2023 PERIODIC REVIEW REPORT

CC Metals and Alloys, LLC Witmer Road Niagara, New York NYDEC Site #932001C

Submitted to:

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PERIODIC REVIEW REPORT (PRR)

FOR CC METALS AND ALLOYS, LLC WITMER ROAD NYDEC Site # 932001C

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PERIODIC REVIEW REPORT (PRR) FOR CC METALS AND ALLOYS, LLC WITMER ROAD

NYDEC Site # 932001C

1.0 EXECUTIVE SUMMARY

A. Provide a brief summary of the site, nature and extent of contamination, and remedial history.

CC Metals and Alloys, Inc. formerly known as SKW Metals and Alloys, Inc. (CCMA or SKW), owns a portion (SKW Property) of the "Vanadium Corporation of America" (Vanadium Site) site No. 932001, which is listed in the New York State Department of Environmental Conservation's (NYSDEC) Registry of Inactive Hazardous Waste Disposal Sites (Registry). A site location map is provided in Figure 1. A map showing the limits of the CCMA Property is provided in Figure 2. The Vanadium site has been divided into 3 operable units (OUs) based on current property ownership. OU #1 is owned by CCMA and consists of a landfill that occupies a part of the northern portion of the property. The landfill consists of Cells No. 1 and No. 2. The landfill was properly closed in 1992-1993 in accordance with NYSDEC regulations and the NYSDEC approved the closure in 1994. As noted in the Record of Decision dated March 2006 in the past, portions of the Vanadium site have been used for the disposal of waste from the on-site and off-site manufacturing of specialty steel products. These activities resulted in the disposal of hazardous wastes, containing ferromanganese slag, calcium hydroxide, ferrochromium dust, and ferrochromium silicon dusts. The presence of hazardous waste poses threats to human health and/or the environment. These wastes had contaminated the surface soils, subsurface soils, shallow groundwater, surface water run-off and sediments at the site.

Through conferences with NYSDEC personnel, a plan and scope of work was developed and agreed upon to install an earthen cap to manage and reduce stormwater infiltration on areas surrounding the landfill proper (Cells No. 1 and No. 2). The plan also addressed drainage onto the SKW property from adjoining properties through berm construction, regrading, and the establishment and fertilization of vegetation in areas surrounding Cells No.1 and No. 2.

B. Effectiveness of the Remedial Program

Based on the results of the Remedial Investigation and Feasibility Study (RI/FS) for the Vanadium site, the NYSDEC selected a No Further Action for OU #1 on March 31, 2006.

Page 1



1. Progress made during the reporting period toward meeting the remedial objectives for the site

The site continues to meet the remedial objectives established in the institutional and engineering controls put in place, which include following the Monitoring Plan (Appendix 1) and implementing the Operation and Maintenance Plan developed for the site. (Appendix 2).

2. The ultimate ability of the remedial program to achieve the remedial objectives for the site

Site monitoring shows the remedial objectives were met during the reporting period, indicating that the current operation and maintenance is sufficient to achieve the objective(s) of the remedial program and will be successful in the future.

C. Compliance

1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).

The CCMA Site did not experience any non-compliance issues from the 2020 – 2023 calendar years in regard to the (IC/EC) Plan, the Monitoring Plan or the (O&M) Plan. Refer to NYDEC Institutional and Engineering Controls Certification Form in Appendix 3.

2. Propose steps to be taken and a schedule to correct any areas of non-compliance.

LAN Associates, Inc. (LAN) inspected the site on July 19 & 20, 2023. During the inspection, LAN verified/documented that historical site maintenance items identified as recommended corrective actions from the previous two inspections (2021 & 2022) were all completed or remedied, and the site was found in good overall condition.

While there were no items of non-compliance, during the 2023 inspection, LAN identified six (6) maintenance issues/areas. These issues were recommended for corrective action to maintain the integrity and functionality of the engineering controls, as noted on the 2023 Inspection Checklist - Checklist of Recommended Corrective Actions (Appendix 4). The mowing contractor, A-1 Land Care, is working on providing a quote for this additional maintenance work, and it is scheduled to be completed before the end of 2023.



D. Recommendations

1. Recommend whether any changes to the SMP are needed

No changes to the SMP are recommended or deemed necessary at this time.

2. Recommend any changes to the frequency for submittal of PRRs (increase, decrease)

The annual site monitoring and maintenance schedule will not change; however, it is recommended that the current frequency of PRR submittal of every three (3) years be changed to every five (5) years. CCMA continues to perform annual inspections, monitoring, maintenance, and complete annual reporting of the results, including corrective actions to maintain the function of engineering controls. The site conditions are stable and have been monitored for nearly 20+ years. Laboratory results from the past 20+ years show monitored analytes are generally range-bound and stable. LAN submitted a Request for Modification of Groundwater Sampling Plan to the NYSDEC dated October 2013, which requested a change from semi-annual to annual sampling. This request was based on a thorough statistical analysis of historic water quality data collected to that time. That statistical analysis further supports the consistency of site laboratory data. Furthermore, there are no recommended or anticipated changes to engineering/institutional controls. If changes to engineering/institutional controls are proposed in the future, or if any significant changes to inorganic analytical trends are observed during the annual monitoring/reporting, the PRR frequency can be re-evaluated. LAN recommends changing the frequency of PRR submittals to every 5 years.

2.0 SITE OVERVIEW

A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation

The subject landfill is located on the south side of NY Highway #31, approximately two miles northeast of the intersection of NY Highway #31 and Hyde Park Boulevard in/near Niagara, NY. CCMA, formerly known as SKW Metals and Alloys, Inc., received a NYSDEC Permit to operate the subject solid waste disposal facility in 1980. The landfill consisted of two landfill cells that were designed for the disposal of baghouse fume dusts from the nearby ferroalloy production plant. According to historical engineering documents, there were two cells known as Cell No. 1 and Cell No. 2 that were permitted under the NYSDEC permit. Cell No. 1 has a 5-foot clay liner with leachate collection system, while Cell No. 2 has a 2-foot clay liner with leachate collection system. Permit #2585 (Appendix 5) issued by NYSDEC provided the closure requirements of this landfill. A closure plan was submitted on January 28, 1988, and was subsequently



approved. Since that time, CCMA has been performing the required post-closure monitoring as required by the regulations and set forth in the closure plan.

B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection

In response to the NYSDEC's inclusion of the Vanadium Site on the Registry, CCMA entered into an Order on Consent in 1998 with the NYSDEC, Index No. B9-0470-94-12, a copy of which was attached to and made a part of a Declaration of Covenants and Restrictions which was recorded in the Niagara County's Clerk's Office on July 30, 1998. CCMA undertook remedial measures to address conditions in an area in the southeast portion of the property, which measures included regarding to (i) eliminate off-site surface water runoff from entering the property, (ii) isolate on-site stormwater to prevent contact with underlying soil and groundwater, (iii) create a site drainage system for the property to control stormwater discharge from the property and (iv) eliminate on-site low-lying areas where surface water could accumulate. NYSDEC approved the remedial measures completion report in a letter dated January 13, 2000, and recording by the Niagara County Clerk Office on July 30, 1998 of the Declaration of Covenants and Restrictions automatically terminated the obligations imposed under the Order on Consent.

3.0 EVALUATE REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

Groundwater monitoring continues to show predictable and range-bound results for the OU#1 site. In 2014, groundwater monitoring events were adjusted from a semi-annual to annual occurrence. Table 1 (Water Quality Analytical Summary) summarizes the results of the groundwater monitoring events from 2012 through 2023. Exceedances are illustrated as bold values in the table.

4.0 DECLARATION OF COVENENT AND RESTRICTIONS

Following the completion of the interim remedial measure a Declaration of Covenants and Restrictions was developed, approved and filed. This document remains in full force.

5.0 MONITORING PLAN COMPLIANCE REPORT

A. Components of the Monitoring Plan – Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediments, etc.) and by any remedial technologies being used at the site

Provisions have been made for groundwater and surface water monitoring for Cells 1 and 2. Implementation of this program during the facility's post-closure period provides the



required data to evaluate the potential effects of Cells 1 and 2 on both the site's ground and surface water. A series of five monitoring wells are utilized to monitor the quality of groundwater contained in the permeable sediments overlying the bedrock. Table 1 (Water Quality Analytical Summary) summarizes the results of the groundwater monitoring events from 2012 through 2023. Exceedances are illustrated as bold values in the table.

B. Summary of Monitoring Completed During Reporting Period – Describe the monitoring tasks actually completed during this PRR reporting period.

Monitoring wells MW-3R, MW-5R, MW-12, MW-BR1, and MW-14N locations are shown on Figure 2. Figure 2 also shows the top-of-casing elevations next to each well, land topography, and surface water drainage patterns. Based on groundwater elevation data obtained from the monitoring wells during the July 2023 monitoring period, groundwater generally flows in the southwest direction across the site (Figure 3). This is consistent with recorded historic groundwater flow patterns. Monitoring well 3R is used to provide up-gradient data, while monitoring wells 5R, 12, BR1, and 14N provide data on groundwater quality downgradient of the site's disposal areas (Cells 1 and 2). Surface water quality is monitored using samples obtained from the site's drainage retention swale. In addition, samples are obtained from the landfill leachate sump (LS-1).

Cell 1 was closed to all waste materials and covered with a minimum of 18 inches of low permeability compacted soil (maximum permeability of 1.0 x 10⁻⁷ cm/sec) and 6 inches of soil capable of supporting vegetative growth. It is reported that Cell 2 was similarly closed. Surface water runoff from the closed facilities does not come in contact with the waste materials previously deposited in Cells 1 and 2. However, as a precaution, surface water samples are taken at the southwest corner of the site, where surface water collects and flows into the stormwater drainage pipe and then offsite to the City of Niagara Falls combined sewer system (sample location SW-1).

Groundwater and surface water analytical samples are typically collected by Barton & Loguidice (B&L) and analyzed by Eurofins/Test America Laboratories, Inc. (Eurofins) with LAN providing oversight. Historically, samples were collected on a semi-annual basis. However, LAN submitted a *Request for Modification of Groundwater Sampling Plan* to the NYSDEC dated October 2013 which requested a change from semi-annual to annual sampling. This request was based on a thorough statistical analysis of historic water quality data collected to that time. In a letter dated March 2014 from the NYSDEC, the requested modification to annual sampling was approved. As such, samples are now analyzed on an annual basis for routine parameters; specific conductivity, temperature, pH, Eh, turbidity, COD, TOC, TDS, SO4, Cl, Br, Pb, Mn, K, and Na. In addition, annual samples are analyzed for baseline parameters; As, Ba, Cr, Cr+6, Hg, Se, and B. Samples are also obtained for Volatile Organic Compounds (VOCs) as specified in the New York State Regulation 6 NYCRR Part 360, §360-2.11(d)(6) Water Quality Analysis Tables, Baseline Parameters list.



The following laboratory analytical methods were utilized: VOCs analyzed via Method 8260C (VOCs by GC/MS); Metals analyzed via method 6010C (ICP); Mercury analyzed via Method 7470A (CVAA); General Chemistry Methods for bromide, chloride, sulfate via Method 300.0_28D, Chemical Oxygen Demand (COD) via Method 410.4, Total Dissolved Solids (TDS) via Method SM 2540C_Calcd, Hexavalent Chromium-Cr (VI) via Method SM 3500 CR B, and Total Organic Carbon (TOC) via Method SM 5310C. Field parameters such as water temperature, pH, conductivity, turbidity and ORP were measured by the B&L field personnel during the well sampling. The laboratory analytical reports, chain of custodies and field forms for 2020 - 2023 are included as Appendix 6.

C. Comparisons with Remedial Objectives – Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible

CCMA's disposal site received inorganic (metals) waste; organic waste analytes may be presumed to be originating from the adjacent superfund properties or other off-site sources. Sodium, TDS, and cis-1, 2-Dichloroethene have historically been detected above standards in one or more wells on-site. Sodium continues to be detected above the defined water quality standard in all the groundwater samples. Sodium continues to have an upward trend in all wells, indicating a potential regional change in groundwater quality. TDS concentrations were reported above the defined standard in all groundwater and leachate samples. The increase in TDS observed during 2023 will be discussed with the laboratory to ensure it wasn't an equipment or laboratory error and TDS will be closely monitored into the future.

