride	µg/L	<0.21	<0.31	<0.31	<0.31	<0.31	<3.1	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<3.1	<3.1	<1.55	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	5	0.5
Chlorobenzene	µg/L	0.8 J	0.71 J	0.4 J	0.73 J	0.74 J	<2.6	0.47J	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.39	<0.26	<2.6	<2.6	<1.95	<0.26	<0.39	<0.39	<0.26	<0.26	<0.26	<0.39	<0.39	<0.39	<0.39	<0.39	NS	NS
Chloroethane	µg/L	<0.5	<0.61	<0.61	<0.61	<0.61	<6.1	<1.1	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<1.1	<0.61	<6.1	<6.1	<5.5	<0.61	<1.1	<1.1	<0.61	<0.61	<0.61	<1.1	<1.1	<1.1	<1.1	<1.1	400	80
Chloroform	µg/L	<0.96	<0.26	<0.26	<0.26	<0.26	<2.6	<0.44	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.44	0.53 J	<2.6	*2.8 J*	<2.2	<0.26	<0.44	<0.44	<0.26	<0.26	<0.26	<0.44	<0.44	<0.44	<0.44	<0.44	6	0.6
Chloromethane	µg/L	<1.3	<0.54	<0.54	<0.54	<0.54	<5.4	<0.8	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.8	<0.54	<5.4	<5.4	<4	<0.54	<0.8	<0.8	<0.54	<0.54	<0.54	<0.8	<0.8	<0.8	<0.8	<0.8	30	3
2-Chlorotoluene	µg/L	<0.36	<0.31	<0.31	<0.31	<0.31	<3.1	<0.32	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.32	<0.31	<3.1	<3.1	<1.6	<0.31	<0.32	<0.32	<0.31	<0.31	<0.31	<0.32	<0.32	<0.32	<0.32	<0.32	NS	NS
4-Chlorotoluene	µg/L	<0.35	<0.26	<0.26	<0.26	<0.26	<2.6	<0.3	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.3	<0.26	<2.6	<2.6	<1.5	<0.26	<0.3	<0.3	<0.26	<0.26	<0.26	<0.3	<0.3	<0.3	<0.3	<0.3	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	<1.88	<2.96	<2.96	<2.96	<2.96	<29.6	<0.82	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<0.82	<2.96	<29.6	<29.6	<4.1	<2.96	<0.82	<0.82	<2.96	<2.96	<2.96	<0.82	<0.82	<0.82	<0.82	<0.82	0.2	0.02
Dibromochloromethane	µg/L	<0.45	<0.22	<0.22	<0.22	<0.22	<2.2	<0.23	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.23	<0.22	<2.2	<2.2	<1.15	<0.22	<0.23	<0.23	<0.22	<0.22	<0.22	<0.23	<0.23	<0.23	<0.23	<0.23	60	6
1,4-Dichlorobenzene	µg/L	<0.42	<0.7	<0.7	<0.7	<0.7	<7.0	<0.36	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.36	<0.7	<7.0	<7.0	<1.8	<0.7	<0.36	<0.36	<0.7	<0.7	<0.7	<0.36	<0.36	<0.36	<0.36	<0.36	75	15
1,3-Dichlorobenzene	µg/L	<0.45	<0.85	<0.85	<0.85	<0.85	<8.5	<0.31	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.31	<0.85	<8.5	<8.5	<1.55	<0.85	<0.31	<0.31	<0.85	<0.85	<0.85	<0.31	<0.31	<0.31	<0.31	<0.31	600	120
1,2-Dichlorobenzene	µg/L	<0.34	<0.86	<0.86	<0.86	<0.86	<8.6	<0.32	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.32	<0.86	<8.6	<8.6	<1.6	<0.86	<0.32	<0.32	<0.86	<0.86	<0.86	<0.32	<0.32	<0.32	<0.32	<0.32	600	60
Dichlorodifluoromethane	µg/L	<0.38	<0.32	<0.32	<0.32	<0.32	<3.2	<0.45	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.45	<0.32	<3.2	<3.2	<2.25	<0.32	<0.45	<0.45	<0.32	<0.32	<0.32	<0.45	<0.45	<0.45	<0.45	<0.45	1,000	200
1,2-Dichloroethane	µg/L	<0.45	<0.25	<0.25	<0.25	<0.25	<2.5	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.39	<0.25	<2.5	<2.5	<1.95	<0.25	<0.39	<0.39	<0.25	<0.25	<0.25	<0.39	<0.39	<0.39	<0.39	<0.39	5	0.5
1,1-Dichloroethane	µg/L	9.9	6.7	4.2	10.6	7.6	9.0 J	4	9.0	9.0	7.7	<0.36	<0.36	<0.36	<0.46	<0.36	<3.6	<3.6	3.4J	0.96 J	0.97 J	0.97J	<0.36	<0.36	<0.36	<0.46	<0.46	<0.46	<0.46	<0.46	850	85
1,1-Dichloroethene	µg/L	*1.04 J*	<0.42	<0.42	0.43 J	0.46 J	<4.2	<0.5	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.5	*1.15 J*	<4.2	<4.2	4.2J	<0.42	<0.5	<0.5	<0.42	<0.42	<0.42	<0.5	<0.5	<0.5	<0.5	<0.5	7	0.7
cis-1,2-Dichloroethene	µg/L	*30.8*	*12*	*9.6*	*17.6*	*16.2*	*13.2*	*7.9*	*11.5*	6.2	6.8	2.2	6.5	6.3	1.27	1.68	<3.7	**9.0 J**	*17.5*	*12.2*	*12.4*	*13.9*	<0.37	<0.37	<0.37	<0.39	<0.39	<0.39	<0.39	<0.39	70	7
trans-1,2-Dichloroethene	µg/L	*24.1*	1.49	0.99 J	2.32	1.97	<3.4	1.44	6.1	1.12	<0.34	3.6	9.8	11.4	1.66	<0.34	<3.4	6.9 J	*21.5*	1.44	1.21	1.94	<0.34	<0.34	<0.34	<0.37	<0.37	<0.37	<0.37	<0.37	100	20
1,2-Dichloropropane	µg/L	<0.39	<0.44	<0.44	<0.44	<0.44	<4.4	<0.38	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.38	<0.44	<4.4	<4.4	<1.9	<0.44	<0.38	<0.38	<0.44	<0.44	<0.44	<0.38	<0.38	<0.38	<0.38	<0.38	5	0.5
2,2-Dichloropropane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1,3-Dichloropropane	µg/L	<0.49	<0.3	<0.3	<0.3	<0.3	<3.0	<0.35	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.35	<0.3	<3.0	<3.0	<1.75	<0.3	<0.35	<0.35	<0.3	<0.3	<0.3	<0.35	<0.35	<0.35	<0.35	<0.35	NS	NS
trans-1,3-Dichloropropene	µg/L	<0.42	<0.32	<0.32	<0.32	<0.32	<3.2	<0.3	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.3	<0.32	<3.2	<3.2	<1.5	<0.32	<0.3	<0.3	<0.32	<0.32	<0.32	<0.3	<0.3	<0.3	<0.3	<0.3	NS	NS
cis-1,3-Dichloropropene	µg/L	<0.21	<0.26	<0.26	<0.26	<0.26	<2.6	<0.36	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.36	<0.26	<2.6	<2.6	<1.8	<0.26	<0.36	<0.36	<0.26	<0.26	<0.26	<0.36	<0.36	<0.36	<0.36	<0.36	NS	NS
Di-isopropyl ether	µg/L	<0.26	<0.21	<0.21	<0.21	<0.21	<2.1	<0.34	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.34	<0.21	<2.1	<2.1	<1.7	<0.21	<0.34	<0.34	<0.21	<0.21	<0.21	<0.34	<0.34	<0.34	<0.34	<0.34	NS	NS
EDB (1,2-Dibromoethane)	µg/L	<0.34	<0.34	<0.34	<0.34	<0.34	<3.4	<0.24	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.24	<0.34	<3.4	<3.4	<1.2	<0.34	<0.24	<0.24	<0.34	<0.34	<0.34	<0.24	<0.24	<0.24	<0.24	<0.24	0.05	0.005
Ethylbenzene	µg/L	<0.2	<0.26	<0.26	<0.26	<0.26	<2.6	<0.32	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.32	<0.26	<2.6	<2.6	<1.6	<0.26	<0.32	<0.32	<0.26	<0.26	<0.26	<0.32	<0.32	<0.32	<0.32	<0.32	700	140
Hexachlorobutadiene	µg/L	<1.47	<1.34	<1.34	<1.34	<1.34	<13.4	<0.72	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<0.72	<1.34	<13.4	<13.4	<3.6	<1.34	<0.72	<0.72	<1.34	<1.34	<1.34	<0.72	<0.72	<0.72	<0.72	<0.72	NS	NS
Isopropylbenzene	µg/L	<0.29	<0.78	<0.78	<0.78	<0.78	<7.8	<0.32	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.32	<0.78	<7.8	<7.8	<1.6	<0.78	<0.32	<0.32	<0.78	<0.78	<0.78	<0.32	<0.32	<0.32	<0.32	<0.32	NS	NS
p-Isopropyltoluene	µg/L	<0.28	<0.24	<0.24	<0.24	<0.24	<2.4	<0.47	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.47	<0.24	<2.4	<2.4	<2.35	<0.24	<0.47	<0.47	<0.24	<0.24	<0.24	<0.47	<0.47	<0.47	<0.47	<0.47	NS	NS
Methylene Chloride	µg/L	<0.94	<1.32	<1.32	<1.32	<1.32	<13.2	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<13.2	<13.2	<6.6	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	5	0.5
Methyl-tert-butyl-ether	µg/L	<0.82	<0.28	<0.28	<0.28	<0.28	<2.8	<0.47	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.47	<0.28	<2.8	<2.8	<2.35	<0.28	<0.47	<0.47	<0.28	<0.28	<0.28	<0.47	<0.47	<0.47	<0.47	<0.47	60	12
Naphthalene	µg/L	<2.17	<2.1	<2.1	<2.1	<2.1	<21	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<1.1	<2.1	<21	<21	<5.5	<2.1	<1.1	<1.1	<2.1	<2.1	<2.1	<1.1	<1.1	<1.1	<1.1	<1.1	100	10
n-Propylbenzene	µg/L	<0.19	<0.61	<0.61	<0.61	<0.61	<6.1	<0.33	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.33	<0.61	<6.1	<6.1	<1.65	<0.61	<0.33	<0.33	<0.61	<0.61	<0.61	<0.33	<0.33	<0.33	<0.33	<0.33	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	<0.69	<0.3	<0.3	<0.3	<0.3	<3.0	<0.37	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.37	<0.3	<3.0	<3.0	<1.85	<0.3	<0.37	<0.37	<0.3	<0.3	<0.3	<0.37	<0.37	<0.37	<0.37	<0.37	0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	<0.47	<0.35	<0.35	<0.35	<0.35	<3.5	<0.88	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.88	<0.35	<3.5	<3.5	<4.4	<0.35	<0.88	<0.88	<0.35	<0.35	<0.35	<0.88	<0.88	<0.88	<0.88	<0.88	70	7
Tetrachloroethene (PCE)	µg/L	<0.48	<0.38	<0.38	<0.38	<0.38	<3.8	<0.33	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.33	*2.48*	*4.4 J*	*4.5 J*	**6.8**	<0.38	<0.33	<0.33	<0.38	<0.38	<0.38	<0.33	<0.33	<0.33	<0.33	<0.33	5	0.5
Toluene	µg/L	<0.67	<0.19	<0.19	<0.19	<0.19	<1.9	<0.26	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.26	<0.19	<1.9	<1.9	<1.3	<0.19	<0.26	<0.26	0.22 J	<0.19	<0.19	<0.26	<0.26	<0.26	<0.26	<0.26	800	160
1,2,4-Trichlorobenzene	µg/L	<1.29	<1.15	<1.15	<1.15	<1.15	<11.5	<0.44	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<0.44	<1.15	<11.5	<11.5	<2.2	<1.15	<0.44	<0.44	<1.15	<1.15	<1.15	<0.44	<0.44	<0.44	<0.44	<0.44	70	14
1,2,3-Trichlorobenzene	µg/L	<0.83	<1.71	<1.71	<1.71	<1.71	<17.1	<1.0	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.0	<1.71	<17.1	<17.1	<5.0	<1.71	<1.0	<1.0	<1.71	<1.71	<1.71	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NS
1,1,1-Trichloroethane	µg/L	5.0	5.0	3.8	2.8	4.9	<3.3	2.28	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.3	2.6	<3.3	<3.3	4.8	<0.33	<0.3	<0.3	<0.33	<0.33	<0.33	<0.3	<0.3	<0.3	<0.3	<0.3	200	40
1,1,2-Trichloroethane	µg/L	<0.65	<0.42	<0.42	<0.42	<0.42	<4.2	<0.36	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.36	<0.42	<4.2	<4.2	<1.8	<0.42	<0.36	<0.36	<0.42	<0.42	<0.42	<0.36	<0.36	<0.36	<0.36	<0.36	5	0.5
Trichloroethene (TCE)	µg/L	**82**	**34**	**31.4**	**23.1**	**40**	*4.7 J*	**21.3**	0.36 J	*0.78 J*	*0.93 J*	**6.4**	**13.7**	**11.1**	*4.4*	**236**	**220**	**410**	**920**	*0.77 J*	*0.66 J*	*0.97J*	<0.3	<0.3	<0.3	<0.47	<0.47	<0.47	<0.47	<0.47	5	0.5
Trichlorofluoromethane	µg/L	<0.64	<0.35	<0.35	<0.35	<0.35	<3.5	<0.42	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.42	<0.35	<3.5	<3.5	<2.1	<0.35	<0.42	<0.42	<0.35	<0.35	<0.35	<0.42	<0.42	<0.42	<0.42	<0.42	3,490	698
1,2,4-Trimethylbenzene	µg/L	<1.14	<0.8	<0.8	<0.8	<0.8	<8.0	<0.3	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.3	<0.8	<8.0	<8.0	<1.5	<0.8	<0.3	<0.3	<0.8	<0.8	<0.8	<0.3	<0.3	<0.3	<0.3	<0.3	NS	NS
1,3,5-Trimethylbenzene	µg/L	<0.91	<0.63	<0.63	<0.63	<0.63	<6.3	<0.32	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.32	<0.63	<6.3	<6.3	<1.6	<0.63	<0.32	<0.32	<0.63	<0.63	<0.63	<0.32	<0.32	<0.32	<0.32	<0.32	NS	NS
Total Trimethylbenzene	µg/L	<2.05	<1.43	<1.43	<1.43	<1.43	<14.3	<0.62	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<0.62	<1.43	<14.3	<14.3	<3.1	<1.43	<0.62	<0.62	<1.43	<1.43	<1.43	<0.62	<0.62	<0.62	<0.62	<0.62	480	96
Vinyl Chloride	µg/L	**13**	**1.24**	**1.99**	**12**	**6.6**	**14.2**	**5.1**	**0.21 J**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2.0	<2.0	1.35J	**1.49**	**1.31**	**1.6**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.02
Xylenes, Total	µg/L	<1.95	<0.72	<0.72	<0.72	<0.72	<7.2	<1.48	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<1.48	<0.72	<7.2	<7.2	<7.4	<0.72	<1.48	<1.48	<0.72	<0.72	<0.72	<1.48	<1.48	<1.48	<1.48	<1.48	2,000	400
PAHs																																
Acenaphthene	µg/L	NA	NA	NA	0.0096 J	NA	NA	NA	0.0141 J	NA	NA	0.0122 J	NA	NA	NA	0.038	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Acenaphthylene	µg/L	NA	NA	NA	<0.009	NA	NA	NA	<0.009	NA	NA	<0.009	NA	NA	NA	<0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Anthracene	µg/L	NA	NA	NA	0.0179 J	NA	NA	NA	<0.009	NA	NA	<0.009	NA	NA	NA	<0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,000	600
Benzo(a)anthracene	µg/L	NA	NA	NA	<0.017	NA	NA	NA	<0.017	NA	NA	<0.017	NA	NA	NA	<0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Benzo(a)pyrene	µg/L	NA	NA	NA	<0.017	NA	NA	NA	<0.017	NA	NA	<0.017	NA	NA	NA	<0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Benzo(b)fluoranthene	µg/L	NA	NA	NA	<0.02	NA	NA	NA	<0.02	NA	NA	<0.02	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Benzo(ghi)perylene	µg/L	NA	NA	NA	<0.011	NA	NA	NA	<0.011	NA	NA	<0.011	NA	NA	NA	<0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Benzo(k)fluoranthene	µg/L	NA	NA	NA	<0.014	NA	NA	NA	<0.014	NA	NA	<0.014	NA	NA	NA	<0.014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Chrysene	µg/L	NA	NA	NA	<0.019	NA	NA	NA	<0.019	NA	NA	<0.019	NA	NA	NA	<0.019	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Dibenzo(a,h)anthracene	µg/L	NA	NA	NA	<0.01	NA	NA	NA	<0.01	NA	NA	<0.01	NA	NA	NA	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Fluoranthene	µg/L	NA	NA	NA	<0.031	NA	NA	NA	<0.031	NA	NA	<0.031	NA	NA	NA	<0.031	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/L	NA	NA	NA	<0.011	NA	NA	NA	<0.011	NA	NA	<0.011	NA	NA	NA	<0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Indeno(1,2,3-cd)pyrene	µg/L	NA	NA	NA	<0.012	NA	NA	NA	<0.012	NA	NA	<0.012	NA	NA	NA	<0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1-Methylnaphthalene	µg/L	NA	NA	NA	<0.0239	NA	NA	NA	<0.0239	NA	NA	<0.0239	NA	NA	NA	<0.0239	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
2-Methylnaphthalene	µg/L	NA	NA	NA	<0.0236	NA	NA	NA	<0.0236	NA	NA	<0.0236	NA	NA	NA	<0.0236	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Naphthalene	µg/L	NA	NA	NA	<0.023	NA	NA	NA	<0.023	NA	NA	<0.023	NA	NA	NA	0.045 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	10
Phenanthrene	µg/L	NA	NA	NA	<0.025	NA	NA	NA	<0.025	NA	NA	<0.025	NA	NA	NA	<0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Pyrene	µg/L	NA	NA	NA	<0.03	NA	NA	NA	<0.03	NA	NA	<0.03	NA	NA	NA	<0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	50
Dissolved Metals																																
Arsenic	µg/L	NA	NA	NA	<0.6	NA	NA	NA	<0.6	NA	NA	<0.6	NA	NA	NA	<0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	1
Barium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,000	400
Cadmium	µg/L	NA	NA	NA	**28.4**	**28.3**	**12.4**	**17.1**	**7.6**	**18.1**	**17.2**	<0.4	NA	NA	NA	**11.1 J**	*3.4*	**6.58**	**4.4**	NA	<0.4	NA	<0.4	NA	NA	<0.4	NA	NA	<0.4	NA	5	0.5
Chromium	µg/L	NA	NA	NA	<3.9	NA	NA	NA	<3.9	NA	NA	<3.9	NA	NA	NA	<3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	10
Lead	µg/L	NA	NA	NA	<0.8	NA	NA	NA	<0.8	NA	NA	<4.0	NA	NA	NA	<0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	1.5
Mercury	µg/L	NA	NA	NA	<0.1	NA	NA	NA	<0.1	NA	NA	<0.1	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	0.2
Selenium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	10
Silver	µg/L	NA	NA	NA	<8.4	NA	NA	NA	<8.4	NA	NA	<8.4	NA	NA	NA	<8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	10
Zinc	µg/L	NA	NA	NA	707	835	NA	NA	490	706	NA	55.9	NA	NA	NA	117	631	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS

Notes:
1. NR 140 ES = Wis Admin Code, Ch. NR140 ES
2. NR 140 PAL = Wis Admin Code, Ch. NR140 PAL
3. NS = no standard
4. µg/L = micrograms per liter (parts per billion, ppb)
5. NA = Not Analyzed
6. Lab flags: "J" = Analyte detected between LOD and LOQ
7. Trip blank results:
10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: Methylene chloride reported above LDL
All other VOCs reported below LDL
1/5/18: All VOCs reported below LDL
2/21/19: All VOCs reported below LDL
3/26/18: All VOCs reported below LDL
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: All VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: All VOCs reported below LDL
1/31/20: All VOCs reported below LDL
2/19/20: All VOCs reported below LDL
4/9/20: All VOCs reported below LDL

8. Equipment blank results:
10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: No equipment blank collected
1/5/18: No equipment blank collected
2/21/19: All VOCs reported below LDL
3/26/18: No equipment blank collected
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: Chloroform reported above LDL
Other VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: No equipment blank collected
1/31/20: All ' = Concentration exceeds NR140 ES
2/19/20: All ' = Concentration exceeds NR140 PAL
4/9/20: All VOCs reported below LDL

9. Exceedances
BOLD = Concentration exceeds NR140 ES
10. Special *ITALICS* = Concentration exceeds NR140 PAL
* = monitoring well screen submerged below water table
** = not a statistically valid PAL exceedance per NR140.14(3)(c)

ES = Enforcement Standard
PAL = Preventive Action Limit
LOD = Limit of Detection
LOQ = Limit of Quantitation
LDL = Laboratory Detection Limit

11. Groundwater Elevation Notes

NZ = Well casing elevation not surveyed

Table 3
Groundwater Analytical Table
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

Well Location:		MW-4A									MW-5A									NR 140 ES	NR 140 PAL
Date:		7/17/12	2/4/15	8/9/17	12/1/17	2/21/18	5/30/18	11/7/18	12/13/18	7/26/19	7/17/12	2/4/15	8/9/17	12/1/17	2/20/18	5/30/18	11/8/18	12/13/18	7/26/19		
Water Elevation* (feet MSL):		628.79	628.60	628.58	628.40	628.38	629.37	628.82	628.97	628.72	628.84	628.80	628.86	628.72	628.74	629.65	628.95	629.16	628.99		
PVOCs & Detected VOCs																					
Benzene	µg/L	<0.5	<0.44	<0.17	0.36 J	***2.28***	<0.22	<0.22	<0.22	<0.22	<50	<44	<17	<17	<22	<22	<22	<11	<11	5	0.5
Bromobenzene	µg/L	<0.74	<0.48	<0.43	<0.43	<0.44	<0.44	<0.44	<0.44	<0.44	<74	<48	<43	<43	<44	<44	<44	<22	<22	NS	NS
Bromodichloromethane	µg/L	<0.68	<0.46	<0.31	<0.31	<0.33	<0.33	<0.33	<0.33	<0.33	<68	<46	<31	<31	<33	<33	<33	<16.5	<16.5	0.6	0.06
Bromoform	µg/L	<0.43	<0.46	<0.49	<0.49	<0.45	<0.45	<0.45	<0.45	<0.45	<43	<46	<49	<49	<45	<45	<45	<22.5	<22.5	4.4	0.44
tert-Butylbenzene	µg/L	<0.71	<1.1	<0.39	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	<71	<110	<39	<39	<25	<25	<25	<12.5	<12.5	NS	NS
sec-Butylbenzene	µg/L	<1.0	<1.2	<0.24	<0.24	<0.79	<0.79	<0.79	<0.79	<0.79	<100	<120	<24	<24	<79	<79	<79	<39.5	<39.5	NS	NS
n-Butylbenzene	µg/L	<0.9	<1.0	<0.34	<0.34	<0.71	<0.71	<0.71	<0.71	<0.71	<90	<100	<34	<34	<71	<71	<71	<35.5	<35.5	NS	NS
Carbon Tetrachloride	µg/L	<0.47	<0.65	<0.21	<0.21	<0.31	<0.31	<0.31	<0.31	<0.31	<47	<65	<21	<21	<31	<31	<31	<15.5	<15.5	5	0.5
Chlorobenzene	µg/L	<0.51	<0.46	<0.27	<0.27	<0.26	<0.26	<0.26	<0.26	<0.26	<51	<46	<27	<27	<26	<26	<26	<13	<13	NS	NS
Chloroethane	µg/L	<1.4	5.3	1.21 J	4.4	9.7	<0.61	<0.61	<0.61	<0.61	<140	<65	<50	<50	<61	<61	<61	<30.5	<30.5	400	80
Chloroform	µg/L	<0.49	<0.43	<0.96	<0.96	<0.26	<0.26	<0.26	<0.26	<0.26	<49	<43	<96	<96	<26	<26	<26	<13	<13	6	0.6
Chloromethane	µg/L	<1.9	<1.9	<1.3	<1.3	<0.54	<0.54	<0.54	<0.54	<0.54	<190	<190	<130	<130	<54	<54	<54	<27	<27	30	3
2-Chlorotoluene	µg/L	<0.7	<0.4	<0.36	<0.36	<0.31	<0.31	<0.31	<0.31	<0.31	<70	<40	<36	<36	<31	<31	<31	<15.5	<15.5	NS	NS
4-Chlorotoluene	µg/L	<0.44	<0.63	<0.35	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	<44	<63	<35	<35	<26	<26	<26	<13	<13	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	<2.8	<1.4	<1.88	<1.88	<2.96	<2.96	<2.96	<2.96	<2.96	<280	<140	<188	<188	<296	<296	<296	<148	<148	0.2	0.02
Dibromochloromethane	µg/L	<0.55	<0.45	<0.45	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	<55	<45	<45	<45	<22	<22	<22	<11	<11	60	6
1,4-Dichlorobenzene	µg/L	<0.98	<0.49	<0.42	<0.42	<0.7	<0.7	<0.7	<0.7	<0.7	<98	<49	<42	<42	<70	<70	<70	<35	<35	75	15
1,3-Dichlorobenzene	µg/L	<0.87	<0.52	<0.45	<0.45	<0.85	<0.85	<0.85	<0.85	<0.85	<87	<52	<45	<45	<85	<85	<85	<42.5	<42.5	600	120
1,2-Dichlorobenzene	µg/L	<0.76	<0.46	<0.34	<0.34	<0.86	<0.86	<0.86	<0.86	<0.86	<76	<46	<34	<34	<86	<86	<86	<43	<43	600	60
Dichlorodifluoromethane	µg/L	<1.8	<0.87	<0.38	<0.38	<0.32	<0.32	<0.32	<0.32	<0.32	<180	<87	<38	<38	<32	<32	<32	<16	<16	1,000	200
1,2-Dichloroethane	µg/L	<0.5	<0.54	<0.45	<0.45	<0.25	<0.25	<0.25	<0.25	<0.25	<50	<54	<45	<45	<25	<25	<25	<12.5	<12.5	5	0.5
1,1-Dichloroethane	µg/L	13.7	7.7	3.5	6.9	4.7	3.7	3.3	2.72	2.36	***360***	***207 J***	***350***	***155***	***234***	76 J	***213***	***245***	***243***	850	85
1,1-Dichloroethene	µg/L	***2.25***	***0.86 J***	***0.76 J***	***1.45 J***	***1.29 J***	***2.21***	***0.7 J***	***1.14 J***	0.44 J	**320**	**149 J**	**154**	**182**	**127 J**	<42	***45 J***	**72**	**54 J**	7	0.7
cis-1,2-Dichloroethene	µg/L	2.21 J	1.03 J	0.43 J	0.84 J	1.05 J	<0.37	0.4 J	<0.37	<0.37	<74	<45	<41	<41	<37	<37	<37	<18.5	<18.5	70	7
trans-1,2-Dichloroethene	µg/L	<0.79	<0.54	<0.35	<0.35	<0.34	<0.34	<0.34	<0.34	<0.34	<79	<54	<35	<35	<34	<34	<34	<17	<17	100	20
1,2-Dichloropropane	µg/L	<0.4	<0.43	<0.39	<0.39	<0.44	<0.44	<0.44	<0.44	<0.44	<40	<43	<39	<39	<44	<44	<44	<22	<22	5	0.5
2,2-Dichloropropane	µg/L	<1.9	<3.1	NA	NA	NA	NA	NA	NA	NA	<190	<310	NA	NA	NA	NA	NA	NA	NA	NS	NS
1,3-Dichloropropane	µg/L	<0.74	<0.42	<0.49	<0.49	<0.3	<0.3	<0.3	<0.3	<0.3	<71	<42	<49	<49	<30	<30	<30	<15	<15	NS	NS
trans-1,3-Dichloropropene	µg/L	NA	NA	<0.42	<0.42	<0.32	<0.32	<0.32	<0.32	<0.32	NA	NA	<42	<42	<32	<32	<32	<16	<16	NS	NS
cis-1,3-Dichloropropene	µg/L	NA	NA	<0.21	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	NA	NA	<21	<21	<26	<26	<26	<13	<13	NS	NS
Di-isopropyl ether	µg/L	<0.69	<0.44	<0.26	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	<69	<44	<26	<26	<21	<21	<21	<10.5	<10.5	NS	NS
EDB (1,2-Dibromoethane)	µg/L	<0.63	<0.63	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<63	<63	<34	<34	<34	<34	<34	<17	<17	0.05	0.005
Ethylbenzene	µg/L	<0.78	<0.71	<0.2	<0.2	<0.26	<0.26	<0.26	<0.26	<0.26	<78	<71	<20	<20	<26	<26	<26	<13	<13	700	140
Hexachlorobutadiene	µg/L	<2.2	<2.2	<1.47	<1.47	<1.34	<1.34	<1.34	<1.34	<1.34	<220	<220	<147	<147	<134	<134	<134	<67	<67	NS	NS
Isopropylbenzene	µg/L	<0.92	<0.82	<0.29	<0.29	<0.78	<0.78	<0.78	<0.78	<0.78	<92	<82	<29	<29	<78	<78	<78	<39	<39	NS	NS
p-Isopropyltoluene	µg/L	<0.92	<1.1	<0.28	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<92	<110	<28	<28	<24	<24	<24	<12	<12	NS	NS
Methylene Chloride	µg/L	<1.1	<1.3	<0.94	<0.94	<1.32	<1.32	<1.32	<1.32	<1.32	<110	<130	<94	<94	<132	<132	<132	<66	<66	5	0.5
Methyl-tert-butyl-ether	µg/L	<0.8	<1.1	<0.82	<0.82	<0.28	<0.28	<0.28	<0.28	<0.28	<80	<110	<82	<82	<28	<28	<28	<14	<14	60	12
Naphthalene	µg/L	<2.1	<1.6	<2.17	<2.17	<2.1	<2.1	<2.1	<2.1	<2.1	<210	<160	<217	<217	<210	<210	<210	<105	<105	100	10
n-Propylbenzene	µg/L	<0.59	<0.77	<0.19	<0.19	<0.61	<0.61	<0.61	<0.61	<0.61	<59	<77	<19	<19	<61	<61	<61	<30.5	<30.5	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	<0.53	<0.52	<0.69	<0.69	<0.3	<0.3	<0.3	<0.3	<0.3	<53	<52	<69	<69	<30	<30	<30	<15	<15	0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	<1.0	<0.48	<0.47	<0.47	<0.35	<0.35	<0.35	<0.35	<0.35	<100	<48	<47	<47	<35	<35	<35	<17.5	<17.5	70	7
Tetrachloroethene (PCE)	µg/L	***3.16***	***2.74***	***1.89***	***1.98***	***2.28***	***1.63***	***0.72 J***	***1.41***	***1.96***	<44	<74	<48	<48	<38	<38	<38	<19	<19	5	0.5
Toluene	µg/L	<0.53	<0.44	<0.67	<0.67	0.29 J	<0.19	<0.19	<0.19	<0.19	<53	<44	<67	<67	<19	<19	<19	<9.5	<9.5	800	160
1,2,4-Trichlorobenzene	µg/L	<1.5	<1.7	<1.29	<1.29	<1.15	<1.15	<1.15	<1.15	<1.15	<150	<170	<129	<129	<115	<115	<115	<57.5	<57.5	70	14
1,2,3-Trichlorobenzene	µg/L	<1.3	<2.7	<0.83	<0.83	<1.71	<1.71	<1.71	<1.71	<1.71	<130	<270	<83	<83	<171	<171	<171	<85.5	<85.5	NS	NS
1,1,1-Trichloroethane	µg/L	36	20	22.4	11.5	5.2	18.5	11.1	16.3	23.8	**7600**	**12300**	**10600**	**8400**	**9400**	**7300**	**4700**	**6600**	**3600**	200	40
1,1,2-Trichloroethane	µg/L	<0.47	<0.48	<0.65	<0.65	<0.42	<0.42	<0.42	<0.42	<0.42	<47	<48	<65	<65	<42	<42	<42	<21	<21	5	0.5
Trichloroethene (TCE)	µg/L	**14.2**	**8.0**	**10.2**	**7.1**	**5.4**	**6.7**	**5.1**	**6.5**	**8.6**	<47	<47	<45	<45	<30	<30	<30	<15	<15	5	0.5
Trichlorofluoromethane	µg/L	<1.7	<0.87	<0.64	<0.64	<0.35	<0.35	<0.35	<0.35	<0.35	<170	<87	<64	<64	<35	<35	<35	<17.5	<17.5	3,490	698
1,2,4-Trimethylbenzene	µg/L	<0.8	<1.6	<1.14	<1.14	<0.8	<0.8	<0.8	<0.8	<0.8	<80	<160	<114	<114	<80	<80	<80	<40	<40	NS	NS
1,3,5-Trimethylbenzene	µg/L	<0.74	<1.5	<0.91	<0.91	<0.63	<0.63	<0.63	<0.63	<0.63	<74	<150	<91	<91	<63	<63	<63	<31.5	<31.5	NS	NS
Total Trimethylbenzene	µg/L	<1.54	<3.1	<2.05	<2.05	<1.43	<1.43	<1.43	<1.43	<1.43	<154	<310	<205	<205	<143	<143	<143	<71.5	<71.5	480	96
Vinyl Chloride	µg/L	<0.18	**2.96**	**0.67**	**4.0**	**7.3**	**0.30 J**	**0.35 J**	**0.34 J**	<0.2	<18	<17	<19	<19	<0.2	<20	<20	<10	<10	0.2	0.02
Xylenes, Total	µg/L	<1.1	<3.1	<1.95	<1.95	<0.72	<0.72	<0.72	<0.72	<0.72	<110	<310	<195	<195	<0.72	<0.72	<72	<36	<36	2,000	400
PAHs															NA						
Acenaphthene	µg/L	1.72	NA	NA	NA	NA	NA	0.0211 J	NA	NA	3.2	NA	NA	NA	NA	NA	2.1	NA	NA	NS	NS
Acenaphthylene	µg/L	0.42 J	NA	NA	NA	NA	NA	<0.009	NA	NA	0.52	NA	NA	NA	NA	NA	0.296	NA	NA	NS	NS
Anthracene	µg/L	5.9	NA	NA	NA	NA	NA	0.014 J	NA	NA	1.23	NA	NA	NA	NA	NA	0.181	NA	NA	3,000	600
Benzo(a)anthracene	µg/L	4.6	NA	NA	NA	NA	NA	<0.017	NA	NA	0.74	NA	NA	NA	NA	NA	<0.017	NA	NA	NS	NS
Benzo(a)pyrene	µg/L	**2.44**	NA	NA	NA	NA	NA	<0.017	NA	NA	**0.38**	NA	NA	NA	NA	NA	<0.017	NA	NA	0.2	0.02
Benzo(b)fluoranthene	µg/L	**1.07**	NA	NA	NA	NA	NA	<0.02	NA	NA	**0.291 J**	NA	NA	NA	NA	NA	<0.02	NA	NA	0.2	0.02
Benzo(ghi)perylene	µg/L	1.85	NA	NA	NA	NA	NA	<0.011	NA	NA	0.224	NA	NA	NA	NA	NA	<0.011	NA	NA	NS	NS
Benzo(k)fluoranthene	µg/L	<0.22	NA	NA	NA	NA	NA	<0.014	NA	NA	<0.11	NA	NA	NA	NA	NA	<0.014	NA	NA	NS	NS
Chrysene	µg/L	**6.6**	NA	NA	NA	NA	NA	<0.019	NA	NA	**1.03**	NA	NA	NA	NA	NA	<0.019	NA	NA	0.2	0.02
Dibenzo(a,h)anthracene	µg/L	0.316 J	NA	NA	NA	NA	NA	<0.01	NA	NA	<0.095	NA	NA	NA	NA	NA	<0.01	NA	NA	NS	NS
Fluoranthene	µg/L	4.4	NA	NA	NA	NA	NA	<0.031	NA	NA	0.68	NA	NA	NA	NA	NA	<0.031	NA	NA	400	80
Fluorene	µg/L	1.61	NA	NA	NA	NA	NA	<0.011	NA	NA	2.82	NA	NA	NA	NA	NA	0.92	NA	NA	400	80
Indeno(1,2,3-cd)pyrene	µg/L	0.53 J	NA	NA	NA	NA	NA	<0.012	NA	NA	0.098 J	NA	NA	NA	NA	NA	<0.012	NA	NA	NS	NS
1-Methylnaphthalene	µg/L	2.94	NA	NA	NA	NA	NA	<0.0239	NA	NA	28.6	NA	NA	NA	NA	NA	19.1	NA	NA	NS	NS
2-Methylnaphthalene	µg/L	<0.24	NA	NA	NA	NA	NA	<0.0236	NA	NA	5.8	NA	NA	NA	NA	NA	3.9	NA	NA	NS	NS
Naphthalene	µg/L	<0.21	NA	NA	NA	NA	NA	0.0312 J	NA	NA	***10.5***	NA	NA	NA	NA	NA	8.7	NA	NA	100	10
Phenanthrene	µg/L	12.7	NA	NA	NA	NA	NA	0.0315 J	NA	NA	5.3	NA	NA	NA	NA	NA	0.89	NA	NA	NS	NS
Pyrene	µg/L	24.6	NA	NA	NA	NA	NA	<0.03	NA	NA	2.78	NA	NA	NA	NA	NA	0.037 J	NA	NA	250	50
Dissolved Metals																					
Arsenic	µg/L	NA	NA	NA	NA	NA	NA	<0.6	NA	NA	NA	NA	NA	NA	NA	NA	***1.6 J***	NA	NA	10	1
Barium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,000	400
Cadmium	µg/L	NA	NA	NA	NA	NA	NA	<0.4	NA	NA	NA	NA	NA	NA	NA	NA	<0.4	NA	NA	5	0.5
Chromium	µg/L	NA	NA	NA	NA	NA	NA	6.0 J	NA	NA	NA	NA	NA	NA	NA	NA	<3.9	NA	NA	100	10
Lead	µg/L	NA	NA	NA	NA	NA	NA	<0.8	NA	NA	NA	NA	NA	NA	NA	NA	<0.8	NA	NA	15	1.5
Mercury	µg/L	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	2	0.2
Selenium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	10
Silver	µg/L	NA	NA	NA	NA	NA	NA	<8.4	NA	NA	NA	NA	NA	NA	NA	NA	<8.4	NA	NA	50	10
Zinc	µg/L	NA	NA	NA	NA	NA	NA	298	NA	NA	NA	NA	NA	NA	NA	NA	151	NA	NA	NS	NS

Notes:
1. NR 140 ES = Wis Admin Code, Ch. NR140 ES
2. NR 140 PAL = Wis Admin Code, Ch. NR140 PAL
3. NS = no standard
4. µg/L = micrograms per liter (parts per billion, ppb)
5. NA = Not Analyzed
6. Lab flags: "J" = Analyte detected between LOD and LOQ
7. Trip blank results:
10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: Methylene chloride reported above LDL
All other VOCs reported below LDL
1/5/18: All VOCs reported below LDL
2/21/19: All VOCs reported below LDL
3/26/18: All VOCs reported below LDL
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: All VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: All VOCs reported below LDL
1/31/20: All VOCs reported below LDL
2/19/20: All VOCs reported below LDL
4/9/20: All VOCs reported below LDL
8. Equipment blank results:
10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: No equipment blank collected
1/5/18: No equipment blank collected
2/21/19: All VOCs reported below LDL
3/26/18: No equipment blank collected
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: Chloroform reported above LDL
Other VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: No equipment blank collected
1/31/20: All ' = Concentration exceeds NR140 ES
2/19/20: All ' = Concentration exceeds NR140 PAL
4/9/20: All VOCs reported below LDL
9. Exceedances
BOLD = Concentration exceeds NR140 ES
10. Special ***ITALICS*** = Concentration exceeds NR140 PAL
* = monitoring well screen submerged below water table
** = not a statistically valid PAL exceedance per NR140.14(3)(c)

ES = Enforcement Standard
PAL = Preventive Action Limit
LOD = Limit of Detection
LOQ = Limit of Quantitation
LDL = Laboratory Detection Limit

11. Groundwater Elevation Notes
NZ = Well casing elevation not surveyed

Table 3
Groundwater Analytical Table
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