The concentration of cis-1, 2-Dichloroethene in MW-14N has decreased over time and all other wells have remained below the determined standard. The concentration of vinyl chloride in wells 12 and 14N has recently been detected above standard. Vinyl chloride in MW-12 was detected in 2021 at 25 ug/L, although it has decreased to 18 ug/L in recent years and will be closely monitored to ensure it continues to decline. Vinyl Chloride in MW-14N was detected in 2022 at 3.7 ug/L, just above the standard, although slightly declined the following year. Vinyl chloride is not suspected to be present in the landfill material, and therefore could be potentially attributed to the active facility between the landfill, and downgradient well, or even an adjacent site, although more investigation would be required to determine such.

A trend analysis was completed for sodium, TDS, and cis-1, 2-dichloroethene. These trend analysis graphs have been included as Figure 4, 5, and 6 respectively. This analysis shows that the concentration of cis-1, 2-dichloroethene in wells 12 and 14N have generally decreased from 2012 to 2023. Sodium and TDS concentrations will continue to be analyzed thoroughly in the annual water quality reports. Sodium and TDS at these concentrations generally pose a low health risk and will continue to be monitored and compared in the future to other regional data. There have been no new parameters commonly detected above the established standards, and the majority of constituents of potential concern (COPCs) that have been identified either have a decreasing or stable trend.



A summary of groundwater quality data for the past ten (10) years is provided as Table 1 Water Quality Analytical Summary. Throughout time, COPC detected in the groundwater above standards have commonly included: sodium and TDS in all wells, cis-1, 2-Dichlorothene in well 14N and vinyl chloride in well 12.

The data collected from 2020 to 2023 has been added to historical trend graphs for sodium, TDS, and cis-1, 2-Dichlorothene. These trend graphs are included as Figures 4, 5, & 6 respectively.

Turbidity has not previously been an issue, but in the last four years, (2020 - 2023), it has exceeded 5.0 NTUs in monitoring well MW-12 and will continue to be closely monitored. Efforts will be made to reduce turbidity in all future sampling events. The recent results of the water quality sampling indicate that the groundwater is generally trending as it has historically, except for an increase in TDS which will be closely monitored.

D. Monitoring Deficiencies – Describe any ways in which monitoring did not fully comply with the monitoring plan

Annual water quality monitoring during the period from 2020-2023 has remained in compliance with the approved monitoring plan.

E. Conclusions and Recommendations for Changes – Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness

Overall, there have been no significant changes in water quality since the start of monitoring. Parameters such as manganese and cis-1, 2-Dichloroethene have declined over recent years and minor regional increases in sodium and TDS are not of general concern to this monitoring program. Sodium and TDS continue to have a subtle increase in concentrations over time in all up and down gradient wells, likely indicating a regional increase in salinity. Minor occurrences/detections of vinyl chloride will be closely monitored into the future, but do not show enough change to warrant alarm. A summary of groundwater quality data for the since 2012, is provided in Table 1.

6.0 OPERATION & MAINTENANCE (O&M) PLAN COMPLIANCE REPORT

A. Components of O&M Plan – Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.

LAN has been tasked with conducting and filing a Waste Management Facility Maintenance Inspection Report. The inspection report consists of a checklist, which covers the following annual evaluation.



- Bank and cover erosion
- Settlement
- Cover soil integrity
- Condition of vegetative cover
- Condition of monitoring wells
- Site security

If items are encountered during the inspections that are of environmental concern or necessary to maintain the functionality of any engineering control, corrective actions are undertaken as expeditiously as possible. Notices of these actions, if necessary, are reported to the NYSDEC explaining the nature and location of the problem and the corrective action taken.

B. Summary of O&M Completed During Reporting Period – Describe the O&M tasks actually completed during this PRR reporting period

The required annual inspections were conducted by a representative of LAN on the following dates:

- October 26, 2020
- October 22, 2021
- August 24, 2022
- July 19-20, 2023

Copies of inspection checklists from 2020–2023 are included as Appendix 4. Photographic documentation from the 2020–2023 inspections is included as Appendix 7. The following is a synopsis of the findings of the 2023 inspection (most recent inspection).

- The annual landfill maintenance mowing had been conducted in the weeks prior to the site inspection on July 19-20, 2023. No subsidence, cracks or site cover breaks were observed, no standing water was found, and the site cover system was found to be functioning and in good condition.
- There were no washouts or other disturbances observed. The vegetation cover was in good condition and consists primarily of grasses, which are in good condition. Three (3) areas of tree growth are of concern to the wellbeing of the fence and need trimming. Two areas of tree growth internal to the site and adjacent/infringing into the landfill cells need prunin or removal, see corrective action table and corrective action map. No evidence of erosion or impact to the site was noted during the inspection.
- Each monitoring well/bollard cluster was inspected and photographed. The wells/bollards are in good condition with locks and caps intact, previous repairs to a well pad and new locks were completed, verified and documented.





- The drainage for the overall site is in excellent condition. The overall surface water drainage system had vegetative cover, no erosion was noted during the inspection, appears to be functioning as designed and conveying stormwater property. No standing water was found, and the area had received a good amount of rain in the previous weeks. The culvers ends are showing wear.
- The piping which is used for interconnecting the various drainage swales and storage impoundment areas was observed, the system is functioning as designed. The culvert ends, connecting the surface water capture areas are beginning to be worn out and will likely need attention in the near future to continue to be functional & transmit/convey stormwater properly.
- The leachate collection sump is structurally sound, it was opened and was holding liquid. No cracks or visible problems were noted.
- The fencing was inspected in it's entirely around the perimeter of the property. The fence & gate are all in good condition. Vines and weeds had been removed and inspection was unobstructed. Three (3) areas of tree trimming are needed to protect the fence system and work will be completed before the end of the year.
- All areas of the site were inspected thoroughly for any issues which may hinder the
 institutional or engineering controls. No issues were found other than 2 areas of trees
 encroaching into the landfill cells. The root systems of the trees will jeopardize the
 cover system if not removed/cut. This work is scheduled to be completed before the
 end of the year.
- C. Evaluation of Remedial Systems Based upon the results of the O&M activities completed, evaluated the ability of each component of the remedy subject to O&M requirements to perform as designed/expected

The remedial system, with proper O&M, continues to meet the requirements and perform as designed. Fencing continues to prohibit site access, the cover system is stopping downward migration of stormwater, and the engineered stormwater drainage system continues to convey water as designed.

D. O&M Deficiencies – Identify any deficiencies in complying with the O&M plan during this PRR reporting period

No deficiencies were identified during this PRR reporting period.

E. Conclusions and Recommendations for Improvements – Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan



All required post-closure activities for the 2023 year have been conducted. Items of concern discovered during the 2023 annual site inspection were noted and appropriate corrective actions are scheduled to be implemented prior to the end of the year. Previous maintenance action items were completed. Continued annual post-closure monitoring and inspections will be conducted to ensure the landfill controls are functioning as designed and do not pose a threat to human health and/or the environment.

7.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

- A. Compliance with SMP For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
 - 1. Whether all requirements of each plan were met during the reporting period

All requirements made by the Monitoring and O&M plans were met during the reporting period.

2. Any requirements not met

All requirements were met.

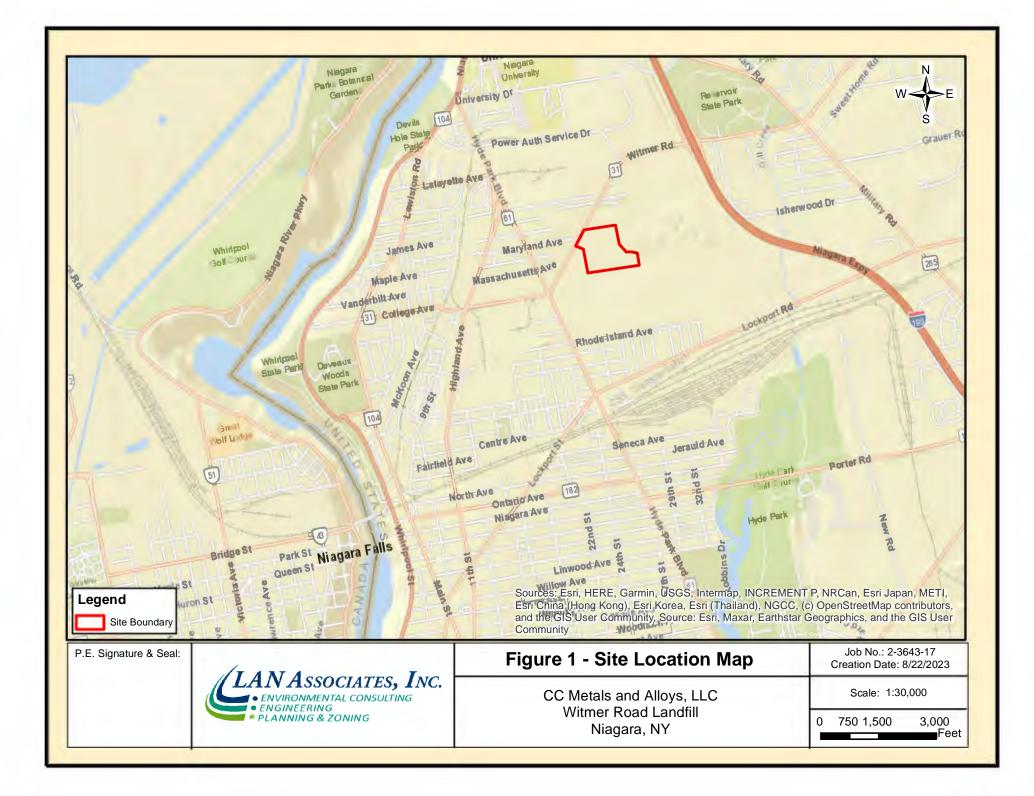
3. Proposed plans and a schedule for coming into full compliance

OU#1 is currently in full compliance and O&M scheduled accordingly.

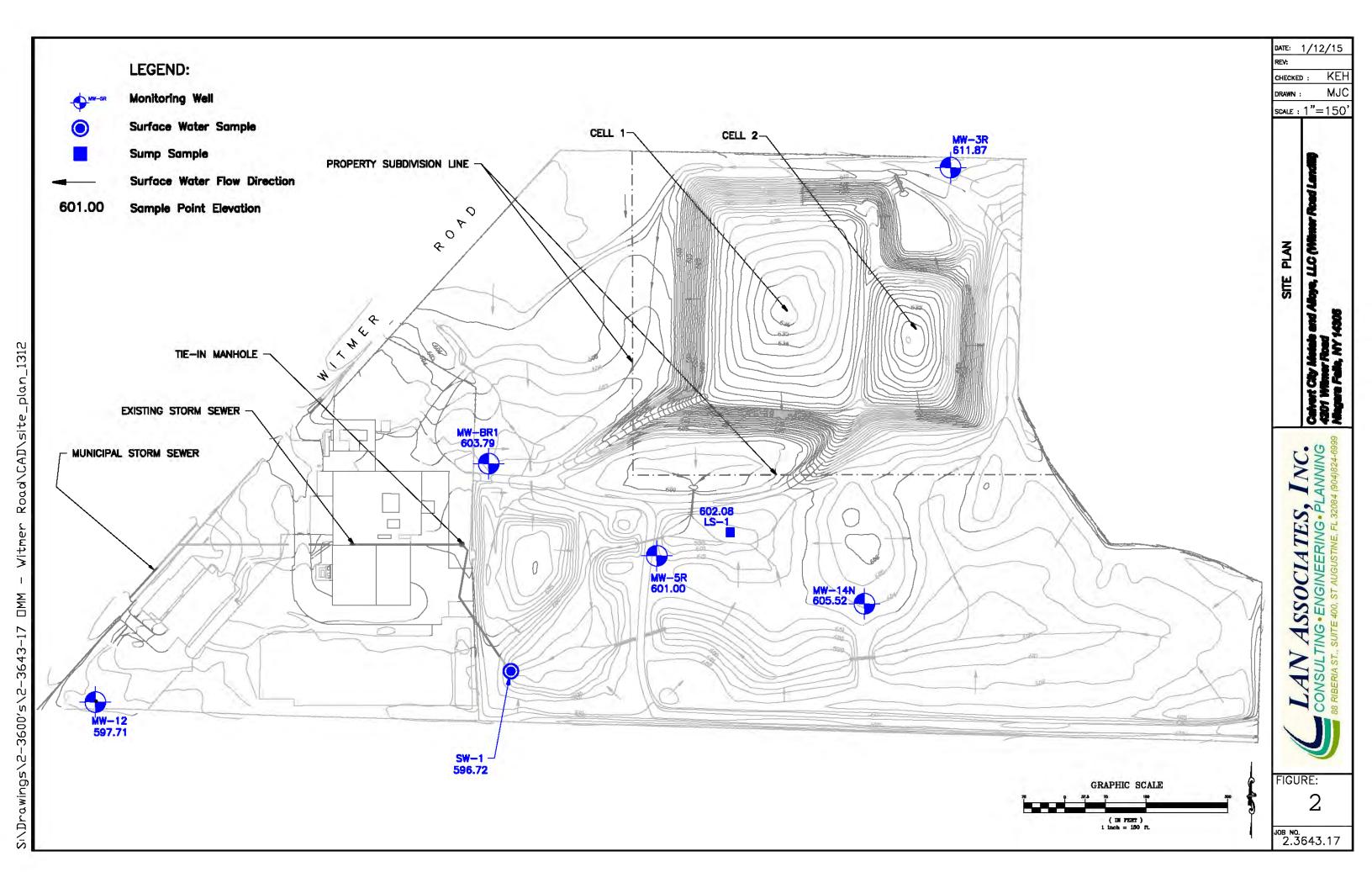
B. Performance and Effectiveness of the Remedy – Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site

All components of the SMP including the IC/EC, monitoring, and OMM plans are working as designed. The engineering controls implemented have reduced pooling of water on-site and enhanced the conveyance of stormwater, as indicated in the annual inspection reports. Annual monitoring of water quality on-site indicates that the monitoring parameters are generally stable. The monitoring system is able to detect that the general overall increase in sodium and TDS is likely regional due to its detection in both the up and downgradient wells. The current monitoring locations, efforts, and intervals are effective in protecting environmental resources (soil, groundwater, and surface water). The OMM plan is actively used to improve and maintain site features and controls necessary for post closure operation. LAN recommends the PRR frequency be extended to occur every five (5) years.

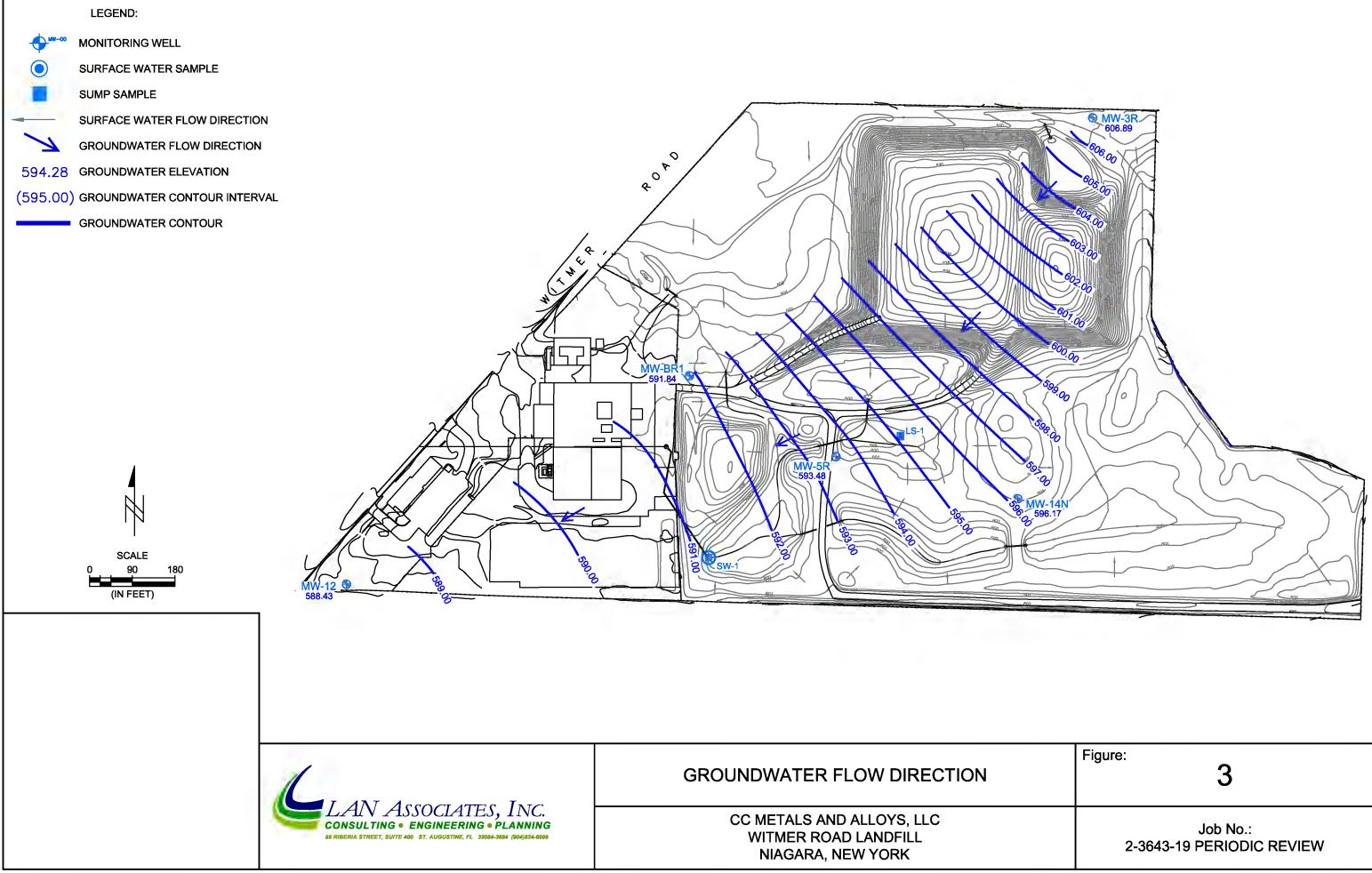
Site Location



Site Plan



Groundwater Flow Direction Map (July 2023)

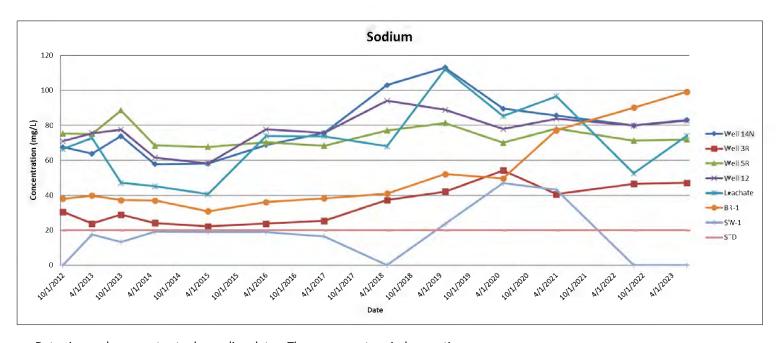


Sodium Trend Analysis

Figure 4 – Sodium Trend Analysis

			So	odium (mg/L	.)			
Date	Well 14N	Well 3R	Well 5R	Well 12	Leachate	BR-1	SW-1	STD*
10/18/2012	67.6	30.5	75.3	70.9	66.5	38.1	DRY	20
4/26/2013	63.8	23.8	75.1	75.5	72.8	39.9	17.5	20.0
10/25/2013	73.9	29.0	88.5	77.5	47.2	37.3	13.3	20.0
5/13/2014	57.8	24.1	68.5	61.6	45.1	37.0	19.1	20.0
4/23/2015	58.2	22.2	67.7	58.3	40.6	30.9	19	20.0
4/28/2016	68.8	23.8	70.3	77.7	74.0	36.2	19	20.0
4/27/2017	75.6	25.4	68.3	75.6	73.7	38.3	16.5	20.0
5/11/2018	103	37.3	77.1	94	68	41	DRY	20.0
5/9/2019	113	42.1	81.4	88.9	112	52.1	23.6	20.0
5/19/2020	89.6	54.2	70.0	77.9	85.3	49.6	46.9	20.0
4/9/2021	85.6	40.6	78.1	83.8	96.6	77.2	43.1	20.0
8/23/2022	79.9	46.6	71.3	79.9	52.5	90.1	DRY	20.0
7/19/2023	83.0	47.1	71.9	82.6	74.1	99.2	DRY	20.0

^{*} Class GA Standard



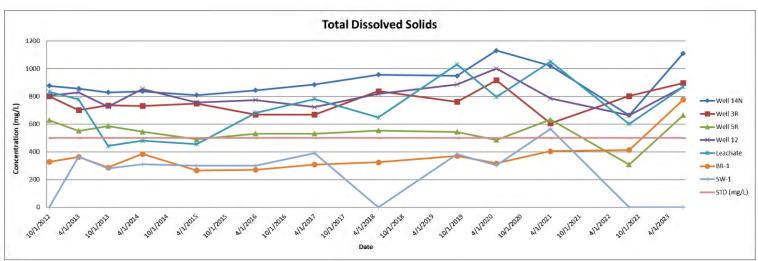
Dates in graphs are not actual sampling dates. They represent periods over time.

Total Dissolved Solids Trend Analysis

Figure 5 – Total Dissolved Solids Trend Analysis

			Total Dis	ssolved Solid	ds (mg/L)			7.
Date	Well 14N	Well 3R	Well 5R	Well 12	Leachate	BR-1	SW-1	STD*
10/18/2012	877	802	629	805	834.0	329	DRY	500
4/26/2013	857	702	552	829	778	364	366	500
10/25/2013	829	735	587	727	443	288	281	500
5/13/2014	837	731	545	854	480	385	311	500
4/23/2015	809	749	490	755	456	267	300	500
4/28/2016	844	669	531	774	681	271	300	500
4/27/2017	885	669	531	723	781	309	390	500
5/11/2018	956	838	554	818	648	325	DRY	500
9/17/2019	948	761	544	886	1030	372	384	500
5/19/2020	1130	917	487	1000	797	318	304	500
4/9/2021	1020	606	633	785	1050	405	567	500
8/23/2022	664	803	309	664	601	414	DRY	500
7/19/2023	1110	896	664	869	869	777	DRY	500

^{*} Class GA Standard



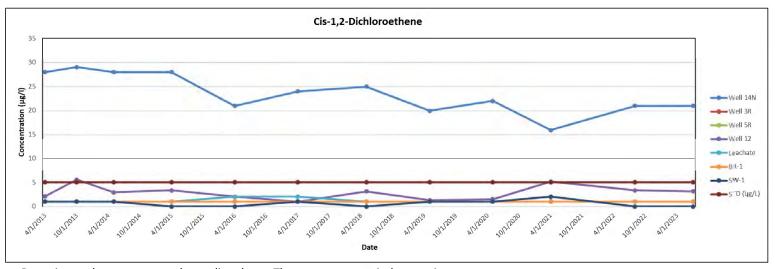
Dates in graphs are not actual sampling dates. They represent periods over time.

cis-1, 2-Dichloroethene Trend Analysis

Figure 6 – cis-1, 2-Dichloroethene Trend Analysis

		cis	s -1,2 - Di	chloroetl	nene (μg,	/L)		
Date	Well 14N	Well 3R	Well 5R	Well 12	Leachate	BR-1	SW-1	STD*
4/26/2013	28	1.0	1.0	2.1	1.0	1.0	1.0	5.0
10/25/201	29	1.0	1.0	5.5	1.0	1.0	1.0	5.0
5/13/2014	28	1.0	1.0	2.9	1.0	1.0	1.0	5.0
4/23/2015	28	1.0	1.0	3.3	1.0	1.0	1.0	5.0
4/28/2016	21	1.0	1.0	2.0	1.0	1.0	1.0	5.0
4/27/2017	24	1.0	1.0	1.0	1.0	1.0	1.0	5.0
5/11/2018	25	1.0	1.0	1.0	1.0	1.0	1.0	5.0
9/17/2019	20	1.0	1.0	1.0	1.0	1.0	1.0	5.0
5/19/2020	22	1.0	1	1.5	1.0	1.0	1.0	5.0
4/9/2021	16.0	1.0	1.0	5.1	1.0	1.0	2.0	5.0
8/23/2022	21	1.0	1.0	3.3	1.0	1.0	DRY	5.0
7/19/2023	21	1.0	1.0	3.1	1.0	1.0	DRY	5.0

^{*} Class GA Standard



Dates in graphs are not actual sampling dates. They represent periods over time.