Well Location:		PZ-1					PZ-2				
Date:		2/20/18	5/30/18	11/8/18	12/13/18	7/26/19	2/20/18	5/30/18	11/8/18	12/13/18	7/26/19
Water Elevation* (feet MSL):		611.36	611.90	610.77	610.63	611.07	609.82	610.31	612.26	612.13	612.72
PVOCs & Detected VOCs											
Benzene	µg/L	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
Bromobenzene	µg/L	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
Bromodichloromethane	µg/L	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Bromoform	µg/L	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
tert-Butylbenzene	µg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
sec-Butylbenzene	µg/L	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79
n-Butylbenzene	µg/L	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71
Carbon Tetrachloride	µg/L	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Chlorobenzene	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroethane	µg/L	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61
Chloroform	µg/L	0.58 J	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloromethane	µg/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
2-Chlorotoluene	µg/L	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
4-Chlorotoluene	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
1,2-Dibromo-3-Chloropropane	µg/L	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96
Dibromochloromethane	µg/L	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
1,4-Dichlorobenzene	µg/L	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
1,3-Dichlorobenzene	µg/L	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85
1,2-Dichlorobenzene	µg/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Dichlorodifluoromethane	µg/L	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32
1,2-Dichloroethane	µg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1-Dichloroethane	µg/L	1.03 J	4.0	0.41 J	<0.36	<0.36	<0.36	<0.36	1.94	1.88	0.71 J
1,1-Dichloroethene	µg/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
cis-1,2-Dichloroethene	µg/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
trans-1,2-Dichloroethene	µg/L	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dichloropropane	µg/L	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
2,2-Dichloropropane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
trans-1,3-Dichloropropene	µg/L	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32
cis-1,3-Dichloropropene	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Di-isopropyl ether	µg/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
EDB (1,2-Dibromoethane)	µg/L	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
Ethylbenzene	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Hexachlorobutadiene	µg/L	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34
Isopropylbenzene	µg/L	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78
p-Isopropyltoluene	µg/L	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	µg/L	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32
Methyl-tert-butyl-ether	µg/L	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Naphthalene	µg/L	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
n-Propylbenzene	µg/L	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61
1,1,2,2-Tetrachloroethane	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,1,1,2-Tetrachloroethane	µg/L	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
Tetrachloroethene (PCE)	µg/L	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
Toluene	µg/L	0.37 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	0.26 J	<0.19
1,2,4-Trichlorobenzene	µg/L	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15
1,2,3-Trichlorobenzene	µg/L	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71
1,1,1-Trichloroethane	µg/L	0.57 J	<0.33	1.2	<0.33	<0.33	<0.33	<0.33	2.07	2.07	<0.33
1,1,2-Trichloroethane	µg/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
Trichloroethene (TCE)	µg/L	<0.3	<0.3	***0.81 J***	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Trichlorofluoromethane	µg/L	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
1,2,4-Trimethylbenzene	µg/L	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
1,3,5-Trimethylbenzene	µg/L	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63
Total Trimethylbenzene	µg/L	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43
Vinyl Chloride	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Xylenes, Total	µg/L	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72
PAHs											
Acenaphthene	µg/L	NA	NA	<0.008	NA	NA	NA	NA	0.0287	NA	NA
Acenaphthylene	µg/L	NA	NA	<0.009	NA	NA	NA	NA	<0.009	NA	NA
Anthracene	µg/L	NA	NA	<0.009	NA	NA	NA	NA	<0.009	NA	NA
Benzo(a)anthracene	µg/L	NA	NA	<0.017	NA	NA	NA	NA	<0.017	NA	NA
Benzo(a)pyrene	µg/L	NA	NA	<0.017	NA	NA	NA	NA	<0.017	NA	NA
Benzo(b)fluoranthene	µg/L	NA	NA	<0.02	NA	NA	NA	NA	<0.02	NA	NA
Benzo(ghi)perylene	µg/L	NA	NA	<0.011	NA	NA	NA	NA	<0.011	NA	NA
Benzo(k)fluoranthene	µg/L	NA	NA	<0.014	NA	NA	NA	NA	<0.014	NA	NA
Chrysene	µg/L	NA	NA	<0.019	NA	NA	NA	NA	<0.019	NA	NA
Dibenzo(a,h)anthracene	µg/L	NA	NA	<0.01	NA	NA	NA	NA	<0.01	NA	NA
Fluoranthene	µg/L	NA	NA	<0.031	NA	NA	NA	NA	<0.031	NA	NA
Fluorene	µg/L	NA	NA	<0.011	NA	NA	NA	NA	0.0156 J	NA	NA
Indeno(1,2,3-cd)pyrene	µg/L	NA	NA	<0.012	NA	NA	NA	NA	<0.012	NA	NA
1-Methylnaphthalene	µg/L	NA	NA	<0.0239	NA	NA	NA	NA	0.037 J	NA	NA
2-Methylnaphthalene	µg/L	NA	NA	<0.0236	NA	NA	NA	NA	<0.0236	NA	NA
Naphthalene	µg/L	NA	NA	0.038 J	NA	NA	NA	NA	0.049 J	NA	NA
Phenanthrene	µg/L	NA	NA	<0.025	NA	NA	NA	NA	<0.025	NA	NA
Pyrene	µg/L	NA	NA	<0.03	NA	NA	NA	NA	<0.03	NA	NA
Dissolved Metals											
Arsenic	µg/L	NA	NA	<0.6	NA	NA	NA	NA	***2.8***	NA	NA
Barium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	µg/L	NA	NA	***0.6 J***	0.4 J	***0.733 J***	NA	NA	<0.4	NA	NA
Chromium	µg/L	NA	NA	<3.9	NA	NA	NA	NA	<3.9	NA	NA
Lead	µg/L	NA	NA	<0.8	NA	NA	NA	NA	<0.8	NA	NA
Mercury	µg/L	NA	NA	<0.1	NA	NA	NA	NA	<0.1	NA	NA
Selenium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	µg/L	NA	NA	<8.4	NA	NA	NA	NA	<8.4	NA	NA
Zinc	µg/L	NA	NA	18.4 J	<7.0	NA	NA	NA	13.2 J	NA	NA

Well Location:		PZ-3					PZ-4						
Date:		2/20/18	5/29/18	11/7/18	12/13/18	7/25/19	2/20/18	3/26/18	5/29/18	11/7/18	12/13/18	7/25/19	4/9/20
Water Elevation* (feet MSL):		608.56	609.16	609.57	609.01	609.58	604.91	604.44	604.93	609.72	607.94	609.60	614.45
PVOCs & Detected VOCs													
Benzene	µg/L	<0.22	0.29 J	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.33
Bromobenzene	µg/L	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.26
Bromodichloromethane	µg/L	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Bromoform	µg/L	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.65
tert-Butylbenzene	µg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.61
sec-Butylbenzene	µg/L	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.32
n-Butylbenzene	µg/L	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.28
Carbon Tetrachloride	µg/L	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Chlorobenzene	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.39
Chloroethane	µg/L	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<1.1
Chloroform	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.44
Chloromethane	µg/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.8
2-Chlorotoluene	µg/L	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.32
4-Chlorotoluene	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.3
1,2-Dibromo-3-Chloropropane	µg/L	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<0.82
Dibromochloromethane	µg/L	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.23
1,4-Dichlorobenzene	µg/L	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.36
1,3-Dichlorobenzene	µg/L	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.31
1,2-Dichlorobenzene	µg/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.32
Dichlorodifluoromethane	µg/L	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.45
1,2-Dichloroethane	µg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.39
1,1-Dichloroethane	µg/L	<0.36	0.7 J	0.43 J	0.83 J	0.79 J	0.52 J	<0.36	<0.36	<0.36	0.76 J	0.46 J	<0.46
1,1-Dichloroethene	µg/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	0.68 J	<0.42	<0.5
cis-1,2-Dichloroethene	µg/L	0.82 J	1.73	0.86 J	1.32	1.23	2.45	<0.37	<0.37	<0.37	***9.1***	4.6	<0.39
trans-1,2-Dichloroethene	µg/L	<0.34	<0.34	<0.34	<0.34	<0.34	0.43 J	<0.34	<0.34	<0.34	0.90 J	0.87 J	<0.37
1,2-Dichloropropane	µg/L	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.38
2,2-Dichloropropane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.35
trans-1,3-Dichloropropene	µg/L	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.3
cis-1,3-Dichloropropene	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.36
Di-isopropyl ether	µg/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.34
EDB (1,2-Dibromoethane)	µg/L	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.24
Ethylbenzene	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.32
Hexachlorobutadiene	µg/L	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<0.72
Isopropylbenzene	µg/L	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.32
p-Isopropyltoluene	µg/L	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.47
Methylene Chloride	µg/L	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32
Methyl-tert-butyl-ether	µg/L	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.47
Naphthalene	µg/L	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<1.1
n-Propylbenzene	µg/L	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.33
1,1,2,2-Tetrachloroethane	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.37
1,1,1,2-Tetrachloroethane	µg/L	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.88
Tetrachloroethene (PCE)	µg/L	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.33
Toluene	µg/L	0.23 J	0.21 J	<0.19	0.21 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.26
1,2,4-Trichlorobenzene	µg/L	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<0.44
1,2,3-Trichlorobenzene	µg/L	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.0
1,1,1-Trichloroethane	µg/L	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.3
1,1,2-Trichloroethane	µg/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.36
Trichloroethene (TCE)	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	**26.9**	***3.6***	***2.84***	***0.87 J***	**14.5**	**12.4**	***0.67J***
Trichlorofluoromethane	µg/L	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.42
1,2,4-Trimethylbenzene	µg/L	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.3
1,3,5-Trimethylbenzene	µg/L	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.32
Total Trimethylbenzene	µg/L	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<0.62
Vinyl Chloride	µg/L	**0.22 J**	**0.51 J**	<0.2	**0.23 J**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Xylenes, Total	µg/L	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<1.48
PAHs													
Acenaphthene	µg/L	NA	NA	<0.008	NA	NA	NA	NA	NA	0.0257	NA	NA	NA
Acenaphthylene	µg/L	NA	NA	<0.009	NA	NA	NA	NA	NA	<0.009	NA	NA	NA
Anthracene	µg/L	NA	NA	<0.009	NA	NA	NA	NA	NA	0.0103 J	NA	NA	NA
Benzo(a)anthracene	µg/L	NA	NA	0.0191 J	NA	NA	NA	NA	NA	<0.017	NA	NA	NA
Benzo(a)pyrene	µg/L	NA	NA	<0.017	NA	NA	NA	NA	NA	<0.017	NA	NA	NA
Benzo(b)fluoranthene	µg/L	NA	NA	<0.02	NA	NA	NA	NA	NA	<0.02	NA	NA	NA
Benzo(ghi)perylene	µg/L	NA	NA	<0.011	NA	NA	NA	NA	NA	<0.011	NA	NA	NA
Benzo(k)fluoranthene	µg/L	NA	NA	<0.014	NA	NA	NA	NA	NA	<0.014	NA	NA	NA
Chrysene	µg/L	NA	NA	<0.019	NA	NA	NA	NA	NA	<0.019	NA	NA	NA
Dibenzo(a,h)anthracene	µg/L	NA	NA	<0.01	NA	NA	NA	NA	NA	<0.01	NA	NA	NA
Fluoranthene	µg/L	NA	NA	<0.031	NA	NA	NA	NA	NA	<0.031	NA	NA	NA
Fluorene	µg/L	NA	NA	<0.011	NA	NA	NA	NA	NA	0.0112 J	NA	NA	NA
Indeno(1,2,3-cd)pyrene	µg/L	NA	NA	<0.012	NA	NA	NA	NA	NA	<0.012	NA	NA	NA
1-Methylnaphthalene	µg/L	NA	NA	<0.0239	NA	NA	NA	NA	NA	<0.0239	NA	NA	NA
2-Methylnaphthalene	µg/L	NA	NA	<0.0236	NA	NA	NA	NA	NA	<0.0236	NA	NA	NA
Naphthalene	µg/L	NA	NA	0.044 J	NA	NA	NA	NA	NA	0.0312 J	NA	NA	NA
Phenanthrene	µg/L	NA	NA	<0.025	NA	NA	NA	NA	NA	<0.025	NA	NA	NA
Pyrene	µg/L	NA	NA	<0.03	NA	NA	NA	NA	NA	<0.03	NA	NA	NA
Dissolved Metals													
Arsenic	µg/L	NA	NA	***1.6 J***	NA	NA	NA	NA	NA	<0.6	NA	NA	NA
Barium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	µg/L	NA	NA	<0.4	NA	NA	NA	NA	NA	<0.4	<0.4	***0.776 J***	<0.4
Chromium	µg/L	NA	NA	<3.9	NA	NA	NA	NA	NA	<3.9	NA	NA	NA
Lead	µg/L	NA	NA	<0.8	NA	NA	NA	NA	NA	***2.5 J***	NA	NA	NA
Mercury	µg/L	NA	NA	<0.1	NA	NA	NA	NA	NA	<0.1	NA	NA	NA
Selenium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	µg/L	NA	NA	<8.4	NA	NA	NA	NA	NA	<8.4	NA	NA	NA
Zinc	µg/L	NA	NA	<7.0	NA	NA	NA	NA	NA	1590	168	NA	NA

Well Location:		PZ-5					PZ-6				NR 140 ES	NR 140 PAL
Date:		8/22/19	9/3/19	1/31/20	2/19/20	4/10/20	1/31/20	2/19/20	4/10/20	4/10/20		
Water Elevation* (feet MSL):		605.29	605.66	606.25	606.31	606.04	603.99	603.77	603.90	DUP		
PVOCs & Detected VOCs												
Benzene	µg/L	<0.22	<0.22	<0.22	<0.33	<0.33	<0.22	<0.33	<0.33	<0.33	5	0.5
Bromobenzene	µg/L	<0.44	<0.44	<0.44	<0.26	<0.26	<0.44	<0.26	<0.26	<0.26	NS	NS
Bromodichloromethane	µg/L	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.6	0.06
Bromoform	µg/L	<0.45	<0.45	<0.45	<0.65	<0.65	<0.45	<0.65	<0.65	<0.65	4.4	0.44
tert-Butylbenzene	µg/L	<0.25	<0.25	<0.25	<0.61	<0.61	<0.25	<0.61	<0.61	<0.61	NS	NS
sec-Butylbenzene	µg/L	<0.79	<0.79	<0.79	<0.32	<0.32	<0.79	<0.32	<0.32	<0.32	NS	NS
n-Butylbenzene	µg/L	<0.71	<0.71	<0.71	<0.28	<0.28	<0.71	<0.28	<0.28	<0.28	NS	NS
Carbon Tetrachloride	µg/L	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	5	0.5
Chlorobenzene	µg/L	<0.26	<0.26	<0.26	<0.39	<0.39	<0.26	<0.39	<0.39	<0.39	NS	NS
Chloroethane	µg/L	<0.61	<0.61	<0.61	<1.1	<1.1	<0.61	<1.1	<1.1	<1.1	400	80
Chloroform	µg/L	<0.26	<0.26	<0.26	<0.44	<0.44	<0.26	<0.44	<0.44	<0.44	6	0.6
Chloromethane	µg/L	<0.54	<0.54	<0.54	<0.8	<0.8	<0.54	<0.8	<0.8	<0.8	30	3
2-Chlorotoluene	µg/L	<0.31	<0.31	<0.31	<0.32	<0.32	<0.31	<0.32	<0.32	<0.32	NS	NS
4-Chlorotoluene	µg/L	<0.26	<0.26	<0.26	<0.3	<0.3	<0.26	<0.3	<0.3	<0.3	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	<2.96	<2.96	<2.96	<0.82	<0.82	<2.96	<0.82	<0.82	<0.82	0.2	0.02
Dibromochloromethane	µg/L	<0.22	<0.22	<0.22	<0.23	<0.23	<0.22	<0.23	<0.23	<0.23	60	6
1,4-Dichlorobenzene	µg/L	<0.7	<0.7	<0.7	<0.36	<0.36	<0.7	<0.36	<0.36	<0.36	75	15
1,3-Dichlorobenzene	µg/L	<0.85	<0.85	<0.85	<0.31	<0.31	<0.85	<0.31	<0.31	<0.31	600	120
1,2-Dichlorobenzene	µg/L	<0.86	<0.86	<0.86	<0.32	<0.32	<0.86	<0.32	<0.32	<0.32	600	60
Dichlorodifluoromethane	µg/L	<0.32	<0.32	<0.32	<0.45	<0.45	<0.32	<0.45	<0.45	<0.45	1,000	200
1,2-Dichloroethane	µg/L	<0.25	<0.25	<0.25	<0.39	<0.39	<0.25	<0.39	<0.39	<0.39	5	0.5
1,1-Dichloroethane	µg/L	<0.36	<0.36	<0.36	<0.46	<0.46	<0.36	<0.46	<0.46	<0.46	850	85
1,1-Dichloroethene	µg/L	<0.42	<0.42	<0.42	<0.5	<0.5	<0.42	<0.5	<0.5	<0.5	7	0.7
cis-1,2-Dichloroethene	µg/L	2.22	2.2	1.62	1.95	1.66	2.22	<0.39	<0.39	<0.39	70	7
trans-1,2-Dichloroethene	µg/L	<0.34	<0.34	<0.34	<0.37	<0.37	<0.34	<0.37	<0.37	<0.37	100	20
1,2-Dichloropropane	µg/L	<0.44	<0.44	<0.44	<0.38	<0.38	<0.44	<0.38	<0.38	<0.38	5	0.5
2,2-Dichloropropane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1,3-Dichloropropane	µg/L	<0.3	<0.3	<0.3	<0.35	<0.35	<0.3	<0.35	<0.35	<0.35	NS	NS
trans-1,3-Dichloropropene	µg/L	<0.32	<0.32	<0.32	<0.3	<0.3	<0.32	<0.3	<0.3	<0.3	NS	NS
cis-1,3-Dichloropropene	µg/L	<0.26	<0.26	<0.26	<0.36	<0.36	<0.26	<0.36	<0.36	<0.36	NS	NS
Di-isopropyl ether	µg/L	<0.21	<0.21	<0.21	<0.34	<0.34	<0.21	<0.34	<0.34	<0.34	NS	NS
EDB (1,2-Dibromoethane)	µg/L	<0.34	<0.34	<0.34	<0.24	<0.24	<0.34	<0.24	<0.24	<0.24	0.05	0.005
Ethylbenzene	µg/L	<0.26	<0.26	<0.26	<0.32	<0.32	<0.26	<0.32	<0.32	<0.32	700	140
Hexachlorobutadiene	µg/L	<1.34	<1.34	<1.34	<0.72	<0.72	<1.34	<0.72	<0.72	<0.72	NS	NS
Isopropylbenzene	µg/L	<0.78	<0.78	<0.78	<0.32	<0.32	<0.78	<0.32	<0.32	<0.32	NS	NS
p-Isopropyltoluene	µg/L	<0.24	<0.24	<0.24	<0.47	<0.47	<0.24	<0.47	<0.47	<0.47	NS	NS
Methylene Chloride	µg/L	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	5	0.5
Methyl-tert-butyl-ether	µg/L	<0.28	<0.28	<0.28	<0.47	<0.47	<0.28	<0.47	<0.47	<0.47	60	12
Naphthalene	µg/L	<2.1	<2.1	<2.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	100	10
n-Propylbenzene	µg/L	<0.61	<0.61	<0.61	<0.33	<0.33	<0.61	<0.33	<0.33	<0.33	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	<0.3	<0.3	<0.3	<0.37	<0.37	<0.3	<0.37	<0.37	<0.37	0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	<0.35	<0.35	<0.35	<0.88	<0.88	<0.35	<0.88	<0.88	<0.88	70	7
Tetrachloroethene (PCE)	µg/L	<0.38	<0.38	<0.38	<0.33	<0.33	<0.38	<0.33	<0.33	<0.33	5	0.5
Toluene	µg/L	<0.19	<0.19	<0.19	<0.26	<0.26	<0.19	<0.26	<0.26	<0.26	800	160
1,2,4-Trichlorobenzene	µg/L	<1.15	<1.15	<1.15	<0.44	<0.44	<1.15	<0.44	<0.44	<0.44	70	14
1,2,3-Trichlorobenzene	µg/L	<1.71	<1.71	<1.71	<1.0	<1.0	<1.71	<1.0	<1.0	<1.0	NS	NS
1,1,1-Trichloroethane	µg/L	<0.33	<0.33	<0.33	<0.3	<0.3	<0.33	<0.3	<0.3	<0.3	200	40
1,1,2-Trichloroethane	µg/L	<0.42	<0.42	<0.42	<0.36	<0.36	<0.42	<0.36	<0.36	<0.36	5	0.5
Trichloroethene (TCE)	µg/L	<0.3	<0.3	<0.3	<0.47	<0.47	<0.3	<0.47	<0.47	<0.47	5	0.5
Trichlorofluoromethane	µg/L	<0.35	<0.35	<0.35	<0.42	<0.42	<0.35	<0.42	<0.42	<0.42	3,490	698
1,2,4-Trimethylbenzene	µg/L	<0.8	<0.8	<0.8	<0.3	<0.3	<0.8	<0.3	<0.3	<0.3	NS	NS
1,3,5-Trimethylbenzene	µg/L	<0.63	<0.63	<0.63	<0.32	<0.32	<0.63	<0.32	<0.32	<0.32	NS	NS
Total Trimethylbenzene	µg/L	<1.43	<1.43	<1.43	<0.62	<0.62	<1.43	<0.62	<0.62	<0.62	480	96
Vinyl Chloride	µg/L	**3.8**	**4.1**	**1.45**	**3.01**	**1.2**	**3.1**	<0.2	<0.2	<0.2	0.2	0.02
Xylenes, Total	µg/L	<0.72	<0.72	<0.72	<1.48	<1.48	<0.72	<1.48	<1.48	<1.48	2,000	400
PAHs												
Acenaphthene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Acenaphthylene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Anthracene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,000	600
Benzo(a)anthracene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Benzo(a)pyrene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Benzo(b)fluoranthene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Benzo(ghi)perylene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Benzo(k)fluoranthene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Chrysene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Dibenzo(a,h)anthracene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Fluoranthene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Indeno(1,2,3-cd)pyrene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1-Methylnaphthalene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
2-Methylnaphthalene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Naphthalene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	10
Phenanthrene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Pyrene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	50
Dissolved Metals												
Arsenic	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	1
Barium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,000	400
Cadmium	µg/L	<0.4	NA	NA	<0.4	NA	<0.4	<0.4	NA	NA	5	0.5
Chromium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	10
Lead	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	1.5
Mercury	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	0.2
Selenium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	10
Silver	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	10
Zinc	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS

Notes:
1. NR 140 ES = Wis Admin Code, Ch. NR140 ES
2. NR 140 PAL = Wis Admin Code, Ch. NR140 PAL
3. NS = no standard
4. µg/L = micrograms per liter (parts per billion, ppb)
5. NA = Not Analyzed
6. Lab flags: "J" = Analyte detected between LOD and LOQ
7. Trip blank results:
10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: Methylene chloride reported above LDL
All other VOCs reported below LDL
1/5/18: All VOCs reported below LDL
2/21/19: All VOCs reported below LDL
3/26/18: All VOCs reported below LDL
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: All VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: All VOCs reported below LDL
1/31/20: All VOCs reported below LDL
2/19/20: All VOCs reported below LDL
4/9/20: All VOCs reported below LDL

8. Equipment blank results:
10/1/97: All VOCs reported below LDL
10/31/97: All VOCs reported below LDL
12/16/97: All VOCs reported below LDL
1/9/98: All VOCs reported below LDL
1/20/98: All VOCs reported below LDL
9/24/13: All VOCs reported below LDL
2/4/15: All VOCs reported below LDL
8/9/17: All VOCs reported below LDL
12/1/17: No equipment blank collected
1/5/18: No equipment blank collected
2/21/19: All VOCs reported below LDL
3/26/18: No equipment blank collected
5/29/18: All VOCs reported below LDL
11/7/2018: All VOCs reported below LDL
12/12/18: Chloroform reported above LDL
Other VOCs reported below LDL
7/25/19: All VOCs reported below LDL
8/22/19: All VOCs reported below LDL
9/3/19: No equipment blank collected
1/31/20: All VOCs = Concentration exceeds NR140 ES
2/19/20: All VOCs = Concentration exceeds NR140 PAL
4/9/20: All VOCs reported below LDL

9. Exceedances
BOLD = Concentration exceeds NR140 ES
10. Special ***ITALICS*** = Concentration exceeds NR140 PAL
* = monitoring well screen submerged below water table
** = not a statistically valid PAL exceedance per NR140.14(3)(c)

ES = Enforcement Standard
PAL = Preventive Action Limit
LOD = Limit of Detection
LOQ = Limit of Quantitation
LDL = Laboratory Detection Limit

11. Groundwater Elevation Notes

NZ = Well casing elevation not surveyed

Table 3
Groundwater Analytical Table
ACME Galvanizing - 2730 South 19th Street, Milwaukee, Wisconsin
Sigma Project No. 12884

Well Location:		TW-1					TW-2					TW-3					TW-4			TW-5			NR 140 ES	NR 140 PAL
Date:		1/5/18	2/20/18	5/29/18	11/8/18	12/13/18	1/5/18	2/20/18	5/29/18	11/8/18	12/13/18	1/5/18	2/20/18	5.29/18	11/8/18	12/13/18	10/9/18	11/1/18	12/13/18	10/9/18	11/1/18	12/13/18		
Water Elevation* (feet MSL):		607.19	609.74	608.03	608.58	608.35	607.77	610.39	608.64	608.65	608.44	608.43	610.83	608.35	609.14	608.76	611.60	611.36	611.38	608.06	608.03	607.88		
PVOCs & Detected VOCs																								
Benzene	µg/L	<0.17	<0.22	<0.22	<0.22	<0.22	0.21 J	<0.22	<0.22	<0.22	<0.22	<0.17	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	5	0.5
Bromobenzene	µg/L	<0.43	<0.44	<0.44	<0.44	<0.44	<0.43	<0.44	<0.44	<0.44	<0.44	<0.43	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	NS	NS
Bromodichloromethane	µg/L	<0.31	<0.33	<0.33	<0.33	<0.33	<0.31	<0.33	<0.33	<0.33	<0.33	<0.31	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.6	0.06
Bromoform	µg/L	<0.49	<0.45	<0.45	<0.45	<0.45	<0.49	<0.45	<0.45	<0.45	<0.45	<0.49	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	4.4	0.44
tert-Butylbenzene	µg/L	<0.39	<0.25	<0.25	<0.25	<0.25	<0.39	<0.25	<0.25	<0.25	<0.25	<0.39	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NS	NS
sec-Butylbenzene	µg/L	<0.24	<0.79	<0.79	<0.79	<0.79	<0.24	<0.79	<0.79	<0.79	<0.79	<0.24	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	NS	NS
n-Butylbenzene	µg/L	<0.34	<0.71	<0.71	<0.71	<0.71	<0.34	<0.71	<0.71	<0.71	<0.71	<0.34	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	NS	NS
Carbon Tetrachloride	µg/L	<0.21	<0.31	<0.31	<0.31	<0.31	<0.21	<0.31	<0.31	<0.31	<0.31	<0.21	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	5	0.5
Chlorobenzene	µg/L	<0.27	<0.26	<0.26	<0.26	<0.26	<0.27	<0.26	<0.26	<0.26	<0.26	<0.27	<0.26	0.26 J	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	NS	NS
Chloroethane	µg/L	<0.5	<0.61	<0.61	<0.61	<0.61	<0.5	<0.61	<0.61	<0.61	<0.61	<0.5	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	400	80
Chloroform	µg/L	<0.96	<0.26	<0.26	<0.26	<0.26	<0.96	<0.26	<0.26	<0.26	<0.26	<0.96	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	6	0.6
Chloromethane	µg/L	<1.3	<0.54	<0.54	<0.54	<0.54	<1.3	<0.54	<0.54	<0.54	<0.54	<1.3	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	30	3
2-Chlorotoluene	µg/L	<0.36	<0.31	<0.31	<0.31	<0.31	<0.36	<0.31	<0.31	<0.31	<0.31	<0.36	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	0.39 J	<0.31	NS	NS
4-Chlorotoluene	µg/L	<0.35	<0.26	<0.26	<0.26	<0.26	<0.35	<0.26	<0.26	<0.26	<0.26	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	<1.88	<2.96	<2.96	<2.96	<2.96	<1.88	<2.96	<2.96	<2.96	<2.96	<1.88	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	0.2	0.02
Dibromochloromethane	µg/L	<0.45	<0.22	<0.22	<0.22	<0.22	<0.45	<0.22	<0.22	<0.22	<0.22	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	60	6
1,4-Dichlorobenzene	µg/L	<0.42	<0.7	<0.7	<0.7	<0.7	<0.42	<0.7	<0.7	<0.7	<0.7	<0.42	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	75	15
1,3-Dichlorobenzene	µg/L	<0.45	<0.85	<0.85	<0.85	<0.85	<0.45	<0.85	<0.85	<0.85	<0.85	<0.45	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	600	120
1,2-Dichlorobenzene	µg/L	<0.34	<0.86	<0.86	<0.86	<0.86	<0.34	<0.86	<0.86	<0.86	<0.86	<0.34	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	600	60
Dichlorodifluoromethane	µg/L	<0.38	<0.32	<0.32	<0.32	<0.32	<0.38	<0.32	<0.32	<0.32	<0.32	<0.38	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	1,000	200
1,2-Dichloroethane	µg/L	<0.45	<0.25	<0.25	<0.25	<0.25	<0.45	<0.25	<0.25	<0.25	<0.25	<0.45	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	5	0.5
1,1-Dichloroethane	µg/L	8.1	<0.36	<0.36	0.84 J	0.86 J	0.67 J	<0.36	0.83 J	0.99 J	1.25	9.1	11.1	14.6	10.9	10.3	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	850	85
1,1-Dichloroethene	µg/L	0.63 J	<0.42	<0.42	<0.42	<0.42	***1.15 J***	<0.42	<0.42	<0.42	<0.42	**7.1**	<0.42	0.49 J	<0.42	0.50 J	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	7	0.7
cis-1,2-Dichloroethene	µg/L	**151**	6.8	***13.3***	***19***	***18.3***	***10.4***	<0.37	***9.3***	***7.0***	***10.3***	***10.9***	***8.0***	***22.7***	***8.0***	***8.0***	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	70	7
trans-1,2-Dichloroethene	µg/L	**124**	2.05	0.6 J	2.67	3.8	2.95	<0.34	2.03	1.9	2.84	2.67	1.63	6.1	1.77	2.12	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	100	20
1,2-Dichloropropane	µg/L	<0.39	<0.44	<0.44	<0.44	<0.44	<0.39	<0.44	<0.44	<0.44	<0.44	<0.39	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	5	0.5
2,2-Dichloropropane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
1,3-Dichloropropane	µg/L	<0.49	<0.3	<0.3	<0.3	<0.3	<0.49	<0.3	<0.3	<0.3	<0.3	<0.49	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	NS	NS
trans-1,3-Dichloropropene	µg/L	<0.42	<0.32	<0.32	<0.32	<0.32	<0.42	<0.32	<0.32	<0.32	<0.32	<0.42	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	NS	NS
cis-1,3-Dichloropropene	µg/L	<0.21	<0.26	<0.26	<0.26	<0.26	<0.21	<0.26	<0.26	<0.26	<0.26	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	NS	NS
Di-isopropyl ether	µg/L	<0.26	<0.21	<0.21	<0.21	<0.21	<0.26	<0.21	<0.21	<0.21	<0.21	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	NS	NS
EDB (1,2-Dibromoethane)	µg/L	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	0.05	0.005
Ethylbenzene	µg/L	<0.2	<0.26	<0.26	<0.26	<0.26	<0.2	<0.26	<0.26	<0.26	<0.26	<0.2	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	700	140
Hexachlorobutadiene	µg/L	<1.47	<1.34	<1.34	<1.34	<1.34	<1.47	<1.34	<1.34	<1.34	<1.34	<1.47	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	NS	NS
Isopropylbenzene	µg/L	<0.29	<0.78	<0.78	<0.78	<0.78	<0.29	<0.78	<0.78	<0.78	<0.78	<0.29	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	NS	NS
p-Isopropyltoluene	µg/L	<0.28	<0.24	<0.24	<0.24	<0.24	<0.28	<0.24	<0.24	<0.24	<0.24	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	NS	NS
Methylene Chloride	µg/L	<0.94	<1.32	<1.32	<1.32	<1.32	<0.94	<1.32	<1.32	<1.32	<1.32	<0.94	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	5	0.5
Methyl-tert-butyl-ether	µg/L	<0.82	<0.28	<0.28	<0.28	<0.28	<0.82	<0.28	<0.28	<0.28	<0.28	<0.82	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	60	12
Naphthalene	µg/L	<2.17	<2.1	<2.1	<2.1	<2.1	<2.17	<2.1	<2.1	<2.1	<2.1	<2.17	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	100	10
n-Propylbenzene	µg/L	<0.19	<0.61	<0.61	<0.61	<0.61	<0.19	<0.61	<0.61	<0.61	<0.61	<0.19	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	<0.69	<0.3	<0.3	<0.3	<0.3	<0.69	<0.3	<0.3	<0.3	<0.3	<0.69	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	<0.47	<0.35	<0.35	<0.35	<0.35	<0.47	<0.35	<0.35	<0.35	<0.35	<0.47	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	70	7
Tetrachloroethene (PCE)	µg/L	<0.48	<0.38	<0.38	<0.38	<0.38	<0.48	<0.38	<0.38	<0.38	<0.38	<0.48	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	5	0.5
Toluene	µg/L	<0.67	<0.19	<0.19	<0.19	<0.19	<0.67	<0.19	<0.19	<0.19	<0.19	<0.67	<0.19	<0.19	<0.19	<0.19	0.23 J	<0.19	<0.19	0.33 J	0.41 J	0.27 J	800	160
1,2,4-Trichlorobenzene	µg/L	<1.29	<1.15	<1.15	<1.15	<1.15	<1.29	<1.15	<1.15	<1.15	<1.15	<1.29	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	70	14
1,2,3-Trichlorobenzene	µg/L	<0.83	<1.71	<1.71	<1.71	<1.71	<0.83	<1.71	<1.71	<1.71	<1.71	<0.83	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	NS	NS
1,1,1-Trichloroethane	µg/L	1.11	<0.33	<0.33	<0.33	<0.33	2.83	<0.33	3.15	2.25	2.95	25.5	29.6	35	34	38	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	200	40
1,1,2-Trichloroethane	µg/L	<0.65	<0.42	<0.42	<0.42	<0.42	<0.65	<0.42	<0.42	<0.42	<0.42	<0.65	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	5	0.5
Trichloroethene (TCE)	µg/L	***2.82***	***1.67***	***1.59***	***1.66***	***1.11***	**150**	**20**	**138**	**103**	**116**	**109**	**92**	**149**	**102**	**102**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	5	0.5
Trichlorofluoromethane	µg/L	<0.64	<0.35	<0.35	<0.35	<0.35	<0.64	<0.35	<0.35	<0.35	<0.35	<0.64	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	3,490	698
1,2,4-Trimethylbenzene	µg/L	<1.14	<0.8	<0.8	<0.8	<0.8	<1.14	<0.8	<0.8	<0.8	<0.8	<1.14	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	NS	NS
1,3,5-Trimethylbenzene	µg/L	<0.91	<0.63	<0.63	<0.63	<0.63	<0.91	<0.63	<0.63	<0.63	<0.63	<0.91	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	NS	NS
Total Trimethylbenzene	µg/L	<2.05	<1.43	<1.43	<1.43	<1.43	<2.05	<1.43	<1.43	<1.43	<1.43	<2.05	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	<1.43	480	96
Vinyl Chloride	µg/L	**18.1**	<0.2	<0.2	**0.85**	**1.56**	<0.19	<0.2	<0.2	<0.2	<0.2	**0.56 J**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	**1.16**	**0.27 J**	**0.26 J**	0.2	0.02
Xylenes, Total	µg/L	<1.95	<0.72	<0.72	<0.72	<0.72	<1.95	<0.72	<0.72	<0.72	<0.72	<1.95	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	2,000	400
PAHs																								
Acenaphthene	µg/L	NA	NA	NA	0.0086 J	NA	NA	NA	NA	<0.008	NA	NA	NA	NA	0.0116 J	NA	NA	NA	NA	NA	NA	NA	NS	NS
Acenaphthylene	µg/L	NA	NA	NA	<0.009	NA	NA	NA	NA	<0.009	NA	NA	NA	NA	<0.009	NA	NA	NA	NA	NA	NA	NA	NS	NS
Anthracene	µg/L	NA	NA	NA	<0.009	NA	NA	NA	NA	<0.009	NA	NA	NA	NA	<0.009	NA	NA	NA	NA	NA	NA	NA	3,000	600
Benzo(a)anthracene	µg/L	NA	NA	NA	<0.017	NA	NA	NA	NA	<0.017	NA	NA	NA	NA	<0.017	NA	NA	NA	NA	NA	NA	NA	NS	NS
Benzo(a)pyrene	µg/L	NA	NA	NA	<0.017	NA	NA	NA	NA	<0.017	NA	NA	NA	NA	<0.017	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Benzo(b)fluoranthene	µg/L	NA	NA	NA	<0.02	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Benzo(ghi)perylene	µg/L	NA	NA	NA	<0.011	NA	NA	NA	NA	<0.011	NA	NA	NA	NA	<0.011	NA	NA	NA	NA	NA	NA	NA	NS	NS
Benzo(k)fluoranthene	µg/L	NA	NA	NA	<0.014	NA	NA	NA	NA	<0.014	NA	NA	NA	NA	<0.014	NA	NA	NA	NA	NA	NA	NA	NS	NS
Chrysene	µg/L	NA	NA	NA	<0.019	NA	NA	NA	NA	<0.019	NA	NA	NA	NA	<0.019	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Dibenzo(a,h)anthracene	µg/L	NA	NA	NA	<0.01	NA	NA	NA	NA	<0.01	NA	NA	NA	NA	<0.01	NA	NA	NA	NA	NA	NA	NA	NS	NS
Fluoranthene	µg/L	NA	NA	NA	<0.031	NA	NA	NA	NA	<0.031	NA	NA	NA	NA	<0.031	NA	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/L	NA	NA	NA	<0.011	NA	NA	NA	NA	<0.011	NA	NA	NA	NA	<0.011	NA	NA	NA	NA	NA	NA	NA	400	80
Indeno(1,2,3-cd)pyrene	µg/L	NA	NA	NA	<0.012	NA	NA	NA	NA	<0.012	NA	NA	NA	NA	<0.012	NA	NA	NA	NA	NA	NA	NA	NS	NS
1-Methylnaphthalene	µg/L	NA	NA	NA	<0.0239	NA	NA	NA	NA	<0.0239	NA	NA	NA	NA	<0.0239	NA	NA	NA	NA	NA	NA	NA	NS	NS
2-Methylnaphthalene	µg/L	NA	NA	NA	<0.0236	NA	NA	NA	NA	<0.0236	NA	NA	NA	NA	<0.0236	NA	NA	NA	NA	NA	NA	NA	NS	NS
Naphthalene	µg/L	NA	NA	NA	0.0315 J	NA	NA	NA	NA	0.0285 J	NA	NA	NA	NA	0.0307 J	NA	NA	NA	NA	NA	NA	NA	100	10
Phenanthrene	µg/L	NA	NA	NA	<0.025	NA	NA	NA	NA	<0.025	NA	NA	NA	NA	<0.025	NA	NA	NA	NA	NA	NA	NA	NS	NS
Pyrene	µg/L	NA	NA	NA	<0.03	NA	NA	NA	NA	<0.03	NA	NA	NA	NA	<0.03	NA	NA	NA	NA	NA	NA	NA	250	50
Dissolved Metals																								
Arsenic	µg/L	NA	NA	NA	<0.6	NA	NA	NA	NA	<0.6	NA	NA	NA	NA	<0.6	NA	NA	NA	NA	NA	NA	NA	10	1
Barium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,000	400
Cadmium	µg/L	NA	NA	NA	<0.4	<0.4	NA	NA	NA	***0.5 J***	***0.9 J***	NA	NA	NA	<0.4	<0.4	NA	NA	<0.4	NA	NA	<0.4	5	0.5
Chromium	µg/L	NA	NA	NA	<3.9	NA	NA	NA	NA	<3.9	NA	NA	NA	NA	<3.9	NA	NA	NA	NA	NA	NA	NA	100	10
Lead	µg/L	NA	NA	NA	<0.8	NA	NA	NA	NA	<0.8	NA	NA	NA	NA	<0.8	NA	NA	NA	NA	NA	NA	NA	15	1.5
Mercury	µg/L	NA	NA	NA	<0.1	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	2	0.2
Selenium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	10
Silver	µg/L	NA	NA	NA	<8.4	NA	NA	NA	NA	<8.4	NA	NA	NA	NA	<8.4	NA	NA	NA	NA	NA	NA	NA	50	10
Zinc	µg/L	NA	NA	NA	3970	3730	NA	NA	NA	2100	3100	NA	NA	NA	5260	5720	NA	NA	203000	NA	NA	164	NS	NS