TABLE 1

Groundwater Analytical Summary



Table 1

Quarter	Class GA Standard ⁽¹⁾	Units	2nd H/12	Qual.	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual	. 2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.	2023	Qual.
											V	Vell 1	4N															
SAMPLE DATE		NA	10/18/2012		4/26/2013		10/25/2013		5/13/2014		4/23/2015		4/28/2016		4/27/2017		5/11/2018		5/8, 9, 17/2019		5/19/2020		4/9/2021		8/23/2022		7/19/2023	
TOP OF CASING ELEVATION	-	Feet	605.52		605.52		605.52		605.52		605.52		605.52		605.52		605.52		605.52		605.52		605.52		605.52		605.52	
WATER LEVEL	-	Feet	10.22		7.12		8.13		6.83		6.81		7.11		6.47		6.89		6.19	1	6.90		7.86		10.06		9.35	
WATER ELEVATION (Before Purge)	-	Feet	595.30		598.40		597.39		598.69		598.71		598.41		599.05		598.63		599.33		598.62		597.66		595.46		596.17	
WELL BOTTOM	-	Feet	26.35		26.35		26.35		26.35		26.35		26.50		26.5		26.5		26.5		26.5		26.5		20.43		20.43	
ARSENIC	0.025	mg/l	0.010	U	0.010	U	0.010	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U
BARIUM	1	mg/l	0.12		0.11		0.12		0.11		0.11		0.12		0.12		0.14		0.14		0.13	*	0.12		0.043		0.12	
BORON, (TOTAL)	1	mg/l	0.12		0.11		0.13		0.12		0.11		0.11		0.11		0.12		0.10		0.11		0.11		0.14		0.11	
BROMIDE	-	mg/l	0.99		0.20	U	0.20	U	0.20	U	2.00	U	0.32		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CHEMICAL OXYGEN DEMAND	-	mg/l	12.0		10.4		10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	19.7		25.2		10.0	U	10.0	U
CHLORIDE	-	mg/l	119		117		109		92		110.0		132.0		151.0		175.0		150.0		150		135		122		121	
CHROMIUM	0.05	mg/l	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.00040	U	0.00040	U	0.00400	U	0.00400	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U
Eh	-	M.Volts	26		175		168		74		132		67		242		36		40		33		9		42		-16	
HEXAVALENT CHROMIUM	0.05	mg/l	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.013		0.010	U	0.010	U	0.010	U
LEAD	0.025	mg/l	0.0050	U	0.0050	U	0.0050	U	0.0100	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
MANGANESE	0.3	mg/l	0.11		0.08		0.120		0.07		0.130		0.090		0.077		0.13		0.13		0.17		0.15		0.21		0.16	
MERCURY	0.0007	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U
PH	between 6.5 to 8.5	S.U	7.17		6.99		7.01		6.87		7.01		6.98		7.06		7.26		7.26		7.18		7.04		7.01		7.53	
POTASSIUM	-	mg/l	2.5		2.5		3.0		2.4		2.4		2.6		2.6		3.0		3.5		2.5		2.7		3.8		2.6	
SELENIUM	0.01	mg/l	0.0010	U	0.0010	U	0.0010	U	0.0250	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
SODIUM	20	mg/l	67.6		63.8		73.9		57.8		58.2		68.8		75.6		103		113		89.6		85.6		79.9		83.0	
SPECIFIC CONDUCTANCE	-	Umhos/cm	1215		1139		1181		1163		1201		1368		1427		1589		1486		1531		1503		1519		1488	
SULFATE	250	mg/l	169		175		171		168		162		160		141		237		250		244		230		102		214	
TEMPERATURE	-	°F	13.20		52.16		54.68		58.28		47.48		50.18		52.16		53.24		52.34		52.3		53.4		59.3		57.2	
TOTAL DISSOLVED SOLIDS	not to exceed 500	mg/l	877		857		829		837		809		844		885		956		948		1130		1020		664		1110	
TOTAL ORGANIC CARBON	-	mg/l	1.8		2.6		2.3		3.1		2.5		2.0		2.5		2.4		3.1		3.2		3.4		2.7		3.2	
TURBIDITY	not exceed 5	N.T.U	2.89		1.93		5.11		2.51		1.93		2.48		1.83		2.3		3.4		15.1		0.76		1.34		6.40	



Table 1

Water Quality Analytical Summary

CC Metals and Alloys, LLC

Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard ⁽¹⁾	Units	2nd H/12	Qual.	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.	2023	Qual.
				_								Well 1	4N					_		_		-					_	
1,1,1,2-Tetrachloroethane	5	ug/l		T	1.0	U	1.0	U	1.0	U	1.0	101	1.0	U	1.0	TUI	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	5	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	5	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	5	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U*+
1,1-Dichloroethene	5	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ū	1.0	Ü	1.0	Ū	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U
1,2,3-Trichloropropane	0.04	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	0.04	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromomethane	5	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ū	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü
1,2-Dichlorobenzene	3	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	0.6	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ú	1.0	Ù	1.0	Ú	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü
1,2-Dichloropropane	1	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ú	1.0	Ü	1.0	Ü
1.4-Dichlorobenzene	3	ug/l	-	_	1.0	Ŭ	1.0	Ŭ	1.0	Ũ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ
2-Butanone / Methyl Ethyl Ketone	-	ug/l	-	—	10.0	Ü	10	Ŭ	10	ŭ	10	Ü	10	Ŭ	10	Ŭ	5.0	ŭ	10.0	Ŭ	10.0	Ŭ	10.0	U*+	10.0	U*+	10	U*+
2-Hexanone		ug/l	-	_	5.0	Ü	5.0	Ŭ	5.0	Ü	5.0	Ü	5.0	Ü	5.0	Ü	5.0	Ŭ	10.0	Ü	5.0	Ŭ	5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone / Methyl Isobutyl Ketone	-	ug/l	-		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetone	-	ua/l	-	+	10.0	U	10.0	U	10.0	U	10.0	U	10	U	10	U	5.0	U	10.0	U	10.0	U	10.0	U	10.0	U*1	10	U
Acetonic	-	ug/l	-	+	40.0	Ü	40.0	Ŭ	15.0	ŭ	15.0	l ii	15	Ŭ	15	Ŭ	10	υ	20	Ιŭ	15	Ŭ	15	Ü	15	U U	15	Ŭ
Benzene	1	ug/l		+	1.0	Ŭ	1.0	Ŭ	1.0	ŭ	1.0	ŭ	1.0	ŭ	1.0	Ιŭ	1.0	Ιŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ
Bromochloromethane	5	ug/l	-	-	1.0	ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ
Bromodichloromethane	-	ug/l	-	+	1.0	Ŭ	1.0	Ιŭ	1.0	ŭ	1.0	l ü	1.0	ŭ	1.0	ŭ	1.0	Ιŭ	1.0	Ηŭ	1.0	Ιŭ	1.0	Ιŭ	1.0	l ü	1.0	Ŭ
Bromoform	-	ug/l	-	+	1.0	Ŭ	1.0	υ	1.0	ŭ	1.0	ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ιŭ	1.0	ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	U*1
Bromomethane	-	ug/l		+	1.0	ŭ	1.0	ŭ	1.0	ŭ	1.0	l ii	1.0	ŭ	1.0	l ii	1.0	ΰ	1.0	Ιŭ	1.0	l ŭ	1.0	ŭ	1.0	l ü	1.0	U
Carbon Disulfide	60	ug/l	-	+	1.0	ŭ	1.0	Ιŭ	1.0	ŭ	1.0	- ii	1.0	ŭ	1.0	l ŭ l	1.0	l ŭ	1.0	Ιŭ	1.0	l ŭ	1.0	ŭ	1.0	l ü	1.0	l ŭ
Carbon Tetrachloride	5	ug/l		+	1.0	ŭ	1.0	Ιŭ	1.0	ŭ	1.0	Ü	1.0	Ŭ	1.0	Ιŭ	1.0	Ιŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	υ	1.0	Ŭ
Chlorobenzene	5	ug/l		+	1.0	Ŭ	1.0	ŭ	1.0	ŭ	1.0	i ü	1.0	ŭ	1.0	ŭ	1.0	ΰ	1.0	Ιŭ	1.0	υ	1.0	υ	1.0	l ü	1.0	Ŭ
Chloroethane	5	ug/l		+	1.0	ϋ	1.0	Ιΰ	1.0	ΙŬ	1.0	Ü	1.0	ΙŬ	1.0	l ŭ l	1.0	Ü	1.0	l ŭ	1.0	Ιŭ	1.0	l ŭ	1.0	l ü	1.0	Ü
Chloroform	7	ug/l	-	+	1.0	ŭ	1.0	Ιŭ	1.0	Ü	1.0	- ii	1.0	ϋ	1.0	l ŭ l	1.0	l ŭ	1.0	Ηŭ	1.0	Ü	1.0	l ŭ	1.0	l ü	1.0	Ü
Chloromethane		ug/l		+	1.0	Ŭ	1.0	Ιŭ	1.0	ϋ	1.0	Ü	1.0	Ü	1.0	l ŭ	1.0	Ιŭ	1.0	l ŭ	1.0	Ü	1.0	Ιŭ	1.0	l ŭ	1.0	U*+
cis-1,2-Dichloroethene	5	ug/l		+	28	-	29	-	28	-	28	-	21	-	24	-	25		20	+ 0	22		16.0	- ° -	21	+ -	21	0 +
cis-1,3-Dichloropropene	-	ug/l	-	_	1.0	U	1.0	U	1.0	U	1.0		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U*+
Dibromochloromethane	-	ug/l	-	+	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	l ŭ l	1.0	l ŭ	1.0	l ŭ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U
Dibromomethane	5	ug/l		+	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ηŭ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü
				+	1.0	_	1.0	Ü	1.0		1.0	U	1.0	Ü	1.0	-	1.0		1.0	ΙÜ	1.0	U	1.0	Ü	1.0		1.0	Ü
Ethylbenzene Iodomethane	5	ug/l		+-	1.0	U	1.0	l ü	1.0	U	1.0	Ü	1.0	ΙŬ	1.0	1 0	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U*+	1.0	U	1.0	Ü
		ug/l		+		-		Ü				_		Ü		_				-		Ü		U +		U		
m/p-Xylenes	-	ug/l	-	_	2.0	U	2.0	-	2.0	U	2.0	U	2.0	-	2.0	U	1.0	U	2.0	U	2.0		2.0		2.0		2.0	U
Methylene chloride	5	ug/l			1.0	U	1.0	U	1.0	U	1.0	Ų	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U.	1.0	U.	1.0	U
o-Xylene		ug/l		_	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	
Styrene	5	ug/l	-	_	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	-	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	5	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U.	1.0	U
trans-1,2-Dichloroethene	5	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	0.4	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,4-Dichloro-2-butene	5	ug/l	-		5.0	U	5.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.5	U	1.0	U	1.0	U	1.0	U	1.0	U*1
Trichloroethene	5	ug/l			1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	5	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl acetate	-	ug/l			5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	2.0	U	2.0	U	5	U	5	U	5	U*+	5.0	U*+
Vinyl chloride	2	ug/l	-		1.6		2.4		1.0	U	1.4		1.1		1.8		2.3		1.3		2.5		2.3		3.7		3.6	



Quarter	Class GA Standard ⁽¹⁾	Units	2nd H/12	Qual.	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual	. 2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.	2023	Qual.
												Well 3	3R															
SAMPLE DATE	-	NA	10/18/2012		4/26/2013		10/25/2013		5/13/2014		4/23/2015	4	4/28/2016		4/28/2017		5/11/2018		5/8 ,9,17/2019		5/19/2020		4/9/2021	-	8/23/2022		7/19/2023	
TOP OF CASING ELEVATION	-	Feet	611.87		611.87		611.87		611.87		611.87		611.87		611.87		611.87		611.87		611.87		611.87		611.87		611.87	\Box
WATER LEVEL	-	Feet	7.32		2.09		3.55		1.65		1.93		2.12		1.58		2.06		1.63		2.25		3.38		6.37		4.98	
WATER ELEVATION (BEFORE PURGE)	-	Feet	604.55		609.78		608.32		610.22		609.94		609.75		610.29		609.81		610.24		609.26		608.49		605.5		606.89	
WELL BOTTOM	-	Feet	12.05		12.05		12.05		12.05		12.05		12.05		12.05		12.05		12.05		12.05		12.05		11.94		11.94	
ARSENIC	0.025	mg/l	0.010	U	0.010	U	0.010	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.02	U	0.015	U	0.015	U	0.0150	U	0.015	U
BARIUM	1	mg/l	0.035		0.028		0.034		0.028		0.025		0.027		0.028		0.032		0.027		0.034	٨	0.029		0.0470		0.037	
BORON, (TOTAL)	1	mg/l	0.21		0.16		0.20		0.16		0.14		0.15		0.14		0.14		0.12		0.12		0.14		0.14		0.14	\Box
BROMIDE	-	mg/l	0.24		0.20	U	0.20	U	0.20	U	2.00	U	0.20	U	0.20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CHEMICAL OXYGEN DEMAND	-	mg/l	10.0	U	10.0	U	10.0	U	16.3		12.5		10.0	U	10.0	U	10	U	10	U	10.0	U	19.7		10.0	U	10.0	U
CHLORIDE	-	mg/l	35.9		35.9		37.9		35.9		37.1		47.8		50.6		108		86		101		126		75.8		72.7	
CHROMIUM	0.05	mg/l	0.0078		0.0052		0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0091		0.0055		0.01		0.0065		0.24		0.0040		0.0040	U
Eh	-	M.Volts	156		112		148		168		131		158		260		92.0		112.0		111		142		49.0		27	
HEXAVALENT CHROMIUM TOTAL	0.05	mg/l	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.024		0.22		0.010		0.010	U
LEAD	0.025	mg/l	0.0050	U	0.0050	U	0.0050	U	0.0100	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
MANGANESE	0.3	mg/l	0.0030	U	0.0030	U	0.0190		0.003	U	0.0047	U	0.0035	U	0.003	U	0.0030	U	0.0100	U	0.0034		0.003	U	0.120		0.089	
MERCURY	0.0007	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.02000	U	0.0002	U	0.0002	U	0.0002	U	0.00020	U
PH	between 6.5 to 8.5	S.U	6.87		6.99		6.89		6.96		6.85		6.51		7.39		7.70		7.25		7.38		7.56		7.70		8.9	
POTASSIUM	-	mg/l	0.50	U	0.50	U	0.55		0.50	U	0.50	U	0.50	U	0.50	U	0.58		1		0.5	U	1.1		0.77		0.83	
SELENIUM	0.01	mg/l	0.0039		0.0023		0.0010	U	0.0250	U	0.025	U	0.025	U	0.025	U	0.025	U	0.02	U	0.025	U	0.025	U	0.025	U	0.025	U
SODIUM	20	mg/l	30.5		23.8	-	29.0		24.1		22.2	4	23.8	↓	25.4	<u> </u>	37.3	\vdash	42.1		54.2		40.6		46.6		47.1	igspace
SPECIFIC CONDUCTANCE SULFATE	250	Umhos/cm	1095 143	-	999 155	-	1069 154		1055 147	-	1177 147	+-	1131 148	-	1125 141	-	1322		1195 180	-	1324 207		997 318		1310 175.0		1300 162	-
TEMPERATURE	250	mg/l oF	56.84	_	49.46	_	56.32		57.02		42.98	+-	48.38	+	53.6	 	190 52	-	50.36	_	51.2		49.4		64.0		59.5	$\overline{}$
TOTAL DISSOLVED SOLIDS	not to exceed 500	ma/l	802	-	702	-	735	-	731	—	749	+-	669	-	669	1	838	\vdash	761	-	917		606		803.0	-	896	\vdash
TOTAL ORGANIC CARBON	-	mg/l	2.0	 	2.9	 	2.8		5.0		2.6	+	1.9	+	2.1	 	1.9	\vdash	2.4	 	3.0		3.4		2.8		2.9	$\overline{}$
TURBIDITY	not exceed 5	N.T.U	2.40		1.87		3.56		0.92		1.07		1.82	1	1.55		1.5		2.3		1.04		0.95		1.01		2.34	



Quarter	Class GA Standard ⁽¹⁾	Units	2nd H/12	Qual.	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.	2023	Qual.
	Standard																											
												Well 3	BR			-												
1,1,1,2-Tetrachloroethane	5.0	ug/l		T	1.0	U	1.0	U	1.0	U	1.0	TU	1.0	U	1.0	101	1.0	101	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	5.0	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ū	1.0	Ü
1.1.2.2-Tetrachloroethane	5.0	ug/l			1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1.1.2-Trichloroethane	1.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1.1-Dichloroethane	5.0	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U*+
1,1-Dichloroethene	5.0	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ū	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U
1,2,3-Trichloropropane	0.04	ug/l	· ·		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	0.04	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü
1,2-Dibromoethane	5.0	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü
1,2-Dichlorobenzene	3.0	ug/l	· ·		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	0.6	ug/l	-		1.0	Ü	1.0	Ū	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ú	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü
1,2-Dichloropropane	1.0	ug/l	-	1	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ŭ	1.0	Ü	1.0	Ü	1.0	Ū	1.0	Ü	1.0	Ü	1.0	Ū	1.0	Ü
1,4-Dichlorobenzene	3.0	ug/l	-	1	1.0	Ŭ	1.0	Ŭ	1.0	Ũ	1.0	Ü	1.0	Ŭ	1.0	ŭ	1.0	Ŭ	1.0	ŭ	1.0	Ü	1.0	Ü	1.0	Ŭ	1.0	Ũ
2-Butanone / Methyl Ethyl Ketone	-	ug/l	-	1	10	Ũ	10	Ũ	10	Ū	10	Ū	10	Ũ	10	ŭ	5.0	Ũ	5.0	Ũ	10.0	Ū*	10.0	U*+	10.0	U*+	10	U*+
2-Hexanone	-	ug/l	-	1	5.0	Ŭ	5.0	Ŭ	5.0	Ü	5.0	Ü	5.0	Ŭ	5.0	ŭ	5.0	Ŭ	5.0	Ŭ	5.0	Ü	5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone / Methyl Isobutyl		-				T		T		T		1		1		1 1		1		1								
Ketone Acetone	-	ug/l	-	1	5.0	U	5.0 10.0	U	5.0 10.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U*+	5.0	U
Acetonitrile	-	ug/l	- :	_	40.0	Ü	40.0	Ü	15.0	Ü	15	ii ii	15	Ü	15	l ü	10	Ü	10	Ü	15	Ü	15	Ü	15.0	IJ	15	l ü
	1	ug/l		_	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	-	1.0	Ü	1.0	Ιΰ	1.0	Ü	1.0	Ü	1.0	U	1.0	Ü
Benzene Brom achlaramethana	5.0		- :	+	1.0	Ü				_		Ü		Ü	1.0	l U			1.0				1.0		1.0			l ü
Bromochloromethane	5.0	ug/l	- : -	-	1.0	_	1.0	U	1.0	U	1.0	U	1.0	Ü	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	Ü
Bromodichloromethane		ug/l		-		U				-				-		-										_		U*1
Bromoform	-	ug/l	- :	-	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromomethane Carbon Disulfide	60	ug/l		_	1.0	Ü	1.0	Ü	1.0	-	1.0	U	1.0		1.0	l U	1.0	T U	1.0	U	1.0	Ü	1.0	U	1.0	Ü	1.0	HÜ
Carbon Tetrachloride	5.0	ug/l ug/l		_	1.0	Ü	1.0	Ü	1.0	U	1.0	Ü	1.0	U	1.0	l U	1.0	Ü	1.0	Ιΰ	1.0	Ü	1.0	Ü	1.0	U	1.0	Ü
Chlorobenzene	5.0	ug/l	- :	+	1.0	Ü	1.0	Ü	1.0	U	1.0	Ü	1.0	Ü	1.0	U	1.0	Ü	1.0	Ü	1.0	U	1.0	Ü	1.0	U	1.0	Ü
	5.0			+		_						Ü			1.0		1.0			Ηŭ		Ü	1.0	Ü	1.0	l ü		Ü
Chloroethane Chloroform	7.0	ug/l	-	_	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	Ιΰ	1.0	U	1.0	Ü	1.0	T U	1.0	l ü
	7.0	ug/l	- : -	+	1.0	Ü		Ü	1.0	Ü			1.0	Ü	1.0	_			1.0		1.0	Ü	1.0	Ü	1.0	U		
Chloromethane cis-1,2-Dichloroethene	5.0	ug/l		+	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U		Ü	_	U	1.0	U	1.0	U			1.0		1.0	l Ü	1.0	U*+ U
cis-1,3-Dichloropropene	5.0	ug/l ug/l	-	+	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U	1.0	U	1.0	U	1.0	l ü	1.0	U*+
Dibromochloromethane		ug/l	- :	+-	1.0	υ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	l ŭ l	1.0	Ü	1.0	Ιΰ	1.0	l ü	1.0	l ü	1.0	l ü	1.0	U
Dibromomethane	5.0	ug/I	- : -	-	1.0	Ü	1.0	U	1.0	Ü	1.0	II	1.0	Ü	1.0	_	1.0	U	1.0	Ü	1.0	U	1.0	Ü	1.0	U	1.0	Ü
Ethylbenzene	5.0	ug/I		+	1.0	_	1.0	U	1.0	_	1.0	111	1.0	Ü	1.0	U	1.0	U	1.0	Ü	1.0	U	1.0	U	1.0	l ii	1.0	Ü
lodomethane	5.0	ug/I		+-	1.0	U	1.0	Ü	1.0	U	1.0	U	1.0	Ü	1.0	l U	1.0	Ü	1.0	Ü	1.0	U	1.0	U*+	1.0	Ü	1.0	Ü
m/p-Xylenes		ug/l		+-	2.0	Ü	2.0	Ü	2.0	Ü	2.0	Ü	2.0	Ü	2.0	HüH	1.0	Ü	1.0	Ιΰ	2.0	Ü	2.0	U	2.0	U	2.0	Ü
	5.0			+-	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	_	1.0	Ü	1.0	U	1.0	Ü	1.0	Ü
Methylene chloride o-Xylene	5.0	ug/l ug/l	- :	+-	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	l ü	1.0	Ü	1.0	U	1.0	Ü	1.0	Ü	1.0	l ü	1.0	l ü
Styrene	5.0	ug/l	- : -	+-	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	l ö l	1.0	Ü	1.0	Ιΰ	1.0	Ü	1.0	Ü	1.0	U	1.0	l ü
Tetrachloroethene	5.0	ug/I		+	1.0	Ü	1.0	U	1.0	Ü	1.0	Ü	1.0	Ü	1.0	T U	1.0	U	1.0	Ü	1.0	U	1.0	Ü	1.0	U	1.0	Ü
Toluene	5.0	ug/l	- :	+-	1.0	Ü	1.0	Ü	1.0	II	1.0	1 11	1.0	Ü	1.0	l ii	1.0	ii ii	1.0	Ιυ	1.0	 	1.0	l ü	1.0	l ii	1.0	Ü
trans-1,2-Dichloroethene	5.0	ug/l	- : -	+-	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ιΰ	1.0	Ü	1.0	Ü	1.0	l ü	1.0	l ü
trans-1,3-Dichloropropene	0.4	ug/l	-	+	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ιΰ	1.0	l ŭ l	1.0	Ü	1.0	Ηŭ	1.0	Ü	1.0	Ü	1.0	l ü	1.0	l ü
trans-1,4-Dichloro-2-butene	5.0		- :	+-	5.0	Ü	5.0	Ü	1.0	111	1.0	1 11	1.0	Ü	1.0	Ü	1.0	Ü	2.5	υ	1.0	Ü	1.0	U	1.0	Ü	1.0	U*1
Trichloroethene	5.0	ug/l		+	1.0	Ü	1.0	U	1.0	U	1.0	1 11	1.0	Ü	1.0		1.0	U	1.0	U	1.0	U	1.0	U	1.0	l ü	1.0	U
Trichlorofluoromethane	5.0	ug/l ug/l		+-	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U	1.0	Ü	1.0	U	1.0	Ü	1.0	ΙÜ	1.0	Ü	1.0	U	1.0	l ü	1.0	l ü
	5.0	ug/l		+-	5.0	H	5.0	Ü	5.0		5.0	111	5.0	Ü	5.0	1 11	2.0	1 H	2.0	υ	5.0	 	5.0	Ü	5.0	U*+	5.0	U*+
Vinyl acetate Vinyl chloride	- 2	ug/I		+	1.0	Ü	1.0	U	1.0	U	1.0	U	1.0	Ü	1.0	Ü	1.0	H ii	1.0	Ü	1.0	U	1.0	Ü	1.0	U"+	1.0	U"+
vinyi chichae		ug/i		_	1.0	U	1.0	U	1.0	U	1.0	Į U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U