Notes:
1. NR 140 ES = Wis Admin Code, Ch. NR140 ES
2. NR 140 PAL = Wis Admin Code, Ch. NR140 PAL
3. NS = no standard
4. µg/L = micrograms per liter (parts per billion, ppb)
5. NA = Not Analyzed
6. Lab flags: "J" = Analyte detected between LOD and LOQ
7. Trip blank results: 10/1/97: All VOCs reported below LDL; 10/31/97: All VOCs reported below LDL; 12/16/97: All VOCs reported below LDL; 1/9/98: All VOCs reported below LDL; 1/20/98: All VOCs reported below LDL; 9/24/13: All VOCs reported below LDL; 2/4/15: All VOCs reported below LDL; 8/9/17: All VOCs reported below LDL; 12/1/17: Methylene chloride reported above LDL; All other VOCs reported below LDL; 1/5/18: All VOCs reported below LDL; 2/21/19: All VOCs reported below LDL; 3/26/18: All VOCs reported below LDL; 5/29/18: All VOCs reported below LDL; 11/7/2018: All VOCs reported below LDL; 12/12/18: All VOCs reported below LDL; 7/25/19: All VOCs reported below LDL; 8/22/19: All VOCs reported below LDL; 9/3/19: All VOCs reported below LDL; 1/31/20: All VOCs reported below LDL; 2/19/20: All VOCs reported below LDL; 4/9/20: All VOCs reported below LDL
8. Equipment blank results: 10/1/97: All VOCs reported below LDL; 10/31/97: All VOCs reported below LDL; 12/16/97: All VOCs reported below LDL; 1/9/98: All VOCs reported below LDL; 1/20/98: All VOCs reported below LDL; 9/24/13: All VOCs reported below LDL; 2/4/15: All VOCs reported below LDL; 8/9/17: All VOCs reported below LDL; 12/1/17: No equipment blank collected; 1/5/18: No equipment blank collected; 2/21/19: All VOCs reported below LDL; 3/26/18: No equipment blank collected; 5/29/18: All VOCs reported below LDL; 11/7/2018: All VOCs reported below LDL; 12/12/18: Chloroform reported above LDL; Other VOCs reported below LDL; 7/25/19: All VOCs reported below LDL; 8/22/19: All VOCs reported below LDL; 9/3/19: No equipment blank collected; 1/31/20: All VOCs = Concentration exceeds NR140 ES; 2/19/20: All VOCs = Concentration exceeds NR140 PAL; 4/9/20: All VOCs reported below LDL
9. Exceedances
10. Special
BOLD = Concentration exceeds NR140 ES
ITALICS = Concentration exceeds NR140 PAL
* = monitoring well screen submerged below water table
** = not a statistically valid PAL exceedance per NR140.14(3)(c)

ES = Enforcement Standard
PAL = Preventive Action Limit
LOD = Limit of Detection
LOQ = Limit of Quantitation
LDL = Laboratory Detection Limit

11. Groundwater Elevation Notes
NZ = Well casing elevation not surveyed

Table 4
Groundwater *In Situ* Measurements and Geochemical Data
ACME Galvanizing - 2730 S. 19th Street, Milwaukee, WI
Sigma Project No. 12884

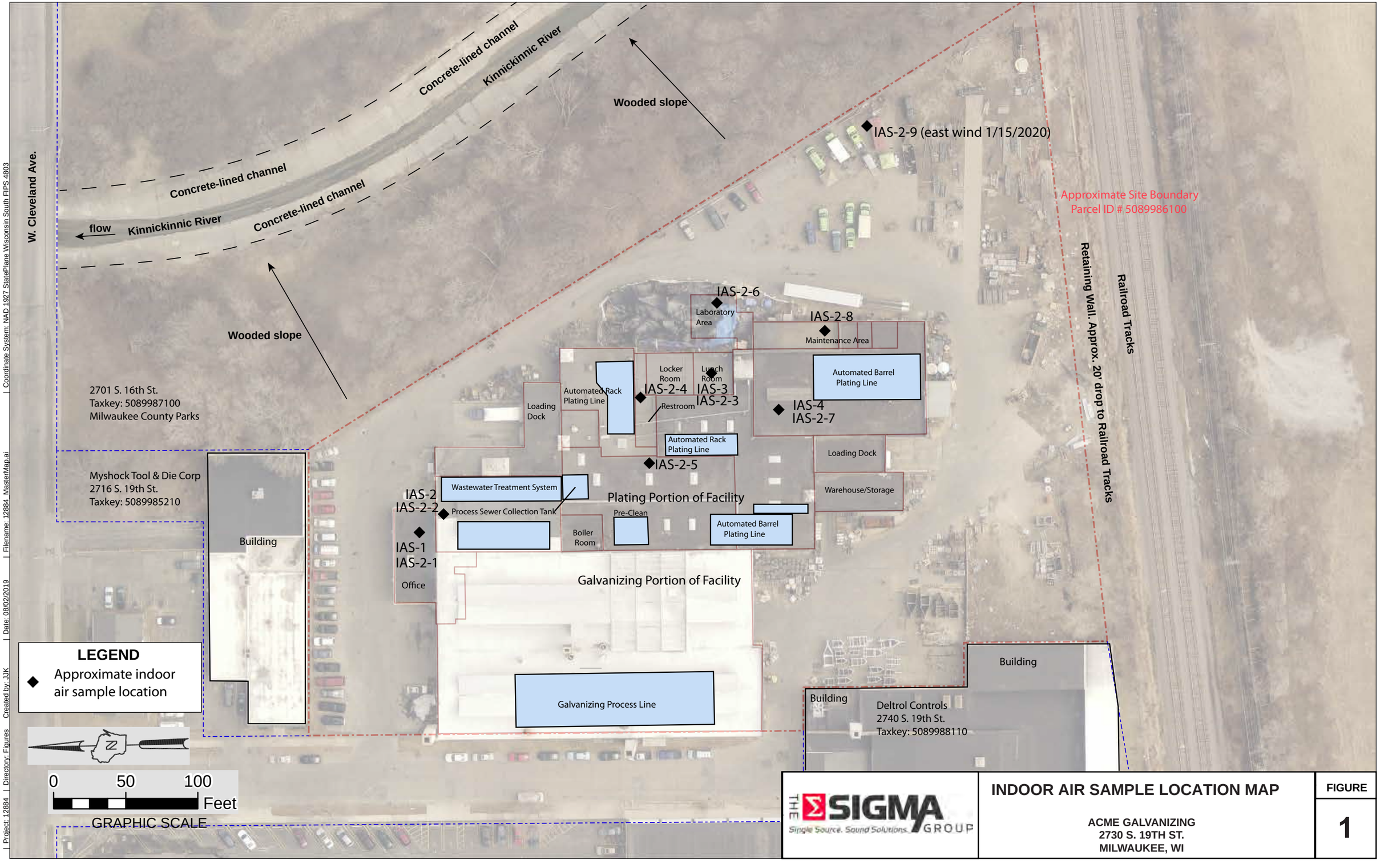
Well Identification	Date	In Situ Measurements						Geochemical Data					
		pH	Temperature (° C)	Ferrous Iron (mg/l)	Dissolved Oxygen (mg/l)	Redox Potential (mV)	Conductivity (mS/cm)	Ethene (µg/l)	Ethane (µg/l)	Methane (µg/l)	Total Organic Carbon (mg/l)	Chloride (mg/l)	Total Alkalinity (mg/l)
MW-6	12/01/17	7.90	13.3	4.0	0.40	175.0	NA						
	02/20/18	7.38	13.1	3.2	0.90	332.1	NA						
	05/29/18	7.46	13.2	3.6	0.70	437.7	NA						
	11/07/18	7.58	13.0	3.8	1.00	270.8	NA						
	12/13/18	7.36	13.4	0.0	0.60	305.0	NA						
	07/25/19	7.74	12.8	3.8	0.50	290.9	NA						
	04/09/20	8.30	13.0	3.2	1.52	189.8	NA						
MW-7	12/01/17	7 .6	15.4	5.0	0.20	100.0	NA						
	02/21/18	7.16	12.9	4.6	0.40	265.6	NA						
	03/26/18	6.00	15.9	8.5	0.80	245.0	1.80	0.73	0.091 J	52.0	NA	NA	NA
	05/29/18	7.23	15.4	3.4	0.90	408.7	NA						
	11/07/18	7.62	14.9	4.8	0.80	261.3	NA						
	12/13/18	7.30	15.9	0.0	0.40	320.9	NA						
	07/25/19	7.50	12.8	3.8	0.50	293.2	NA						
	04/09/20	7.47	15.3	3.4	1.12	228.2	NA						
MW-8	12/01/17	7.70	14.8	0.0	0.60	170.0	NA						
	02/20/18	7.21	15.0	0.0	1.60	317.7	NA						
	05/29/18	7.19	14.8	0.0	1.10	409.9	NA						
	11/07/18	7.34	15.0	0.0	0.60	231.6	NA						
	12/13/18	7.16	15.3	0.0	0.40	311.0	NA						
	07/25/19	7.50	14.4	0.0	0.70	303.3	NA						
	04/09/20	7.23	14.5	NA	1.22	228.3	NA						
MW-9	12/01/17	7.60	12.6	0.0	4.40	186.0	NA						
	02/21/18	7.86	11.8	0.0	0.30	-124.6	NA						
	05/29/18	7.36	11.9	0.0	1.10	401.8	NA						
	11/07/18	7.64	12.1	0.0	0.60	252.6	NA						
	12/13/18	7.31	12,9	0.0	0.60	301.7	NA						
	07/25/19	7.68	12.2	0.0	1.10	289.4	NA						
	04/09/20	7.43	12.2	NA	1.88	215.5	NA						
MW-10	12/01/17	7.60	18.4	0.0	0.30	200.0	NA						
	02/20/18	7.18	15.1	0.0	2.10	317.2	NA						
	05/29/18	6.97	13.4	0.0	1.40	385.5	NA						
	11/07/18	7.42	17.3	0.0	0.50	266.9	NA						
	12/12/18	7.88	17.4	0.0	0.70	272.1	NA						
	07/25/19	7.91	14.5	0.0	0.90	276.9	NA						
	04/09/20	7.62	12.3	NA	2.43	246.7	NA						
MW-11	12/01/17	8.00	15.5	4.4	0.40	75.0	NA						
	02/20/18	7.42	15.5	0.0	0.30	264.8	NA						
	05/30/18	7.94	14.8	4.0	0.90	298.8	NA						
	11/08/18	7.91	15.1	2.8	0.80	242.1	NA						
	12/13/18	7.66	15.3	0.0	0.40	269.2	NA						
	07/26/19	7.81	14.2	3.0	0.60	287.3	NA						
	04/09/20	7.88	14.6	NA	1.35	183.3	NA						
MW-12	12/01/17	7.80	13.0	4.2	0.20	168.0	NA						
	02/20/18	7.34	13.1	0.0	0.30	306.2	NA						
	03/26/18	7.66	12.5	4.0	0.90	97.8	1.02	0.26	0.21	9.3	NA	NA	NA
	05/30/18	7.76	12.1	4.8	0.80	307.1	NA						
	11/08/18	7.93	12.1	3.2	0.40	259.8	NA						
	12/13/18	7.55	12.8	0.0	0.70	288.8	NA						
	07/26/19	7.88	11.7	2.6	0.80	272.7	NA						
	04/09/20	7.69	12.1	4.4	0.43	191.4	NA						
MW-13	12/01/17	7.80	13.5	2.6	0.50	160.0	NA						
	02/20/18	7.32	12.9	0.0	0.50	305.5	NA						
	05/30/18	7.88	11.7	0.0	0.90	288.4	NA						
	11/08/18	7.86	12.5	2.8	1.00	219.2	NA						
	12/13/18	7.55	12.9	0.0	0.40	290.6	NA						
	07/26/19	8.11	11.4	1.4	1.10	256.3	NA						
	04/09/20	7.58	11.7	NA	1.69	214.6	NA						
MW-14	12/01/17	7.40	15.7	0.0	0.90	190.0	NA						
	02/20/18	7.10	16.0	0.0	0.40	363.8	NA						
	05/29/18	7.71	15.7	0.0	1.40	423.0	NA						
	11/07/18	7.10	15.9	0.0	0.60	231.8	NA						
	12/12/18	7.14	16.4	0.0	0.40	315.6	NA						
	07/25/19	7.87	15.7	0.0	1.00	297.3	NA						
	04/09/20	7.58	15.3	NA	2.01	244.2	NA						
MW-15	12/01/17	7.40	15.2	0.0	0.80	210.0	NA						
	02/21/18	7.46	16.3	0.0	0.90	233.9	NA						
	03/26/18	7.34	15.3	0.0	1.80	202.0	1.00	0.0098 J	0.045 J	0.53	NA	NA	NA
	05/29/18	7.64	13.8	0.0	1.50	456.7	NA						
	11/07/18	7.98	16.0	0.0	1.00	271.4	NA						
	12/12/18	7.40	17.0	0.0	0.50	301.5	NA						
	07/25/19	7.74	14.2	0.0	0.70	301.1	NA						
	04/09/20	7.84	14.0	0.0	1.44	176.2	NA						
MW-16	12/01/17	7.70	15.6	0.0	0.30	20.0	NA						
	02/20/18	7.20	15.8	0.0	0.40	333.7	NA						
	05/29/18	7.52	13.6	0.0	0.70	368.7	NA						
	11/07/18	7.48	14.4	0.0	0.80	251.3	NA						
	12/12/18	7.28	17.2	0.0	0.40	310.7	NA						
	07/25/19	7.76	14.3	1.2	0.90	288.8	NA						
	04/09/20	7.55	13.5	0.0	2.65	175.2	NA						
MW-17	11/07/18	7.76	14.3	0.0	0.80	258.1	NA						
	12/12/18	7.61	15.1	0.0	0.60	307.2	NA						
	07/25/19	8.02	14.5	0.0	0.80	287.9	NA						
MW-18	11/07/18	7.87	23.2	0.0	1.00	257.1	NA						
	12/12/18	7.47	23.8	0.0	0.90	256.9	NA						
	07/25/19	7.69	23.1	4.6	0.40	258.3	NA						
	04/09/20	7.72	22.9	0.0	1.17	190.3	NA						
MW-19	11/07/18	NA	NA	NA	NA	NA	NA						
	12/12/18	NA	NA	NA	NA	NA	NA						
	04/09/20	Free Product											
MW-20	11/07/18	7.98	24.3	NA	0.40	255.6	NA						
	12/12/18	7.94	24.8	0.0	0.60	259.9	NA						
	07/26/19	7.90	20.7	0.0	0.40	243.7	NA						
	04/09/20	7.73	19.7	0.0	1.16	190.1	NA						

Table 4
Groundwater *In Situ* Measurements and Geochemical Data
ACME Galvanizing - 2730 S. 19th Street, Milwaukee, WI
Sigma Project No. 12884

Well Identification	Date	In Situ Measurements						Geochemical Data					
		pH	Temperature (° C)	Ferrous Iron (mg/l)	Dissolved Oxygen (mg/l)	Redox Potential (mV)	Conductivity (mS/cm)	Ethene (µg/l)	Ethane (µg/l)	Methane (µg/l)	Total Organic Carbon (mg/l)	Chloride (mg/l)	Total Alkalinity (mg/l)
MW-21	08/22/19	DRY											
	09/03/19												
	01/31/20	7.62	10.4	0.8	2.50	264.7	NA						
	02/19/20	7.76	11.9	1.2	1.83	280.1	NA						
	04/10/20	8.31	9.9	0.0	2.32	146.3	NA	0.56 J	0.039 J	20.0	NA	NA	NA
MW-22	08/22/19	NA	NA	0.0	NA	NA	NA						
	09/03/19	7.42	11.1	0.0	2.10	308.2	NA						
	01/31/20	7.53	9.8	0.0	2.30	262.4	NA						
	02/19/20	7.94	11.8	0.0	1.74	279.8	NA						
	04/10/20	7.59	10.8	0.0	0.49	170.9	NA						
MW-23	01/31/20	DRY											
	02/19/20	7.94	12.3	0.0	2.89	237.1	NA						
	04/10/20	8.66	11.7	0.0	1.48	126.4	NA						
MW-1A	12/01/17	7.80	17.0	0.0	0.90	27.0	NA						
	02/20/18	7.67	9.2	0.0	2.10	292.2	NA						
	03/26/18	7.29	8.9	0.0	1.90	217.2	3.07	0.032 J	0.015 J	0.32 J	NA	NA	NA
	05/30/18	7.47	12.3	0.0	0.90	361.7	NA						
	11/08/18	7.80	18.1	0.8	0.90	247.7	NA						
	12/13/18	7.57	14.8	0.0	0.60	304.1	NA						
	07/26/19	7.80	17.0	0.0	0.60	305.6	NA						
	04/09/20	7.88	9.7	NA	0.96	221.5	NA						
MW-2A	12/01/17	7.50	17.7	0.0	0.10	44.0	NA						
	02/21/18	7.54	9.8	0.0	0.40	256.2	NA						
	05/30/18	7.53	12.7	0.0	0.70	369.0	NA						
	11/08/18	7.76	18.3	2.4	0.80	234.6	NA						
	12/13/18	7.76	15.6	0.0	0.60	269.7	NA						
	07/26/19	7.99	16.4	0.0	0.80	229.2	NA						
MW-3A	12/01/17	NA	NA	NA	NA	NA	NA						
	02/20/18	NA	NA	NA	NA	NA	NA						
	05/30/18	NA	NA	NA	NA	NA	NA						
	11/07/18	NA	NA	NA	NA	NA	NA						
	12/12/18	NA	NA	NA	NA	NA	NA						
MW-4A	12/01/17	8.00	17.0	1.6	0.40	80.0	NA						
	02/20/18	7.35	9.1	2.8	0.20	326.1	NA						
	05/30/18	7.64	11.7	0.0	0.80	333.6	NA						
	11/07/18	7.77	18.4	0.0	0.40	248.2	NA						
	12/13/18	7.56	15.0	0.0	0.60	316.9	NA						
	07/26/19	7.75	16.2	0.0	0.40	306.1	NA						
	04/09/20	7.77	9.1	NA	0.46	202.7	NA						
MW-5A	12/01/17	7.80	17.5	2.0	0.20	81.0	NA						
	02/20/18	7.51	11.6	1.0	0.40	312.6	NA						
	05/30/18	7.36	12.6	3.2	0.50	355.5	NA						
	11/08/18	7.62	17.9	3.2	0.80	269.9	NA						
	12/13/18	7.43	15.4	0.0	0.60	310.1	NA						
	07/26/19	7.39	15.5	3.4	0.30	292.6	NA						
	04/09/20	7.61	10.7	NA	0.38	223.6	NA						
PZ-1	02/20/18	7.67	15.4	0.0	1.90	264.9	NA						
	05/30/18	7.64	14.5	3.2	0.80	306.1	NA						
	11/08/18	7.92	14.8	1.6	0.70	244.6	NA						
	12/13/18	7.84	14.7	0.0	0.60	268.9	NA						
	07/26/19	7.81	14.3	3.0	0.40	270.2	NA						
	04/10/20	7.72	14.5	NA	1.43	165.4	NA						
PZ-2	02/20/18	7.66	15.1	1.4	0.60	292.1	NA						
	05/30/18	7.84	14.7	3.0	0.70	288.3	NA						
	11/08/18	7.96	15.1	3.2	0.90	242.9	NA						
	12/13/18	7.59	15.3	0.0	0.60	286.9	NA						
	07/26/19	7.80	14.0	2.6	0.40	276.5	NA						
	04/10/20	7.57	14.5	NA	1.91	175.7	NA						
PZ-3	02/20/18	7.91	12.6	0.0	0.90	316.2	NA						
	05/29/18	7.29	12.2	3.4	0.80	392.8	NA						
	11/07/18	7.60	12.2	2.8	0.50	279.2	NA						
	12/13/18	7.40	12.4	0.0	0.60	303.1	NA						
	07/25/19	7.77	12.1	4.2	0.70	291.6	NA						
	04/10/20	8.91	12.4	NA	0.26	208.3	NA						
PZ-4	02/21/18	7.67	15.5	2.6	0.40	228.4	NA						
	03/26/18	6.80	15.7	2.2	0.60	80.3	NA	0.067 J	0.073 J	3.1	NA	NA	NA
	05/29/18	7.26	15.1	1.8	0.80	450.6	NA						
	11/07/18	7.95	15.6	3.6	0.30	277.5	NA						
	12/13/18	7.66	15.6	0.0	0.40	279.1	NA						
	07/25/19	7.88	15.0	1.6	0.70	290.8	NA						
	04/10/20	8.07	14.6	0.0	1.63	138.3	NA						
PZ-5	08/22/19	NA	NA	2.6	NA	NA	NA						
	09/03/19	7.08	10.9	2.8	2.50	282.3	NA						
	01/31/20	7.28	10.2	1.8	1.80	241.6	NA						
	02/19/20	7.71	11.5	3.8	2.40	274.2	NA						
	04/10/20	8.03	11.1	1.2	0.43	149.4	NA	0.7	1.3	18.0	NA	NA	NA
PZ-6	01/31/20	7.41	10.1	1.6	2.20	253.6	NA						
	02/19/20	7.89	12.4	1.8	2.23	261.4	NA						
	04/10/20	8.27	12.2	2.2	0.81	125.8	NA						
TW-1	01/05/18	5.60	7.4	0.0	3.00	251.0	NA						
	02/20/18	7.53	4.6	0.0	5.60	290.6	NA						
	05/29/18	7.69	11.2	0.0	1.40	339.9	NA						
	11/08/18	8.38	11.7	0.0	2.30	249.7	NA						
	12/13/18	7.55	8.7	0.0	0.90	299.7	NA						
TW-2	01/05/18	4.60	7.9	0.0	0.80	244.0	NA						
	02/20/18	7.47	3.8	0.0	6.80	309.3	NA						
	03/26/18	5.19	6.3	0.0	2.80	217.5	0.05	0.012 J	0.22	1.6	NA	NA	NA
	05/29/18	7.63	10.8	2.0	1.40	356.0	NA						
	11/08/18	8.02	12.1	0.0	1.10	266.8	NA						
	12/13/18	7.29	9.4	0.0	0.90	330.7	NA						
TW-3	01/05/18	4.70	7.0	0.0	2.50	230.0	NA						
	02/20/18	7.16	4.6	0.0	0.70	333.0	NA						
	05/29/18	7.58	9.8	0.0	1.00	368.7	NA						
	11/08/18	7.85	11.6	0.0	2.50	256.7	NA						
	12/13/18	7.43	8.2	0.0	0.90	325.0	NA						
TW-4	12/13/18	NA	NA	NA	NA	NA	NA						
TW-5	12/13/18	NA	NA	NA	NA	NA	NA						

1. NA = Not Analyzed
2. mg/l = milligrams per liter (equivalent to parts per million, ppm)
3. mV = millivolts
4. µg/l = micrograms per liter (equivalent to parts per billion, ppb)
5. Laboratory flaç "J" = Analyte detected between Limit of Detection and Limit of Quantitation.

FIGURES



| Project: 12884 | Directory: Figures | Created by: JJK | Date: 08/02/2019 | Filename: 12884 MasterMap.ai | Coordinate System: NAD 1927 StatePlane Wisconsin South FIPS 4803

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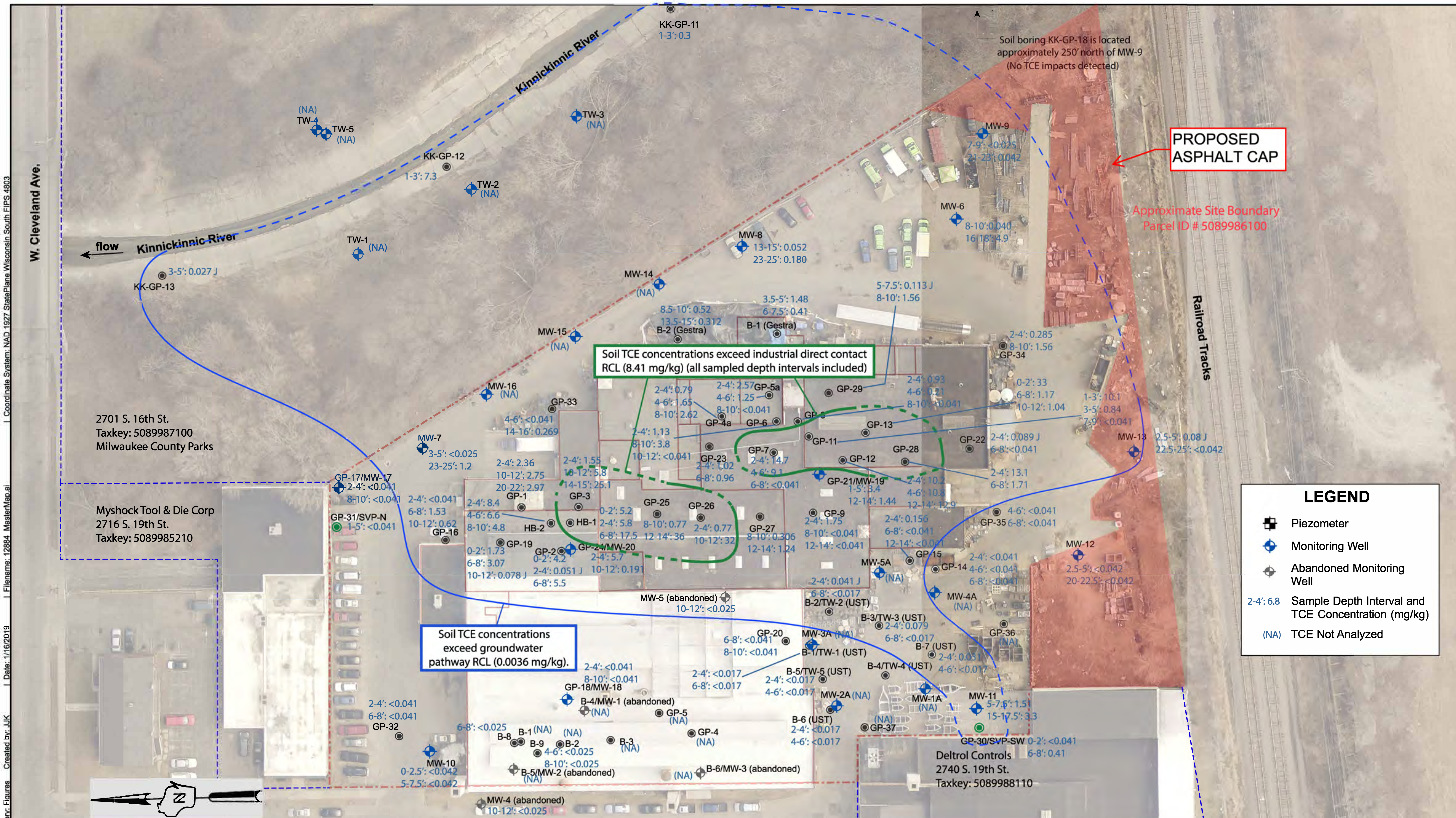
INDOOR AIR SAMPLE LOCATION MAP

ACME GALVANIZING
2730 S. 19TH ST.
MILWAUKEE, WI

FIGURE
1



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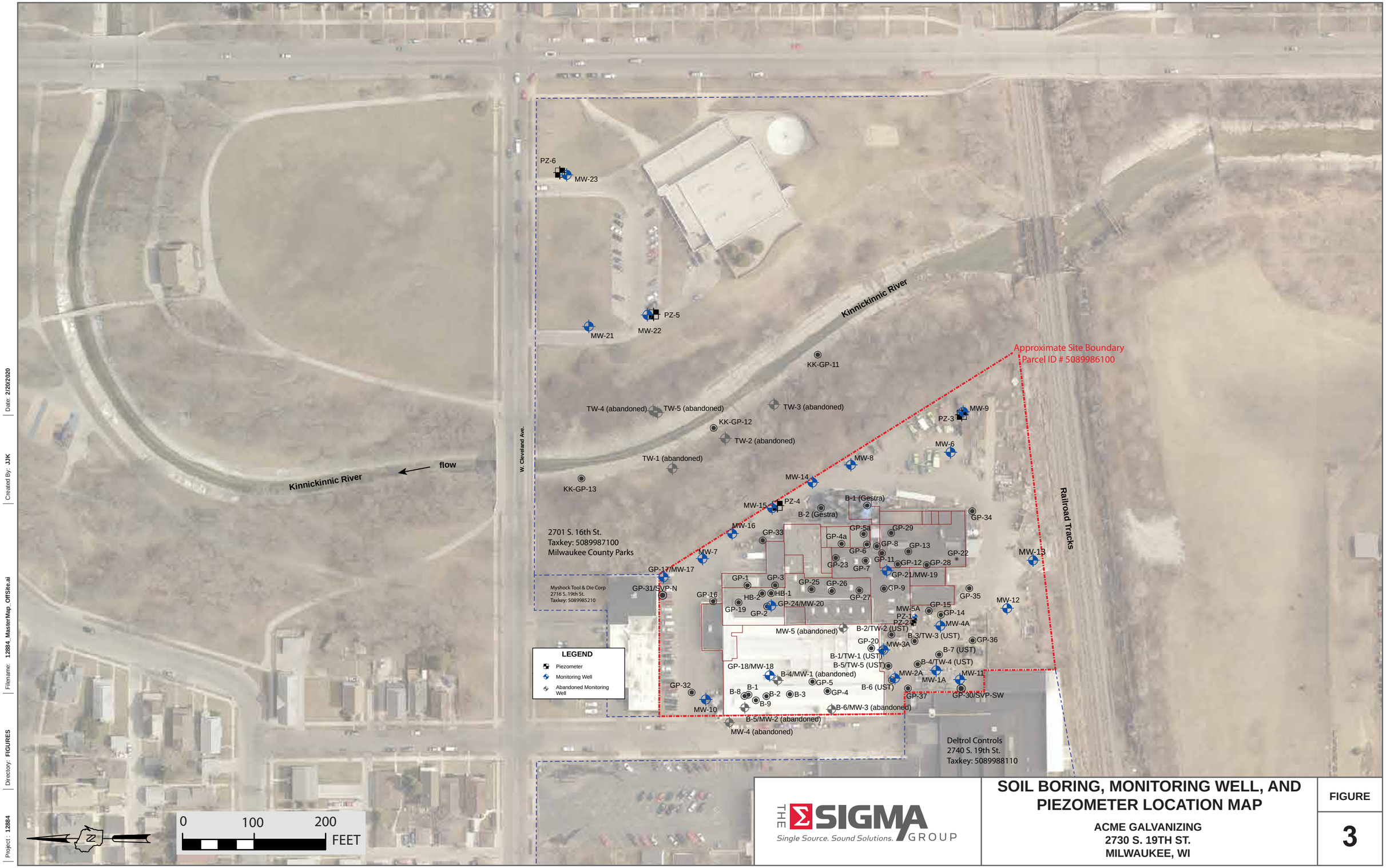
PROPOSED ASPHALT CAP
ACME Galvanizing
2730 South 19th Street
Milwaukee, WI

FIGURE
2

Project: 12884 | Directory: FIGURES | Filename: 12884_MasterMap_OffSite.ai | Created By: JJK | Date: 2/20/2020



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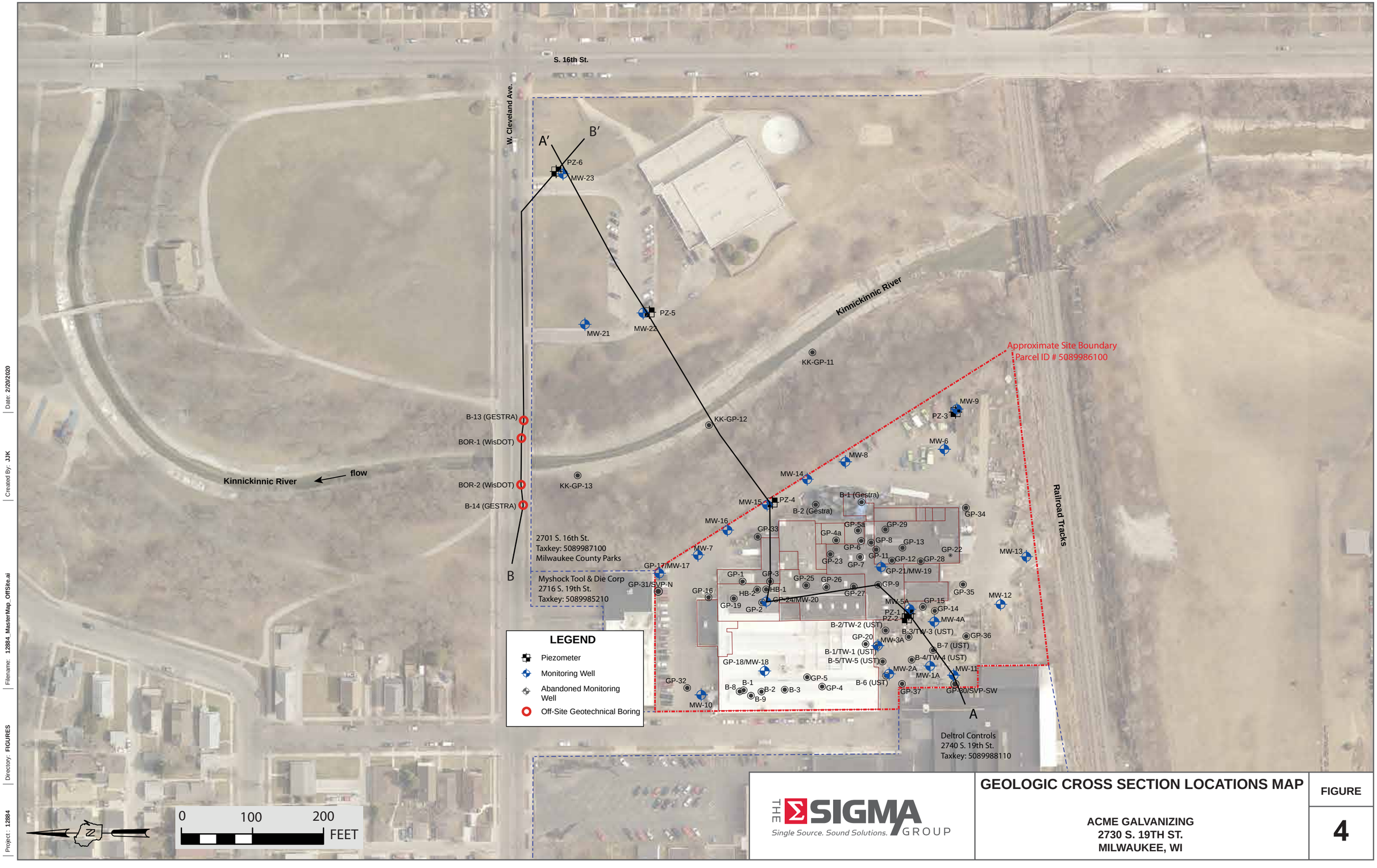
SOIL BORING, MONITORING WELL, AND PIEZOMETER LOCATION MAP

ACME GALVANIZING
2730 S. 19TH ST.
MILWAUKEE, WI

FIGURE
3



Project: 12884 | Directory: FIGURES | Filename: 12884_MasterMap_OffSite.ai | Created By: IJK | Date: 2/20/2020

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GEOLOGIC CROSS SECTION LOCATIONS MAP

ACME GALVANIZING
2730 S. 19TH ST.
MILWAUKEE, WI

FIGURE
4

B (WEST)

B' (EAST)

KINNICKINNIC RIVER CHANNEL
AT CLEVELAND AVE BRIDGE

B-13 (GESTRA KK River)
BOR-1 (WisDOT)

B-14 (GESTRA KK River)
BOR-2 (WisDOT)

PZ-6

FILL MATERIAL

STIFF CLAY

Approximate Piezometric Surface

SANDY LAYER

STIFF CLAY

EOB = 41'

EOB = 60'

EOB = 52'

EOB = 41'

EOB = 50'

??

??

??

??

MMSD NEAR-SURFACE INTERCEPTOR SEWER

BEDROCK

NOTE: This cross section was generated using geotechnical boring logs and an as-built drawing for the near-surface interceptor sewer, both provided by MMSD. Piezometer PZ-6 (installed by Sigma) was also used. The bedrock contact with overlying unconsolidated material could not be accurately determined based on sewer and geotechnical boring information. Bedrock was reported in the as-built drawing for the MMSD near-surface interceptor sewer depicted below. The bedrock contact was also reported at elevations between 555 and 559 feet msl at two geotechnical soil borings completed along the Kinnickinnic River southeast of the ACME property.

Elevation (ft)

650 640 630 620 610 600 590 580 570 560 550 540 530 520 510 500

-100 0 100 200 300 400 500

Distance Along Baseline (ft)

SOIL KEY

- Asphalt
- Concrete
- USCS Well-graded Gravel
- USCS Poorly-graded Gravelly Sand
- USCS Silty Sand
- USCS Low Plasticity Clay
- USCS Clayey Sand
- USCS Poorly-graded Sand
- USCS Well-graded Sandy Gravel
- USCS Well-graded Sand
- USCS Low Plasticity Silty Clay
- USCS Well-graded Gravelly Sand

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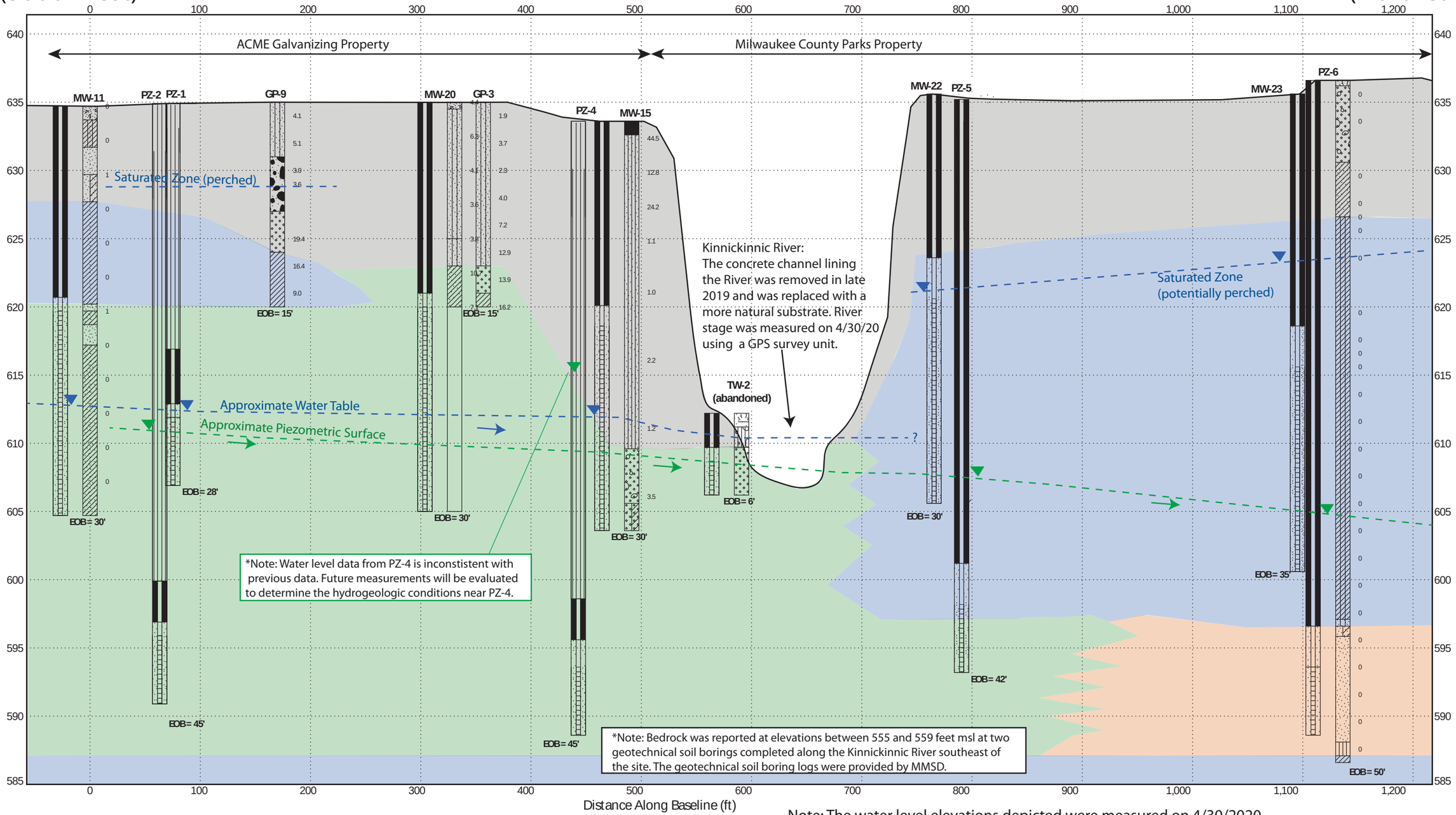
GEOLOGIC CROSS SECTION B-B'
OFF-SITE NORTH AND EAST OF ACME PROPERTY

ACME GALVANIZING
2730 S 19TH ST
MILWAUKEE, WI

FIGURE
5

Project: 12884 | Directory: FIGURES | Filename: 12884_Off-Site XSEC B-B' 11x17.ai | Created By: JJK | Date: 5/11/2020

A (Southwest) — A' (Northeast)



Note: The water level elevations depicted were measured on 4/30/2020.

SOIL KEY

- USCS Silty Sand
- USCS Well-graded Sandy Gravel
- USCS Poorly-graded Sand
- Asphalt
- USCS Well-graded Sand
- Concrete
- USCS Poorly-graded Sand with Clay
- USCS Sandy Silt
- USCS Low Plasticity Clay
- USCS Low Plasticity Silty Clay
- USCS Low Plasticity Sandy Clay
- USCS Well-graded Gravelly Sand

GEOLOGY KEY

- Fill
- Silt/Clay and/or Silty Clay
- Sand
- Interbedded Sandy Clay, Sandy Silt, Silty Sand and/or minor Silty Clay

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GEOLOGIC CROSS SECTION A-A'

ACME GALVANIZING
2730 S 19TH ST
MILWAUKEE, WI

FIGURE
6

Project: 12884 | Directory: CAD | Filename: 12884_Updated XSEC Feb2020.ai | Created By: JJK | Date: 2/20/2020

S. 16th St.

W. Cleveland Ave.

Kinnickinnic River

Railroad Tracks

MW-23 (624.48)

624

622

(606.73**) MW-21

(621.08) MW-22

Approximate Site Boundary
Parcel ID # 5089986100

610

MW-9 (609.64)

611

MW-6 (611.33)

MW-8 (611.29)

612

MW-14 (611.71)

MW-15 (612.16)

MW-16 (618.47*)

613

MW-13 (612.79)

Kinnickinnic River Level Elevation

(610.59)

(610.37)

(610.35)

(610.38)

(610.17)

(610.15)

2701 S. 16th St.
Taxkey: 5089987100
Milwaukee County Parks

Myshock Tool & Die Corp
2716 S. 19th St.
Taxkey: 5089985210

MW-7 (610.84)

GP-17/MW-17 (611.09)

GP-21/MW-19

GP-24/MW-20

MW-5A

(612.44) MW-12

MW-4A

MW-3A

612

613

615

620

625

GP-18/MW-18

(612.76) MW-11

MW-2A

MW-1A

(627.20) MW-10

Deltrol Controls
2740 S. 19th St.
Taxkey: 5089988110

Notes:
* = Water level data from MW-16 is inconstistent with previous data. Future measurements will be evaluated to determine the hydrogeologic conditions near MW-16.
** = Water level data from MW-21is inconsistent with water level data from MW-22 and MW-23 and therefore not used for contouring. Future measurements will be evaluated to determine the hydrogeologic conditions near these monitoring wells.

LEGEND

- Monitoring Well
- GPS Surveyed River Water Line Elevation (Western Bank)
- (650) Groundwater Elevation
- Groundwater Elevation Contour
- Groundwater Flow Direction
- Groundwater Elevation Contour, Perched Groundwater
- Groundwater Flow Direction, Perched Groundwater

0 100 200 FEET

2

THE SIGMA GROUP
Single Source. Sound Solutions.

GROUNDWATER ELEVATION CONTOUR MAP APRIL 30, 2020

ACME GALVANIZING
2730 S. 19TH ST.
MILWAUKEE, WI

FIGURE 7

Project: 12884 | Directory: FIGURES | Filename: 12884_MasterMap_OffSite.ai | Created By: JJK | Date: 2/20/2020

S. 16th St.

W. Cleveland Ave.

604

606

608

610

PZ-6
(604.69)

PZ-5
(607.45)

PZ-3
(609.37)

PZ-4
(615.33*)

PZ-1
PZ-2
(610.75)

Kinnickinnic River

Kinnickinnic River flow

Railroad Tracks

Approximate Site Boundary
Parcel ID # 5089986100

*Note: Water level data from PZ-4 is inconsistent with previous data. Future measurements will be evaluated to determine the hydrogeologic conditions near PZ-4

2701 S. 16th St.
Taxkey: 5089987100
Milwaukee County Parks

Myshock Tool & Die Corp
2716 S. 19th St.
Taxkey: 5089985210

Deltrol Controls
2740 S. 19th St.
Taxkey: 5089988110

LEGEND

- Piezometer
- (650) Groundwater Elevation
- Groundwater Elevation Contour
- Groundwater Flow Direction

0 100 200 FEET

N

Date: 2/20/2020
Created By: JJK
Filename: 12884_MasterMap_OffSite.ai
Directory: FIGURES
Project : 12884

THE SIGMA GROUP
Single Source. Sound Solutions.

PIEZOMETRIC SURFACE ELEVATION CONTOUR MAP (APRIL 30, 2020)

ACME GALVANIZING
2730 S. 19TH ST.
MILWAUKEE, WI

FIGURE
8

ANALYTICAL KEY

BOLD = CONCENTRATION EXCEEDS NR 140 ENFORCEMENT STANDARD

ITALICS = CONCENTRATION EXCEEDS NR 140 PREVENTIVE ACTION LIMIT

(NE MM/DD/YY) = NO RCL EXCEEDANCES, SAMPLE DATE LISTED

(NA) = SAMPLES NOT ANALYZED FOR METALS

ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L)

"J" = CONCENTRATIONS REPORTED BETWEEN LIMIT OF DETECTION AND LIMIT OF QUANTITATION

TW-2

Date:	11/8/18	12/13/18
Arsenic	<0.6	NA
Barium	NA	NA
Cadmium	*0.5 J*	*0.9 J*
Chromium	<3.9	NA
Lead	<0.8	NA
Mercury	<0.1	NA
Selenium	NA	NA
Silver	<8.4	NA
Zinc	2100	3100

TW-3

Date:	11/8/18	12/13/18
Arsenic	<0.6	NA
Barium	NA	NA
Cadmium	<0.4	<0.4
Chromium	<3.9	NA
Lead	<0.8	NA
Mercury	<0.1	NA
Selenium	NA	NA
Silver	<8.4	NA
Zinc	5260	5720

MW-14

Date:	11/7/18	12/12/18	7/25/19
Arsenic	<0.6	NA	NA
Barium	NA	NA	NA
Cadmium	**52.1**	**34.2**	**13**
Chromium	<3.9	NA	NA
Lead	<0.8	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	11900	9770	NA

MW-8

Date:	11/7/18	12/13/18	7/25/19
Arsenic	<0.6	NA	NA
Barium	NA	NA	NA
Cadmium	**23.2**	**33.6**	**26.8**
Chromium	<3.9	NA	NA
Lead	<0.8	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	5640	7820	NA

PZ-3

Date:	11/8/18	12/13/18	7/25/19
Arsenic	*1.6 J*	NA	NA
Barium	NA	NA	NA
Cadmium	<0.4	NA	NA
Chromium	<3.9	NA	NA
Lead	<0.8	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	<7.0	NA	NA

MW-9

Date:	11/7/18	12/13/18	7/25/19
Arsenic	<0.6	NA	NA
Barium	NA	NA	NA
Cadmium	*2.2*	*0.7 J*	**6.53**
Chromium	<3.9	NA	NA
Lead	<0.8	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	7460	7870	NA

PZ-4

Date:	11/8/18	12/13/18	7/25/19
Arsenic	<0.6	NA	NA
Barium	NA	NA	NA
Cadmium	<0.4	NA	*0.776 J*
Chromium	<3.9	NA	NA
Lead	*2.5 J*	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	1590	168	NA

MW-5A

Date:	11/8/18	12/13/18	7/25/19
Arsenic	*1.6 J*	NA	NA
Barium	NA	NA	NA
Cadmium	<0.4	NA	NA
Chromium	<3.9	NA	NA
Lead	<0.8	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	151	NA	NA

TW-1

Date:	11/8/18	12/13/18
Arsenic	<0.6	NA
Barium	NA	NA
Cadmium	<0.4	<0.4
Chromium	<3.9	NA
Lead	<0.8	NA
Mercury	<0.1	NA
Selenium	NA	NA
Silver	<8.4	NA
Zinc	3970	3730

MW-15

Date:	11/7/18	12/12/18	7/25/19
Arsenic	<0.6	NA	NA
Barium	NA	NA	NA
Cadmium	**59.3**	**61.5**	**92**
Chromium	*54.9*	NA	NA
Lead	<0.8	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	454	558	NA

PZ-1

Date:	11/8/18	12/13/18	7/25/19
Arsenic	<0.6	NA	NA
Barium	NA	NA	NA
Cadmium	*0.6 J*	0.4 J	*0.733 J*
Chromium	<3.9	NA	NA
Lead	<0.8	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	18.4 J	<7.0	NA

MW-16

Date:	11/7/18	12/12/18	7/25/19
Arsenic	<0.6	NA	NA
Barium	NA	NA	NA
Cadmium	**28.4**	**28.3**	**12.4**
Chromium	<3.9	NA	NA
Lead	<0.8	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	707	835	NA

PZ-2

Date:	11/8/18	12/13/18	7/25/19
Arsenic	*2.8*	NA	NA
Barium	NA	NA	NA
Cadmium	<0.4	NA	NA
Chromium	<3.9	NA	NA
Lead	<0.8	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	13.2 J	NA	NA

MW-17

Date:	11/7/18	12/12/18	7/25/19
Arsenic	<0.6	NA	NA
Barium	NA	NA	NA
Cadmium	**7.6**	**18.1**	**17.2**
Chromium	<3.9	NA	NA
Lead	<0.8	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	490	706	NA

MW-2A

Date:	11/8/18	12/13/18	7/25/19
Arsenic	<0.6	NA	NA
Barium	NA	NA	NA
Cadmium	*0.8 J*	*1.8*	*2.23 J*
Chromium	<3.9	NA	NA
Lead	<0.8	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	1260	1010	NA

MW-7

Date:	11/7/18	12/13/18	7/25/19
Arsenic	0.8 J	NA	NA
Barium	NA	NA	NA
Cadmium	<0.4	*0.7444 J*	NA
Chromium	<3.9	NA	NA
Lead	<0.8	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	<7.0	8.0 J	NA

MW-20

Date:	11/8/18	12/13/18	7/25/19
Arsenic	<0.6	NA	NA
Barium	NA	NA	NA
Cadmium	**11.1 J**	*3.4*	**6.58**
Chromium	<3.9	NA	NA
Lead	<0.8	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	117	631	NA

MW-1 (abandoned)

Date:	10/1/97	10/31/97
Arsenic	*4.5*	NA
Barium	97	NA
Cadmium	*1.1*	NA
Chromium	0.84	NA
Lead	<0.73	NA
Mercury	<0.083	NA
Selenium	<18	NA
Silver	<0.3	NA
Zinc	5600	6400

MW-11

Date:	11/7/18	12/12/18	7/25/19
Arsenic	<0.6	NA	NA
Barium	NA	NA	NA
Cadmium	*0.6 J*	0.4 J	*0.779 J*
Chromium	<3.9	NA	NA
Lead	<0.8	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	7.5 J	46.7	NA

MW-1A

Date:	11/8/18	12/13/18	7/25/19
Arsenic	<0.6	NA	NA
Barium	NA	NA	NA
Cadmium	*1.2 J*	*0.70 J*	*2.05 J*
Chromium	<3.9	NA	NA
Lead	1.1 J	NA	NA
Mercury	<0.1	NA	NA
Selenium	NA	NA	NA
Silver	<8.4	NA	NA
Zinc	1740	1560	NA

(Dry - Not sampled) MW-21

(NE 8/22/19) MW-22

PZ-5 (NE 8/22/19)

(NE 12/13/18) TW-4 (abandoned)

TW-5 (abandoned) (NE 12/13/18)

TW-3 (abandoned)

TW-2 (abandoned)

TW-1(abandoned)

MW-9

PZ-3

MW-6 (NE 11/7/18)

MW-8

MW-14

MW-15 PZ-4

MW-16

MW-7

MW-17

GP-21/MW-19 (Product - Not sampled)

MW-13 (NE 11/8/18)

GP-24/MW-20

MW-12 (NE 11/8/18)

MW-5A

PZ-1

PZ-2

MW-4A (NE 11/7/18)

MW-5 (abandoned) (NA)

(Product - Not sampled)

MW-3A

(NE 11/8/18) GP-18/MW-18

B-4/MW-1 (abandoned)

MW-2A

MW-1A

MW-11

(NE 11/7/18) MW-10

(NE 10/1/97) B-5/MW-2 (abandoned)

B-6/MW-3 (abandoned) (NE 10/1/97)

MW-4 (adandoned) (NA)

Railroad Tracks

Milwaukee County Parks

S. 19th St.

Deltrol C… 2740 S. 1… Taxkey: …

APPROXIMATE SUBJECT PROPERTY BOUNDARY PARCEL ID# 5089986100

LEGEND

- Monitoring Well
- Piezometer
- Cadmium concentration exceeds NR 140 PAL
- Cadmium concentration exceeds NR 140 ES

N

0 50 100 Feet

THE SIGMA GROUP
Single Source. Sound Solutions.

GROUNDWATER QUALITY MAP - METALS
REVISED MAY 2020

ACME GALVANIZING
2730 SOUTH 19TH STREET
MILWAUKEE, WISCONSIN

FIGURE
9

Project : 12884 | Directory: FIGURES | Filename: ACMEjul2019updateMasterMap.ai | Created By: JJK | Date: 9/18/2019

Kinnickinnic River

New Kinnickinnic River Discharge (installed 2019)

flow Kinnickinnic River

New Manhole Access (installed 2019)

W. Cleveland Ave.

MH-2

GP-33

X

2701 S. 16th St.
Taxkey: 5089987100
Milwaukee County Parks

MW-7

TD-1

CB-5

CB-4

CB-2

MW-17

X′

Myshock Tool & Die Corp
2716 S. 19th St.
Taxkey: 5089985210

CB-1

MH-1

CB-3

Deltrol Controls
2740 S. 19th St.
Taxkey: 5089988110

Approximate Site Boundary
Parcel ID # 5089986100

Railroad Tracks

N

0 50 100 Feet

GRAPHIC SCALE

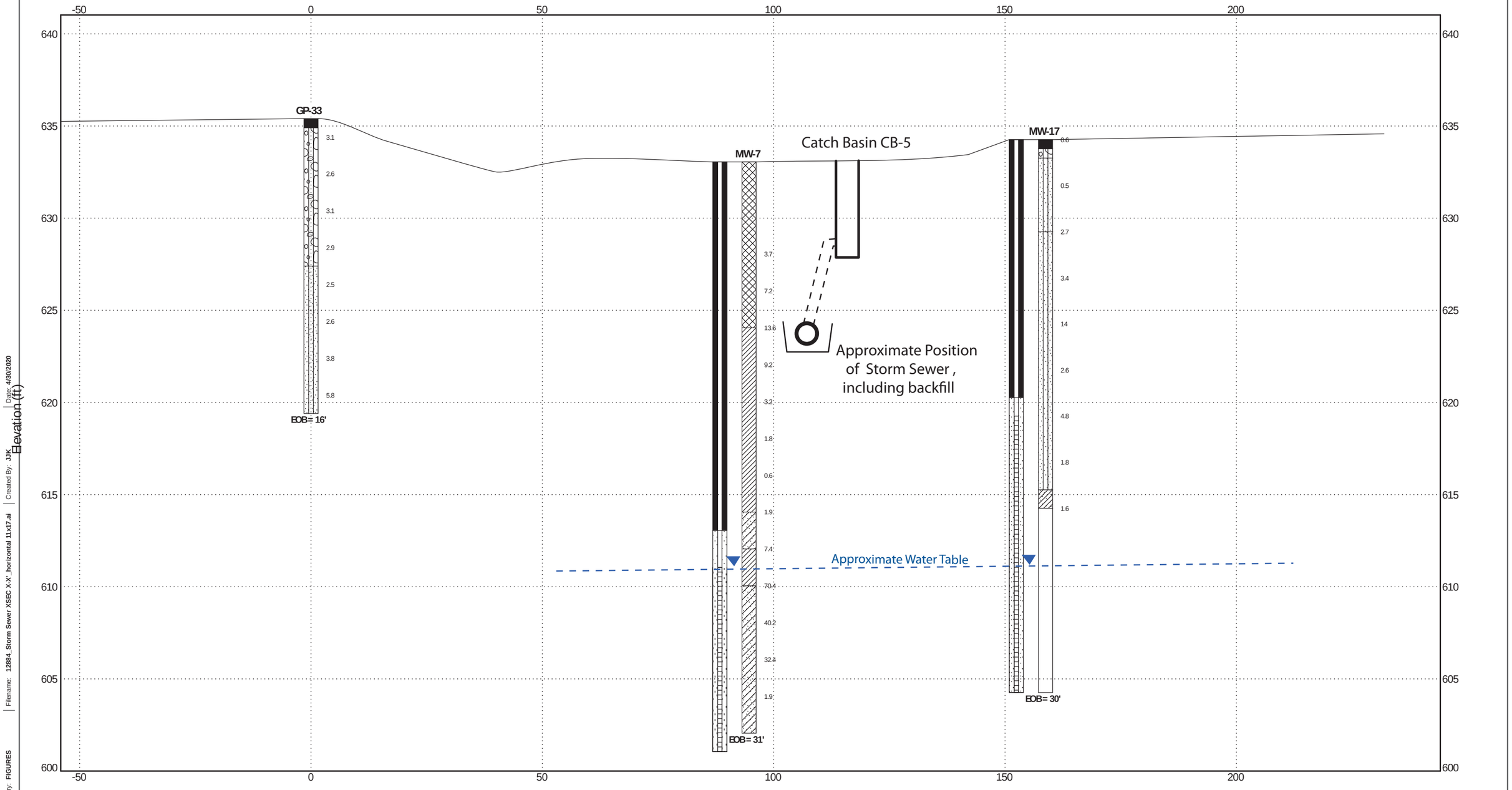
Date: 2/20/2020
Created By: JJK
Filename: 12884_MasterMap.ai
Directory: CAD
Project: 12884

THE SIGMA GROUP
Single Source. Sound Solutions.

STORM SEWER LOCATION MAP

ACME GALVANIZING
2730 S. 19TH ST.
MILWAUKEE, WI

FIGURE
10



Project: 12884 | Directory: FIGURES | Filename: 12884_Storm Sewer XSEC X-X'_horizontal 11x17.ai | Created By: JJK | Date: 4/30/2020

THE SIGMA GROUP
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STORM SEWER CROSS SECTION

ACME GALVANIZING
2730 S. 19TH ST.
MILWAUKEE, WI

FIGURE

11

W. Cleveland Ave.

Kinnickinnic River

flow Kinnickinnic River

New Kinnickinnic River Discharge (installed 2019)

New Manhole Access (installed 2019)

MH-2

Approximate Site Boundary
Parcel ID # 5089986100

Railroad Tracks

2701 S. 16th St.
Taxkey: 5089987100
Milwaukee County Parks

GP-33

X

MW-7

TD-1

CB-5

CB-4

CB-2

MW-17

X′

Myshock Tool & Die Corp
2716 S. 19th St.
Taxkey: 5089985210

Wastewater Treatment System

Process Sewer Collection Tank

CB-1

MH-1

CB-3

Deltrol Controls
2740 S. 19th St.
Taxkey: 5089988110

To sanitary sewer connection
beneath S. 19th St.

N

0 50 100 Feet

GRAPHIC SCALE

LEGEND

- Sanitary Sewer
- Process Sewer
- Storm Sewer
- Water Main
- Gas Line
- Electric and Comm. Line
- Catch Basin, Drain, or Manhole

THE SIGMA GROUP
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SITE UTILITIES MAP

ACME GALVANIZING
2730 S. 19TH ST.
MILWAUKEE, WI

FIGURE
12

Date: 2/20/2020
Created By: JJK
Filename: 12884_MasterMap.ai
Directory: CAD
Project: 12884

Appendix A

Indoor Air Laboratory Analytical Report and COC

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

January 24, 2020

Jake Krause
The Sigma Group
1300 W. Canal St
Milwaukee, WI 53233

RE: Project: 12884
Pace Project No.: 10505740

Dear Jake Krause:
Enclosed are the analytical results for sample(s) received by the laboratory on January 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 12884
Pace Project No.: 10505740

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 12884
Pace Project No.: 10505740

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10505740001	**IAS-2-1**	Air	01/15/20 16:15	01/17/20 09:55
10505740002	**IAS-2-2**	Air	01/15/20 16:23	01/17/20 09:55
10505740003	**IAS-2-3**	Air	01/15/20 16:38	01/17/20 09:55
10505740004	**IAS-2-4**	Air	01/15/20 16:47	01/17/20 09:55
10505740005	**IAS-2-5**	Air	01/15/20 16:56	01/17/20 09:55
10505740006	**IAS-2-6**	Air	01/15/20 17:12	01/17/20 09:55
10505740007	**IAS-2-7**	Air	01/15/20 17:19	01/17/20 09:55
10505740008	**IAS-2-8**	Air	01/15/20 17:25	01/17/20 09:55
10505740009	**IAS-2-9**	Air	01/15/20 17:40	01/17/20 09:55

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 12884
Pace Project No.: 10505740

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10505740001	**IAS-2-1**	TO-15	MJL	1	PASI-M
10505740002	**IAS-2-2**	TO-15	MJL	1	PASI-M
10505740003	**IAS-2-3**	TO-15	MJL	1	PASI-M
10505740004	**IAS-2-4**	TO-15	MJL	1	PASI-M
10505740005	**IAS-2-5**	TO-15	MJL	1	PASI-M
10505740006	**IAS-2-6**	TO-15	MJL	1	PASI-M
10505740007	**IAS-2-7**	TO-15	CH1	1	PASI-M
10505740008	**IAS-2-8**	TO-15	CH1	1	PASI-M
10505740009	**IAS-2-9**	TO-15	CH1	1	PASI-M

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: 12884
Pace Project No.: 10505740

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10505740001	**IAS-2-1**					
TO-15	Trichloroethene	2.1	ug/m3	0.86	01/21/20 16:15	
10505740002	**IAS-2-2**					
TO-15	Trichloroethene	2.9	ug/m3	0.92	01/21/20 16:45	
10505740003	**IAS-2-3**					
TO-15	Trichloroethene	7.0	ug/m3	0.85	01/21/20 17:15	
10505740004	**IAS-2-4**					
TO-15	Trichloroethene	5.3	ug/m3	0.85	01/21/20 17:45	
10505740005	**IAS-2-5**					
TO-15	Trichloroethene	4.6	ug/m3	0.85	01/21/20 18:14	
10505740006	**IAS-2-6**					
TO-15	Trichloroethene	4.4	ug/m3	0.86	01/21/20 18:44	
10505740007	**IAS-2-7**					
TO-15	Trichloroethene	4.8	ug/m3	0.88	01/22/20 15:07	
10505740008	**IAS-2-8**					
TO-15	Trichloroethene	0.86J	ug/m3	0.88	01/22/20 15:35	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 12884
Pace Project No.: 10505740

Method: **TO-15**
Description: TO15 MSV AIR
Client: Sigma Group
Date: January 24, 2020

General Information:
9 samples were analyzed for TO-15. 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.

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.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 12884
Pace Project No.: 10505740

Sample: IAS-2-1 **Lab ID: 10505740001** Collected: 01/15/20 16:15 Received: 01/17/20 09:55 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Trichloroethene	**2.1**	ug/m3	0.86	0.40	1.58		01/21/20 16:15	79-01-6	

Sample: IAS-2-2 **Lab ID: 10505740002** Collected: 01/15/20 16:23 Received: 01/17/20 09:55 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Trichloroethene	**2.9**	ug/m3	0.92	0.43	1.68		01/21/20 16:45	79-01-6	

Sample: IAS-2-3 **Lab ID: 10505740003** Collected: 01/15/20 16:38 Received: 01/17/20 09:55 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Trichloroethene	**7.0**	ug/m3	0.85	0.39	1.55		01/21/20 17:15	79-01-6	

Sample: IAS-2-4 **Lab ID: 10505740004** Collected: 01/15/20 16:47 Received: 01/17/20 09:55 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Trichloroethene	**5.3**	ug/m3	0.85	0.39	1.55		01/21/20 17:45	79-01-6	

Sample: IAS-2-5 **Lab ID: 10505740005** Collected: 01/15/20 16:56 Received: 01/17/20 09:55 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Trichloroethene	**4.6**	ug/m3	0.85	0.39	1.55		01/21/20 18:14	79-01-6	

Sample: IAS-2-6 **Lab ID: 10505740006** Collected: 01/15/20 17:12 Received: 01/17/20 09:55 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Trichloroethene	**4.4**	ug/m3	0.86	0.40	1.58		01/21/20 18:44	79-01-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 12884
Pace Project No.: 10505740

Sample: IAS-2-7 **Lab ID: 10505740007** Collected: 01/15/20 17:19 Received: 01/17/20 09:55 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Trichloroethene	**4.8**	ug/m3	0.88	0.41	1.61		01/22/20 15:07	79-01-6	

Sample: IAS-2-8 **Lab ID: 10505740008** Collected: 01/15/20 17:25 Received: 01/17/20 09:55 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Trichloroethene	**0.86J**	ug/m3	0.88	0.41	1.61		01/22/20 15:35	79-01-6	

Sample: IAS-2-9 **Lab ID: 10505740009** Collected: 01/15/20 17:40 Received: 01/17/20 09:55 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Trichloroethene	**<0.39**	ug/m3	0.85	0.39	1.55		01/22/20 16:04	79-01-6	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 12884
Pace Project No.: 10505740

QC Batch: 655794 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10505740001, 10505740002, 10505740003, 10505740004, 10505740005, 10505740006

METHOD BLANK: 3523489 Matrix: Air
Associated Lab Samples: 10505740001, 10505740002, 10505740003, 10505740004, 10505740005, 10505740006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/m3	<0.13	0.27	01/21/20 09:55	

LABORATORY CONTROL SAMPLE: 3523490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/m3	56.7	59.7	105	70-132	

SAMPLE DUPLICATE: 3524128

Parameter	Units	10505804002 Result	Dup Result	RPD	Max RPD	Qualifiers
Trichloroethene	ug/m3	<0.25	<0.25		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12884
Pace Project No.: 10505740

QC Batch: 656012 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10505740007, 10505740008, 10505740009

METHOD BLANK: 3524397 Matrix: Air
Associated Lab Samples: 10505740007, 10505740008, 10505740009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/m3	<0.13	0.27	01/22/20 09:47	

LABORATORY CONTROL SAMPLE: 3524398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/m3	54.6	57.5	105	70-132	

SAMPLE DUPLICATE: 3525178

Parameter	Units	10505841005 Result	Dup Result	RPD	Max RPD	Qualifiers
Trichloroethene	ug/m3	1.2	1.5	21	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 12884
Pace Project No.: 10505740

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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 at or above the adjusted LOD.

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 12884
Pace Project No.: 10505740

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10505740001	**IAS-2-1**	TO-15	655794		
10505740002	**IAS-2-2**	TO-15	655794		
10505740003	**IAS-2-3**	TO-15	655794		
10505740004	**IAS-2-4**	TO-15	655794		
10505740005	**IAS-2-5**	TO-15	655794		
10505740006	**IAS-2-6**	TO-15	655794		
10505740007	**IAS-2-7**	TO-15	656012		
10505740008	**IAS-2-8**	TO-15	656012		
10505740009	**IAS-2-9**	TO-15	656012		

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AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All relev

WO# : 10505740

10505740

43356

Page: 1 of 1

Section A Required Client Information:

Company: The Sigma Group
Address: 1300 W. Canal St
Milwaukee, WI 53233
Email To: jkrause@thesigmagroup.com
Phone: 414-643-4200 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: same
Copy To:
Purchase Order No.:
Project Name:
Project Number: 12884

Section C Invoice Information:

Attention: same : Attn: Jacob Krause
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 38705

Program
☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act
☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units
ug/m³ X mg/m³
PPBV PPMV
Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	IAS-2-1	6LC	N/A	1/15/20	8:14a	1/15/20	4:15p	-29	-3.5	2144	1402							X			001
2	IAS-2-2				8:21a		4:23p	-30	-5	2762	0258							X			002
3	IAS-2-3				8:35a		4:38p	-30	-3	3628	1756							X			003
4	IAS-2-4				8:44a		4:47p	-31	-4	3564	1672							X			004
5	IAS-2-5				8:56a		4:56p	-31	-4.5	1056	1273							X			005
6	IAS-2-6				9:07a		5:12p	-31	-5	2817	1269							X			006
7	IAS-2-7				9:16a		5:19p	-29	-4.5	3651	0394							X			007
8	IAS-2-8				9:24a		5:25p	-30	-5	2671	1805							X			008
9	IAS-2-9				9:39a		5:40p	-29	-4	1221	1893							X			009
10																					
11																					
12																					

Comments :

Shortlist: TCE only please

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Jacob Krause (Sigma)	1/15/20	6:00pm	PACE	1/17/20	955

SAMPLE CONDITIONS

—	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jacob Krause

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 01/15/20

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Nov2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.20	Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt **Client Name:** SIGMA ENV. **Project #:** **WO#: 10505740**

PM: KNH **Due Date: 01/24/20**

CLIENT: SIGMA ENV

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exception** ☐

Tracking Number: 1083 0283 7611

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other:_____ **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** X **Thermometer Used:** ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 1/17/20 cmy

Type of ice Received ☐ Blue ☐ Wet ☒ None

			Comments:
Chain of Custody Present?	☒ Yes	☐ No	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	7.
Sufficient Volume?	☒ Yes	☐ No	8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No	9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒ Yes	☐ No	10.
Media: (Air Can) Airbag Filter TDT Passive			11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes	☐ No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒ Yes	☐ No	13.

Gauge # ☒ 10AIR26 ☐ 10AIR34 ☐ 10AIR35 ☐ 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
IAS-2-1	2144	1402	-4.5	-5	" 9	1221	1893	-4	-5
" 2	2762	0258	-6	-5					
" 3	3628	1756	-4	-5					
" 4	3564	1672	-4	-5					
" 5	1056	1273	-4	-5					
" 6	2817	1269	-4.5	-5					
" 7	3651	0394	-5	-5					
" 8	2671	1905	-5	-5					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kirsten Hoffberg **Date:** 1/17/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Appendix B

Soil Boring Logs

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

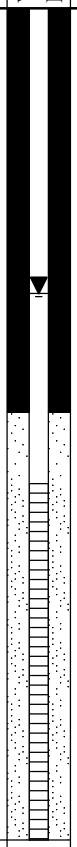
Facility/Project Name	License/Permit/Monitoring Number	Boring Number
ACME Galvanizing	-	MW-23

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Adam Sweet Horizon Construction and Exploration	1/29/2020	8/14/2019	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-23	623.6 Feet MSL	635.6 Feet MSL	4.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 369,695 N, 2,552,650 E Ⓢ/C/N
NW 1/4 of SE 1/4 of Section 7, T 6 N, R 22 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			3 6 9 12 15 18 21 24 27 30 33	BLIND DRILLED - REFER TO PZ-6 LOG. EOB @ 35', SET MW-23 WITH 15' SCREEN										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
	The Sigma Group 1300 W Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
ACME Galvanizing	-	PZ-6

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Adam Sweet Horizon Construction and Exploration	1/29/2020	1/29/2020	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		PZ-6	603.6 Feet MSL	636.6 Feet MSL	4.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 369,685 N, 2,552,640 E Ⓢ/C/N
NW 1/4 of SE 1/4 of Section 7, T 6 N, R 22 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60 17	PUSH	0	TOPSOIL				0						
		PUSH		GRAVELLY SAND, brown, dense, moist, trace silt	SW			0						
2 GP	60 35	PUSH	5	SANDY CLAY, brown, stiff, moist, possibly wet in slightly sandier zones	CLS			0						
3 GP	60 51	PUSH	10	SILTY CLAY, dark brownish grey, stiff, moist, trace fine sand				0						
4 GP	60 57	PUSH	15					0						
5 GP	60 58	PUSH	20	much fine sand from 19-20' bgs transition to medium soft				0						
6 GP	60 41	PUSH	25	transition to dark brown, very stiff trace gravel from 28-28.5' bgs	CL-ML			0						No recovery 25-26' bgs
7 GP	60 53	PUSH	30	transition to dark brownish grey with trace gravel				0						
8 GP	60 58	PUSH	35					0						
9 GP	60 47	PUSH	40	SILTY SAND, grey, dense, moist and possibly wet	SM SP-SC			0						
10 GP	60 41	PUSH	45	CLAYEY SAND, fine, grey, dense, wet, much silt	SP			0						
		PUSH		SAND, medium to fine, dense, wet, trace clay, trace silt	ML			0						
		PUSH		SILT, grey, medium stiff, wet, trace clay	CL									
		PUSH		CLAY, grey, very stiff, wet										
		PUSH		EOB @ 50', set PZ-6 to 48' w/ 5' screen.										EOB @ 50' bgs

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
	The Sigma Group 1300 W Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Appendix C

Monitoring Well Construction Reports

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: ACME Galvanizing	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW-23
Facility License, Permit or Monitoring No.: -	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 369,695 ft. N, 2,552,650 ft. E. Ⓢ/C/N	Date Well Installed: 01/29/2020
Type of Well: Well Code 11/mw	Section Location of Waste/Source: NW 1/4 of SE 1/4 of Sec. 7, T. 6 N, R. 22 ☒ E ☐ W	Well Installed By: (Person's Name and Firm): Adam Sweet / Horizon
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation 635.6 ft. MSL
D. Surface seal, bottom 618.6 ft. MSL or 17.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

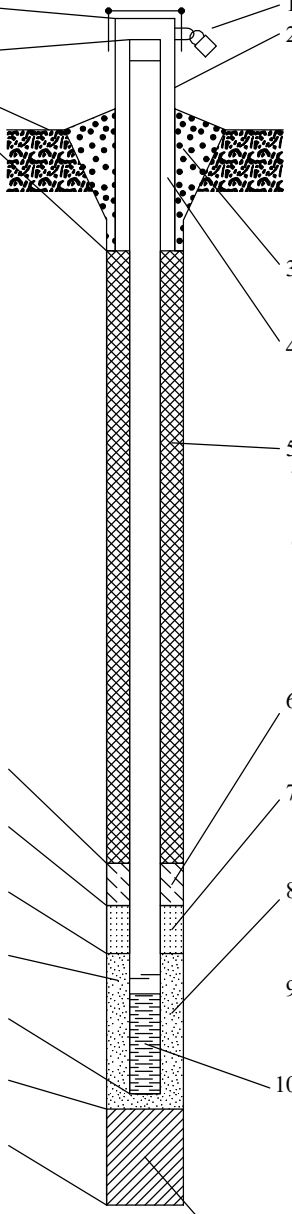
14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☒ 4 1 / Other ☐ _ _

15. Drilling fluid used: Water ☐ 0 2 / Air ☐ 0 1 / Drilling Mud ☐ 0 3 / None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 635.4 ft. MSL or 0.3 ft.
F. Fine sand, top 618.6 ft. MSL or 17.0 ft.
G. Filter pack, top 617.6 ft. MSL or 18.0 ft.
H. Screen joint, top 615.6 ft. MSL or 20.0 ft.
I. Well bottom 605.6 ft. MSL or 30.0 ft.
J. Filter pack, bottom 600.6 ft. MSL or 35.0 ft.
K. Borehole, bottom 600.6 ft. MSL or 35.0 ft.
L. Borehole, diameter 4.3 in.
M. O.D. well casing 2.10 in.
N. I.D. well casing 2.00 in.



1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☒ 0 4 / Other ☐ _ _
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 3 0 / Concrete ☐ 0 1 / Other ☐ _ _
4. Material between well casing and protective pipe: Bentonite ☐ 3 0 / Other ☒ _ _
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☐ 0 2 / Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ _ _
7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint Fine _ _
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red FLint #5 _ _
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 / Flush threaded PVC schedule 80 ☐ 2 4 / Other ☐ _ _
10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / Other ☐ _ _
b. Manufacturer ____
c. Slot size: 0.010 in.
d. Slotted length: 15.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4 / Other ☐ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm The Sigma Group, 1300 W Canal St Milwaukee, WI 53233 Tel: 414-643-4200 Fax: 414-643-4210

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: ACME Galvanizing	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: PZ-6
Facility License, Permit or Monitoring No.: -	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 369,685 ft. N, 2,552,640 ft. E. Ⓢ/C/N	Date Well Installed: 01/29/2020
Type of Well: Well Code 11/mw	Section Location of Waste/Source: NW 1/4 of SE 1/4 of Sec. 7, T. 6 N, R. 22 ☒ E ☐ W	Well Installed By: (Person's Name and Firm): Adam Sweet / Horizon
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation 636.6 ft. MSL
D. Surface seal, bottom 596.6 ft. MSL or 40.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

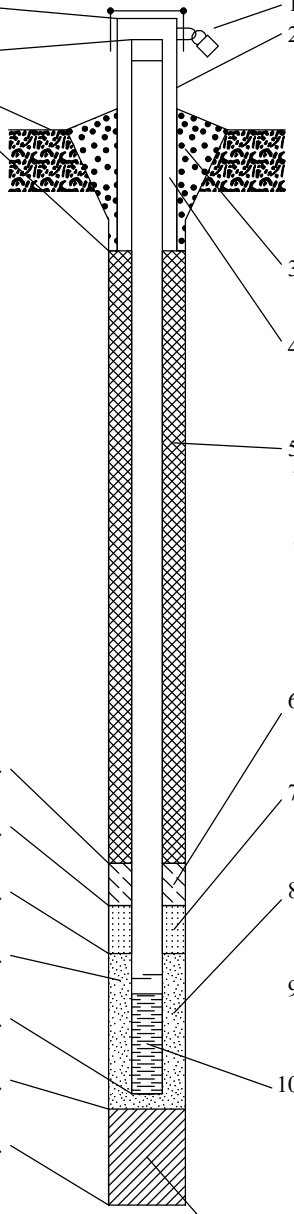
14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
____ Other ☐ _ _

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
____

E. Bentonite seal, top 636.4 ft. MSL or 0.3 ft.
F. Fine sand, top 596.6 ft. MSL or 40.0 ft.
G. Filter pack, top 595.6 ft. MSL or 41.0 ft.
H. Screen joint, top 593.6 ft. MSL or 43.0 ft.
I. Well bottom 594.6 ft. MSL or 42.0 ft.
J. Filter pack, bottom 588.6 ft. MSL or 48.0 ft.
K. Borehole, bottom 588.6 ft. MSL or 48.0 ft.
L. Borehole, diameter 4.3 in.
M. O.D. well casing 2.10 in.
N. I.D. well casing 2.00 in.