Quarter	Class GA Standard ⁽¹⁾	Units	2nd H/12	Qual.	. 1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.	2023	Qual.
												Nell 5	R															
SAMPLE DATE		NA	10/18/2012		4/26/2013		10/25/2013	-	5/13/2014		4/23/2015	-	4/28/2016		4/27/2017		5/11/2018		5/8, 9, 17/2019		5/19/2020		4/9/2021	-	8/23/2022		7/19/2023	
TOP OF CASING ELEVATION	-	Feet	601.67		601.67		601.67		601.67		601.67		601.67		601.67		601.67		601.67		601.67		601		601.67		601.67	
WATER LEVEL	-	Feet	8.44		5.07		6.35		5.51		5.44		6.74		5.25		5.51		4.98		5.46		6.32		8.26		7.52	
WATER ELEVATION (BEFORE PURGE)	-	Feet	596.25		596.25		596.25		596.25		596.23		594.93		596.42		596.16		596.69		596.21		594.68		593.41		594.15	
WELL BOTTOM	-	Feet	19.75		19.75		19.75		19.75		19.74		19.74		19.74		19.74		19.74		19.74		19.74		19.85		19.85	
ARSENIC	0.025	mg/l	0.010	U	0.010	U	0.010	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.02	U	0.015	U	0.015	U	0.015	U	0.015	U
BARIUM	1	mg/l	0.07		0.064		0.063		0.053		0.043		0.056		0.049		0.055		0.054		0.067	*	0.094		0.076		0.083	
BORON, (TOTAL)	1	mg/l	0.19		0.18		0.20		0.18		0.18		0.17		0.17		0.19		0.17		0.17		0.19		0.16		0.19	
BROMIDE		mg/l	3.00		0.7		1.30		1.0		0.84		0.98		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	
CHEMICAL OXYGEN DEMAND		mg/l	29.3		15.8		25.7		27.1		12.8		10.0		10.0	U	19.3		14.9		14.8		33.4		24.8		17.4	
CHLORIDE	-	mg/l	96.0		94.9		94.7		80.6		92.8		85.6		82.7		84.7		82		84.0		94.6		81.9		89.4	
CHROMIUM	0.05	mg/l	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0100	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U
Eh		M.Volts	97		120		144		135		110		115		218		80		169		96.0		7.0		92		67	
HEXAVALENT CHROMIUM TOTAL	0.05	mg/l	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.016		0.010	U	0.010	U	0.010	U
LEAD	0.025	mg/l	0.0050	U	0.0050	U	0.0050	U	0.0100	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
MANGANESE	0.3	mg/l	0.02		0.010		0.370		0.01		0.0160		0.0190		0.0039		0.018		0.03		0.091		0.3		0.17		0.12	
MERCURY	0.0007	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U
PH	between 6.5 to 8.5	S.U	7.99		7.86		7.70		7.85		7.87		7.78		7.92		8.22		8.22		7.91		8.05		7.98		9.10	
POTASSIUM		mg/l	30.1		25.8		24.3		20.8		18.5		20.1		18.8		20.3		21.5		21.7		22.6		20.8		22.2	
SELENIUM	0.01	mg/l	0.0010	U	0.0010	U	0.0010	U	0.0250		0.025	U	0.025	U	0.025	U	0.025	U	0.02	U	0.025	U	0.025	U	0.025	U	0.025	U
SODIUM	20	mg/l	75.3		75.1		88.5		68.5		67.7		70.3		68.3		77.1		81.4		70.0		78.1		71.3		71.9	
SPECIFIC CONDUCTANCE		Umhos/cm	847		818		857		825		851		886		861		920		882		905.8		1025		914		957	
SULFATE	250	mg/l	183		178		183		157		157		164		167		182		180		159		166		150		155	
TEMPERATURE	-	°F	56.12		50.36		53.96		56.12		44.96		48.20		51.26		50.2		51.26		49.8		54.1		64.1		56.6	
TOTAL DISSOLVED SOLIDS	not to exceed 500	mg/l	629		552		587		545		490		531		531		554		544		487		633		309		664	
TOTAL ORGANIC CARBON	-	mg/l	5.3		5.1		6.4		5.8		5.4		4.5		4.6		4.9		5.7		6.2		5.9		6.5		6.7	
TURBIDITY	not exceed 5	N.T.U	1.79		2.71		2.91		2.68		1.07		1.29		0.93		1.5		2.2		3.44		0.41		1.07		4.20	



Table 1

Water Quality Analytical Summary

CC Metals and Alloys, LLC

Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard ⁽¹⁾	Units	2nd H/12	Qual.	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.	2023	Qual.
		-										Well 5	R	-						_		-	-					
1.1.1.2-Tetrachloroethane	5.0	ug/l			1.0	U	1.0	U	1.0	U	1.0	101	1.0	TU	1.0	TUT	1.0	U	1.0	TU	1.0	U	1.0	U	1.0	T U	1.0	U
1,1,1-Trichloroethane	5.0	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü
1,1,2,2-Tetrachloroethane	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1.1.2-Trichloroethane	1.0	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ū	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü
1.1-Dichloroethane	5.0	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü
1.1-Dichloroethene	5.0	ug/l	-		1.0	Ù	1.0	Ù	1.0	Ù	1.0	Ü	1.0	Ù	1.0	Ú	1.0	Ù	1.0	Ú	1.0	Ü	1.0	Ú	1.0	Ú	1.0	Û
1,2,3-Trichloropropane	0.04	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	0.04	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromoethane	5.0	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U*+
1,2-Dichlorobenzene	3.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	0.6	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloropropane	1.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,4-Dichlorobenzene	3.0	ug/l	-		1.0	Ü	1.0	Ŭ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	Ü	1.0	Ŭ	1.0	Ü
2-Butanone / Methyl Ethyl Ketone	-	ug/l	-		10	Ü	10	Ü	10	Ü	10	Ü	10	Ü	10	Ü	10	Ü	10	Ü	10.0	Ü	10.0	U*+	10.0	U*+	10	U*+
2-Hexanone	-	ug/l	-		5.0	Ü	5.0	Ū	5.0	Ü	5.0	Ü	5.0	Ü	5.0	Ü	5.0	Ü	10.0	Ü	10.0	Ü	5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone / Methyl Isobutyl Ketone	-	ug/l	-		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	10.0	U	5.0	U	5.0	U*1	5.0	U
Acetone		ug/l	-	-	10.0	U	10.0	U	10.0	U	10	U	10	U	10	U	5	U	10	U	10.0	U	10.0	U	10.0	U	10	U
Acetonitrile	-	ug/l	-		40.0	Ũ	40.0	Ŭ	15.0	Ū	15	Ü	15	Ŭ	15	ŭ	10	Ŭ	20	Ü	15.0	Ŭ	15.0	Ŭ	15.0	Ū	15	Ŭ
Benzene	1	ug/l	-	1	1.0	Ũ	1.0	ŭ	1.0	Ū	1.0	Ü	1.0	Ū	1.0	ŭ	1.0	Ŭ	1.0	ŭ	1.0	Ŭ	1.0	Ū	1.0	Ū	1.0	Ŭ
Bromochloromethane	5.0	ug/l		_	1.0	ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	l ŭ l	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	ŭ	1.0	Ü	1.0	Ŭ
Bromodichloromethane	-	ug/l	-		1.0	Ũ	1.0	Ŭ	1.0	Ū	1.0	Ū	1.0	Ū	1.0	ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ū	1.0	ŭ	1.0	Ŭ
Bromoform	-	ug/l	-		1.0	Ũ	1.0	ŭ	1.0	Ū	1.0	Ü	1.0	Ŭ	1.0	ŭ	1.0	Ŭ	1.0	Ũ	1.0	Ŭ	1.0	Ū	1.0	Ū	1.0	U*1
Bromomethane		ug/l	-	1	1.0	Ü	1.0	Ü	1.0	ŭ	1.0	ii	1.0	Ü	1.0	l ii	1.0	Ŭ	1.0	Ιŭ	1.0	ŭ	1.0	Ü	1.0	Ü	1.0	Ŭ.
Carbon Disulfide	60	ug/l		_	1.0	ŭ	1.0	Ŭ	1.0	ŭ	1.0	Ŭ	1.0	ŭ	1.0	l ŭ l	1.0	Ŭ	1.0	ŭ	1.0	i ŭ	1.0	ŭ	1.0	l ŭ	1.0	Ŭ
Carbon Tetrachloride	5.0	ug/l	-	<u> </u>	1.0	Ũ	1.0	ŭ	1.0	Ū	1.0	Ū	1.0	Ŭ	1.0	ŭ	1.0	Ŭ	1.0	υ	1.0	Ŭ	1.0	Ū	1.0	Ū	1.0	Ŭ
Chlorobenzene	5.0	ug/l	-		1.0	ŭ	1.0	Ü	1.0	Ū	1.0	Ü	1.0	Ū	1.0	ŭ	1.0	Ŭ	1.0	υ	1.0	Ŭ	1.0	Ū	1.0	ŭ	1.0	Ŭ
Chloroethane	5.0	ug/l	-	_	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	l ŭ l	1.0	Ŭ	1.0	Ιŭ	1.0	l ŭ	1.0	Ŭ	1.0	Ü	1.0	Ŭ
Chloroform	7.0	ug/l	-		1.0	Ũ	1.0	Ιŭ	1.0	Ū	1.0	Ü	1.0	Ū	1.0	l ŭ	1.0	Ιŭ	1.0	Ť	1.0	Ŭ	1.0	Ū	1.0	l ũ	1.0	Ŭ
Chloromethane		ug/l	-	 	1.0	ŭ	1.0	Ŭ	1.0	Ũ	1.0	Ū	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	υ	1.0	Ŭ	1.0	Ū	1.0	Ū	1.0	U*+
cis-1.2-Dichloroethene	5.0	ug/l	-	_	1.0	Ü	1.0	Ŭ	1.0	Ū	1.0	Ĭ	1.0	Ū	1.0	ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ü
cis-1,3-Dichloropropene	-	ug/l	-	_	1.0	ŭ	1.0	Ŭ	1.0	ŭ	1.0	ŭ	1.0	Ŭ	1.0	ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	l ŭ	1.0	Ŭ	1.0	l ŭ	1.0	U*+
Dibromochloromethane	-	ug/l	-	_	1.0	Ũ	1.0	Ū	1.0	Ū	1.0	Ū	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	υ	1.0	ŭ	1.0	Ŭ	1.0	ŭ	1.0	Ü
Dibromomethane	5.0	ug/l	-		1.0	Ũ	1.0	Ü	1.0	Ū	1.0	Ū	1.0	Ū	1.0	ŭ	1.0	Ũ	1.0	υ	1.0	Ŭ	1.0	Ū	1.0	ŭ	1.0	Ŭ
Ethylbenzene	5.0	ug/l	-		1.0	Ũ	1.0	ŭ	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ū	1.0	Ū	1.0	Ŭ
Iodomethane	-	ug/l	-	_	1.0	ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	l ŭ l	1.0	Ιŭ	1.0	ŭ	1.0	Ŭ	1.0	U*+	1.0	Ü	1.0	Ŭ
m/p-Xylenes	-	ug/l		_	2.0	Ũ	2.0	Ŭ	2.0	Ũ	2.0	Ū	2.0	Ũ	2.0	Ιŭ	1.0	Ŭ	2.0	υ	2.0	Ŭ	2.0	U	2.0	ŭ	2.0	Ŭ
Methylene chloride	5.0	ug/l	-	_	1.0	Ũ	1.0	ŭ	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	ŭ	1.0	Ŭ	5.0	Ŭ	1.0	Ŭ	1.0	Ū	1.0	ŭ	1.0	Ŭ
o-Xvlene	-	ug/l	-	_	1.0	ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	ŭ	1.0	Ιŭ	1.0	l ŭ l	1.0	Ιŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	l ŭ	1.0	Ŭ
Styrene	5.0	ug/l		_	1.0	Ũ	1.0	ŭ	1.0	Ũ	1.0	Ũ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	υ	1.0	Ŭ	1.0	Ũ	1.0	Ŭ	1.0	Ŭ
Tetrachloroethene	-	ug/l		1	1.0	Ü	1.0	Ü	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	Ŭ
Toluene	5.0	ug/l	-	+	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	ii	1.0	l ii	1.0	ĭi	1.0	Ŭ	1.0	ŭ	1.0	l ŭ	1.0	Ü	1.0	l ŭ	1.0	Ŭ
trans-1,2-Dichloroethene	5.0	ug/l		_	1.0	ŭ	1.0	Ü	1.0	ŭ	1.0	Ü	1.0	Ŭ	1.0	ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	Ŭ
trans-1.3-Dichloropropene	0.4	ug/l	-	 	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	l ŭ l	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	ŭ	1.0	l ŭ	1.0	Ŭ
trans-1,4-Dichloro-2-butene	5.0	ug/l	-	-	5.0	ŭ	5.0	υ	5.0	ŭ	1.0	Ü	1.0	Ιŭ	1.0	l ŭ l	1.0	Ιŭ	2.5	l ŭ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U*1
Trichloroethene	5.0	ug/l	-	1	1.0	ŭ	1.0	Ü	1.0	ŭ	1.0	Ü	1.0	Ŭ	1.0	l ŭ	1.0	l ŭ	1.0	Ιŭ	1.0	l ŭ	1.0	ŭ	1.0	l ü	1.0	Ü
Trichlorofluoromethane	5.0	ug/l	-	+	1.0	Ŭ	1.0	ΙŬ	1.0	Ιŭ	1.0	Ü	1.0	Ιŭ	1.0	l ŭ l	1.0	l ŭ	1.0	Ü	1.0	Ιŭ	1.0	Ŭ	1.0	l ü	1.0	Ŭ
Vinvl acetate	-	ug/l		+	5.0	Ü	5.0	Ü	5.0	Ü	5.0	l ii	5.0	Ü	5.0	l ii l	2.0	Ü	2.0	Ιΰ	5.0	Ü	5.0	Ü	5.0	U*+	5.0	U*+
Vinyl chloride	2	ug/l	- :	-	1.0	Hi	1.0	Ü	1.0	Ü	1.0	1 11	1.0	Ü	1.0	 	1.0	 	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U	1.1	 "
viriyi dilidilde		ug/i			1.0	U	1.0	U	1.0	U	1.0	ı u	1.0	U	1.0	U	1.0	U	1.0	U U	1.0	U	1.0	U	1.0		1.1	