1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☒ 0 4
____ Other ☐ _ _
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 3 0
Concrete ☐ 0 1
____ Other ☐ _ _
4. Material between well casing and protective pipe:
Bentonite ☐ 3 0
____ Other ☒ _ _
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3 3
b. ____Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☐ 0 2
Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ _ _
7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint Fine _ _
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red FLint #5 _ _
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
____ Other ☐ _ _
10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ _ _
b. Manufacturer ____
c. Slot size: 0.010 in.
d. Slotted length: 15.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4
____ Other ☐ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: The Sigma Group, 1300 W Canal St Milwaukee, WI 53233 Tel: 414-643-4200 Fax: 414-643-4210

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Appendix D

Monitoring Well Development Forms

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
ACME Galvanizing	Milwaukee	MW-23

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	__	WB931	___

1. Can this well be purged dry? ☐ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐ __

3. Time spent developing well _____ min.

4. Depth of well (from top of well casisng) 34.15 ft.

5. Inside diameter of well ___.__ in.

6. Volume of water in filter pack and well casing ____.__ gal.

7. Volume of water removed from well ____.__ gal.

8. Volume of water added (if any) ____.__ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. ____.__ ft.	____.__ ft.
Date	b. 01/30/2020 (m m d d y y y y)	01/30/2020 (m m d d y y y y)
Time	c. __:__ ■ a.m. ☐ p.m.	__:__ ■ a.m. ☐ p.m.
12. Sediment in well bottom	___.__ inches	___.__ inches
13. Water clarity	Clear ☐ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (Describe)
14. Total suspended solids	_____.__ mg/l	_____.__ mg/l
15. COD	_____.__ mg/l	_____.__ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: TOM Last Name: McCoy
Firm: The Sigma Group

17. Additional comments on development:

– Well is dry –

Name and Address of Facility Contact /Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: TOM McCoy
Firm: The Sigma Group

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
ACME Galvanizing	Milwaukee	PZ-6

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	__	WB 932	___

1. Can this well be purged dry? ☐ Yes ■ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	■ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐ ▒▒

3. Time spent developing well 130 min.

4. Depth of well (from top of well casisng) 46.80 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing ____.__ gal.

7. Volume of water removed from well 55.00 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added —

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 32.09 ft.	42.92 ft.
Date	b. 01/30/2020 (m m d d y y y y)	01/30/2020 (m m d d y y y y)
Time	c. 08:05 ■ a.m. ☐ p.m.	10:15 ■ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ■ 15 (Describe)	Clear ■ 20 Turbid ☐ 25 (Describe)
	0-15 Gallons Turbid/Silty 15-30 Gallons Slightly Turbid/Silty	30-45 Gallons Mostly Clear 45-55 Gallons Clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: TOM Last Name: McCoy
Firm: The Sigma Group

17. Additional comments on development:

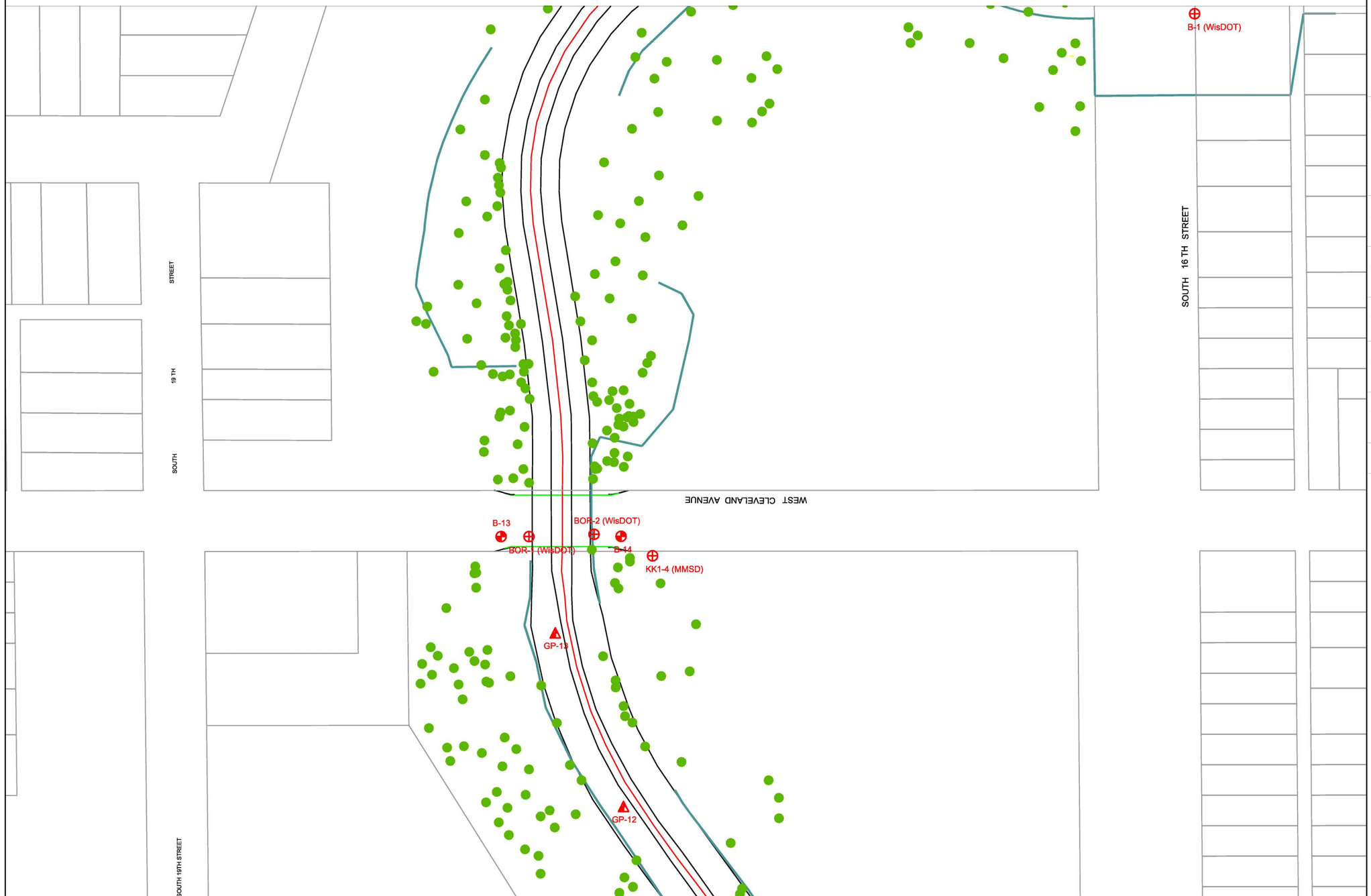
Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: TOM McCoy
Firm: The Sigma Group

NOTE: See instructions for more information including a list of county codes and well type codes.

Appendix E

Off-Site Geologic Information



GESTRA Engineering, Inc.
191 W. Edgerton Avenue
Milwaukee, WI-53207
Phone: 414-933-7444 Fax: 414-933-7844
www.gestrainc.com

Project Name & Location:
Kinnickinnic River Reach 2
(S. 6th Street to S. 27th Street)

Project No.:
14132-10

Drawing Title:
Borehole Location Map

Drawing No.:
7 of 11

Date:
3/17/2017

Scale:
1" = 100'

Drawn by:	Checked by:
ESJ	DB

= GESTRA BORING LOCATION
= GEOPROBE LOCATION
= APPROXIMATE HISTORICAL SOIL BORING LOCATION

SOIL BORING LOG

Gestra Engineering Inc.
191 W. Edgerton Avenue
Milwaukee, WI 53207
Phone: 414-933-7444, Fax: 414-933-7844

PROJECT NAME	KK River Reach 2
PROJECT LOCATION	Milwaukee, WI
DATE DRILLING STARTED	12/22/2016
DATE DRILLING ENDED	12/22/2016
BORING NUMBER	B-13
PROJECT NUMBER	14132-10
DRILLING RIG	CME 75 (International)
BORING DRILLED BY	FIRM: Gestra CREW CHIEF: M. Panfil
FIELD LOG	J. Pettit
LAB LOG / QC	J. Bruesewitz
LATITUDE	° ' "
LONGITUDE	° ' "
DRILLING METHOD	3¼" HSA
SURFACE ELEVATION	ft

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) / Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q_u or Q_p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
					Asphalt (3")								Elevation was survey by GESTRA and reference to manhole KK1A09 located west of the existing bridge. Rim elevation of manhole was provide by MMSD on digger hotline ticket 53.1 feet. Rim elevation was than converted to project elevation 633.7 feet. MMSD to pick up coordinates of boring on a later date.
					0.3								
					Concrete (8")								
					1								
					Base Course (8")								
					1.7								
					SAND WITH GRAVEL, gray, moist, (FILL)								
SS - 1	12	4 5 6	11	5		SP							
SS - 2	5	2 1 3	4	10									
					11								
					SILTY SAND WITH GRAVEL, brown, moist (FILL)								
SS - 3	18	6 6 4	10			SM							P200 =17.2%
					14								
					SANDY LEAN CLAY, dark brown, moist, (FILL)								
SS - 4	16	6 3 2	5	15		CL						27.3	
					16.4								
					CLAYEY SAND, brown, very moist, trace gravel, (FILL)								
SS - 5	12	2 2 3	5			SC							P200 =22%
SS - 6	2	3 2 3	5	20									
					20.9								
					SAND, gray, moist, loose to medium dense, trace gravel, with gray lean clay seams, (FILL)								
SS - 7	10	3 4 5	9			SP							
				25									P200 =11.6%

WATER & CAVE-IN OBSERVATION DATA

▽	WATER ENCOUNTERED DURING DRILLING: 29.5 ft.		CAVE DEPTH AT COMPLETION: 39 ft.	WET ☐ DRY ☐
▼	WATER LEVEL AT COMPLETION: 28 ft.		CAVE DEPTH AFTER 0 HOURS: NMR	WET ☐ DRY ☐
▼	WATER LEVEL AFTER 0 HOURS: NMR			

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.

SOIL BORING LOG

Gestra Engineering Inc.
191 W. Edgerton Avenue
Milwaukee, WI 53207
Phone: 414-933-7444, Fax: 414-933-7844

PROJECT NAME	KK River Reach 2
PROJECT LOCATION	Milwaukee, WI
DATE DRILLING STARTED	12/22/2016
DATE DRILLING ENDED	12/22/2016
BORING NUMBER	B-13
PROJECT NUMBER	14132-10
DRILLING RIG	CME 75 (International)
BORING DRILLED BY	FIRM: Gestra CREW CHIEF: M. Panfil
FIELD LOG	J. Pettit
LAB LOG / QC	J. Bruesewitz
LATITUDE	° ' "
LONGITUDE	° ' "
DRILLING METHOD	3¼" HSA
SURFACE ELEVATION	ft

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) / Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q_u or Q_p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 8	17	8 9 9	18		SAND, gray, moist, loose to medium dense, trace gravel, with gray lean clay seams, (FILL)	SP							
					26.3 SAND, gray, wet, medium dense, trace gravel								
SS - 9	16	5 5 7	12	30		SP							
SS - 10	16	7 10 13	23	35									
					37.7 LEAN CLAY WITH SAND WITH GRAVEL, gray, moist, hard								
SS - 11	18	7 10 12	22	40		CL			4.50+			11.5	
					41 End of Boring at 41.0 ft.								
				45									
				50									

WATER & CAVE-IN OBSERVATION DATA

▽	WATER ENCOUNTERED DURING DRILLING: 29.5 ft.	▨	CAVE DEPTH AT COMPLETION: 39 ft.	WET ☐ DRY ☐
▼	WATER LEVEL AT COMPLETION: 28 ft.		CAVE DEPTH AFTER 0 HOURS: NMR	WET ☐ DRY ☐
▼	WATER LEVEL AFTER 0 HOURS: NMR			

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.

SOIL BORING LOG

Gestra Engineering Inc.
191 W. Edgerton Avenue
Milwaukee, WI 53207
Phone: 414-933-7444, Fax: 414-933-7844

PROJECT NAME	KK River Reach 2
PROJECT LOCATION	Milwaukee, WI
DATE DRILLING STARTED	12/22/2016
DATE DRILLING ENDED	12/22/2016
BORING NUMBER	B-14
PROJECT NUMBER	14132-10
DRILLING RIG	CME 75 (International)
BORING DRILLED BY	FIRM: Gestra CREW CHIEF: M. Panfil
FIELD LOG	J. Pettit
LAB LOG / QC	J. Bruesewitz
LATITUDE	° ' "
LONGITUDE	° ' "
DRILLING METHOD	3¼" HSA
SURFACE ELEVATION	ft

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) / Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q_u or Q_p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
					Asphalt (3")								Elevation was survey by GESTRA and reference to manhole KK1A09 located west of the existing bridge. Rim elevation of manhole was provide by MMSD on digger hotline ticket 53.1 feet. Rim elevation was than converted to project elevation 633.7 feet. MMSD to pick up coordinates of boring on a later date.
					0.3								
					Concrete (7")								
					0.9								
					Base Course (8")								
					1.6								
					LEAN CLAY, brown, very moist, with sand seams, trace gravel (FILL)								
SS - 1	13	4 3 2	5	5		CL						16.6	
					7.1								
					SILTY SAND, brown, moist, trace gravel (FILL)								
SS - 2	18	2 2 2	4	10		SM							P200 =29.9%
					11.5								
					LEAN CLAY, brown, moist, (FILL)								
SS - 3	12	2 3 4	7			CL						15.4	
					13.8								
					LEAN CLAY, brown then gray, moist, (FILL)								
SS - 4	18	4 6 10	16	15								16.7	
SS - 5	18	6 11 17	28			CL						17.9	
SS - 6	18	7 12 18	30	20	Color change to gray at 19.5'							9.7	
					21.5								
					SAND WITH SILT, brown, moist, medium dense, trace to with gravel								
SS - 7	12	6 9 10	19			SP							
				25									P200 =9.4%

WATER & CAVE-IN OBSERVATION DATA

▽	WATER ENCOUNTERED DURING DRILLING: 29.5 ft.		CAVE DEPTH AT COMPLETION: 38 ft.	WET ☐ DRY ☐
▼	WATER LEVEL AT COMPLETION: 28 ft.		CAVE DEPTH AFTER 0 HOURS: NMR	WET ☐ DRY ☐
▼	WATER LEVEL AFTER 0 HOURS: NMR			

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.

SOIL BORING LOG

Gestra Engineering Inc.
191 W. Edgerton Avenue
Milwaukee, WI 53207
Phone: 414-933-7444, Fax: 414-933-7844

PROJECT NAME	KK River Reach 2
PROJECT LOCATION	Milwaukee, WI
DATE DRILLING STARTED	12/22/2016
DATE DRILLING ENDED	12/22/2016
BORING NUMBER	B-14
PROJECT NUMBER	14132-10
DRILLING RIG	CME 75 (International)
BORING DRILLED BY	FIRM: Gestra CREW CHIEF: M. Panfil
FIELD LOG	J. Pettit
LAB LOG / QC	J. Bruesewitz
LATITUDE	° ' "
LONGITUDE	° ' "
DRILLING METHOD	3¼" HSA
SURFACE ELEVATION	ft

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) / Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q_u or Q_p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 8	14	6 10 12	22		SAND WITH SILT, brown, moist, medium dense, trace to with gravel	SP							
					27.6								
					SAND, gray, wet, medium dense, trace gravel, some lean clay seams								
SS - 9	12	5 9 12	21	30		SP							
SS - 10	18	8 12 13	25	35									
					37.8								
					LEAN CLAY WITH SAND WITH GRAVEL, gray, moist, hard	CL							
SS - 11	17	8 10 14	24	40					4.5+			10.4	
					41								
					End of Boring at 41.0 ft.								
				45									
				50									

WATER & CAVE-IN OBSERVATION DATA

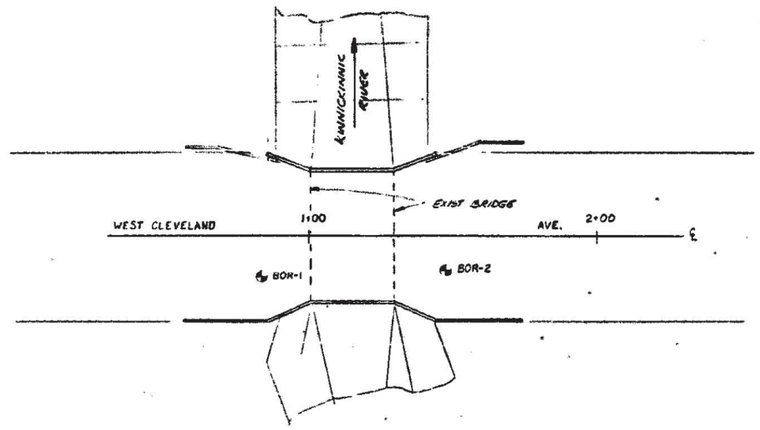
▽	WATER ENCOUNTERED DURING DRILLING: 29.5 ft.	▨	CAVE DEPTH AT COMPLETION: 38 ft.	WET ☐ DRY ☐
▼	WATER LEVEL AT COMPLETION: 28 ft.		CAVE DEPTH AFTER 0 HOURS: NMR	WET ☐ DRY ☐
▼	WATER LEVEL AFTER 0 HOURS: NMR			

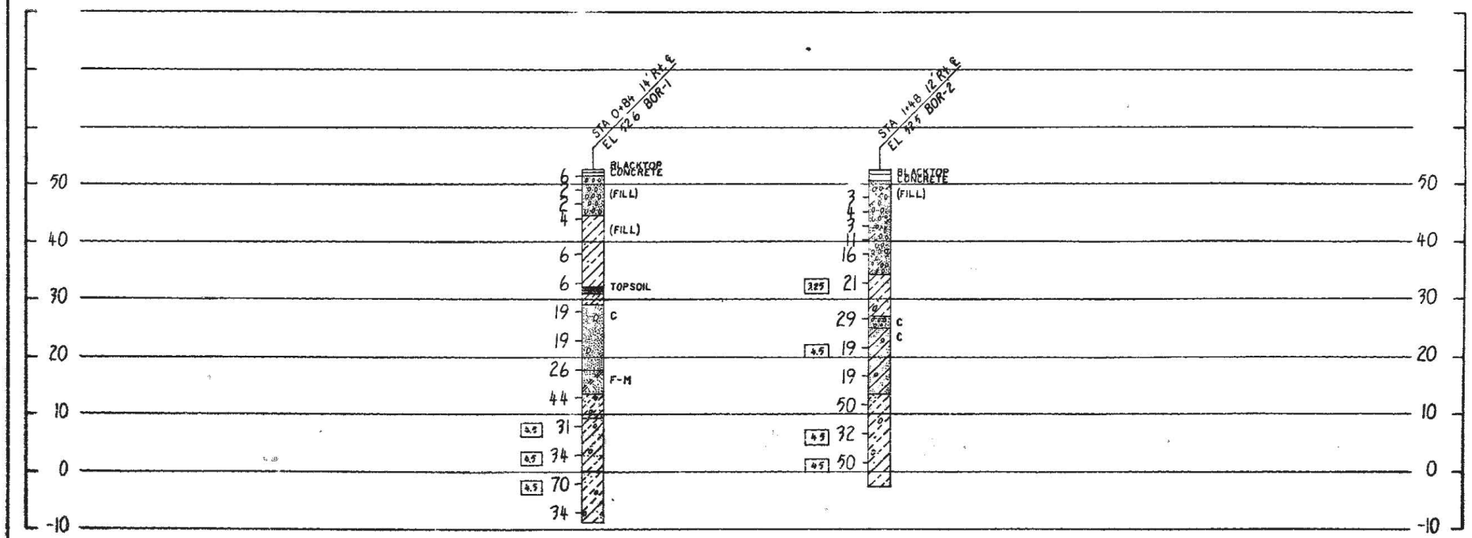
NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.

STATE PROJECT NUMBER	SHEET NO
2045-01-70	B.2

WEST CLEVELAND AVE.
OVER
KINNICKINNIC RIVER

STA 1+00 IS WEST END OF BRIDGE





STATE PROJECT NUMBER	SHEET NO.
2045-01-00	

ABBREVIATIONS
F — Fine M — Medium C — Coarse
Ws — Weathered So — Sound

MATERIAL SYMBOLS
Topsoil, Silt, Sandstone, Sand, Peat, Limestone, Gravel, Clay, Igneous Rock

LEGEND OF PROBING
Probing No.
Sta.
Elevation
7 Average Blows Per Foot
Refusal 95 6
95/6 - 95 Blows for 6" Penetration
Probing taken with a 350# wt. Falling 18" on a 2" O. D Point

LEGEND OF BORING
Boring No.
Sta.
Elev
Unconfined Strength — 7.7
Sandy Gravel
Blows Per Ft Using 140# Wt Falling 30
F
Boulders or Cobbles
Wash Sample
Sand
Shelby Tube — S. T
Ground Water Elevation
Silty Clay
No Ground Water Observed Above This Elevation
So
Limestone

Unless otherwise specified, the blows per foot at the locations indicated are based on driving a 2" O D x 1 4" I D split spoon sampler with a 140# hammer having a free fall of 30" The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing The data presented herein represents the findings of the subsurface explorations made. However because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area the Division of Highways does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site

No	Date	Revision	By

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE B-40-549

Const. Spec. 1981 | Drawn By | Plans Checked

SUBSURFACE EXPLORATION | SHEET 3 OF 12 | X

City of Milwaukee
Department of Public Works
Bureau of Bridges and Public Buildings

WEST CLEVELAND AVENUE
KINNICKINNIC RIVER BRIDGE
SUBSURFACE EXPLORATION

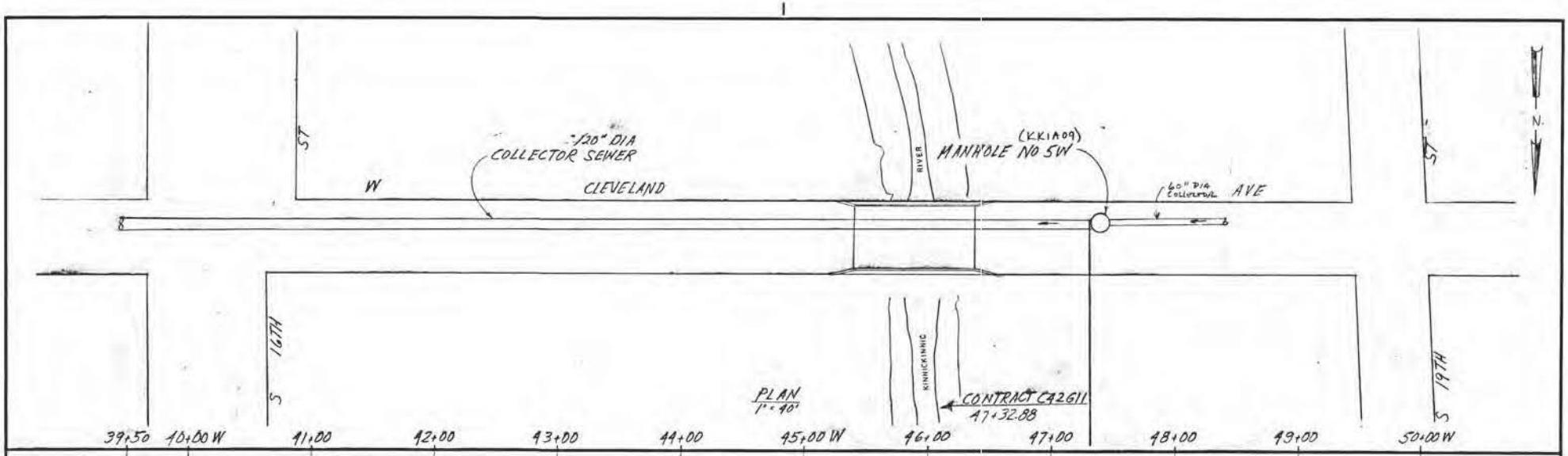
REVISIONS

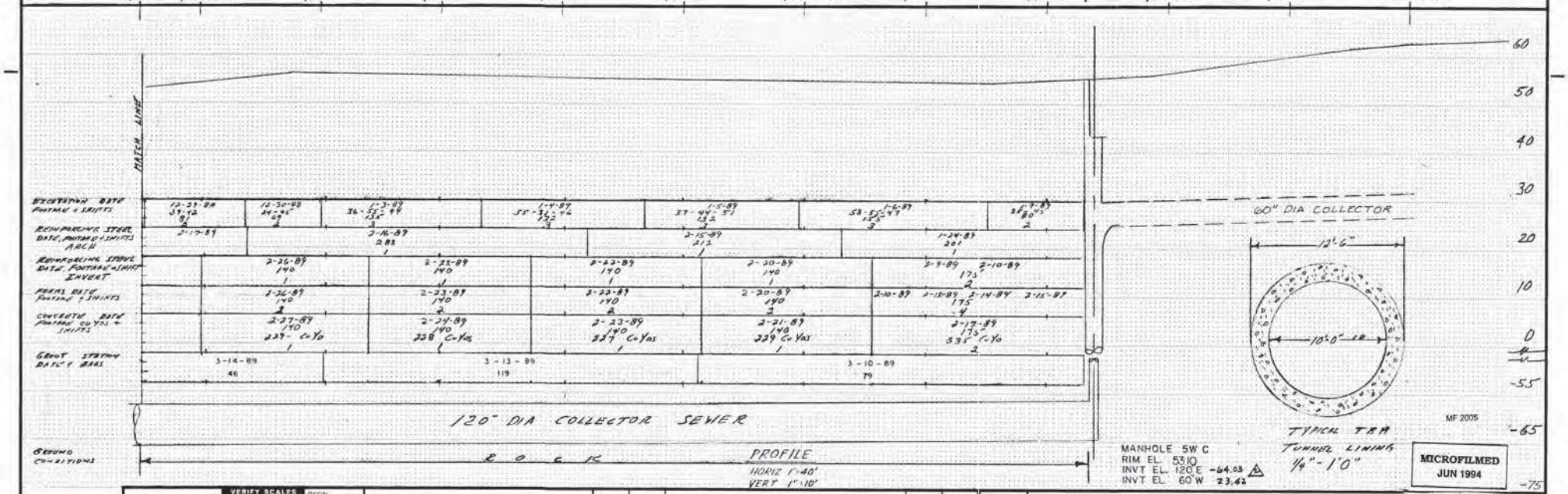
DESIGNED BY
DRAWN BY
CHECKED BY
DATE | SCALE
JOB NUMBER 574-05
SHEET NUMBER 3
OF 12

B-40-549

X74616

B-40-





MF 2005

MICROFILMED
JUN 1994

VERIFY SCALES	DSGN
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DR FGPN
	CHK
	APVD

NO.	DATE	REVISION	BY	APVD
1	10/19/89 6-17-92	ADDED ELEVATIONS TO MATCH RECORD DWG #98-53E RECORD INFORMATION ADDED	FINAL GLY	

mmsd

KINNICKINNIC 1 COLLECTOR SYSTEM
IN W CLEVELAND AVE FROM 203' W OF S 15TH PL TO 75' W OF S 19TH ST

DWG NO.	6
SHEET	6-24
DATE	
PROJ ID	C42G11
FILE	98-10A

RECORD DRAWING

C42G11

STATE PROJECT NUMBER

2235-01-71

N

0 5 10 20

PROPOSED STRUCTURE

EXISTING STRUCTURE (P-40-835) TO BE REMOVED

BORING NO 1

C/L BRIDGE & ROADWAY

12+00

13+00

BORING NO 2

BORING NO 2A

KINNICKINNIC RIVER

APPROX LOCATION
BORING NO 2
STA 11+38
EL 19.40

APPROX LOCATION
BORING NO 2A
STA 11+44
EL -14.10
BLIND DRILLING TO EL. -14.10

END OF DECK
STA 12+01.04
EL 23.64

LOW MEMBER
EL 17.84

HW 100 YR
EL 17.76

HW 2 YR
EL 12.42

END OF DECK
STA 13+04.96
EL 27.38

APPROX LOCATION
BORING NO 1
STA 13+35
EL 26.40

PROFILE GRADE LINE

EXISTING GROUND AT C/L

EL 9.4

EL 5.7

EL 9.4 (EAST SIDE)
EL 16.85 (WEST SIDE)

EL 5.7

EXISTING CONC CHANNEL

PROPOSED STREAMBED
SEE NOTE 1 ON SHEET 1

10¾" DIA CAST-IN-PLACE
PILES EST 20 FT LONG TYPICAL
BOTH ABUTMENTS AND WALLS

SOUTH ABUTMENT

NORTH ABUTMENT

7		CONCRETE (1'-0")
15		FILL - LEAN CLAY, TRACE SILT, GRAY, MOIST STIFF
15		FILL - SILTY CLAY, GRAY, VERY MOIST, MEDIUM STIFF
6		ORGANIC CLAY, WITH WOODEN FIBER, DARK BROWN MOIST, MEDIUM STIFF
20		SILTY SAND - FINE TO COURSE GRAIN, TRACE GRAVEL, GRAY, BROWN MOTTLED, WET, LOOSE
24		LEAN CLAY - WITH GRAVEL, MOIST TO WET, HARD
30		SANDY SILTY CLAY - WITH GRAVEL, GRAY, MOIST, HARD
		END OF BORING AT EL -10.6
59		SILTY CLAY - WITH GRAVEL, TRACE SAND, GRAY WET, HARD
73		SANDY SILTY CLAY - WITH GRAVEL, GRAY, WET HARD
50/5"		WEATHERED BEDROCK - WITH FINE TO MEDIUM SAND & GRAVEL, WHITE TO LIGHT BROWN, WET
		END OF BORING AT EL -25.6

9		CONCRETE (11")
4		BASE COURSE
		FILL - SANDY SILTY CLAY, WITH SAND LENSES, BROWN, MOIST, LOOSE
6		POSSIBLE FILL - SILTY SAND, FINE TO COURSE GRAIN SOME GRAVEL, BROWN, MOIST, LOOSE
23		SILTY CLAY, WITH GRAVEL, LIGHT BROWN, MOIST, STIFF GRAY COLOR OBSERVED AT EL 11.4. SCATTERED SILT LAYERS AT EL 7.9. MOIST TO WET CONDITION IN SAMPLE 4. LARGE ROCK IN SPOON CATCHER BOTTOM END.
16		SILTY SAND - FINE TO MEDIUM GRAIN, GRAY, WET MEDIUM DENSE
40		LEAN CLAY - WITH GRAVEL, MOIST, VERY STIFF TO HARD
50/3"		
		END OF BORING AT EL -12.4

35 25 15 5 -5 -15 -25 -35

SOIL BORINGS PERFORMED BY:

GESTRA ENGINEERING, INC
1626 W. FOND DU LAC AVENUE
MILWAUKEE, WI 53205
PH: 414.933.7444 FAX: 414.933.7844

REPORT BY:
SANGHO LEE, PHD

ABBREVIATIONS

F — FINE M — MEDIUM C — COURSE
WS — WEATHERED SO — SOUND

MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING

PROBING NO.
STA
ELEVATION
7 AVEREAGE BLOWS PER FOOT
REFUSAL 95/6

95/6=95 BLOWS FOR 6" PENETRATION
PROBING TAKEN WITH A 350#WT FALLING 18" ON A 2" O.D. POINT

LEGEND OF BORING

BORING NO.
STA
ELEV
UNCONFINED STRENGTH
7.7
BLOWS PER FT USING 140# WT FALLING 30"
WASH SAMPLE
SHELBY TUBE — S.T.
GROUND WATER ELEVATION
NO GROUND WATER OBSERVED ABOVE THIS ELEVATION
SANDY GRAVEL
F.
BOULDERS OR COBBLES
SAND
SILTY CLAY
SO
LIMESTONE

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTRIBUTED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE DIVISION OF HIGHWAYS DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENITRE SITE.

NO	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-40-743

CONST SPECWIS	2010	DRAWN BY	JWG/DLF	PLANS CK'D	CJB

SUBSURFACE EXPLORATION

SHEET 3 OF 34

62

RECEIVED

8

8

FILE NAME : P:±KO±M±MMSDO±10589?±5-dsgn±51-cadd±Structural±Bridge±B40743SubSurf01.dgn

PLOT DATE: 12/22/2009

PLOT TIME: 3:52:12 PM

Appendix F

Groundwater Laboratory Analytical Reports and COCs

Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JAKE KRAUSE
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE. WI 53233

Report Date *08-Aug-19*

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543A
Sample ID MW-1A
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	2.05 "J"	ug/l	0.7	2.33	1	6010B		8/7/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	8/1/2019	8/1/2019	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	8/1/2019	8/1/2019	NJC	1
Anthracene	< 0.015	ug/l	0.015	0.0478	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(a)anthracene	< 0.0131	ug/l	0.0131	0.0418	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	8/1/2019	8/1/2019	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	8/1/2019	8/1/2019	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	8/1/2019	8/1/2019	NJC	1
Fluoranthene	< 0.0088	ug/l	0.0088	0.0281	1	M8270C	8/1/2019	8/1/2019	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	8/1/2019	8/1/2019	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	8/1/2019	8/1/2019	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	8/1/2019	8/1/2019	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	8/1/2019	8/1/2019	NJC	1
Naphthalene	< 0.026	ug/l	0.026	0.083	1	M8270C	8/1/2019	8/1/2019	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	8/1/2019	8/1/2019	NJC	1
Pyrene	< 0.0121	ug/l	0.0121	0.0386	1	M8270C	8/1/2019	8/1/2019	NJC	1
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/1/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/1/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/1/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543A
Sample ID MW-1A
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/1/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/1/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/1/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/1/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/1/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/1/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/1/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/1/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/1/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/1/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/1/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/1/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/1/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/1/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/1/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/1/2019	CJR	1
1,1-Dichloroethane	2.54	ug/l	0.36	1.14	1	8260B		8/1/2019	CJR	1
1,1-Dichloroethene	5.7	ug/l	0.42	1.34	1	8260B		8/1/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		8/1/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/1/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/1/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/1/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/1/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/1/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/1/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/1/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/1/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/1/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/1/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/1/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/1/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/1/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/1/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/1/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/1/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/1/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/1/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/1/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/1/2019	CJR	1
1,1,1-Trichloroethane	31	ug/l	0.33	1.05	1	8260B		8/1/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/1/2019	CJR	1
Trichloroethene (TCE)	4.0	ug/l	0.3	0.94	1	8260B		8/1/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/1/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543A
Sample ID MW-1A
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/1/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/1/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/1/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/1/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/1/2019	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1	8260B		8/1/2019	CJR	1
SUR - Dibromofluoromethane	109	REC %			1	8260B		8/1/2019	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		8/1/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		8/1/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543B
Sample ID MW-2A
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	2.23 "J"	ug/l	0.7	2.33	1	6010B		8/7/2019	ESC	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/1/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/1/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/1/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/1/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/1/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/1/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/1/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/1/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/1/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/1/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/1/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/1/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/1/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/1/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/1/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/1/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/1/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/1/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/1/2019	CJR	1
1,1-Dichloroethane	7.8	ug/l	0.36	1.14	1	8260B		8/1/2019	CJR	1
1,1-Dichloroethene	4.2	ug/l	0.42	1.34	1	8260B		8/1/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		8/1/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/1/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/1/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/1/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/1/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/1/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/1/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/1/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/1/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/1/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/1/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/1/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/1/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/1/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/1/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/1/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/1/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543B
Sample ID MW-2A
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/1/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/1/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/1/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/1/2019	CJR	1
1,1,1-Trichloroethane	33	ug/l	0.33	1.05	1	8260B		8/1/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/1/2019	CJR	1
Trichloroethene (TCE)	2.27	ug/l	0.3	0.94	1	8260B		8/1/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/1/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/1/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/1/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/1/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/1/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/1/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		8/1/2019	CJR	1
SUR - 4-Bromofluorobenzene	91	REC %			1	8260B		8/1/2019	CJR	1
SUR - Dibromofluoromethane	107	REC %			1	8260B		8/1/2019	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		8/1/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543C
Sample ID MW-4A
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/1/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/1/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/1/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/1/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/1/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/1/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/1/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/1/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/1/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/1/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/1/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/1/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/1/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/1/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/1/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/1/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/1/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/1/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/1/2019	CJR	1
1,1-Dichloroethane	2.36	ug/l	0.36	1.14	1	8260B		8/1/2019	CJR	1
1,1-Dichloroethene	0.44 "J"	ug/l	0.42	1.34	1	8260B		8/1/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		8/1/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/1/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/1/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/1/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/1/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/1/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/1/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/1/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/1/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/1/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/1/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/1/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/1/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/1/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/1/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/1/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/1/2019	CJR	1
Tetrachloroethene	1.96	ug/l	0.38	1.21	1	8260B		8/1/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/1/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/1/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543C
Sample ID MW-4A
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/1/2019	CJR	1
1,1,1-Trichloroethane	23.8	ug/l	0.33	1.05	1	8260B		8/1/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/1/2019	CJR	1
Trichloroethene (TCE)	8.6	ug/l	0.3	0.94	1	8260B		8/1/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/1/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/1/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/1/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/1/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/1/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/1/2019	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		8/1/2019	CJR	1
SUR - Dibromofluoromethane	109	REC %			1	8260B		8/1/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		8/1/2019	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			1	8260B		8/1/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543D
Sample ID MW-5A
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 11	ug/l	11	35.5	50	8260B		8/2/2019	CJR	1
Bromobenzene	< 22	ug/l	22	69	50	8260B		8/2/2019	CJR	1
Bromodichloromethane	< 16.5	ug/l	16.5	53	50	8260B		8/2/2019	CJR	1
Bromoform	< 22.5	ug/l	22.5	72	50	8260B		8/2/2019	CJR	1
tert-Butylbenzene	< 12.5	ug/l	12.5	40	50	8260B		8/2/2019	CJR	1
sec-Butylbenzene	< 39.5	ug/l	39.5	126.5	50	8260B		8/2/2019	CJR	1
n-Butylbenzene	< 35.5	ug/l	35.5	112.5	50	8260B		8/2/2019	CJR	1
Carbon Tetrachloride	< 15.5	ug/l	15.5	49	50	8260B		8/2/2019	CJR	1
Chlorobenzene	< 13	ug/l	13	41.5	50	8260B		8/2/2019	CJR	1
Chloroethane	< 30.5	ug/l	30.5	97.5	50	8260B		8/2/2019	CJR	1
Chloroform	< 13	ug/l	13	41	50	8260B		8/2/2019	CJR	1
Chloromethane	< 27	ug/l	27	86	50	8260B		8/2/2019	CJR	1
2-Chlorotoluene	< 15.5	ug/l	15.5	49	50	8260B		8/2/2019	CJR	1
4-Chlorotoluene	< 13	ug/l	13	41.5	50	8260B		8/2/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 148	ug/l	148	471.5	50	8260B		8/2/2019	CJR	1
Dibromochloromethane	< 11	ug/l	11	34.5	50	8260B		8/2/2019	CJR	1
1,4-Dichlorobenzene	< 35	ug/l	35	111	50	8260B		8/2/2019	CJR	1
1,3-Dichlorobenzene	< 42.5	ug/l	42.5	135	50	8260B		8/2/2019	CJR	1
1,2-Dichlorobenzene	< 43	ug/l	43	137	50	8260B		8/2/2019	CJR	1
Dichlorodifluoromethane	< 16	ug/l	16	51	50	8260B		8/2/2019	CJR	1
1,2-Dichloroethane	< 12.5	ug/l	12.5	39	50	8260B		8/2/2019	CJR	1
1,1-Dichloroethane	243	ug/l	18	57	50	8260B		8/2/2019	CJR	1
1,1-Dichloroethene	54 "J"	ug/l	21	67	50	8260B		8/2/2019	CJR	1
cis-1,2-Dichloroethene	< 18.5	ug/l	18.5	58	50	8260B		8/2/2019	CJR	1
trans-1,2-Dichloroethene	< 17	ug/l	17	53.5	50	8260B		8/2/2019	CJR	1
1,2-Dichloropropane	< 22	ug/l	22	69.5	50	8260B		8/2/2019	CJR	1
1,3-Dichloropropane	< 15	ug/l	15	47	50	8260B		8/2/2019	CJR	1
trans-1,3-Dichloropropene	< 16	ug/l	16	50.5	50	8260B		8/2/2019	CJR	1
cis-1,3-Dichloropropene	< 13	ug/l	13	40.5	50	8260B		8/2/2019	CJR	1
Di-isopropyl ether	< 10.5	ug/l	10.5	33	50	8260B		8/2/2019	CJR	1
EDB (1,2-Dibromoethane)	< 17	ug/l	17	54.5	50	8260B		8/2/2019	CJR	1
Ethylbenzene	< 13	ug/l	13	41.5	50	8260B		8/2/2019	CJR	1
Hexachlorobutadiene	< 67	ug/l	67	214	50	8260B		8/2/2019	CJR	1
Isopropylbenzene	< 39	ug/l	39	123.5	50	8260B		8/2/2019	CJR	1
p-Isopropyltoluene	< 12	ug/l	12	38	50	8260B		8/2/2019	CJR	1
Methylene chloride	< 66	ug/l	66	210.5	50	8260B		8/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 14	ug/l	14	44.5	50	8260B		8/2/2019	CJR	1
Naphthalene	< 105	ug/l	105	332.5	50	8260B		8/2/2019	CJR	1
n-Propylbenzene	< 30.5	ug/l	30.5	97.5	50	8260B		8/2/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 15	ug/l	15	48.5	50	8260B		8/2/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 17.5	ug/l	17.5	56.5	50	8260B		8/2/2019	CJR	1
Tetrachloroethene	< 19	ug/l	19	60.5	50	8260B		8/2/2019	CJR	1
Toluene	< 9.5	ug/l	9.5	30	50	8260B		8/2/2019	CJR	1
1,2,4-Trichlorobenzene	< 57.5	ug/l	57.5	183.5	50	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543D
Sample ID MW-5A
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 85.5	ug/l	85.5	271.5	50	8260B		8/2/2019	CJR	1
1,1,1-Trichloroethane	3600	ug/l	16.5	52.5	50	8260B		8/2/2019	CJR	1
1,1,2-Trichloroethane	< 21	ug/l	21	66	50	8260B		8/2/2019	CJR	1
Trichloroethene (TCE)	< 15	ug/l	15	47	50	8260B		8/2/2019	CJR	1
Trichlorofluoromethane	< 17.5	ug/l	17.5	55	50	8260B		8/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 40	ug/l	40	127.5	50	8260B		8/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 31.5	ug/l	31.5	100	50	8260B		8/2/2019	CJR	1
Vinyl Chloride	< 10	ug/l	10	32.5	50	8260B		8/2/2019	CJR	1
m&p-Xylene	< 21.5	ug/l	21.5	69	50	8260B		8/2/2019	CJR	1
o-Xylene	< 14.5	ug/l	14.5	46.5	50	8260B		8/2/2019	CJR	1
SUR - Toluene-d8	95	REC %			50	8260B		8/2/2019	CJR	1
SUR - Dibromofluoromethane	110	REC %			50	8260B		8/2/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			50	8260B		8/2/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			50	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543E
Sample ID MW-6
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	8/1/2019	8/1/2019	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	8/1/2019	8/1/2019	NJC	1
Anthracene	< 0.015	ug/l	0.015	0.0478	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(a)anthracene	< 0.0131	ug/l	0.0131	0.0418	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	8/1/2019	8/1/2019	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	8/1/2019	8/1/2019	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	8/1/2019	8/1/2019	NJC	1
Fluoranthene	0.0103 "J"	ug/l	0.0088	0.0281	1	M8270C	8/1/2019	8/1/2019	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	8/1/2019	8/1/2019	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	8/1/2019	8/1/2019	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	8/1/2019	8/1/2019	NJC	1
2-Methyl naphthalene	0.0209 "J"	ug/l	0.0186	0.059	1	M8270C	8/1/2019	8/1/2019	NJC	1
Naphthalene	< 0.026	ug/l	0.026	0.083	1	M8270C	8/1/2019	8/1/2019	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	8/1/2019	8/1/2019	NJC	1
Pyrene	< 0.0121	ug/l	0.0121	0.0386	1	M8270C	8/1/2019	8/1/2019	NJC	1
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/1/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/1/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/1/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/1/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/1/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/1/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/1/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/1/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/1/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/1/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/1/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/1/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/1/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/1/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/1/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/1/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/1/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/1/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/1/2019	CJR	1
1,1-Dichloroethane	1.55	ug/l	0.36	1.14	1	8260B		8/1/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/1/2019	CJR	1
cis-1,2-Dichloroethene	31.2	ug/l	0.37	1.16	1	8260B		8/1/2019	CJR	1
trans-1,2-Dichloroethene	0.61 "J"	ug/l	0.34	1.07	1	8260B		8/1/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543E
Sample ID MW-6
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/1/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/1/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/1/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/1/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/1/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/1/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/1/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/1/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/1/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/1/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/1/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/1/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/1/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/1/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/1/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/1/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/1/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/1/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/1/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/1/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/1/2019	CJR	1
Trichloroethene (TCE)	0.78 "J"	ug/l	0.3	0.94	1	8260B		8/1/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/1/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/1/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/1/2019	CJR	1
Vinyl Chloride	4.8	ug/l	0.2	0.65	1	8260B		8/1/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/1/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/1/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		8/1/2019	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		8/1/2019	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		8/1/2019	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		8/1/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543F
Sample ID MW-7
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	0.744 "J"	ug/l	0.7	2.33	1	6010B		8/7/2019	ESC	1
Organic										
VOC's										
Benzene	< 2.2	ug/l	2.2	7.1	10	8260B		8/2/2019	CJR	1
Bromobenzene	< 4.4	ug/l	4.4	13.8	10	8260B		8/2/2019	CJR	1
Bromodichloromethane	< 3.3	ug/l	3.3	10.6	10	8260B		8/2/2019	CJR	1
Bromoform	< 4.5	ug/l	4.5	14.4	10	8260B		8/2/2019	CJR	1
tert-Butylbenzene	< 2.5	ug/l	2.5	8	10	8260B		8/2/2019	CJR	1
sec-Butylbenzene	< 7.9	ug/l	7.9	25.3	10	8260B		8/2/2019	CJR	1
n-Butylbenzene	< 7.1	ug/l	7.1	22.5	10	8260B		8/2/2019	CJR	1
Carbon Tetrachloride	< 3.1	ug/l	3.1	9.8	10	8260B		8/2/2019	CJR	1
Chlorobenzene	< 2.6	ug/l	2.6	8.3	10	8260B		8/2/2019	CJR	1
Chloroethane	< 6.1	ug/l	6.1	19.5	10	8260B		8/2/2019	CJR	1
Chloroform	< 2.6	ug/l	2.6	8.2	10	8260B		8/2/2019	CJR	1
Chloromethane	< 5.4	ug/l	5.4	17.2	10	8260B		8/2/2019	CJR	1
2-Chlorotoluene	< 3.1	ug/l	3.1	9.8	10	8260B		8/2/2019	CJR	1
4-Chlorotoluene	< 2.6	ug/l	2.6	8.3	10	8260B		8/2/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 29.6	ug/l	29.6	94.3	10	8260B		8/2/2019	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	6.9	10	8260B		8/2/2019	CJR	1
1,4-Dichlorobenzene	< 7	ug/l	7	22.2	10	8260B		8/2/2019	CJR	1
1,3-Dichlorobenzene	< 8.5	ug/l	8.5	27	10	8260B		8/2/2019	CJR	1
1,2-Dichlorobenzene	< 8.6	ug/l	8.6	27.4	10	8260B		8/2/2019	CJR	1
Dichlorodifluoromethane	< 3.2	ug/l	3.2	10.2	10	8260B		8/2/2019	CJR	1
1,2-Dichloroethane	< 2.5	ug/l	2.5	7.8	10	8260B		8/2/2019	CJR	1
1,1-Dichloroethane	17.5	ug/l	3.6	11.4	10	8260B		8/2/2019	CJR	1
1,1-Dichloroethene	< 4.2	ug/l	4.2	13.4	10	8260B		8/2/2019	CJR	1
cis-1,2-Dichloroethene	350	ug/l	3.7	11.6	10	8260B		8/2/2019	CJR	1
trans-1,2-Dichloroethene	308	ug/l	3.4	10.7	10	8260B		8/2/2019	CJR	1
1,2-Dichloropropane	< 4.4	ug/l	4.4	13.9	10	8260B		8/2/2019	CJR	1
1,3-Dichloropropane	< 3	ug/l	3	9.4	10	8260B		8/2/2019	CJR	1
trans-1,3-Dichloropropene	< 3.2	ug/l	3.2	10.1	10	8260B		8/2/2019	CJR	1
cis-1,3-Dichloropropene	< 2.6	ug/l	2.6	8.1	10	8260B		8/2/2019	CJR	1
Di-isopropyl ether	< 2.1	ug/l	2.1	6.6	10	8260B		8/2/2019	CJR	1
EDB (1,2-Dibromoethane)	< 3.4	ug/l	3.4	10.9	10	8260B		8/2/2019	CJR	1
Ethylbenzene	< 2.6	ug/l	2.6	8.3	10	8260B		8/2/2019	CJR	1
Hexachlorobutadiene	< 13.4	ug/l	13.4	42.8	10	8260B		8/2/2019	CJR	1
Isopropylbenzene	< 7.8	ug/l	7.8	24.7	10	8260B		8/2/2019	CJR	1
p-Isopropyltoluene	< 2.4	ug/l	2.4	7.6	10	8260B		8/2/2019	CJR	1
Methylene chloride	< 13.2	ug/l	13.2	42.1	10	8260B		8/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.8	ug/l	2.8	8.9	10	8260B		8/2/2019	CJR	1
Naphthalene	< 21	ug/l	21	66.5	10	8260B		8/2/2019	CJR	1
n-Propylbenzene	< 6.1	ug/l	6.1	19.5	10	8260B		8/2/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 3	ug/l	3	9.7	10	8260B		8/2/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 3.5	ug/l	3.5	11.3	10	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543F
Sample ID MW-7
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 3.8	ug/l	3.8	12.1	10	8260B		8/2/2019	CJR	1
Toluene	< 1.9	ug/l	1.9	6	10	8260B		8/2/2019	CJR	1
1,2,4-Trichlorobenzene	< 11.5	ug/l	11.5	36.7	10	8260B		8/2/2019	CJR	1
1,2,3-Trichlorobenzene	< 17.1	ug/l	17.1	54.3	10	8260B		8/2/2019	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10.5	10	8260B		8/2/2019	CJR	1
1,1,2-Trichloroethane	< 4.2	ug/l	4.2	13.2	10	8260B		8/2/2019	CJR	1
Trichloroethene (TCE)	< 3	ug/l	3	9.4	10	8260B		8/2/2019	CJR	1
Trichlorofluoromethane	< 3.5	ug/l	3.5	11	10	8260B		8/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 8	ug/l	8	25.5	10	8260B		8/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 6.3	ug/l	6.3	20	10	8260B		8/2/2019	CJR	1
Vinyl Chloride	139	ug/l	2	6.5	10	8260B		8/2/2019	CJR	1
m&p-Xylene	< 4.3	ug/l	4.3	13.8	10	8260B		8/2/2019	CJR	1
o-Xylene	< 2.9	ug/l	2.9	9.3	10	8260B		8/2/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			10	8260B		8/2/2019	CJR	1
SUR - 4-Bromofluorobenzene	90	REC %			10	8260B		8/2/2019	CJR	1
SUR - Dibromofluoromethane	106	REC %			10	8260B		8/2/2019	CJR	1
SUR - Toluene-d8	98	REC %			10	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543G
Sample ID MW-8
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	26.8	ug/l	0.7	2.33	1	6010B		8/7/2019	ESC	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/1/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/1/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/1/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/1/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/1/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/1/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/1/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/1/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/1/2019	CJR	1
Chloroform	0.40 "J"	ug/l	0.26	0.82	1	8260B		8/1/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/1/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/1/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/1/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/1/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/1/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/1/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/1/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/1/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/1/2019	CJR	1
1,1-Dichloroethane	23.4	ug/l	0.36	1.14	1	8260B		8/1/2019	CJR	1
1,1-Dichloroethene	0.56 "J"	ug/l	0.42	1.34	1	8260B		8/1/2019	CJR	1
cis-1,2-Dichloroethene	10.4	ug/l	0.37	1.16	1	8260B		8/1/2019	CJR	1
trans-1,2-Dichloroethene	6.2	ug/l	0.34	1.07	1	8260B		8/1/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/1/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/1/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/1/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/1/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/1/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/1/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/1/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/1/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/1/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/1/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/1/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/1/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/1/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/1/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/1/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/1/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543G
Sample ID MW-8
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/1/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/1/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/1/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/1/2019	CJR	1
1,1,1-Trichloroethane	16.7	ug/l	0.33	1.05	1	8260B		8/1/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/1/2019	CJR	1
Trichloroethene (TCE)	75	ug/l	0.3	0.94	1	8260B		8/1/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/1/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/1/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/1/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/1/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/1/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/1/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	109	REC %			1	8260B		8/1/2019	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1	8260B		8/1/2019	CJR	1
SUR - Dibromofluoromethane	107	REC %			1	8260B		8/1/2019	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		8/1/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543H
Sample ID MW-9
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	6.53	ug/l	0.7	2.33	1	6010B		8/7/2019	ESC	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/2/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/2/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/2/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/2/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/2/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/2/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/2/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/2/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/2/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/2/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/2/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/2/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/2/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/2/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/2/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethane	0.64 "J"	ug/l	0.36	1.14	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/2/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		8/2/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/2/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/2/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/2/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/2/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/2/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/2/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/2/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/2/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/2/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/2/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/2/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/2/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543H
Sample ID MW-9
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/2/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/2/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/2/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/2/2019	CJR	1
1,1,1-Trichloroethane	1.09	ug/l	0.33	1.05	1	8260B		8/2/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/2/2019	CJR	1
Trichloroethene (TCE)	0.68 "J"	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/2/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/2/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/2/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/2/2019	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		8/2/2019	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		8/2/2019	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1	8260B		8/2/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543I
Sample ID MW-10
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/2/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/2/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/2/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/2/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/2/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/2/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/2/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/2/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/2/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/2/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/2/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/2/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/2/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/2/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/2/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/2/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		8/2/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/2/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/2/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/2/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/2/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/2/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/2/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/2/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/2/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/2/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/2/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/2/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/2/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/2/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/2/2019	CJR	1
Toluene	0.20 "J"	ug/l	0.19	0.6	1	8260B		8/2/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543I
Sample ID MW-10
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/2/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/2/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/2/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/2/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/2/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/2/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/2/2019	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		8/2/2019	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		8/2/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		8/2/2019	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543J
Sample ID MW-11
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	0.779 "J"	ug/l	0.7	2.33	1	6010B		8/7/2019	ESC	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/2/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/2/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/2/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/2/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/2/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/2/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/2/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/2/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/2/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/2/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/2/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/2/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/2/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/2/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/2/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/2/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		8/2/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/2/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/2/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/2/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/2/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/2/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/2/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/2/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/2/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/2/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/2/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/2/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/2/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543J
Sample ID MW-11
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/2/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/2/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/2/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/2/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/2/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/2/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/2/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/2/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/2/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/2/2019	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		8/2/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		8/2/2019	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			1	8260B		8/2/2019	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543K
Sample ID MW-12
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/2/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/2/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/2/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/2/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/2/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/2/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/2/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/2/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/2/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/2/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/2/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/2/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/2/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/2/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/2/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/2/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		8/2/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/2/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/2/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/2/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/2/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/2/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/2/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/2/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/2/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/2/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/2/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/2/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/2/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/2/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/2/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/2/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543K
Sample ID MW-12
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/2/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/2/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/2/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/2/2019	CJR	1
Vinyl Chloride	9.8	ug/l	0.2	0.65	1	8260B		8/2/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/2/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/2/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		8/2/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		8/2/2019	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		8/2/2019	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543L
Sample ID MW-13
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/2/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/2/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/2/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/2/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/2/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/2/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/2/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/2/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/2/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/2/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/2/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/2/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/2/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/2/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/2/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethane	0.47 "J"	ug/l	0.36	1.14	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/2/2019	CJR	1
cis-1,2-Dichloroethene	1.48	ug/l	0.37	1.16	1	8260B		8/2/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/2/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/2/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/2/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/2/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/2/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/2/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/2/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/2/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/2/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/2/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/2/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/2/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/2/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/2/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/2/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543L
Sample ID MW-13
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/2/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/2/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/2/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/2/2019	CJR	1
Vinyl Chloride	0.37 "J"	ug/l	0.2	0.65	1	8260B		8/2/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/2/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/2/2019	CJR	1
SUR - 4-Bromofluorobenzene	91	REC %			1	8260B		8/2/2019	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		8/2/2019	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		8/2/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543M
Sample ID MW-14
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	13	ug/l	0.7	2.33	1	6010B		8/7/2019	ESC	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/2/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/2/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/2/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/2/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/2/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/2/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/2/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/2/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/2/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/2/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/2/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/2/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/2/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/2/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/2/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/2/2019	CJR	1
cis-1,2-Dichloroethene	0.85 "J"	ug/l	0.37	1.16	1	8260B		8/2/2019	CJR	1
trans-1,2-Dichloroethene	0.45 "J"	ug/l	0.34	1.07	1	8260B		8/2/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/2/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/2/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/2/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/2/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/2/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/2/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/2/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/2/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/2/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/2/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/2/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543M
Sample ID MW-14
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/2/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/2/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/2/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/2/2019	CJR	1
1,1,1-Trichloroethane	0.55 "J"	ug/l	0.33	1.05	1	8260B		8/2/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/2/2019	CJR	1
Trichloroethene (TCE)	79	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/2/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/2/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/2/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/2/2019	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		8/2/2019	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		8/2/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		8/2/2019	CJR	1
SUR - 4-Bromofluorobenzene	90	REC %			1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543N
Sample ID MW-15
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	92	ug/l	0.7	2.33	1	6010B		8/7/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	8/1/2019	8/1/2019	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	8/1/2019	8/1/2019	NJC	1
Anthracene	< 0.015	ug/l	0.015	0.0478	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(a)anthracene	< 0.0131	ug/l	0.0131	0.0418	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	8/1/2019	8/1/2019	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	8/1/2019	8/1/2019	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	8/1/2019	8/1/2019	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	8/1/2019	8/1/2019	NJC	1
Fluoranthene	< 0.0088	ug/l	0.0088	0.0281	1	M8270C	8/1/2019	8/1/2019	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	8/1/2019	8/1/2019	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	8/1/2019	8/1/2019	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	8/1/2019	8/1/2019	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	8/1/2019	8/1/2019	NJC	1
Naphthalene	< 0.026	ug/l	0.026	0.083	1	M8270C	8/1/2019	8/1/2019	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	8/1/2019	8/1/2019	NJC	1
Pyrene	< 0.0121	ug/l	0.0121	0.0386	1	M8270C	8/1/2019	8/1/2019	NJC	1
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/2/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/2/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/2/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/2/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/2/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/2/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/2/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/2/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/2/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/2/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/2/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/2/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/2/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/2/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/2/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethane	1.39	ug/l	0.36	1.14	1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543N
Sample ID MW-15
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/2/2019	CJR	1
cis-1,2-Dichloroethene	3.6	ug/l	0.37	1.16	1	8260B		8/2/2019	CJR	1
trans-1,2-Dichloroethene	1.71	ug/l	0.34	1.07	1	8260B		8/2/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/2/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/2/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/2/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/2/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/2/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/2/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/2/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/2/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/2/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/2/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/2/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/2/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/2/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/2/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/2/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/2/2019	CJR	1
1,1,1-Trichloroethane	2.03	ug/l	0.33	1.05	1	8260B		8/2/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/2/2019	CJR	1
Trichloroethene (TCE)	78	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/2/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/2/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/2/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/2/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		8/2/2019	CJR	1
SUR - 4-Bromofluorobenzene	90	REC %			1	8260B		8/2/2019	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		8/2/2019	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543O
Sample ID MW-16
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	12.4	ug/l	0.7	2.33	1	6010B		8/7/2019	ESC	1
Organic										
VOC's										
Benzene	< 2.2	ug/l	2.2	7.1	10	8260B		8/2/2019	CJR	1
Bromobenzene	< 4.4	ug/l	4.4	13.8	10	8260B		8/2/2019	CJR	1
Bromodichloromethane	< 3.3	ug/l	3.3	10.6	10	8260B		8/2/2019	CJR	1
Bromoform	< 4.5	ug/l	4.5	14.4	10	8260B		8/2/2019	CJR	1
tert-Butylbenzene	< 2.5	ug/l	2.5	8	10	8260B		8/2/2019	CJR	1
sec-Butylbenzene	< 7.9	ug/l	7.9	25.3	10	8260B		8/2/2019	CJR	1
n-Butylbenzene	< 7.1	ug/l	7.1	22.5	10	8260B		8/2/2019	CJR	1
Carbon Tetrachloride	< 3.1	ug/l	3.1	9.8	10	8260B		8/2/2019	CJR	1
Chlorobenzene	< 2.6	ug/l	2.6	8.3	10	8260B		8/2/2019	CJR	1
Chloroethane	< 6.1	ug/l	6.1	19.5	10	8260B		8/2/2019	CJR	1
Chloroform	< 2.6	ug/l	2.6	8.2	10	8260B		8/2/2019	CJR	1
Chloromethane	< 5.4	ug/l	5.4	17.2	10	8260B		8/2/2019	CJR	1
2-Chlorotoluene	< 3.1	ug/l	3.1	9.8	10	8260B		8/2/2019	CJR	1
4-Chlorotoluene	< 2.6	ug/l	2.6	8.3	10	8260B		8/2/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 29.6	ug/l	29.6	94.3	10	8260B		8/2/2019	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	6.9	10	8260B		8/2/2019	CJR	1
1,4-Dichlorobenzene	< 7	ug/l	7	22.2	10	8260B		8/2/2019	CJR	1
1,3-Dichlorobenzene	< 8.5	ug/l	8.5	27	10	8260B		8/2/2019	CJR	1
1,2-Dichlorobenzene	< 8.6	ug/l	8.6	27.4	10	8260B		8/2/2019	CJR	1
Dichlorodifluoromethane	< 3.2	ug/l	3.2	10.2	10	8260B		8/2/2019	CJR	1
1,2-Dichloroethane	< 2.5	ug/l	2.5	7.8	10	8260B		8/2/2019	CJR	1
1,1-Dichloroethane	9.0 "J"	ug/l	3.6	11.4	10	8260B		8/2/2019	CJR	1
1,1-Dichloroethene	< 4.2	ug/l	4.2	13.4	10	8260B		8/2/2019	CJR	1
cis-1,2-Dichloroethene	13.2	ug/l	3.7	11.6	10	8260B		8/2/2019	CJR	1
trans-1,2-Dichloroethene	< 3.4	ug/l	3.4	10.7	10	8260B		8/2/2019	CJR	1
1,2-Dichloropropane	< 4.4	ug/l	4.4	13.9	10	8260B		8/2/2019	CJR	1
1,3-Dichloropropane	< 3	ug/l	3	9.4	10	8260B		8/2/2019	CJR	1
trans-1,3-Dichloropropene	< 3.2	ug/l	3.2	10.1	10	8260B		8/2/2019	CJR	1
cis-1,3-Dichloropropene	< 2.6	ug/l	2.6	8.1	10	8260B		8/2/2019	CJR	1
Di-isopropyl ether	< 2.1	ug/l	2.1	6.6	10	8260B		8/2/2019	CJR	1
EDB (1,2-Dibromoethane)	< 3.4	ug/l	3.4	10.9	10	8260B		8/2/2019	CJR	1
Ethylbenzene	< 2.6	ug/l	2.6	8.3	10	8260B		8/2/2019	CJR	1
Hexachlorobutadiene	< 13.4	ug/l	13.4	42.8	10	8260B		8/2/2019	CJR	1
Isopropylbenzene	< 7.8	ug/l	7.8	24.7	10	8260B		8/2/2019	CJR	1
p-Isopropyltoluene	< 2.4	ug/l	2.4	7.6	10	8260B		8/2/2019	CJR	1
Methylene chloride	< 13.2	ug/l	13.2	42.1	10	8260B		8/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.8	ug/l	2.8	8.9	10	8260B		8/2/2019	CJR	1
Naphthalene	< 21	ug/l	21	66.5	10	8260B		8/2/2019	CJR	1
n-Propylbenzene	< 6.1	ug/l	6.1	19.5	10	8260B		8/2/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 3	ug/l	3	9.7	10	8260B		8/2/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 3.5	ug/l	3.5	11.3	10	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543O
Sample ID MW-16
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 3.8	ug/l	3.8	12.1	10	8260B		8/2/2019	CJR	1
Toluene	< 1.9	ug/l	1.9	6	10	8260B		8/2/2019	CJR	1
1,2,4-Trichlorobenzene	< 11.5	ug/l	11.5	36.7	10	8260B		8/2/2019	CJR	1
1,2,3-Trichlorobenzene	< 17.1	ug/l	17.1	54.3	10	8260B		8/2/2019	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10.5	10	8260B		8/2/2019	CJR	1
1,1,2-Trichloroethane	< 4.2	ug/l	4.2	13.2	10	8260B		8/2/2019	CJR	1
Trichloroethene (TCE)	4.7 "J"	ug/l	3	9.4	10	8260B		8/2/2019	CJR	1
Trichlorofluoromethane	< 3.5	ug/l	3.5	11	10	8260B		8/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 8	ug/l	8	25.5	10	8260B		8/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 6.3	ug/l	6.3	20	10	8260B		8/2/2019	CJR	1
Vinyl Chloride	14.2	ug/l	2	6.5	10	8260B		8/2/2019	CJR	1
m&p-Xylene	< 4.3	ug/l	4.3	13.8	10	8260B		8/2/2019	CJR	1
o-Xylene	< 2.9	ug/l	2.9	9.3	10	8260B		8/2/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			10	8260B		8/2/2019	CJR	1
SUR - 4-Bromofluorobenzene	90	REC %			10	8260B		8/2/2019	CJR	1
SUR - Dibromofluoromethane	108	REC %			10	8260B		8/2/2019	CJR	1
SUR - Toluene-d8	97	REC %			10	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543P
Sample ID MW-17
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	17.2	ug/l	0.7	2.33	1	6010B		8/7/2019	ESC	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/2/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/2/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/2/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/2/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/2/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/2/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/2/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/2/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/2/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/2/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/2/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/2/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/2/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/2/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/2/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/2/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethane	7.7	ug/l	0.36	1.14	1	8260B		8/2/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/2/2019	CJR	1
cis-1,2-Dichloroethene	6.8	ug/l	0.37	1.16	1	8260B		8/2/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/2/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/2/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/2/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/2/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/2/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/2/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/2/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/2/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/2/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/2/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/2/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/2/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/2/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/2/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543P
Sample ID MW-17
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/2/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/2/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/2/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/2/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/2/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/2/2019	CJR	1
Trichloroethene (TCE)	0.93 "J"	ug/l	0.3	0.94	1	8260B		8/2/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/2/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/2/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/2/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/2/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		8/2/2019	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1	8260B		8/2/2019	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		8/2/2019	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		8/2/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543Q
Sample ID MW-18
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/5/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/5/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/5/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/5/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/5/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/5/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/5/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/5/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/5/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/5/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/5/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/5/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/5/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/5/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/5/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/5/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/5/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/5/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/5/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		8/5/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/5/2019	CJR	1
cis-1,2-Dichloroethene	6.3	ug/l	0.37	1.16	1	8260B		8/5/2019	CJR	1
trans-1,2-Dichloroethene	11.4	ug/l	0.34	1.07	1	8260B		8/5/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/5/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/5/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/5/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/5/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/5/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/5/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/5/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/5/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/5/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/5/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/5/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/5/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/5/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/5/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/5/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/5/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/5/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/5/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543Q
Sample ID MW-18
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/5/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/5/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/5/2019	CJR	1
Trichloroethene (TCE)	11.1	ug/l	0.3	0.94	1	8260B		8/5/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/5/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/5/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/5/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/5/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/5/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/5/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		8/5/2019	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			1	8260B		8/5/2019	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		8/5/2019	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		8/5/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543R
Sample ID MW-20
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	6.58	ug/l	0.7	2.33	1	6010B		8/7/2019	ESC	1
Organic										
VOC's										
Benzene	< 2.2	ug/l	2.2	7.1	10	8260B		8/6/2019	CJR	1
Bromobenzene	< 4.4	ug/l	4.4	13.8	10	8260B		8/6/2019	CJR	1
Bromodichloromethane	< 3.3	ug/l	3.3	10.6	10	8260B		8/6/2019	CJR	1
Bromoform	< 4.5	ug/l	4.5	14.4	10	8260B		8/6/2019	CJR	1
tert-Butylbenzene	< 2.5	ug/l	2.5	8	10	8260B		8/6/2019	CJR	1
sec-Butylbenzene	< 7.9	ug/l	7.9	25.3	10	8260B		8/6/2019	CJR	1
n-Butylbenzene	< 7.1	ug/l	7.1	22.5	10	8260B		8/6/2019	CJR	1
Carbon Tetrachloride	< 3.1	ug/l	3.1	9.8	10	8260B		8/6/2019	CJR	1
Chlorobenzene	< 2.6	ug/l	2.6	8.3	10	8260B		8/6/2019	CJR	1
Chloroethane	< 6.1	ug/l	6.1	19.5	10	8260B		8/6/2019	CJR	1
Chloroform	2.8 "J"	ug/l	2.6	8.2	10	8260B		8/6/2019	CJR	1
Chloromethane	< 5.4	ug/l	5.4	17.2	10	8260B		8/6/2019	CJR	1
2-Chlorotoluene	< 3.1	ug/l	3.1	9.8	10	8260B		8/6/2019	CJR	1
4-Chlorotoluene	< 2.6	ug/l	2.6	8.3	10	8260B		8/6/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 29.6	ug/l	29.6	94.3	10	8260B		8/6/2019	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	6.9	10	8260B		8/6/2019	CJR	1
1,4-Dichlorobenzene	< 7	ug/l	7	22.2	10	8260B		8/6/2019	CJR	1
1,3-Dichlorobenzene	< 8.5	ug/l	8.5	27	10	8260B		8/6/2019	CJR	1
1,2-Dichlorobenzene	< 8.6	ug/l	8.6	27.4	10	8260B		8/6/2019	CJR	1
Dichlorodifluoromethane	< 3.2	ug/l	3.2	10.2	10	8260B		8/6/2019	CJR	1
1,2-Dichloroethane	< 2.5	ug/l	2.5	7.8	10	8260B		8/6/2019	CJR	1
1,1-Dichloroethane	< 3.6	ug/l	3.6	11.4	10	8260B		8/6/2019	CJR	1
1,1-Dichloroethene	< 4.2	ug/l	4.2	13.4	10	8260B		8/6/2019	CJR	1
cis-1,2-Dichloroethene	9 "J"	ug/l	3.7	11.6	10	8260B		8/6/2019	CJR	1
trans-1,2-Dichloroethene	6.9 "J"	ug/l	3.4	10.7	10	8260B		8/6/2019	CJR	1
1,2-Dichloropropane	< 4.4	ug/l	4.4	13.9	10	8260B		8/6/2019	CJR	1
1,3-Dichloropropane	< 3	ug/l	3	9.4	10	8260B		8/6/2019	CJR	1
trans-1,3-Dichloropropene	< 3.2	ug/l	3.2	10.1	10	8260B		8/6/2019	CJR	1
cis-1,3-Dichloropropene	< 2.6	ug/l	2.6	8.1	10	8260B		8/6/2019	CJR	1
Di-isopropyl ether	< 2.1	ug/l	2.1	6.6	10	8260B		8/6/2019	CJR	1
EDB (1,2-Dibromoethane)	< 3.4	ug/l	3.4	10.9	10	8260B		8/6/2019	CJR	1
Ethylbenzene	< 2.6	ug/l	2.6	8.3	10	8260B		8/6/2019	CJR	1
Hexachlorobutadiene	< 13.4	ug/l	13.4	42.8	10	8260B		8/6/2019	CJR	1
Isopropylbenzene	< 7.8	ug/l	7.8	24.7	10	8260B		8/6/2019	CJR	1
p-Isopropyltoluene	< 2.4	ug/l	2.4	7.6	10	8260B		8/6/2019	CJR	1
Methylene chloride	< 13.2	ug/l	13.2	42.1	10	8260B		8/6/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.8	ug/l	2.8	8.9	10	8260B		8/6/2019	CJR	1
Naphthalene	< 21	ug/l	21	66.5	10	8260B		8/6/2019	CJR	1
n-Propylbenzene	< 6.1	ug/l	6.1	19.5	10	8260B		8/6/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 3	ug/l	3	9.7	10	8260B		8/6/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 3.5	ug/l	3.5	11.3	10	8260B		8/6/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543R
Sample ID MW-20
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	4.5 "J"	ug/l	3.8	12.1	10	8260B		8/6/2019	CJR	1
Toluene	< 1.9	ug/l	1.9	6	10	8260B		8/6/2019	CJR	1
1,2,4-Trichlorobenzene	< 11.5	ug/l	11.5	36.7	10	8260B		8/6/2019	CJR	1
1,2,3-Trichlorobenzene	< 17.1	ug/l	17.1	54.3	10	8260B		8/6/2019	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10.5	10	8260B		8/6/2019	CJR	1
1,1,2-Trichloroethane	< 4.2	ug/l	4.2	13.2	10	8260B		8/6/2019	CJR	1
Trichloroethene (TCE)	410	ug/l	3	9.4	10	8260B		8/6/2019	CJR	1
Trichlorofluoromethane	< 3.5	ug/l	3.5	11	10	8260B		8/6/2019	CJR	1
1,2,4-Trimethylbenzene	< 8	ug/l	8	25.5	10	8260B		8/6/2019	CJR	1
1,3,5-Trimethylbenzene	< 6.3	ug/l	6.3	20	10	8260B		8/6/2019	CJR	1
Vinyl Chloride	< 2	ug/l	2	6.5	10	8260B		8/6/2019	CJR	1
m&p-Xylene	< 4.3	ug/l	4.3	13.8	10	8260B		8/6/2019	CJR	1
o-Xylene	< 2.9	ug/l	2.9	9.3	10	8260B		8/6/2019	CJR	1
SUR - Toluene-d8	97	REC %			10	8260B		8/6/2019	CJR	1
SUR - Dibromofluoromethane	108	REC %			10	8260B		8/6/2019	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			10	8260B		8/6/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			10	8260B		8/6/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543S
Sample ID PZ-1
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	0.733 "J"	ug/l	0.7	2.33	1	6010B		8/7/2019	ESC	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/5/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/5/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/5/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/5/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/5/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/5/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/5/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/5/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/5/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/5/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/5/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/5/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/5/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/5/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/5/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/5/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/5/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/5/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/5/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		8/5/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/5/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		8/5/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/5/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/5/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/5/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/5/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/5/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/5/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/5/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/5/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/5/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/5/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/5/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/5/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/5/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/5/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/5/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/5/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543S
Sample ID PZ-1
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/5/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/5/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/5/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/5/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/5/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/5/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		8/5/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/5/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/5/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/5/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/5/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/5/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/5/2019	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		8/5/2019	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			1	8260B		8/5/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		8/5/2019	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		8/5/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543T
Sample ID PZ-2
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/5/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/5/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/5/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/5/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/5/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/5/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/5/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/5/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/5/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/5/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/5/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/5/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/5/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/5/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/5/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/5/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/5/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/5/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/5/2019	CJR	1
1,1-Dichloroethane	0.71 "J"	ug/l	0.36	1.14	1	8260B		8/5/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/5/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		8/5/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/5/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/5/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/5/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/5/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/5/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/5/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/5/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/5/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/5/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/5/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/5/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/5/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/5/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/5/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/5/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/5/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/5/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/5/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/5/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543T
Sample ID PZ-2
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/5/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/5/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/5/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		8/5/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/5/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/5/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/5/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/5/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/5/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/5/2019	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		8/5/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		8/5/2019	CJR	1
SUR - 4-Bromofluorobenzene	89	REC %			1	8260B		8/5/2019	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		8/5/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543U
Sample ID PZ-3
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/6/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/6/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/6/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/6/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/6/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/6/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/6/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/6/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/6/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/6/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/6/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/6/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/6/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/6/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/6/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/6/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/6/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/6/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/6/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/6/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/6/2019	CJR	1
1,1-Dichloroethane	0.79 "J"	ug/l	0.36	1.14	1	8260B		8/6/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/6/2019	CJR	1
cis-1,2-Dichloroethene	1.23	ug/l	0.37	1.16	1	8260B		8/6/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/6/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/6/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/6/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/6/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/6/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/6/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/6/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/6/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/6/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/6/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/6/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/6/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/6/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/6/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/6/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/6/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/6/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/6/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/6/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/6/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543U
Sample ID PZ-3
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/6/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/6/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/6/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		8/6/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/6/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/6/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/6/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/6/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/6/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/6/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		8/6/2019	CJR	1
SUR - 4-Bromofluorobenzene	90	REC %			1	8260B		8/6/2019	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		8/6/2019	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		8/6/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543V
Sample ID PZ-4
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	0.776 "J"	ug/l	0.7	2.33	1	6010B		8/7/2019	ESC	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/6/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/6/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/6/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/6/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/6/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/6/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/6/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/6/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/6/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/6/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/6/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/6/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/6/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/6/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/6/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/6/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/6/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/6/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/6/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/6/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/6/2019	CJR	1
1,1-Dichloroethane	0.46 "J"	ug/l	0.36	1.14	1	8260B		8/6/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/6/2019	CJR	1
cis-1,2-Dichloroethene	4.6	ug/l	0.37	1.16	1	8260B		8/6/2019	CJR	1
trans-1,2-Dichloroethene	0.87 "J"	ug/l	0.34	1.07	1	8260B		8/6/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/6/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/6/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/6/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/6/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/6/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/6/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/6/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/6/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/6/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/6/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/6/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/6/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/6/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/6/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/6/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/6/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543V
Sample ID PZ-4
Sample Matrix Water
Sample Date 7/25/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/6/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/6/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/6/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/6/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/6/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/6/2019	CJR	1
Trichloroethene (TCE)	12.4	ug/l	0.3	0.94	1	8260B		8/6/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/6/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/6/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/6/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/6/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/6/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/6/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B		8/6/2019	CJR	1
SUR - 4-Bromofluorobenzene	91	REC %			1	8260B		8/6/2019	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		8/6/2019	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		8/6/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543W
Sample ID DUP
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 11	ug/l	11	35.5	50	8260B		8/6/2019	CJR	1
Bromobenzene	< 22	ug/l	22	69	50	8260B		8/6/2019	CJR	1
Bromodichloromethane	< 16.5	ug/l	16.5	53	50	8260B		8/6/2019	CJR	1
Bromoform	< 22.5	ug/l	22.5	72	50	8260B		8/6/2019	CJR	1
tert-Butylbenzene	< 12.5	ug/l	12.5	40	50	8260B		8/6/2019	CJR	1
sec-Butylbenzene	< 39.5	ug/l	39.5	126.5	50	8260B		8/6/2019	CJR	1
n-Butylbenzene	< 35.5	ug/l	35.5	112.5	50	8260B		8/6/2019	CJR	1
Carbon Tetrachloride	< 15.5	ug/l	15.5	49	50	8260B		8/6/2019	CJR	1
Chlorobenzene	< 13	ug/l	13	41.5	50	8260B		8/6/2019	CJR	1
Chloroethane	< 30.5	ug/l	30.5	97.5	50	8260B		8/6/2019	CJR	3
Chloroform	< 13	ug/l	13	41	50	8260B		8/6/2019	CJR	1
Chloromethane	< 27	ug/l	27	86	50	8260B		8/6/2019	CJR	1
2-Chlorotoluene	< 15.5	ug/l	15.5	49	50	8260B		8/6/2019	CJR	1
4-Chlorotoluene	< 13	ug/l	13	41.5	50	8260B		8/6/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 148	ug/l	148	471.5	50	8260B		8/6/2019	CJR	1
Dibromochloromethane	< 11	ug/l	11	34.5	50	8260B		8/6/2019	CJR	1
1,4-Dichlorobenzene	< 35	ug/l	35	111	50	8260B		8/6/2019	CJR	1
1,3-Dichlorobenzene	< 42.5	ug/l	42.5	135	50	8260B		8/6/2019	CJR	1
1,2-Dichlorobenzene	< 43	ug/l	43	137	50	8260B		8/6/2019	CJR	1
Dichlorodifluoromethane	< 16	ug/l	16	51	50	8260B		8/6/2019	CJR	1
1,2-Dichloroethane	< 12.5	ug/l	12.5	39	50	8260B		8/6/2019	CJR	1
1,1-Dichloroethane	163	ug/l	18	57	50	8260B		8/6/2019	CJR	1
1,1-Dichloroethene	62 "J"	ug/l	21	67	50	8260B		8/6/2019	CJR	1
cis-1,2-Dichloroethene	< 18.5	ug/l	18.5	58	50	8260B		8/6/2019	CJR	1
trans-1,2-Dichloroethene	< 17	ug/l	17	53.5	50	8260B		8/6/2019	CJR	1
1,2-Dichloropropane	< 22	ug/l	22	69.5	50	8260B		8/6/2019	CJR	1
1,3-Dichloropropane	< 15	ug/l	15	47	50	8260B		8/6/2019	CJR	1
trans-1,3-Dichloropropene	< 16	ug/l	16	50.5	50	8260B		8/6/2019	CJR	1
cis-1,3-Dichloropropene	< 13	ug/l	13	40.5	50	8260B		8/6/2019	CJR	1
Di-isopropyl ether	< 10.5	ug/l	10.5	33	50	8260B		8/6/2019	CJR	1
EDB (1,2-Dibromoethane)	< 17	ug/l	17	54.5	50	8260B		8/6/2019	CJR	1
Ethylbenzene	< 13	ug/l	13	41.5	50	8260B		8/6/2019	CJR	1
Hexachlorobutadiene	< 67	ug/l	67	214	50	8260B		8/6/2019	CJR	1
Isopropylbenzene	< 39	ug/l	39	123.5	50	8260B		8/6/2019	CJR	1
p-Isopropyltoluene	< 12	ug/l	12	38	50	8260B		8/6/2019	CJR	1
Methylene chloride	< 66	ug/l	66	210.5	50	8260B		8/6/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 14	ug/l	14	44.5	50	8260B		8/6/2019	CJR	1
Naphthalene	< 105	ug/l	105	332.5	50	8260B		8/6/2019	CJR	1
n-Propylbenzene	< 30.5	ug/l	30.5	97.5	50	8260B		8/6/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 15	ug/l	15	48.5	50	8260B		8/6/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 17.5	ug/l	17.5	56.5	50	8260B		8/6/2019	CJR	1
Tetrachloroethene	< 19	ug/l	19	60.5	50	8260B		8/6/2019	CJR	1
Toluene	< 9.5	ug/l	9.5	30	50	8260B		8/6/2019	CJR	1
1,2,4-Trichlorobenzene	< 57.5	ug/l	57.5	183.5	50	8260B		8/6/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543W
Sample ID DUP
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 85.5	ug/l	85.5	271.5	50	8260B		8/6/2019	CJR	1
1,1,1-Trichloroethane	4200	ug/l	16.5	52.5	50	8260B		8/6/2019	CJR	1
1,1,2-Trichloroethane	< 21	ug/l	21	66	50	8260B		8/6/2019	CJR	1
Trichloroethene (TCE)	< 15	ug/l	15	47	50	8260B		8/6/2019	CJR	1
Trichlorofluoromethane	< 17.5	ug/l	17.5	55	50	8260B		8/6/2019	CJR	1
1,2,4-Trimethylbenzene	< 40	ug/l	40	127.5	50	8260B		8/6/2019	CJR	1
1,3,5-Trimethylbenzene	< 31.5	ug/l	31.5	100	50	8260B		8/6/2019	CJR	1
Vinyl Chloride	< 10	ug/l	10	32.5	50	8260B		8/6/2019	CJR	1
m&p-Xylene	< 21.5	ug/l	21.5	69	50	8260B		8/6/2019	CJR	1
o-Xylene	< 14.5	ug/l	14.5	46.5	50	8260B		8/6/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			50	8260B		8/6/2019	CJR	1
SUR - 4-Bromofluorobenzene	91	REC %			50	8260B		8/6/2019	CJR	1
SUR - Dibromofluoromethane	108	REC %			50	8260B		8/6/2019	CJR	1
SUR - Toluene-d8	96	REC %			50	8260B		8/6/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543X
Sample ID EQUIP BLK
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/5/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/5/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/5/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/5/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/5/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/5/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/5/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/5/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/5/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/5/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/5/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/5/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/5/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/5/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/5/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/5/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/5/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/5/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/5/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		8/5/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/5/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		8/5/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/5/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/5/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/5/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/5/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/5/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/5/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/5/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/5/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/5/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/5/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/5/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/5/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/5/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/5/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/5/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/5/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/5/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/5/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/5/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543X
Sample ID EQUIP BLK
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/5/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/5/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/5/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		8/5/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/5/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/5/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/5/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/5/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/5/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/5/2019	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		8/5/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		8/5/2019	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			1	8260B		8/5/2019	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		8/5/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543Y
Sample ID TRIP BLK
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/5/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/5/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/5/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/5/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/5/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/5/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/5/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/5/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/5/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/5/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/5/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/5/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/5/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/5/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/5/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/5/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/5/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/5/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/5/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		8/5/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/5/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		8/5/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/5/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/5/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/5/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/5/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/5/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/5/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/5/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/5/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/5/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/5/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/5/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/5/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/5/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/5/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/5/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/5/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/5/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/5/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/5/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/5/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36543
Project # 12884

Lab Code 5036543Y
Sample ID TRIP BLK
Sample Matrix Water
Sample Date 7/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/5/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/5/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/5/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		8/5/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/5/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/5/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/5/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/5/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/5/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/5/2019	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		8/5/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		8/5/2019	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %			1	8260B		8/5/2019	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		8/5/2019	CJR	1

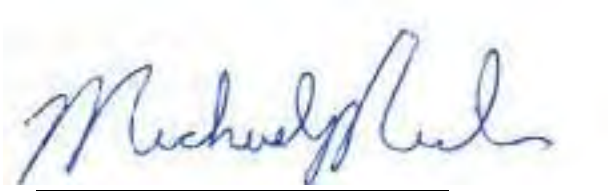
"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.
3	The matrix spike not within established limits.