Table 1

Quarter	Class GA Standard ⁽¹⁾	Units	2nd H/12	Qual.	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.	2023	Qual.
S												Vell 1	2															
SAMPLE DATE		NA	10/18/2012		4/26/2013		10/25/2013	-	5/13/2014		4/23/2015		4/28/2016		4/28/2017		5/11/2018		5/8, 9, 17/2019		5/19/2020		4/9/2021	-	8/23/2022		7/19/2023	
TOP OF CASING ELEVATION	-	Feet	597.71		597.71		597.71		597.71		597.71		597.71		597.71		597.71		597.71		597.71		597.71		597.71		597.71	
WATER LEVEL	-	Feet	10.05		8.02		9		8.29		7.95		8.35		8.18		8.22		7.71		8.26		9.05		9.86		9.28	
WATER ELEVATION (BEFORE PURGE)	-	Feet	587.66		589.69		588.71		589.42		589.76		589.36		589.53		589.49		590.00		589.45		588.66		587.85		588.43	
WELL BOTTOM	-	Feet	19.65		19.65		19.65		19.65		19.65		19.65		19.65		19.65		19.65		19.65		19.65		20.12		20.12	\Box
ARSENIC	0.025	mg/l	0.010	U	0.010	U	0.010	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.02	U	0.015	U	0.015	U	0.015	U	0.015	U
BARIUM	1	mg/l	0.039		0.038		0.038		0.040		0.036		0.042		0.045		0.046		0.04		0.042	^	0.051		0.043		0.048	
BORON, (TOTAL)	1	mg/l	0.20		0.19		0.19		0.17		0.17		0.18		0.13		0.18		0.15		0.16		0.017		0.14		0.16	\Box
BROMIDE	-	mg/l	0.59		0.20		0.20	U	0.20	U	2.00	U	0.20	U	0.20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CHEMICAL OXYGEN DEMAND		mg/l	18.7		12.0		15.9		20.1		10.0		10.0		10.0	U	10.0	U	10.0	U	10	U	14.1		10	U	10.0	U F1
CHLORIDE	-	mg/l	100		137		107		108		108		144		110		169		160		140		144		122		126	
CHROMIUM	0.05	mg/l	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.021		0.0040	U	0.0100	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U
Eh		M.Volts	-67		181		142		186		136		149		168		92		113		98		37		8		77	
HEXAVALENT CHROMIUM TOTAL	0.05	mg/l	0.010	U	0.010	U	0.010	C	0.010	U	0.010	U	0.010	U	0.02		0.010	U	0.010	U	0.020		0.010	U	0.010	U	0.010	U
LEAD	0.025	mg/l	0.0050	U	0.0050	U	0.0050	С	0.0100	U	0.010	U	0.010	U	0.04		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
MANGANESE	0.3	mg/l	0.300		0.01		0.097		0.009		0.0160		0.0160		0.03		0.071		0.046		0.20		0.24		0.21		0.22	
MERCURY	0.0007	mg/l	0.00020	U	0.00020		0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.0002	U	0.00020	U
PH	between 6.5 to 8.5	S.U	6.74		7.22		7.00		7.19		7.20		7.39		7.57		7.71		7.3		7.46		7.18		7.51		8.08	
POTASSIUM		mg/l	4.7		4.7		5.3		4.0		4.2		4.6		2.6		4.6		5.1		4.0		4.6		3.8		4.1	
SELENIUM	0.01	mg/l	0.0010	U	0.0010	U	0.0010	С	0.0250	U	0.025	U	0.025	U	0.025	U	0.025	U	0.02	U	0.025	U	0.025	U	0.025	U	0.025	U
SODIUM	20	mg/l	70.9		75.5		77.5		61.6		58.3		77.7		75.6		94.0		88.9		77.9		83.8		79.9		82.6	
SPECIFIC CONDUCTANCE		mg/l	1116		1144		1080		1204		1162		1294		1051		1218		1332		1294		1364		1275		1307	
SULFATE	250	mg/l	117		147		117		142		127		135		176		160		150		128		128		102		109	
TEMPERATURE	-	F	57.02		50.00		52.5		60.4		46.9		49.5		53.06		51.26		52.16		51.4		52.7		62.5		56.3	
TOTAL DISSOLVED SOLIDS	not to exceed 500	mg/l	805		829		727		854		755		774		723		818		886		1000		785		664		869	
TOTAL ORGANIC CARBON	-	mg/l	2.0		2.6		2.6		3.6		2.7		2.1		3.6		2.4		2.8		2.6		3.2		2.7		3.0	
TURBIDITY	not exceed 5	N.T.U	1.85		2.87		4.02		2.71		1.67		1.78		2.35		1.8		2.1		5.57		12.6		7.28		10.40	



Table 1

Water Quality Analytical Summary

CC Metals and Alloys, LLC

Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard ⁽¹⁾	Units	2nd H/12	Qual.	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.	2023	Qual.
										-		Well 1	2	-			-	_		-		1	_				_	
1.1.1.2-Tetrachloroethane	5.0	ua/l		T	1.0	U	1.0	T U I	1.0	TU	1.0	1 11 1	1.0	TU	1.0	TUT	1.0	101	1.0	TU	1.0	1 0	1.0	1 0	1.0	T U	1.0	U
1.1.1-Trichloroethane	5.0	ug/l		1	1.0	Ũ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ŭ	1.0	l ŭ l	1.0	ÍÙÍ	1.0	ŤŨ	1.0	Ü	1.0	ĺŬ	1.0	ĺŮ	1.0	ĺŬ
1,1,2,2-Tetrachloroethane	5.0	ug/l	-		1.0	Ū	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ú	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü
1.1.2-Trichloroethane	1.0	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ū	1.0	Ü	1.0	Ú	1.0	Ü	1.0	Ü
1.1-Dichloroethane	5.0	ug/l	-	1	1.0	Ü	1.0	Ŭ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	Ü	1.0	U*+
1.1-Dichloroethene	5.0	ug/l	-		1.0	Ũ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	U
1,2,3-Trichloropropane	0.04	ug/l	-		1.0	Ú	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ú	1.0	Ü	1.0	Ú	1.0	Ü	1.0	Ú	1.0	Ü	1.0	Ü
1,2-Dibromo-3-chloropropane	0.04	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	2.0	Ú	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü
1,2-Dibromoethane	5.0	ug/l		1	1.0	Ũ	1.0	Ŭ	1.0	Ũ	1.0	Ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ
1,2-Dichlorobenzene	3.0	ug/l	-		1.0	Ú	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ú	1.0	Ü	1.0	Ū	1.0	Ü	1.0	Ú	1.0	Ü	1.0	Ü
1,2-Dichloroethane	0.6	ug/l	-		1.0	Ũ	1.0	Ŭ	1.0	Ū	1.0	Ü	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ū	1.0	Ŭ	1.0	Ŭ
1,2-Dichloropropane	1.0	ug/l	-	1	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ť	1.0	Ŭ	1.0	l ŭ	1.0	Ŭ	1.0	ΙŬ	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	Ŭ
1.4-Dichlorobenzene	3.0	ug/l	-	$\overline{}$	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	l ŭ l	1.0	Ü	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ
2-Butanone / Methyl Ethyl Ketone	-	ug/l	-		10	ŭ	10	Ŭ	10	Ũ	10	Ŭ	10	Ŭ	10	l ŭ	5.0	Ŭ	10.0	Ŭ	10.0	Ŭ	10.0	U*+	10.0	U*+	10	U*+
2-Hexanone	-	ug/l	-	_	5.0	Ü	5.0	Ŭ	5.0	Ü	5.0	Ü	5.0	Ŭ	5.0	Ιŭ	5.0	Ŭ	10.0	Ü	5.0	Ū	5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone / Methyl Isobutyl Ketone	-	ug/l	-		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetone		ug/l		+	10.0	U	10.0	U	10.0	U	10	Ш	10	U	10	U	5.0	U	10.0	U	10.0	U	10.0	U	10.0	U*1	10	U
Acetonic		ug/l		+	40.0	Ü	40.0	Ŭ	15.0	ŭ	15	l ii	15	Ŭ	15	Ιŭ	10.0	Ŭ	20.0	Ιŭ	15.0	Ŭ	15.0	Ü	15.0	U U	15	Ŭ
Benzene	1	ug/l		+	1.0	ŭ	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	ŭ	1.0	Ιŭ	1.0	Ιŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	l ŭ
Bromochloromethane	5.0	ug/l		+	1.0	ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	ŭ	1.0	Ιŭ	1.0	Ŭ
Bromodichloromethane	-	ug/l	-	+	1.0	Ŭ	1.0	Ιŭ	1.0	Ü	1.0	l ü	1.0	l ŭ	1.0	l ŭ	1.0	l ŭ	1.0	Ιŭ	1.0	υ	1.0	Ιŭ	1.0	l ü	1.0	l ü
Bromoform	-	ug/l	-	+	1.0	ŭ	1.0	υ	1.0	Ü	1.0	ŭ	1.0	ϋ	1.0	l ŭ	1.0	Ιŭ	1.0	ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	U*1
Bromomethane	-	ug/l		+	1.0	Ü	1.0	ŭ	1.0	l ii	1.0	l ii	1.0	ŭ	1.0	l ii l	1.0	ΰ	1.0	Ιŭ	1.0	ŭ	1.0	ŭ	1.0	l ü	1.0	T U
Carbon Disulfide	60	ug/l		+	1.0	ŭ	1.0	Ιŭ	1.0	ŭ	1.0	- ii	1.0	Ŭ	1.0	l ŭ	1.0	l ŭ	1.0	Ιŭ	1.0	Ü	1.0	ŭ	1.0	l ü	1.0	l ŭ
Carbon Tetrachloride	5.0	ug/l		+	1.0	ŭ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ü
Chlorobenzene	5.0	ug/l		+	1.0	ŭ	1.0	ŭ	1.0	ŭ	1.0	i ü	1.0	ŭ	1.0	l ŭ	1.0	Ιŭ	1.0	Ιŭ	1.0	Ŭ	1.0	υ	1.0	l ü	1.0	l ŭ
Chloroethane	5.0	ug/l	-	+	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ιŭ	1.0	l ŭ	1.0	l ŭ	1.0	Ιŭ	1.0	ť	1.0	Ŭ	1.0	l ŭ	1.0	l ŭ
Chloroform	7.0	ug/l	-	+	1.0	ŭ	1.0	ΙŬ	1.0	Ü	1.0	Ü	1.0	Ιŭ	1.0	l ŭ l	1.0	l ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ü	1.0	l ŭ	1.0	l ü
Chloromethane		ug/l	-	+	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	υ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	U*+
cis-1,2-Dichloroethene	5.0	ug/l	-	+	2.1	Ŭ	5.5	-	2.9	+ ů	3.3		2.0	Ť	1.0	l ii	3.1		1.3	+ -	1.5	+	5.1	⊢ Ŭ	3.3	L ~	3.1	
cis-1,3-Dichloropropene		ug/l	-	+	1.0	U	1.0	U	1.0	U	1.0	- 11	1.0	U	1.0	l ŭ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U*+
Dibromochloromethane		ug/l		+	1.0	ŭ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ü	1.0	Ü	1.0	U
Dibromomethane	5.0	ug/l	-	_	1.0	ŭ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	l ŭ
Ethylbenzene	5.0	ug/l		+	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ
Iodomethane	-	ug/l	-	_	1.0	ŭ	1.0	Ιŭ	1.0	ŭ	1.0	Ü	1.0	Ŭ	1.0	l ŭ l	1.0	l ŭ	1.0	ŭ	1.0	ŭ	1.0	U*+	1.0	l ŭ	1.0	Ü
m/p-Xylenes	-	ug/l	-	+	2.0	Ŭ	2.0	Ü	2.0	Ü	2.0	Ü	2.0	Ŭ	2.0	l ŭ	2.0	l ŭ	2.0	ΙŬ	2.0	Ŭ	2.0	Ü	2.0	Ü	2.0	l ŭ
Methylene chloride	5.0	ug/l		+	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	5.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ
o-Xvlene	-	ug/l	-	+	1.0	ŭ	1.0	Ŭ	1.0	ŭ	1.0	Ü	1.0	Ιŭ	1.0	l ŭ l	1.0	l ŭ	1.0	Ιŭ	1.0	ŭ	1.0	Ŭ	1.0	l ŭ	1.0	l ŭ
Styrene	5.0	ug/l	-	+	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	l ŭ	1.0	Ť	1.0	ΙŬ	1.0	Ť	1.0	Ŭ	1.0	Ŭ	1.0	l ŭ
Tetrachloroethene	-	ug/l		1	1.0	Ü	1.0	Ιŭ	1.0	Ŭ	1.0	l ü	1.0	Ιŭ	1.0	l ŭ	1.0	l ŭ	1.0	Ηŭ	1.0	υ	1.0	l ŭ	1.0	l ü	1.0	l ŭ
Toluene	5.0	ug/l		-	1.0	Ü	1.0	Ιŭ	1.0	Ü	1.0	l ii	1.0	l ii	1.0	l ŭ	1.0	l ŭ	1.0	Ŭ	1.0	ŭ	1.0	Ü	1.0	l ii	1.0	l ŭ
trans-1,2-Dichloroethene	5.0	ug/l	-	+	1.0	ŭ	1.0	Ιŭ	1.0	Ü	1.0	Ü	1.0	Ιŭ	1.0	l ŭ l	1.0	l ŭ l	1.0	ΙŬ	1.0	Ü	1.0	l ŭ	1.0	l ü	1.0	l ü
trans-1,3-Dichloropropene	0.4	ug/l	-	+	1.0	Ŭ	1.0	l ŭ	1.0	Ιŭ	1.0	l ŭ	1.0	Ιŭ	1.0	l ŭ l	1.0	l ŭ l	1.0	l ŭ	1.0	l ŭ	1.0	Ü	1.0	l ŭ	1.0	Ü
trans-1,4-Dichloro-2-butene	5.0	ug/l	-	-	5.0	Ü	5.0	Ιŭ	1.0	Ü	1.0	Ü	1.0	Ιŭ	1.0	l ŭ l	1.0	l ŭ	2.5	l ŭ	1.0	ŭ	1.0	Ü	1.0	i	1.0	U*1
Trichloroethene	5.0	ug/l	-	+	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ηŭ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U
Trichlorofluoromethane	5.0	ug/l	- :	+	1.0	Ŭ	1.0	l ŭ	1.0	Ü	1.0	l ŭ	1.0	Ιŭ	1.0	l ŭ l	1.0	l ŭ l	1.0	ΙŬ	1.0	Ü	1.0	l ŭ	1.0	l ü	1.0	Ü
Vinyl acetate	-	ug/l		-	5.0	Ü	5.0	Ιŭ	5.0	Ü	5.0	l ii	5.0	Ŭ	5.0	 ii 	2.0	l ŭ	2.0	l ŭ	5.0	ŭ	5.0	Ŭ	5.0	U*+	5.0	U*+
Vinyl acetate Vinyl chloride	2	ug/l	- :	+	1.0	l ii	7.4	l ŭ	1.0	Ü	1.0	 ii	1.0	Ü	1.0	 	2.8	+ -	1	+ -	1.0	Ü	25.0	–	18.0	 0 	18	+ + + +
viriyi Gilioflue		ug/i			1.0	U	7.4	U	1.0	U	1.0	U	1.0	U	1.0	U	2.0	\perp			1.0	U	20.0		10.0			