ESC denotes sub contract lab - Certification #998093910

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # N° 3402

Page 1 of 3

Sample Handling Request
____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
Y Normal Turn Around

Lab I.D. #

Account No. : **Quote No.:**

Project #: 12884

Sampler: (signature)

Project (Name / Location): ACME GALVANIZING Milwaukee, WI

Reports To: Jake Krause	Invoice To:
Company The Sigma Group	Company
Address 1300 West Canal Street	Address
City State Zip Milwaukee, WI 53233	City State Zip
Phone 414-643-4154	Phone
FAX 414-643-4210	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
S036543 A	MW-1A	7/26/19	10:20			Y	5	GW	HCL/HNO3
B	MW-2A	7/26/19	12:50			Y	4	GW	HCL/HNO3
C	MW-4A	7/26/19	11:00			N	3	GW	HCL
D	MW-5A	7/26/19	11:20			N	3	GW	HCL
E	MW-6	7/25/19	12:45			N	4	GW	HCL
F	MW-7	7/25/19	9:20			Y	4	GW	HCL/HNO3
G	MW-8	7/25/19	12:15			Y	4	GW	HCL/HNO3
H	MW-9	7/25/19	13:25			Y	4	GW	HCL/HNO3
I	MW-10	7/25/19	8:10			N	3	GW	HCL
J	MW-11	7/26/19	9:40			Y	4	GW	HCL/HNO3

Analysis Requested / **Other Analysis**

Lab I.D.	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	DISSOLVED CADMIUM	PID/FID
A						X							X		X	
B													X		X	
C													X		X	
D													X			
E						X							X			
F													X		X	
G													X		X	
H													X		X	
I													X			
J													X		X	

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.

Method of Shipment: GC

Temp. of Temp. Blank ___ °C On Ice: X

Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	14:25	7/26/19			

Received in Laboratory By: Time: 10:00 Date: 7/27/19

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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920-830-2455 • FAX 920-733-0631

Chain # No 3453

Page 2 of 3

Sample Handling Request
____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : | **Quote No.:**

Project #: 12884

Sampler: (signature)

Project (Name / Location): ACME GALVANIZING Milwaukee, WI

Reports To: Jake Krause	Invoice To:
Company The Sigma Group	Company
Address 1300 West Canal Street	Address
City State Zip Milwaukee, WI 53233	City State Zip
Phone 414-643-4157	Phone
FAX 414-643-4210	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	DISSOLVED CADMIUM								PID/ FID
503643K	MW-12	7/24/19	8:50			N	3	GW	HCL													X										
L	MW-13	7/26/19	8:10			N	3	GW	HCL													X										
M	MW-14	7/25/19	11:40			Y	4	GW	HCL/HNO3													X										
N	MW-15	7/25/19	10:15			Y	7	GW	HCL/HNO3						X							X		X								
O	MW-16	7/25/19	9:40			Y	4	GW	HCL/HNO3													X		X								
P	MW-17	7/25/19	8:50			Y	4	GW	HCL/HNO3													X		X								
Q	MW-18	7/26/19	13:20			N	3	GW	HCL													X		X								
R	MW-20	7/26/19	14:00			Y	4	GW	HCL/HNO3													X		X								
S	PZ-1	7/26/19	11:45			Y	4	GW	HCL/HNO3													X		X								
T	PZ-2	7/26/19	12:15			N	3	GW	HCL													X		X								

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.

Method of Shipment:

Temp. of Temp. Blank ____ °C On Ice: X

Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	14:25	7/26/19			

Received in Laboratory By: Time: 10:00 Date: 7/27/19

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 3657

Page 3 of 3

Sample Handling Request
____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : **Quote No.:**

Project #: 12884

Sampler: (signature)

Project (Name / Location): ACME GALVANIZING Milwaukee, WI

Reports To: Jake Krause	Invoice To:
Company The Sigma Group	Company
Address 1300 West Canal Street	Address
City State Zip Milwaukee, WI 53233	City State Zip
Phone 414-643-4154	Phone
FAX 414-643-4210	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
503654U	PZ-3	7/25/19	14:15			N	3	GW	HCL
V	PZ-4	7/25/19	11:00			Y	4	GW	HCL/HNO3
W	DUPLICATE	7/26/19	—			N	3	GW	HCL
X	EQUIP. BLK.	7/26/19	—			N	2	—	HCL
Y	TRIP BLK.	—	—			N	1	—	HCL

Analysis Requested / **Other Analysis**

Lab I.D.	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	DISSOLVED CADMIUM	PID/FID
503654U													X			
V													X		X	
W													X			
X													X			
Y													X			

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.

Method of Shipment: GC

Temp. of Temp. Blank ____ °C On Ice: X

Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	14:25	7/26/19			

Received in Laboratory By: Time: 10:00 Date: 7/27/19

Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JAKE KRAUSE
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE. WI 53233

Report Date *29-Aug-19*

Project Name ACME GALVANIZING **Invoice #** E36672
Project # 12884

Lab Code 5036672A
Sample ID MW-22
Sample Matrix Water
Sample Date 8/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	< 0.4	ug/L	0.4	1.3	1	200.7		8/27/2019	CWT	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/27/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/27/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/27/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/27/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/27/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/27/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/27/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/27/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/27/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/27/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/27/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/27/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/27/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/27/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/27/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/27/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/27/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/27/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/27/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/27/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/27/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		8/27/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36672
Project # 12884

Lab Code 5036672A
Sample ID MW-22
Sample Matrix Water
Sample Date 8/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/27/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		8/27/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/27/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/27/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/27/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/27/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/27/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/27/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/27/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/27/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/27/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/27/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/27/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/27/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/27/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/27/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/27/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/27/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/27/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/27/2019	CJR	1
Toluene	0.22 "J"	ug/l	0.19	0.6	1	8260B		8/27/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/27/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/27/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/27/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/27/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		8/27/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/27/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/27/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/27/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/27/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/27/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/27/2019	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		8/27/2019	CJR	1
SUR - Dibromofluoromethane	108	REC %			1	8260B		8/27/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		8/27/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		8/27/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36672
Project # 12884

Lab Code 5036672B
Sample ID PZ-5
Sample Matrix Water
Sample Date 8/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	< 0.4	ug/L	0.4	1.3	1	200.7		8/27/2019	CWT	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/27/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/27/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/27/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/27/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/27/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/27/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/27/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/27/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/27/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/27/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/27/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/27/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/27/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/27/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/27/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/27/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/27/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/27/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/27/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/27/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/27/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		8/27/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/27/2019	CJR	1
cis-1,2-Dichloroethene	2.22	ug/l	0.37	1.16	1	8260B		8/27/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/27/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/27/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/27/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/27/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/27/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/27/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/27/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/27/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/27/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/27/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/27/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/27/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/27/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/27/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/27/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/27/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/27/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36672
Project # 12884

Lab Code 5036672B
Sample ID PZ-5
Sample Matrix Water
Sample Date 8/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/27/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/27/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/27/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/27/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/27/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/27/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		8/27/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/27/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/27/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/27/2019	CJR	1
Vinyl Chloride	3.8	ug/l	0.2	0.65	1	8260B		8/27/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/27/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/27/2019	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		8/27/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		8/27/2019	CJR	1
SUR - Dibromofluoromethane	107	REC %			1	8260B		8/27/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		8/27/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36672
Project # 12884

Lab Code 5036672C
Sample ID EQUIP BLK
Sample Matrix Water
Sample Date 8/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/26/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/26/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/26/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/26/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/26/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/26/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/26/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/26/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/26/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/26/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/26/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/26/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/26/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/26/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/26/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/26/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/26/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/26/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/26/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/26/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/26/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		8/26/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/26/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		8/26/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/26/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/26/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/26/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/26/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/26/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/26/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/26/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/26/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/26/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/26/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/26/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/26/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/26/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/26/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/26/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/26/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/26/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/26/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/26/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/26/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36672
Project # 12884

Lab Code 5036672C
Sample ID EQUIP BLK
Sample Matrix Water
Sample Date 8/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/26/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/26/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/26/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		8/26/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/26/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/26/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/26/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/26/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/26/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/26/2019	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		8/26/2019	CJR	1
SUR - Dibromofluoromethane	110	REC %			1	8260B		8/26/2019	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		8/26/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		8/26/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36672
Project # 12884

Lab Code 5036672D
Sample ID TRIP BLK
Sample Matrix Water
Sample Date 8/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		8/26/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		8/26/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		8/26/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		8/26/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		8/26/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		8/26/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		8/26/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		8/26/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/26/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		8/26/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		8/26/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		8/26/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		8/26/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		8/26/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		8/26/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		8/26/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		8/26/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		8/26/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		8/26/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		8/26/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		8/26/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		8/26/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		8/26/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		8/26/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		8/26/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		8/26/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		8/26/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		8/26/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		8/26/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		8/26/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/26/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		8/26/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		8/26/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		8/26/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		8/26/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		8/26/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		8/26/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		8/26/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		8/26/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		8/26/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		8/26/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		8/26/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		8/26/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		8/26/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36672
Project # 12884

Lab Code 5036672D
Sample ID TRIP BLK
Sample Matrix Water
Sample Date 8/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		8/26/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		8/26/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		8/26/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		8/26/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		8/26/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		8/26/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		8/26/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		8/26/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		8/26/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		8/26/2019	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		8/26/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		8/26/2019	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		8/26/2019	CJR	1
SUR - Dibromofluoromethane	109	REC %			1	8260B		8/26/2019	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CHAIN OF JSTODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # Nº 35[illegible]6

Page 1 of 1

Sample Handling Request

____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : **Quote No.:**

Project #: 12884

Sampler: (signature) [signature]

Project (Name / Location): ACME Galvanizing Milwaukee, WI

Reports To: Jake Krause	Invoice To:
Company The Sigma Group	Company
Address 1300 West Canal Street	Address
City State Zip Milwaukee, WI 53233	City State Zip
Phone 414-643-4154	Phone
FAX 414-643-4210	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	D/Dissolved chromium							PID/ FID
503667 2A	MW-22	8/22/19	7:55			Y	4	GW	HCL/HNO3													X		X							
B	PZ-5	8/22/19	8:30			Y	4	GW	HCL/HNO3													X		X							
C	Equip. Blk.	8/22/19	—			N	2	—	HCL													X									
D	Trip Blk.	—	—			N	1	—	HCL													X									

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.

Method of Shipment: GC

Temp. of Temp. Blank ___ °C On Ice: X

Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
[signature]	9:05	8/22/19			

Received in Laboratory By: [signature] Time: 8:00 Date: 8/23/19

Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JAKE KRAUSE
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE. WI 53233

Report Date *06-Sep-19*

Project Name ACME GALVANIZING **Invoice #** E36721
Project # 12884

Lab Code 5036721A
Sample ID MW-22
Sample Matrix Water
Sample Date 9/3/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		9/4/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		9/4/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		9/4/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		9/4/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		9/4/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		9/4/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		9/4/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		9/4/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		9/4/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		9/4/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		9/4/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		9/4/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		9/4/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		9/4/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		9/4/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		9/4/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		9/4/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		9/4/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		9/4/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		9/4/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		9/4/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		9/4/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		9/4/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		9/4/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		9/4/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36721
Project # 12884

Lab Code 5036721A
Sample ID MW-22
Sample Matrix Water
Sample Date 9/3/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		9/4/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		9/4/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		9/4/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		9/4/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		9/4/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		9/4/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		9/4/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		9/4/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		9/4/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		9/4/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		9/4/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		9/4/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		9/4/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		9/4/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		9/4/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		9/4/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		9/4/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		9/4/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		9/4/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		9/4/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		9/4/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		9/4/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		9/4/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		9/4/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		9/4/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		9/4/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		9/4/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		9/4/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		9/4/2019	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		9/4/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		9/4/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		9/4/2019	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		9/4/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36721
Project # 12884

Lab Code 5036721B
Sample ID PZ-5
Sample Matrix Water
Sample Date 9/3/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		9/4/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		9/4/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		9/4/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		9/4/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		9/4/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		9/4/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		9/4/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		9/4/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		9/4/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		9/4/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		9/4/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		9/4/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		9/4/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		9/4/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		9/4/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		9/4/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		9/4/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		9/4/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		9/4/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		9/4/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		9/4/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		9/4/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		9/4/2019	CJR	1
cis-1,2-Dichloroethene	2.2	ug/l	0.37	1.16	1	8260B		9/4/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		9/4/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		9/4/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		9/4/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		9/4/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		9/4/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		9/4/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		9/4/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		9/4/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		9/4/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		9/4/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		9/4/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		9/4/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		9/4/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		9/4/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		9/4/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		9/4/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		9/4/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		9/4/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		9/4/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		9/4/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36721
Project # 12884

Lab Code 5036721B
Sample ID PZ-5
Sample Matrix Water
Sample Date 9/3/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		9/4/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		9/4/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		9/4/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		9/4/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		9/4/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		9/4/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		9/4/2019	CJR	1
Vinyl Chloride	4.1	ug/l	0.2	0.65	1	8260B		9/4/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		9/4/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		9/4/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		9/4/2019	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		9/4/2019	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		9/4/2019	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		9/4/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36721
Project # 12884

Lab Code 5036721C
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 9/3/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		9/4/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		9/4/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		9/4/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		9/4/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		9/4/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		9/4/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		9/4/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		9/4/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		9/4/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		9/4/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		9/4/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		9/4/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		9/4/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		9/4/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		9/4/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		9/4/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		9/4/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		9/4/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		9/4/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		9/4/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		9/4/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		9/4/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		9/4/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		9/4/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		9/4/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		9/4/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		9/4/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		9/4/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		9/4/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		9/4/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		9/4/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		9/4/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		9/4/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		9/4/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		9/4/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		9/4/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		9/4/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		9/4/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		9/4/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		9/4/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		9/4/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		9/4/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		9/4/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		9/4/2019	CJR	1

Project Name ACME GALVANIZING **Invoice #** E36721
Project # 12884

Lab Code 5036721C
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 9/3/2019

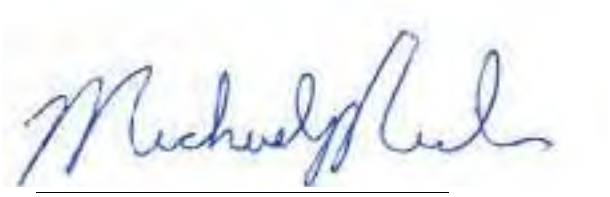
	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		9/4/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		9/4/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		9/4/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		9/4/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		9/4/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		9/4/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		9/4/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		9/4/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		9/4/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		9/4/2019	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		9/4/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		9/4/2019	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		9/4/2019	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		9/4/2019	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 3609

Page 1 of 1

Sample Handling Request
____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #	
Account No. :	Quote No.:
Project #: 128814	
Sampler: (signature)	
Project (Name / Location): ACME Galvanizing	Milwaukee, WI
Reports To: Jake Krause	Invoice To:
Company The Signa Group	Company
Address 1300 West Canal Street	Address
City State Zip Milwaukee WI 53233	City State Zip
Phone 414-643-4154	Phone
FAX 414-643-4210	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
503674-A	MW-22	9/3/19	10:20			N	3	GW	HCL
B	PZ-5	9/3/19	10:45			N	3	GW	HCL
C	TRIP BLANK	—	—			N	1	—	HCL

Analysis Requested / **Other Analysis**

DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
												X		
												X		
												X		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Gc
Temp. of Temp. Blank ____ °C On Ice: X
Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	12:20	9/3/19			

Received in Laboratory By: Time: 8:00 Date: 9/4/19

Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JAKE KRAUSE
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE. WI 53233

Report Date *14-Feb-20*

Project Name ACME GALVANIZING **Invoice #** E37455
Project # 12884

Lab Code 5037455A
Sample ID MW-21
Sample Matrix Water
Sample Date 1/31/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	< 0.4	ug/L	0.4	1.3	1	200.7		2/12/2020	CWT	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/5/2020	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/5/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/5/2020	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/5/2020	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/5/2020	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/5/2020	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/5/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2020	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2020	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/5/2020	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/5/2020	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2020	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/5/2020	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/5/2020	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/5/2020	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/5/2020	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/5/2020	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/5/2020	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/5/2020	CJR	1
1,1-Dichloroethane	0.96 "J"	ug/l	0.36	1.14	1	8260B		2/5/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37455
Project # 12884

Lab Code 5037455A
Sample ID MW-21
Sample Matrix Water
Sample Date 1/31/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/5/2020	CJR	1
cis-1,2-Dichloroethene	12.2	ug/l	0.37	1.16	1	8260B		2/5/2020	CJR	1
trans-1,2-Dichloroethene	1.44	ug/l	0.34	1.07	1	8260B		2/5/2020	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/5/2020	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2020	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/5/2020	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/5/2020	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/5/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/5/2020	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/5/2020	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/5/2020	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/5/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/5/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/5/2020	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/5/2020	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/5/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/5/2020	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/5/2020	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/5/2020	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/5/2020	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/5/2020	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/5/2020	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/5/2020	CJR	1
Trichloroethene (TCE)	0.77 "J"	ug/l	0.3	0.94	1	8260B		2/5/2020	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/5/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/5/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/5/2020	CJR	1
Vinyl Chloride	1.49	ug/l	0.2	0.65	1	8260B		2/5/2020	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/5/2020	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/5/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		2/5/2020	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		2/5/2020	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		2/5/2020	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		2/5/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37455
Project # 12884

Lab Code 5037455B
Sample ID MW-22
Sample Matrix Water
Sample Date 1/31/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	< 0.4	ug/L	0.4	1.3	1	200.7		2/12/2020	CWT	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/5/2020	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/5/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/5/2020	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/5/2020	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/5/2020	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/5/2020	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/5/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2020	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2020	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/5/2020	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/5/2020	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2020	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/5/2020	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/5/2020	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/5/2020	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/5/2020	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/5/2020	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/5/2020	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/5/2020	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/5/2020	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/5/2020	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/5/2020	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/5/2020	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/5/2020	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2020	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/5/2020	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/5/2020	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/5/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/5/2020	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/5/2020	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/5/2020	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/5/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/5/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/5/2020	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/5/2020	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/5/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/5/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37455
Project # 12884

Lab Code 5037455B
Sample ID MW-22
Sample Matrix Water
Sample Date 1/31/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/5/2020	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/5/2020	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/5/2020	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/5/2020	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/5/2020	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/5/2020	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2020	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/5/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/5/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/5/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/5/2020	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/5/2020	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/5/2020	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		2/5/2020	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		2/5/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		2/5/2020	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		2/5/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37455
Project # 12884

Lab Code 5037455C
Sample ID PZ-5
Sample Matrix Water
Sample Date 1/31/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	< 0.4	ug/L	0.4	1.3	1	200.7		2/12/2020	CWT	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/5/2020	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/5/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/5/2020	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/5/2020	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/5/2020	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/5/2020	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/5/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2020	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2020	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/5/2020	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/5/2020	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2020	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/5/2020	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/5/2020	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/5/2020	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/5/2020	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/5/2020	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/5/2020	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/5/2020	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/5/2020	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/5/2020	CJR	1
cis-1,2-Dichloroethene	1.62	ug/l	0.37	1.16	1	8260B		2/5/2020	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/5/2020	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/5/2020	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2020	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/5/2020	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/5/2020	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/5/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/5/2020	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/5/2020	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/5/2020	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/5/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/5/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/5/2020	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/5/2020	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/5/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/5/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37455
Project # 12884

Lab Code 5037455C
Sample ID PZ-5
Sample Matrix Water
Sample Date 1/31/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/5/2020	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/5/2020	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/5/2020	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/5/2020	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/5/2020	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/5/2020	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2020	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/5/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/5/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/5/2020	CJR	1
Vinyl Chloride	1.45	ug/l	0.2	0.65	1	8260B		2/5/2020	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/5/2020	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/5/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		2/5/2020	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		2/5/2020	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		2/5/2020	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		2/5/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37455
Project # 12884

Lab Code 5037455D
Sample ID PZ-6
Sample Matrix Water
Sample Date 1/31/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	< 0.4	ug/L	0.4	1.3	1	200.7		2/12/2020	CWT	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/5/2020	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/5/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/5/2020	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/5/2020	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/5/2020	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/5/2020	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/5/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2020	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2020	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/5/2020	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/5/2020	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2020	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/5/2020	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/5/2020	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/5/2020	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/5/2020	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/5/2020	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/5/2020	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/5/2020	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/5/2020	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/5/2020	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/5/2020	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/5/2020	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/5/2020	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2020	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/5/2020	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/5/2020	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/5/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/5/2020	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/5/2020	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/5/2020	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/5/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/5/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/5/2020	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/5/2020	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/5/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/5/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37455
Project # 12884

Lab Code 5037455D
Sample ID PZ-6
Sample Matrix Water
Sample Date 1/31/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/5/2020	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/5/2020	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/5/2020	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/5/2020	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/5/2020	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/5/2020	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2020	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/5/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/5/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/5/2020	CJR	1
Vinyl Chloride	3.1	ug/l	0.2	0.65	1	8260B		2/5/2020	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/5/2020	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/5/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		2/5/2020	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		2/5/2020	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		2/5/2020	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		2/5/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37455
Project # 12884

Lab Code 5037455E
Sample ID DUPLICATE
Sample Matrix Water
Sample Date 1/31/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/5/2020	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/5/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/5/2020	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/5/2020	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/5/2020	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/5/2020	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/5/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2020	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2020	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/5/2020	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/5/2020	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2020	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/5/2020	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/5/2020	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/5/2020	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/5/2020	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/5/2020	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/5/2020	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/5/2020	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/5/2020	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/5/2020	CJR	1
cis-1,2-Dichloroethene	1.95	ug/l	0.37	1.16	1	8260B		2/5/2020	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/5/2020	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/5/2020	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2020	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/5/2020	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/5/2020	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/5/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/5/2020	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/5/2020	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/5/2020	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/5/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/5/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/5/2020	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/5/2020	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/5/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/5/2020	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/5/2020	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/5/2020	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/5/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37455
Project # 12884

Lab Code 5037455E
Sample ID DUPLICATE
Sample Matrix Water
Sample Date 1/31/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/5/2020	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/5/2020	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/5/2020	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2020	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/5/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/5/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/5/2020	CJR	1
Vinyl Chloride	1.5	ug/l	0.2	0.65	1	8260B		2/5/2020	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/5/2020	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/5/2020	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		2/5/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		2/5/2020	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		2/5/2020	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		2/5/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37455
Project # 12884

Lab Code 5037455F
Sample ID EQUIP BLK
Sample Matrix Water
Sample Date 1/31/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/5/2020	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/5/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/5/2020	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/5/2020	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/5/2020	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/5/2020	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/5/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2020	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2020	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/5/2020	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/5/2020	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2020	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/5/2020	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/5/2020	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/5/2020	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/5/2020	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/5/2020	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/5/2020	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/5/2020	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/5/2020	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/5/2020	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/5/2020	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/5/2020	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/5/2020	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2020	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/5/2020	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/5/2020	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/5/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/5/2020	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/5/2020	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/5/2020	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/5/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/5/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/5/2020	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/5/2020	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/5/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/5/2020	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/5/2020	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/5/2020	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/5/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37455
Project # 12884

Lab Code 5037455F
Sample ID EQUIP BLK
Sample Matrix Water
Sample Date 1/31/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/5/2020	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/5/2020	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/5/2020	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2020	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/5/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/5/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/5/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/5/2020	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/5/2020	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/5/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		2/5/2020	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		2/5/2020	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		2/5/2020	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		2/5/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37455
Project # 12884

Lab Code 5037455G
Sample ID TRIP BLK
Sample Matrix Water
Sample Date 1/31/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/5/2020	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/5/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/5/2020	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/5/2020	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/5/2020	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/5/2020	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/5/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2020	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2020	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/5/2020	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/5/2020	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2020	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/5/2020	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/5/2020	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/5/2020	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/5/2020	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/5/2020	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/5/2020	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/5/2020	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/5/2020	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/5/2020	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/5/2020	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/5/2020	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/5/2020	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2020	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/5/2020	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/5/2020	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/5/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/5/2020	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2020	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/5/2020	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/5/2020	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/5/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/5/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/5/2020	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/5/2020	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/5/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/5/2020	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/5/2020	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/5/2020	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/5/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37455
Project # 12884

Lab Code 5037455G
Sample ID TRIP BLK
Sample Matrix Water
Sample Date 1/31/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/5/2020	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/5/2020	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/5/2020	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2020	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/5/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/5/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/5/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/5/2020	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/5/2020	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/5/2020	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		2/5/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		2/5/2020	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		2/5/2020	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		2/5/2020	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CHAIN OF STODY RECORD

Synergy Environmental Lab, Inc.

www.synergy-lab.net
1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • mrsynergy@wi.twcbc.com

Chain # No 40973
Page 1 of 1

Sample Handling Request
___ Rush Analysis Date Required: ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #
QUOTE # :
Project #: 12884
Sampler: (signature)

Project (Name / Location): ACME Galvanizing Milwaukee, WI

Reports To: Jake Krause	Invoice To:
Company The Sigma Group	Company
Address 1300 West Canal Street	Address
City State Zip Milwaukee, WI 53233	City State Zip
Phone 414-643-4154	Phone
Email 414-643-4210	Email

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-RCRA METALS Dissolved Cadmium							PID/ FID
5037520 A	MW-21	2/19/20	10:45	Y	4	GW	HCL/HNO3													X		X							
B	MW-22	2/19/20	11:45	Y	4	GW	HCL/HNO3													X		X							
C	MW-23	2/20/20	10:40	Y	4	GW	HCL/HNO3													X		X							
D	PZ-5	2/19/20	11:10	Y	4	GW	HCL/HNO3													X		X							
E	PZ-6	2/19/20	10:10	Y	4	GW	HCL/HNO3													X		X							
F	Duplicate	2/19/20	—	N	3	GW	HCL													X		X							
G	Equipment Blank	2/19/20	—	N	2	—	HCL													X									
H	Trip Blank	—	—	N	1	—	HCL													X									

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: GC
Temp. of Temp. Blank: ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	10:55	2/20/20			

Received in Laboratory By: Time: 8:00 Date: 2/21/20

Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JAKE KRAUSE
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE. WI 53233

Report Date *26-Feb-20*

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520A
Sample ID MW-21
Sample Matrix Water
Sample Date 2/19/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	< 0.4	ug/L	0.4	1.3	1	200.7		2/25/2020	CWT	1
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		2/21/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		2/21/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		2/21/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/21/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/21/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		2/21/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/21/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		2/21/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		2/21/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		2/21/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		2/21/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		2/21/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		2/21/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/21/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		2/21/2020	CJR	1
1,1-Dichloroethane	0.97 "J"	ug/l	0.46	1.5	1	8260B		2/21/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520A
Sample ID MW-21
Sample Matrix Water
Sample Date 2/19/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		2/21/2020	CJR	1
cis-1,2-Dichloroethene	12.4	ug/l	0.39	1.2	1	8260B		2/21/2020	CJR	1
trans-1,2-Dichloroethene	1.21	ug/l	0.37	1.2	1	8260B		2/21/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		2/21/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		2/21/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		2/21/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		2/21/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		2/21/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		2/21/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/21/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		2/21/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		2/21/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/21/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	2.8	1	8260B		2/21/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/21/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/21/2020	CJR	1
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		2/21/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		2/21/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
Trichloroethene (TCE)	0.66 "J"	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		2/21/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/21/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Vinyl Chloride	1.31	ug/l	0.2	0.65	1	8260B		2/21/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		2/21/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		2/21/2020	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		2/21/2020	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		2/21/2020	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		2/21/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		2/21/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520B
Sample ID MW-22
Sample Matrix Water
Sample Date 2/19/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	< 0.4	ug/L	0.4	1.3	1	200.7		2/25/2020	CWT	1
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		2/21/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		2/21/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		2/21/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/21/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/21/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		2/21/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/21/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		2/21/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		2/21/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		2/21/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		2/21/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		2/21/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		2/21/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/21/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		2/21/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/21/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		2/21/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		2/21/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		2/21/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		2/21/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		2/21/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		2/21/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		2/21/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		2/21/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		2/21/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/21/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		2/21/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		2/21/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/21/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	2.8	1	8260B		2/21/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520B
Sample ID MW-22
Sample Matrix Water
Sample Date 2/19/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/21/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/21/2020	CJR	1
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		2/21/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		2/21/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		2/21/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/21/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/21/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		2/21/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		2/21/2020	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		2/21/2020	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		2/21/2020	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		2/21/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		2/21/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520C
Sample ID MW-23
Sample Matrix Water
Sample Date 2/20/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	< 0.4	ug/L	0.4	1.3	1	200.7		2/25/2020	CWT	1
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		2/25/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		2/25/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		2/25/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		2/25/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		2/25/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/25/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/25/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/25/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		2/25/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/25/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		2/25/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		2/25/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		2/25/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		2/25/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		2/25/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		2/25/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		2/25/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		2/25/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/25/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/25/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		2/25/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/25/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		2/25/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		2/25/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		2/25/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		2/25/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		2/25/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		2/25/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		2/25/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		2/25/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		2/25/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/25/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		2/25/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/25/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		2/25/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/25/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/25/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		2/25/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		2/25/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/25/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	2.8	1	8260B		2/25/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520C
Sample ID MW-23
Sample Matrix Water
Sample Date 2/20/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		2/25/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/25/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/25/2020	CJR	1
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		2/25/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		2/25/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		2/25/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/25/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		2/25/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/25/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/25/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/25/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		2/25/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		2/25/2020	CJR	1
SUR - Dibromofluoromethane	108	REC %			1	8260B		2/25/2020	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		2/25/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	108	REC %			1	8260B		2/25/2020	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		2/25/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520D
Sample ID PZ-5
Sample Matrix Water
Sample Date 2/19/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	< 0.4	ug/L	0.4	1.3	1	200.7		2/25/2020	CWT	1
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		2/21/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		2/21/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		2/21/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/21/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/21/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		2/21/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/21/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		2/21/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		2/21/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		2/21/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		2/21/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		2/21/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		2/21/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/21/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		2/21/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/21/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		2/21/2020	CJR	1
cis-1,2-Dichloroethene	1.95	ug/l	0.39	1.2	1	8260B		2/21/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		2/21/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		2/21/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		2/21/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		2/21/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		2/21/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		2/21/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		2/21/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/21/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		2/21/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		2/21/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/21/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	2.8	1	8260B		2/21/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520D
Sample ID PZ-5
Sample Matrix Water
Sample Date 2/19/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/21/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/21/2020	CJR	1
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		2/21/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		2/21/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		2/21/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/21/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Vinyl Chloride	3.01	ug/l	0.2	0.65	1	8260B		2/21/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		2/21/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		2/21/2020	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		2/21/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		2/21/2020	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		2/21/2020	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		2/21/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520E
Sample ID PZ-6
Sample Matrix Water
Sample Date 2/19/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	< 0.4	ug/L	0.4	1.3	1	200.7		2/25/2020	CWT	1
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		2/22/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		2/22/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		2/22/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		2/22/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		2/22/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/22/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/22/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/22/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		2/22/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/22/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		2/22/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		2/22/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		2/22/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		2/22/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		2/22/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		2/22/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		2/22/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		2/22/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/22/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/22/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		2/22/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/22/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		2/22/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		2/22/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		2/22/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		2/22/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		2/22/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		2/22/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		2/22/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		2/22/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		2/22/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/22/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		2/22/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/22/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		2/22/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/22/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/22/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		2/22/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		2/22/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/22/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	2.8	1	8260B		2/22/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520E
Sample ID PZ-6
Sample Matrix Water
Sample Date 2/19/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		2/22/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/22/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/22/2020	CJR	1
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		2/22/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		2/22/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		2/22/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/22/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		2/22/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/22/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/22/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/22/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		2/22/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		2/22/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		2/22/2020	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		2/22/2020	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		2/22/2020	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		2/22/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520F
Sample ID DUPLICATE
Sample Matrix Water
Sample Date 2/19/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		2/22/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		2/22/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		2/22/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		2/22/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		2/22/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/22/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/22/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/22/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		2/22/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/22/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		2/22/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		2/22/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		2/22/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		2/22/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		2/22/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		2/22/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		2/22/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		2/22/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/22/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/22/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		2/22/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/22/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		2/22/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		2/22/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		2/22/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		2/22/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		2/22/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		2/22/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		2/22/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		2/22/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		2/22/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/22/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		2/22/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/22/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		2/22/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/22/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/22/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		2/22/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		2/22/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/22/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	2.8	1	8260B		2/22/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		2/22/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/22/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/22/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520F
Sample ID DUPLICATE
Sample Matrix Water
Sample Date 2/19/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		2/22/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		2/22/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		2/22/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/22/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		2/22/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/22/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/22/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/22/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		2/22/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		2/22/2020	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		2/22/2020	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		2/22/2020	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		2/22/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		2/22/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520G
Sample ID EQUIP BLANK
Sample Matrix Water
Sample Date 2/19/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		2/21/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		2/21/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		2/21/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/21/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/21/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		2/21/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/21/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		2/21/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		2/21/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		2/21/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		2/21/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		2/21/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		2/21/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/21/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		2/21/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/21/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		2/21/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		2/21/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		2/21/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		2/21/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		2/21/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		2/21/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		2/21/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		2/21/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		2/21/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/21/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		2/21/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		2/21/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/21/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	2.8	1	8260B		2/21/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/21/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/21/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520G
Sample ID EQUIP BLANK
Sample Matrix Water
Sample Date 2/19/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		2/21/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		2/21/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		2/21/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/21/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/21/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		2/21/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		2/21/2020	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		2/21/2020	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		2/21/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		2/21/2020	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		2/21/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520H
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 2/19/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		2/21/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		2/21/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		2/21/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/21/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/21/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		2/21/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/21/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		2/21/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		2/21/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		2/21/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		2/21/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		2/21/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		2/21/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/21/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		2/21/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/21/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		2/21/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		2/21/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		2/21/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		2/21/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		2/21/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		2/21/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		2/21/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		2/21/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		2/21/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/21/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		2/21/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		2/21/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/21/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	2.8	1	8260B		2/21/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		2/21/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/21/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/21/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37520
Project # 12884

Lab Code 5037520H
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 2/19/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		2/21/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		2/21/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		2/21/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/21/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		2/21/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/21/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/21/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/21/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		2/21/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		2/21/2020	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		2/21/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	107	REC %			1	8260B		2/21/2020	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		2/21/2020	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		2/21/2020	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CHAIN OF STODY RECORD

Synergy Environmental Lab, Inc.

www.synergy-lab.net
1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • mrsynergy@wi.twcbc.com

Chain # No 40973
Page 1 of 1

Sample Handling Request
___ Rush Analysis Date Required: ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #
QUOTE # :
Project #: 12884
Sampler: (signature)

Project (Name / Location): ACME Galvanizing Milwaukee, WI

Reports To: Jake Krause	Invoice To:
Company The Sigma Group	Company
Address 1300 West Canal Street	Address
City State Zip Milwaukee, WI 53233	City State Zip
Phone 414-643-4154	Phone
Email 414-643-4210	Email

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-RCRA METALS Dissolved Cadmium							PID/ FID
5037520 A	MW-21	2/19/20	10:45	Y	4	GW	HCL/HNO3													X		X							
B	MW-22	2/19/20	11:45	Y	4	GW	HCL/HNO3													X		X							
C	MW-23	2/20/20	10:40	Y	4	GW	HCL/HNO3													X		X							
D	PZ-5	2/19/20	11:10	Y	4	GW	HCL/HNO3													X		X							
E	PZ-6	2/19/20	10:10	Y	4	GW	HCL/HNO3													X		X							
F	Duplicate	2/19/20	—	N	3	GW	HCL													X		X							
G	Equipment Blank	2/19/20	—	N	2	—	HCL													X									
H	Trip Blank	—	—	N	1	—	HCL													X									

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: GC
Temp. of Temp. Blank: ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	10:55	2/20/20			

Received in Laboratory By: Time: 8:00 Date: 2/21/20

Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JAKE KRAUSE
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE. WI 53233