Table 1

Quarter	Class GA Standard ⁽¹⁾	Units	2nd H/12	Qual.	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.	2023	Qual.
											Sum	(Lea	chate)															
SAMPLE DATE	1	NA	10/18/2012		4/26/2013		10/25/2013		5/13/2014		4/23/2015	-	4/28/2016		4/27/2017		5/11/2018		5/8, 9, 17/2019		5/19/2020		4/9/2021	-	8/23/2022		7/19/2023	
TOP OF CASING ELEVATION	-	Feet	602.08		602.08		602.08		602.08		602.08		602.08		602.08		602.08		602.08		602.08		602.08		602.08		602.08	
WATER LEVEL	-	Feet	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
WATER ELEVATION (BEFORE PURGE)	-	Feet	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
WELL BOTTOM	-	Feet	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
ARSENIC	0.025	mg/l	0.010	U	0.012		0.010	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U										
BARIUM	1	mg/l	0.076		0.061		0.042		0.033		0.032		0.057		0.063		0.052		0.090		0.094	٨	0.092		0.053		0.069	
BORON, (TOTAL)	1	mg/l	0.38		0.35		0.26		0.02		0.21		0.32		0.28		0.31		0.40		0.44		0.41		0.27		0.44	
BROMIDE	-	mg/l	2.7		1.7		1.7		2.7		1.2		2.3		2.6		2.0		2.7		1.5		2.8		2		2.0	
CHEMICAL OXYGEN DEMAND	-	mg/l	34.0		27.5		20.3		30.2		13.1		11.6	F1	10	U	20		24.3		16.6		10	F1	21.7		29.3	
CHLORIDE	-	mg/l	133		150		81.6		103.0		91.5		70.6		160		119		180		143		174		135		122	
CHROMIUM	0.05	mg/l	0.110		0.03		0.037		0.004	U	0.019		0.037		0.012		0.011		0.029		0.41		0.18		0.056		0.041	
eH	-	M.Volts	108		135		83		128		112		105		164		75		55		71		185		144		126	
HEXAVALENT CHROMIUM TOTAL	0.05	mg/l	0.081		0.022		0.034		0.010	U	0.021		0.021		0.018		0.010	U	0.010	U	0.046		0.059		0.031		0.031	
LEAD	0.025	mg/l	0.0052		0.0050	J	0.0050	U	0.0100	U	0.010	U	0.017		0.012		0.01	U	0.010	U								
MANGANESE	0.30	mg/l	0.0420		0.007		0.0078		0.0520		0.016		0.016		0.035		0.041		0.18		0.27		0.44		0.067		0.0030	U
MERCURY	0.0007	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.0002	U	0.0002	U	0.00020	U	0.00020	U	0.0002	U	0.00020	U
pH	between 6.5 to 8.5	S.U	7.90		8.01		7.90		8.08		7.92		7.59		7.56		8.47		8.09		8.07		7.97		7.99		9.13	
POTASSIUM	-	mg/l	82.1		86.5		68.7		42.8		41.4		74.2		113		83.1		143		112		120		70.1		91.7	
SELENIUM	0.01	mg/l	0.030		0.012		0.003		0.0250	U	0.025	U	0.025	U	0.025	U	0.025	U	0.02	U	0.025	U	0.026		0.025		0.025	U
SODIUM	20	mg/l	66.5		72.8		47.2		45.1		40.6		74.0		73.7		68.3		112		85.3		96.6		52.5		74.1	
SPECIFIC CONDUCTANCE	-	Umhos/cm	1107	<u> </u>	1160		714		745		791		1202		1255		1083		1510		1476		1715		1330		1297	\vdash
SULFATE	250	mg/l	154		154		72		92.9		85.7		68.2		203		129		210		172		232		163		165	
TEMPERATURE	-	°F	60.26		45.68		53.60		53.1		43.88		45.50		50.54		56.12		52.7		50.6		55.9		67.6		62.9	L
TOTAL DISSOLVED SOLIDS	not to exceed 500	mg/l	834		778		443		480		456		681		781		648		1030		797		1050		601		869	
TOTAL ORGANIC CARBON	-	mg/l	9.0		7.0		5.2		6.5		5.8		6.8		7.0		6.1		9.6		9.7		11.4		9.2		9.0	
TURBIDITY	not exceed 5	N.T.U	2.50		2.27		1.76		1.72		0.92		1.48		1.03		1.8		2.2		10.26		7.64		1.37		2.76	



Quarter	Class GA	Units	2nd H/12	Qual.	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.	2023	Qual.
	Standard ⁽¹⁾																											
5											Sum	p (Lea	chate)														_	
1,1,1,2-Tetrachloroethane	5.0	ug/l		1	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.0	U
1,1,1-Trichloroethane	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.0	U
1,1,2,2-Tetrachloroethane	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.0	U
1,1,2-Trichloroethane	1.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.0	U
1,1-Dichloroethane	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.0	U*+
1,1-Dichloroethene	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.0	U
1,2,3-Trichloropropane	0.04	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.0	U
1,2-Dibromo-3-chloropropane	0.04	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1	U	1.0	U
1,2-Dibromoethane	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.0	U
1,2-Dichlorobenzene	3.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.0	U
1,2-Dichloroethane	0.6	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.0	U
1,2-Dichloropropane	1.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.0	U
1,4-Dichlorobenzene	3.0	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	2.0	Ü	2.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1	Ü	1.0	Ü
2-Butanone / Methyl Ethyl Ketone	-	ug/l	-		10	U	10	U	10	U	10	U	20	U	20	U	5.0	U	10.0	U	10.0	U	10.0	U*+	10	U*+	10	U*+
2-Hexanone	-	ug/l	-		5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	10.0	U	5.0	U	10.0	U	5.0	U	5.0	U	5	U	5.0	U
4-Methyl-2-pentanone / Methyl Isobutyl Ketone	-	ug/l	-		5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	10.0	U	5.0	U	10.0	U	5.0	U	5.0	U	5	U	5.0	U
Acetone	-	ug/l	-	_	10.0	U	10.0	U	10.0	U	10	U	20	U	20	U	5.0	U	10.0	U	10.0	U	10.0	U	10	U*1	10	U
Acetonitrile	-	ug/l	-	+	40.0	Ü	40.0	Ŭ	15.0	Ü	15	Ü	30	Ū	30	ŭ	10.0	Ü	20.0	Ü	15.0	Ü	15.0	Ŭ	15	U	15	Ŭ
Benzene	1	ug/l	-	+	1.0	Ŭ	1.0	Ü	1.0	υ	1.0	Ü	2.0	Ŭ	2.0	Ü	1.0	Ü	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1	Ü	1.0	Ŭ
Bromochloromethane	5.0	ug/l	-	_	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ü	2.0	Ŭ	2.0	l ŭ l	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1	Ŭ	1.0	l ŭ
Bromodichloromethane	-	ug/l	- -	+	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ü	2.0	Ŭ	2.0	Ü	1.0	Ü	1.0	Ιŭ	1.0	Ü	1.0	Ŭ	1	ŭ	1.0	Ü
Bromoform	-	ug/l	-	+	1.0	Ŭ	1.0	Ü	1.0	ŭ	1.0	Ü	2.0	Ŭ	2.0	Ιŭ	1.0	Ü	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1	Ü	1.0	U*1
Bromomethane		ug/l	-	+	1.0	ŭ	1.0	Ü	1.0	Ü	1.0	Ü	2.0	Ü	2.0	Ü	1.0	Ü	1.0	Ιŭ	1.0	Ü	1.0	Ü	1	ŭ	1.0	U.
Carbon Disulfide	60	ug/l	-	+	1.0	ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ü	2.0	Ŭ	2.0	ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ü	1.0	ŭ	1	ŭ	1.0	l ŭ
Carbon Tetrachloride	5.0	ug/l	-	_	1.0	ŭ	1.0	Ŭ	1.0	ŭ	1