Report Date *24-Apr-20*

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753A
Sample ID MW-6
Sample Matrix Water
Sample Date 4/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		4/14/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		4/14/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		4/14/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		4/14/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		4/14/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/14/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/14/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/14/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		4/14/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/14/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		4/14/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		4/14/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		4/14/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		4/14/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		4/14/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		4/14/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		4/14/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		4/14/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/14/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/14/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		4/14/2020	CJR	1
1,1-Dichloroethane	1.61	ug/l	0.46	1.5	1	8260B		4/14/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		4/14/2020	CJR	1
cis-1,2-Dichloroethene	25	ug/l	0.39	1.2	1	8260B		4/14/2020	CJR	1
trans-1,2-Dichloroethene	0.47 "J"	ug/l	0.37	1.2	1	8260B		4/14/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753A
Sample ID MW-6
Sample Matrix Water
Sample Date 4/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		4/14/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		4/14/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		4/14/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		4/14/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		4/14/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		4/14/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/14/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		4/14/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/14/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		4/14/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/14/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/14/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		4/14/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		4/14/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/14/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		4/14/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		4/14/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/14/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/14/2020	CJR	1
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		4/14/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		4/14/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		4/14/2020	CJR	1
Trichloroethene (TCE)	2.55	ug/l	0.47	1.5	1	8260B		4/14/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		4/14/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.3	0.96	1	8260B		4/14/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/14/2020	CJR	1
Vinyl Chloride	1.24	ug/l	0.2	0.65	1	8260B		4/14/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		4/14/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		4/14/2020	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		4/14/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		4/14/2020	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		4/14/2020	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		4/14/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753B
Sample ID MW-7
Sample Matrix Water
Sample Date 4/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 1.65	ug/l	1.65	5	5	8260B		4/15/2020	CJR	1
Bromobenzene	< 1.3	ug/l	1.3	4.2	5	8260B		4/15/2020	CJR	1
Bromodichloromethane	< 1.65	ug/l	1.65	5	5	8260B		4/15/2020	CJR	1
Bromoform	< 3.25	ug/l	3.25	10.5	5	8260B		4/15/2020	CJR	1
tert-Butylbenzene	< 3.05	ug/l	3.05	9.5	5	8260B		4/15/2020	CJR	1
sec-Butylbenzene	< 1.6	ug/l	1.6	5	5	8260B		4/15/2020	CJR	1
n-Butylbenzene	< 1.4	ug/l	1.4	4.45	5	8260B		4/15/2020	CJR	1
Carbon Tetrachloride	< 1.55	ug/l	1.55	4.9	5	8260B		4/15/2020	CJR	1
Chlorobenzene	< 1.95	ug/l	1.95	6	5	8260B		4/15/2020	CJR	1
Chloroethane	< 5.5	ug/l	5.5	18	5	8260B		4/15/2020	CJR	1
Chloroform	< 2.2	ug/l	2.2	7	5	8260B		4/15/2020	CJR	1
Chloromethane	< 4	ug/l	4	12.5	5	8260B		4/15/2020	CJR	1
2-Chlorotoluene	< 1.6	ug/l	1.6	5	5	8260B		4/15/2020	CJR	1
4-Chlorotoluene	< 1.5	ug/l	1.5	4.8	5	8260B		4/15/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 4.1	ug/l	4.1	13	5	8260B		4/15/2020	CJR	1
Dibromochloromethane	< 1.15	ug/l	1.15	3.7	5	8260B		4/15/2020	CJR	1
1,4-Dichlorobenzene	< 1.8	ug/l	1.8	5.5	5	8260B		4/15/2020	CJR	1
1,3-Dichlorobenzene	< 1.55	ug/l	1.55	4.9	5	8260B		4/15/2020	CJR	1
1,2-Dichlorobenzene	< 1.6	ug/l	1.6	5	5	8260B		4/15/2020	CJR	1
Dichlorodifluoromethane	< 2.25	ug/l	2.25	7	5	8260B		4/15/2020	CJR	1
1,2-Dichloroethane	< 1.95	ug/l	1.95	6.5	5	8260B		4/15/2020	CJR	1
1,1-Dichloroethane	32	ug/l	2.3	7.5	5	8260B		4/15/2020	CJR	1
1,1-Dichloroethene	4.6 "J"	ug/l	2.5	8	5	8260B		4/15/2020	CJR	1
cis-1,2-Dichloroethene	640	ug/l	1.95	6	5	8260B		4/15/2020	CJR	1
trans-1,2-Dichloroethene	620	ug/l	1.85	6	5	8260B		4/15/2020	CJR	1
1,2-Dichloropropane	< 1.9	ug/l	1.9	6	5	8260B		4/15/2020	CJR	1
1,3-Dichloropropane	< 1.75	ug/l	1.75	5.5	5	8260B		4/15/2020	CJR	1
trans-1,3-Dichloropropene	< 1.5	ug/l	1.5	4.7	5	8260B		4/15/2020	CJR	1
cis-1,3-Dichloropropene	< 1.8	ug/l	1.8	5.5	5	8260B		4/15/2020	CJR	1
Di-isopropyl ether	< 1.7	ug/l	1.7	5.5	5	8260B		4/15/2020	CJR	1
EDB (1,2-Dibromoethane)	< 1.2	ug/l	1.2	3.75	5	8260B		4/15/2020	CJR	1
Ethylbenzene	< 1.6	ug/l	1.6	5	5	8260B		4/15/2020	CJR	1
Hexachlorobutadiene	< 3.6	ug/l	3.6	11.5	5	8260B		4/15/2020	CJR	1
Isopropylbenzene	< 1.6	ug/l	1.6	5	5	8260B		4/15/2020	CJR	1
p-Isopropyltoluene	< 2.35	ug/l	2.35	7.5	5	8260B		4/15/2020	CJR	1
Methylene chloride	< 6.6	ug/l	6.6	21.05	5	8260B		4/15/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.35	ug/l	2.35	7.5	5	8260B		4/15/2020	CJR	1
Naphthalene	< 5.5	ug/l	5.5	18	5	8260B		4/15/2020	CJR	1
n-Propylbenzene	< 1.65	ug/l	1.65	5.5	5	8260B		4/15/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 1.85	ug/l	1.85	6	5	8260B		4/15/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 4.4	ug/l	4.4	16.5	5	8260B		4/15/2020	CJR	1
Tetrachloroethene	< 1.65	ug/l	1.65	5	5	8260B		4/15/2020	CJR	1
Toluene	< 1.3	ug/l	1.3	4.15	5	8260B		4/15/2020	CJR	1
1,2,4-Trichlorobenzene	< 2.2	ug/l	2.2	7	5	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753B
Sample ID MW-7
Sample Matrix Water
Sample Date 4/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 5	ug/l	5	16	5	8260B		4/15/2020	CJR	1
1,1,1-Trichloroethane	< 1.5	ug/l	1.5	4.75	5	8260B		4/15/2020	CJR	1
1,1,2-Trichloroethane	< 1.8	ug/l	1.8	5.5	5	8260B		4/15/2020	CJR	1
Trichloroethene (TCE)	23.7	ug/l	2.35	7.5	5	8260B		4/15/2020	CJR	1
Trichlorofluoromethane	< 2.1	ug/l	2.1	6.5	5	8260B		4/15/2020	CJR	1
1,2,4-Trimethylbenzene	1.95 "J"	ug/l	1.5	4.8	5	8260B		4/15/2020	CJR	1
1,3,5-Trimethylbenzene	< 1.6	ug/l	1.6	5	5	8260B		4/15/2020	CJR	1
Vinyl Chloride	91	ug/l	1	3.25	5	8260B		4/15/2020	CJR	1
m&p-Xylene	< 5.5	ug/l	5.5	16.5	5	8260B		4/15/2020	CJR	1
o-Xylene	< 1.9	ug/l	1.9	6	5	8260B		4/15/2020	CJR	1
SUR - Toluene-d8	103	REC %			5	8260B		4/15/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			5	8260B		4/15/2020	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			5	8260B		4/15/2020	CJR	1
SUR - Dibromofluoromethane	114	REC %			5	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753C
Sample ID MW-12
Sample Matrix Water
Sample Date 4/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		4/15/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		4/15/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		4/15/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/15/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/15/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		4/15/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/15/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		4/15/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		4/15/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		4/15/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		4/15/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		4/15/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		4/15/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/15/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		4/15/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/15/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		4/15/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		4/15/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		4/15/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		4/15/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		4/15/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		4/15/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		4/15/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		4/15/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		4/15/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/15/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		4/15/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		4/15/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/15/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		4/15/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/15/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753C
Sample ID MW-12
Sample Matrix Water
Sample Date 4/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		4/15/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		4/15/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		4/15/2020	CJR	1
1,2,4-Trimethylbenzene	0.35 "J"	ug/l	0.3	0.96	1	8260B		4/15/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Vinyl Chloride	9.0	ug/l	0.2	0.65	1	8260B		4/15/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		4/15/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		4/15/2020	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		4/15/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		4/15/2020	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		4/15/2020	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753D
Sample ID MW-15
Sample Matrix Water
Sample Date 4/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	71.5	ug/L	0.4	1.3	1	200.7		4/21/2020	CWT	1
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		4/15/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		4/15/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		4/15/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/15/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/15/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		4/15/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/15/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		4/15/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		4/15/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		4/15/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		4/15/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		4/15/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		4/15/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/15/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		4/15/2020	CJR	1
1,1-Dichloroethane	0.87 "J"	ug/l	0.46	1.5	1	8260B		4/15/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		4/15/2020	CJR	1
cis-1,2-Dichloroethene	3.04	ug/l	0.39	1.2	1	8260B		4/15/2020	CJR	1
trans-1,2-Dichloroethene	1.93	ug/l	0.37	1.2	1	8260B		4/15/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		4/15/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		4/15/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		4/15/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		4/15/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		4/15/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		4/15/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/15/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		4/15/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		4/15/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/15/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753D
Sample ID MW-15
Sample Matrix Water
Sample Date 4/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/15/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/15/2020	CJR	1
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		4/15/2020	CJR	1
1,1,1-Trichloroethane	1.44	ug/l	0.3	0.95	1	8260B		4/15/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
Trichloroethene (TCE)	77	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		4/15/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/15/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		4/15/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		4/15/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		4/15/2020	CJR	1
SUR - Toluene-d8	105	REC %			1	8260B		4/15/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		4/15/2020	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		4/15/2020	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753E
Sample ID MW-16
Sample Matrix Water
Sample Date 4/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	17.1	ug/L	0.4	1.3	1	200.7		4/21/2020	CWT	1
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		4/15/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		4/15/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		4/15/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/15/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/15/2020	CJR	1
Chlorobenzene	0.47 "J"	ug/l	0.39	1.2	1	8260B		4/15/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/15/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		4/15/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		4/15/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		4/15/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		4/15/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		4/15/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		4/15/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/15/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		4/15/2020	CJR	1
1,1-Dichloroethane	4.0	ug/l	0.46	1.5	1	8260B		4/15/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		4/15/2020	CJR	1
cis-1,2-Dichloroethene	7.9	ug/l	0.39	1.2	1	8260B		4/15/2020	CJR	1
trans-1,2-Dichloroethene	1.44	ug/l	0.37	1.2	1	8260B		4/15/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		4/15/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		4/15/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		4/15/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		4/15/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		4/15/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		4/15/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/15/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		4/15/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		4/15/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/15/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753E
Sample ID MW-16
Sample Matrix Water
Sample Date 4/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/15/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/15/2020	CJR	1
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		4/15/2020	CJR	1
1,1,1-Trichloroethane	2.28	ug/l	0.3	0.95	1	8260B		4/15/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
Trichloroethene (TCE)	21.3	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		4/15/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/15/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Vinyl Chloride	5.1	ug/l	0.2	0.65	1	8260B		4/15/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		4/15/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		4/15/2020	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		4/15/2020	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		4/15/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		4/15/2020	CJR	1
SUR - Toluene-d8	105	REC %			1	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753F
Sample ID MW-18
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		4/15/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		4/15/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		4/15/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/15/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/15/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		4/15/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/15/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		4/15/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		4/15/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		4/15/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		4/15/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		4/15/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		4/15/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/15/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		4/15/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/15/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		4/15/2020	CJR	1
cis-1,2-Dichloroethene	1.27	ug/l	0.39	1.2	1	8260B		4/15/2020	CJR	1
trans-1,2-Dichloroethene	1.66	ug/l	0.37	1.2	1	8260B		4/15/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		4/15/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		4/15/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		4/15/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		4/15/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		4/15/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		4/15/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/15/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		4/15/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		4/15/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/15/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		4/15/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/15/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753F
Sample ID MW-18
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		4/15/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		4/15/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
Trichloroethene (TCE)	4.4	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		4/15/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/15/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		4/15/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		4/15/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		4/15/2020	CJR	1
SUR - Dibromofluoromethane	111	REC %			1	8260B		4/15/2020	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		4/15/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		4/15/2020	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753G
Sample ID MW-20
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	4.4	ug/L	0.4	1.3	1	200.7		4/21/2020	CWT	1
Organic										
VOC's										
Benzene	< 1.65	ug/l	1.65	5	5	8260B		4/15/2020	CJR	1
Bromobenzene	< 1.3	ug/l	1.3	4.2	5	8260B		4/15/2020	CJR	1
Bromodichloromethane	< 1.65	ug/l	1.65	5	5	8260B		4/15/2020	CJR	1
Bromoform	< 3.25	ug/l	3.25	10.5	5	8260B		4/15/2020	CJR	1
tert-Butylbenzene	< 3.05	ug/l	3.05	9.5	5	8260B		4/15/2020	CJR	1
sec-Butylbenzene	< 1.6	ug/l	1.6	5	5	8260B		4/15/2020	CJR	1
n-Butylbenzene	< 1.4	ug/l	1.4	4.45	5	8260B		4/15/2020	CJR	1
Carbon Tetrachloride	< 1.55	ug/l	1.55	4.9	5	8260B		4/15/2020	CJR	1
Chlorobenzene	< 1.95	ug/l	1.95	6	5	8260B		4/15/2020	CJR	1
Chloroethane	< 5.5	ug/l	5.5	18	5	8260B		4/15/2020	CJR	1
Chloroform	< 2.2	ug/l	2.2	7	5	8260B		4/15/2020	CJR	1
Chloromethane	< 4	ug/l	4	12.5	5	8260B		4/15/2020	CJR	1
2-Chlorotoluene	< 1.6	ug/l	1.6	5	5	8260B		4/15/2020	CJR	1
4-Chlorotoluene	< 1.5	ug/l	1.5	4.8	5	8260B		4/15/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 4.1	ug/l	4.1	13	5	8260B		4/15/2020	CJR	1
Dibromochloromethane	< 1.15	ug/l	1.15	3.7	5	8260B		4/15/2020	CJR	1
1,4-Dichlorobenzene	< 1.8	ug/l	1.8	5.5	5	8260B		4/15/2020	CJR	1
1,3-Dichlorobenzene	< 1.55	ug/l	1.55	4.9	5	8260B		4/15/2020	CJR	1
1,2-Dichlorobenzene	< 1.6	ug/l	1.6	5	5	8260B		4/15/2020	CJR	1
Dichlorodifluoromethane	< 2.25	ug/l	2.25	7	5	8260B		4/15/2020	CJR	1
1,2-Dichloroethane	< 1.95	ug/l	1.95	6.5	5	8260B		4/15/2020	CJR	1
1,1-Dichloroethane	3.4 "J"	ug/l	2.3	7.5	5	8260B		4/15/2020	CJR	1
1,1-Dichloroethene	4.2 "J"	ug/l	2.5	8	5	8260B		4/15/2020	CJR	1
cis-1,2-Dichloroethene	17.5	ug/l	1.95	6	5	8260B		4/15/2020	CJR	1
trans-1,2-Dichloroethene	21.5	ug/l	1.85	6	5	8260B		4/15/2020	CJR	1
1,2-Dichloropropane	< 1.9	ug/l	1.9	6	5	8260B		4/15/2020	CJR	1
1,3-Dichloropropane	< 1.75	ug/l	1.75	5.5	5	8260B		4/15/2020	CJR	1
trans-1,3-Dichloropropene	< 1.5	ug/l	1.5	4.7	5	8260B		4/15/2020	CJR	1
cis-1,3-Dichloropropene	< 1.8	ug/l	1.8	5.5	5	8260B		4/15/2020	CJR	1
Di-isopropyl ether	< 1.7	ug/l	1.7	5.5	5	8260B		4/15/2020	CJR	1
EDB (1,2-Dibromoethane)	< 1.2	ug/l	1.2	3.75	5	8260B		4/15/2020	CJR	1
Ethylbenzene	< 1.6	ug/l	1.6	5	5	8260B		4/15/2020	CJR	1
Hexachlorobutadiene	< 3.6	ug/l	3.6	11.5	5	8260B		4/15/2020	CJR	1
Isopropylbenzene	< 1.6	ug/l	1.6	5	5	8260B		4/15/2020	CJR	1
p-Isopropyltoluene	< 2.35	ug/l	2.35	7.5	5	8260B		4/15/2020	CJR	1
Methylene chloride	< 6.6	ug/l	6.6	21.05	5	8260B		4/15/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.35	ug/l	2.35	7.5	5	8260B		4/15/2020	CJR	1
Naphthalene	< 5.5	ug/l	5.5	18	5	8260B		4/15/2020	CJR	1
n-Propylbenzene	< 1.65	ug/l	1.65	5.5	5	8260B		4/15/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 1.85	ug/l	1.85	6	5	8260B		4/15/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 4.4	ug/l	4.4	16.5	5	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753G
Sample ID MW-20
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	6.8	ug/l	1.65	5	5	8260B		4/15/2020	CJR	1
Toluene	< 1.3	ug/l	1.3	4.15	5	8260B		4/15/2020	CJR	1
1,2,4-Trichlorobenzene	< 2.2	ug/l	2.2	7	5	8260B		4/15/2020	CJR	1
1,2,3-Trichlorobenzene	< 5	ug/l	5	16	5	8260B		4/15/2020	CJR	1
1,1,1-Trichloroethane	4.8	ug/l	1.5	4.75	5	8260B		4/15/2020	CJR	1
1,1,2-Trichloroethane	< 1.8	ug/l	1.8	5.5	5	8260B		4/15/2020	CJR	1
Trichloroethene (TCE)	920	ug/l	2.35	7.5	5	8260B		4/15/2020	CJR	1
Trichlorofluoromethane	< 2.1	ug/l	2.1	6.5	5	8260B		4/15/2020	CJR	1
1,2,4-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	5	8260B		4/15/2020	CJR	1
1,3,5-Trimethylbenzene	< 1.6	ug/l	1.6	5	5	8260B		4/15/2020	CJR	1
Vinyl Chloride	1.35 "J"	ug/l	1	3.25	5	8260B		4/15/2020	CJR	1
m&p-Xylene	< 5.5	ug/l	5.5	16.5	5	8260B		4/15/2020	CJR	1
o-Xylene	< 1.9	ug/l	1.9	6	5	8260B		4/15/2020	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			5	8260B		4/15/2020	CJR	1
SUR - Dibromofluoromethane	107	REC %			5	8260B		4/15/2020	CJR	1
SUR - Toluene-d8	105	REC %			5	8260B		4/15/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			5	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753H
Sample ID MW-21
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		4/15/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		4/15/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		4/15/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/15/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/15/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		4/15/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/15/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		4/15/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		4/15/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		4/15/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		4/15/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		4/15/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		4/15/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/15/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		4/15/2020	CJR	1
1,1-Dichloroethane	0.97 "J"	ug/l	0.46	1.5	1	8260B		4/15/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		4/15/2020	CJR	1
cis-1,2-Dichloroethene	13.9	ug/l	0.39	1.2	1	8260B		4/15/2020	CJR	1
trans-1,2-Dichloroethene	1.94	ug/l	0.37	1.2	1	8260B		4/15/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		4/15/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		4/15/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		4/15/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		4/15/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		4/15/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		4/15/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/15/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		4/15/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		4/15/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/15/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		4/15/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/15/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753H
Sample ID MW-21
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		4/15/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		4/15/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
Trichloroethene (TCE)	0.97 "J"	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		4/15/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/15/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Vinyl Chloride	1.6	ug/l	0.2	0.65	1	8260B		4/15/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		4/15/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		4/15/2020	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		4/15/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		4/15/2020	CJR	1
SUR - Toluene-d8	105	REC %			1	8260B		4/15/2020	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753I
Sample ID MW-22
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		4/15/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		4/15/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		4/15/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/15/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/15/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		4/15/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/15/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		4/15/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		4/15/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		4/15/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		4/15/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		4/15/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		4/15/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/15/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		4/15/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/15/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		4/15/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		4/15/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		4/15/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		4/15/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		4/15/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		4/15/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		4/15/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		4/15/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		4/15/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/15/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		4/15/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		4/15/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/15/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		4/15/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		4/15/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/15/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753I
Sample ID MW-22
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		4/15/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		4/15/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		4/15/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/15/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		4/15/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/15/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/15/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		4/15/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		4/15/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		4/15/2020	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		4/15/2020	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		4/15/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		4/15/2020	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		4/15/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753J
Sample ID MW-23
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		4/16/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		4/16/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		4/16/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/16/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/16/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		4/16/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/16/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		4/16/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		4/16/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		4/16/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		4/16/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		4/16/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		4/16/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/16/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		4/16/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/16/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		4/16/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		4/16/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		4/16/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		4/16/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		4/16/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		4/16/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		4/16/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		4/16/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		4/16/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/16/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		4/16/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		4/16/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/16/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		4/16/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/16/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/16/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753J
Sample ID MW-23
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		4/16/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		4/16/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		4/16/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/16/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		4/16/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		4/16/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		4/16/2020	CJR	1
SUR - Dibromofluoromethane	123	REC %			1	8260B		4/16/2020	CJR	1
SUR - Toluene-d8	92	REC %			1	8260B		4/16/2020	CJR	1
SUR - 4-Bromofluorobenzene	80	REC %			1	8260B		4/16/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	113	REC %			1	8260B		4/16/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753K
Sample ID PZ-4
Sample Matrix Water
Sample Date 4/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Cadmium, Dissolved	< 0.4	ug/L	0.4	1.3	1	200.7		4/21/2020	CWT	1
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		4/16/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		4/16/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		4/16/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/16/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/16/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		4/16/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/16/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		4/16/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		4/16/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		4/16/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		4/16/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		4/16/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		4/16/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/16/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		4/16/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/16/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		4/16/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		4/16/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		4/16/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		4/16/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		4/16/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		4/16/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		4/16/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		4/16/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		4/16/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/16/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		4/16/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		4/16/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/16/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		4/16/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753K
Sample ID PZ-4
Sample Matrix Water
Sample Date 4/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/16/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/16/2020	CJR	1
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		4/16/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		4/16/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
Trichloroethene (TCE)	0.67 "J"	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		4/16/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/16/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		4/16/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		4/16/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		4/16/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	118	REC %			1	8260B		4/16/2020	CJR	1
SUR - Toluene-d8	92	REC %			1	8260B		4/16/2020	CJR	1
SUR - Dibromofluoromethane	118	REC %			1	8260B		4/16/2020	CJR	1
SUR - 4-Bromofluorobenzene	81	REC %			1	8260B		4/16/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753L
Sample ID PZ-5
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		4/16/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		4/16/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		4/16/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/16/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/16/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		4/16/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/16/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		4/16/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		4/16/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		4/16/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		4/16/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		4/16/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		4/16/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/16/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		4/16/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/16/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		4/16/2020	CJR	1
cis-1,2-Dichloroethene	1.66	ug/l	0.39	1.2	1	8260B		4/16/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		4/16/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		4/16/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		4/16/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		4/16/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		4/16/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		4/16/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		4/16/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/16/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		4/16/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		4/16/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/16/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		4/16/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/16/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/16/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753L
Sample ID PZ-5
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		4/16/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		4/16/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		4/16/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/16/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Vinyl Chloride	1.2	ug/l	0.2	0.65	1	8260B		4/16/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		4/16/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		4/16/2020	CJR	1
SUR - Dibromofluoromethane	119	REC %			1	8260B		4/16/2020	CJR	1
SUR - Toluene-d8	91	REC %			1	8260B		4/16/2020	CJR	1
SUR - 4-Bromofluorobenzene	81	REC %			1	8260B		4/16/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	114	REC %			1	8260B		4/16/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753M
Sample ID PZ-6
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		4/16/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		4/16/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		4/16/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/16/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/16/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		4/16/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/16/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		4/16/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		4/16/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		4/16/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		4/16/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		4/16/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		4/16/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/16/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		4/16/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/16/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		4/16/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		4/16/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		4/16/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		4/16/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		4/16/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		4/16/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		4/16/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		4/16/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		4/16/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/16/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		4/16/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		4/16/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/16/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		4/16/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/16/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/16/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753M
Sample ID PZ-6
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		4/16/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		4/16/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		4/16/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/16/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		4/16/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		4/16/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		4/16/2020	CJR	1
SUR - Dibromofluoromethane	123	REC %			1	8260B		4/16/2020	CJR	1
SUR - 4-Bromofluorobenzene	80	REC %			1	8260B		4/16/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	114	REC %			1	8260B		4/16/2020	CJR	1
SUR - Toluene-d8	90	REC %			1	8260B		4/16/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753N
Sample ID DUPLICATE
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		4/16/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		4/16/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		4/16/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/16/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/16/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		4/16/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/16/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		4/16/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		4/16/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		4/16/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		4/16/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		4/16/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		4/16/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/16/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		4/16/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/16/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		4/16/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		4/16/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		4/16/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		4/16/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		4/16/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		4/16/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		4/16/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		4/16/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		4/16/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/16/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		4/16/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		4/16/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/16/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		4/16/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/16/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/16/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753N
Sample ID DUPLICATE
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		4/16/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		4/16/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		4/16/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/16/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		4/16/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		4/16/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		4/16/2020	CJR	1
SUR - Dibromofluoromethane	126	REC %			1	8260B		4/16/2020	CJR	1
SUR - Toluene-d8	89	REC %			1	8260B		4/16/2020	CJR	1
SUR - 4-Bromofluorobenzene	80	REC %			1	8260B		4/16/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	112	REC %			1	8260B		4/16/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753O
Sample ID EQUIP BLANK
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		4/16/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		4/16/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		4/16/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/16/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/16/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		4/16/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/16/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		4/16/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		4/16/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		4/16/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		4/16/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		4/16/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		4/16/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/16/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		4/16/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/16/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		4/16/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		4/16/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		4/16/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		4/16/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		4/16/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		4/16/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		4/16/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		4/16/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		4/16/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/16/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		4/16/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		4/16/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/16/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		4/16/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/16/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/16/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753O
Sample ID EQUIP BLANK
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		4/16/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		4/16/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		4/16/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/16/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		4/16/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		4/16/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		4/16/2020	CJR	1
SUR - Toluene-d8	90	REC %			1	8260B		4/16/2020	CJR	1
SUR - Dibromofluoromethane	121	REC %			1	8260B		4/16/2020	CJR	1
SUR - 4-Bromofluorobenzene	82	REC %			1	8260B		4/16/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	114	REC %			1	8260B		4/16/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753P
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		4/16/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		4/16/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		4/16/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/16/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/16/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		4/16/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/16/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		4/16/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		4/16/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		4/16/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		4/16/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		4/16/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		4/16/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/16/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		4/16/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/16/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		4/16/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		4/16/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		4/16/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		4/16/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		4/16/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		4/16/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		4/16/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		4/16/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		4/16/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/16/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		4/16/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		4/16/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/16/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		4/16/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		4/16/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/16/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/16/2020	CJR	1

Project Name ACME GALVANIZING **Invoice #** E37753
Project # 12884

Lab Code 5037753P
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 4/10/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		4/16/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		4/16/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		4/16/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/16/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		4/16/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/16/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		4/16/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		4/16/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		4/16/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		4/16/2020	CJR	1
SUR - Toluene-d8	91	REC %			1	8260B		4/16/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	110	REC %			1	8260B		4/16/2020	CJR	1
SUR - 4-Bromofluorobenzene	82	REC %			1	8260B		4/16/2020	CJR	1
SUR - Dibromofluoromethane	119	REC %			1	8260B		4/16/2020	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CHAIN OF STODY RECORD

Synergy Environmental Lab, Inc.

www.synergy-lab.net
1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • mrsynergy@wi.twcbc.com

Chain # No 40520
Page 1 of 2

Sample Handling Request
___ Rush Analysis Date Required: ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #
QUOTE # :
Project #: 12884
Sampler: (signature)

Project (Name / Location): ACME Galvanizing Milwaukee, WI

Reports To: Jake Krause	Invoice To:
Company The Sigma Group	Company
Address 1300 West Canal Street	Address
City State Zip Milwaukee WI 53233	City State Zip
Phone 414-643-4154	Phone
~~Email~~ FAX 414-643-4210	Email jkrause@thesigmagroup.com

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-RCRA METALS	DISSOLVED CASMIUM	PID/ FID
50377534 A	MW-6	4/9/20	11:55	N	GW	GW	HCL													X				
B	MW-7	4/9/20	8:45	N	GW	GW	HCL													X				
C	MW-12	4/9/20	12:45	N	GW	GW	HCL													X				
D	MW-15	4/9/20	9:45	Y	GW	GW	HCL/HNO3													X			X	
E	MW-16	4/9/20	9:05	Y	GW	GW	HCL/HNO3													X			X	
F	MW-18	4/10/20	7:45	N	GW	GW	HCL													X				
G	MW-20	4/10/20	8:20	Y	GW	GW	HCL/HNO3													X			X	
H	MW-21	4/10/20	9:20	N	GW	GW	HCL													X				
I	MW-22	4/10/20	9:00	N	GW	GW	HCL													X				
J	MW-23	4/10/20	10:25	N	GW	GW	HCL													X				
K	PZ-4	4/9/20	10:40	Y	GW	GW	HCL/HNO3													X			X	
L	PZ-5	4/10/20	8:10	N	GW	GW	HCL													X				

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Ice
Temp. of Temp. Blank: ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	11:45	4/13/20			

Received in Laboratory By: Time: 8:00 Date: 4/14/20

CHAIN OF STODY RECORD

Synergy Environmental Lab, Inc.

www.synergy-lab.net
1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • mrsynergy@wi.twcbc.com

Chain # No 40521
Page 2 of 2

Sample Handling Request
___ Rush Analysis Date Required: ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #
QUOTE # :
Project #: 12884
Sampler: (signature)

Project (Name / Location): ACME Galvanizing Milwaukee, WI

Reports To: Jake Krause	Invoice To:
Company The Sigma Group	Company
Address 1300 West Canal Street	Address
City State Zip Milwaukee, WI 53233	City State Zip
Phone 414-643-4154	Phone
~~Email~~ FAX 414-643-4210	Email jkrause@thesigmagroup.com

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-RCRA METALS	DISSOLVED CADMIUM	PID/ FID
S057753 M	PZ-6	4/10/20	10:15	N	3	GW	HCL													X				
N	Duplicate	4/10/20	—	N	3	GW	HCL													X				
O	Equip. Blank	4/10/20	—	N	2	—	HCL													X				
P	Trip Blank	—	—	N	1	—	HCL													X				

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: GC
Temp. of Temp. Blank: ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	11:45	4/13/20			

Received in Laboratory By: Time: 8:00 Date: 4/14/20

Appendix G

Natural Attenuation Gas Analysis Laboratory Report and COC

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

April 24, 2020

Jacob Krause
The Sigma Group
1300 W. Canal Street
Milwaukee, WI 53233

RE: Project: 12884 ACME GALVANIZING
Pace Project No.: 40206211

Dear Jacob Krause:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

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

Sincerely,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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

SAMPLE SUMMARY

Project: 12884 ACME GALVANIZING
Pace Project No.: 40206211

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40206211001	**MW-21**	Water	04/10/20 09:20	04/14/20 09:40
40206211002	**PZ-5**	Water	04/10/20 08:10	04/14/20 09:40

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

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www.pacelabs.com

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:	The Sigma Group
Branch/Location:	Milwaukee, WI
Project Contact:	Jake Krause
Phone:	414-643-4154
Project Number:	# 12884
Project Name:	ACME Galvanizing
Project State:	Wisconsin
Sampled By (Print):	TOM McCoy
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Jake Krause
Mail To Company:	The Sigma Group
Mail To Address:	1300 W. Canal Street Milwaukee, WI 53233
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	414-643-4154

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Methane	Ethane	Ethene	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-21	4/10/20	9:20	GW	X	X	X			
002	PZ-5	4/10/20	8:10	GW	X	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:
	4/10/20 1200		
WS	4-14-20 0940	Madeline Zabel Pace	4-14-20 0940

PACE Project No.: 46006211
Receipt Temp = ROT °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Preservation Receipt Form

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

Client Name: The Sigma Group Project # 40201811

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN						
001																										3						2.5 / 5 / 10
002																										3						2.5 / 5 / 10
003																																2.5 / 5 / 10
004																																2.5 / 5 / 10
005																																2.5 / 5 / 10
006																																2.5 / 5 / 10
007																																2.5 / 5 / 10
008																																2.5 / 5 / 10
009																																2.5 / 5 / 10
010																																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

MCL 4-14-20

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : □Yes ☒No □N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	40 mL clear glass trisodium phosphate preserved

MCL 4-14-20

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 26Mar2020
	Document No.: **ENV-FRM-GBAY-0014-Rev.00**	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO# : 40206211**

Client Name: The Sigma Group

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☒ UPS ☐ Waltco ☐ Client ☐ Pace Other: _____

Tracking #: 1Z 27W 444 03 6503 3607

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 - n/a **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROL /Corr: ROL

Person examining contents: Date: 4-14-20 /Initials: MLR

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Labeled By Initials: MP

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. PO # MLR 4-14-20
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	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No ~~☐N/A~~ 4/14/20	9. ~~MEE requires HCl preserved. Containers~~ are trisodium phosphate preserved Preservation correct For method, 4/14/20 MLR 4-14-20
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☒Yes ☐No ~~☐N/A~~ 4/14/20	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☒No ☐N/A	12. no times on vials MLR 4-14-20
Trip Blank Present:	☐Yes ☒No ☐N/A	13.
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: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

April 24, 2020

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

RE: **40206211 / SIGMA ENV. SERVICES**

Pace Workorder: 33466

Dear Laurie Woelfel:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, April 15, 2020. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Ruth Welsh 04/24/2020
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 15

CERTIFICATE OF ANALYSIS

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

SAMPLE SUMMARY

Workorder: 33466 40206211 / SIGMA ENV. SERVICES

Lab ID	Sample ID	Matrix	Date Collected	Date Received
334660001	MW-21	Water	4/10/2020 09:20	4/15/2020 10:30
334660002	PZ-5	Water	4/10/2020 08:10	4/15/2020 10:30

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

PROJECT SUMMARY

Workorder: 33466 40206211 / SIGMA ENV. SERVICES

Workorder Comments

The container pH for samples 33466 (0002) were measured as below the expected pH (< 10) for those samples preserved with trisodium phosphate, as assigned to PAES method AM20GAx.

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 33466 40206211 / SIGMA ENV. SERVICES

Lab ID: **334660001** Date Received: 4/15/2020 10:30 Matrix: Water

Sample ID: **MW-21** Date Collected: 4/10/2020 09:20

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**20**	ug/l	0.50	0.023	1	4/16/2020 13:03	BW	n
Ethane	**0.039J**	ug/l	0.10	0.010	1	4/16/2020 13:03	BW	n
Ethene	**0.056J**	ug/l	0.10	0.0090	1	4/16/2020 13:03	BW	n

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
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ANALYTICAL RESULTS

Workorder: 33466 40206211 / SIGMA ENV. SERVICES

Lab ID: **334660002** Date Received: 4/15/2020 10:30 Matrix: Water

Sample ID: **PZ-5** Date Collected: 4/10/2020 08:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**18**	ug/l	0.50	0.023	1	4/16/2020 13:14	BW	n
Ethane	**1.3**	ug/l	0.10	0.010	1	4/16/2020 13:14	BW	n
Ethene	**0.70**	ug/l	0.10	0.0090	1	4/16/2020 13:14	BW	n

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS QUALIFIERS

Workorder: 33466 40206211 / SIGMA ENV. SERVICES

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA

Workorder: 33466 40206211 / SIGMA ENV. SERVICES

QC Batch: DISG/8204 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 334660001, 334660002

METHOD BLANK: 66766

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.50 U	0.50	n
Ethane	ug/l	0.10 U	0.10	n
Ethene	ug/l	0.10 U	0.10	n

LABORATORY CONTROL SAMPLE & LCSD: 66767 66768

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Methane	ug/l	750	740	760	99	102	80-120	2.5	20	n
Ethane	ug/l	38	37	38	97	100	80-120	3.1	20	n
Ethene	ug/l	35	34	36	98	101	80-120	3.1	20	n

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA QUALIFIERS

Workorder: 33466 40206211 / SIGMA ENV. SERVICES

QUALITY CONTROL PARAMETER QUALIFIERS

n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 33466 40206211 / SIGMA ENV. SERVICES

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
334660001	MW-21			AM20GAX	DISG/8204
334660002	PZ-5			AM20GAX	DISG/8204

Chain of Custody

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: WI
Cert. Needed: ☐ Yes ☒ No
Owner Received Date: 4/14/2020 Results Requested By: 4/22/2020

Pace Analytical® www.pacelabs.com

Workorder: 40206211 Workorder Name: 12884 ACME GALVANIZING

Report To	Subcontract To
Laurie Woelfel Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436 33466	Pace Analytical Energy Services, LLC 220 William Pitt Way Pittsburgh, PA 15238 412-826-2378

Requested Analysis: AM20GAX Methane, Ethane, Ethene

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: TSP						AM20GAX Methane, Ethane, Ethene	LAB USE ONLY
1	MW-21	PS	4/10/2020 09:20	40206211001	Water	3						X	
2	PZ-5	PS	4/10/2020 08:10	40206211002	Water	3						X	
3													
4													
5													

Transfers	Released By	Date/Time	Received By	Date/Time
1	Madeline [illegible] Pace	4-14-20 1700	[illegible] PAES	4.15.2020 1030
2				
3				

Comments:

Cooler Temperature on Receipt 0.4 °C | Custody Seal Y or (N) | Received on Ice (Y) or N | Samples Intact (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Cooler Receipt Form

Client Name: Pace **Project:** 40206211 **Lab Work Order:** 33466

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ **Air bill Present:** (Yes) No

Tracking Number: 427891345707

Custody Seal on Cooler/Box Present: (Yes) No **Seals Intact:** (Yes) No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None **Ice Intact:** (Yes) Melted

Cooler Temperature: 0.4°C **Radiation Screened:** Yes (No) **Chain of Custody Present:** (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC			✓	
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?		✓		

Comments:_____

_____

Cooler contents examined/received by : CG **Date:** 4.15.2020

Project Manager Review : JW **Date:** 4.15.2020

ENV-FRM-PITTS-0006 Rev 00

33466

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

Page 1 of 1

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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:	The Sigma Group
Branch/Location:	Milwaukee, WI
Project Contact:	Jake Krause
Phone:	414-643-4154
Project Number:	#12884
Project Name:	ACME Galvanizing
Project State:	Wisconsin
Sampled By (Print):	Tom McCoy
Sampled By (Sign):	[illegible]
PO #:	
Regulatory Program:	

4UDU0211

Quote #:	
Mail To Contact:	Jake Krause
Mail To Company:	The Sigma Group
Mail To Address:	1300 W. Canal Street Milwaukee, WI 53233
Invoice To Contact:	Same
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	414-643-4154

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, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

					Analyses Requested										
				FILTERED? (YES/NO)	Y/N	N	N	N							
				PRESERVATION (CODE)*	Pick Letter	J	J	J							
PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX		METHANE	ETHANE	ETHENE						CLIENT COMMENTS	LAB COMMENTS (Lab Use Only) / Profile #
001	MW-21	4/10/20	9:20	GW		X	X	X							
002	PZ-5	4/10/20	8:10	GW		X	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:
[illegible]	4/10/20 1200		
WB	4-14-20 0940	[illegible] Pace	4-14-20 0940

PACE Project No. 4UDU0211

Receipt Temp = RoT °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / [✓ Not Present]
Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

C019a(27Jun2006)

33466

Sample Preservation Receipt Form

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

Client Name: The Sigma Group Project # 40201211

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
001																										GN							2.5 / 5 / 10
002																										GN							2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
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020																																	2.5 / 5 / 10

MCL 4-14-20

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : ☐Yes ☒No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	40 mL clear glass trisodium phosphate preserved

MCL 4-14-20

3946

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40206211

40206211

Client Name: The Sigma Group

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☒ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1Z 27W 444 03 6503 3607

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 - n/a **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: ROI

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 4-14-20 /Initials: MLR

Labeled By Initials: MP

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. PO # MLR 4-14-20
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	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No 4/14/20	9. ~~MER requires HCl preserved. Containers are trisodium phosphate preserved~~ Preservation correct for method. 4/14/20 MLR 4-14-20
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☒Yes ☐No ☐N/A 4/14/20	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☒No ☐N/A	12. no times on vials MLR 4-14-20
Trip Blank Present:	☐Yes ☒No ☐N/A	13.
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:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi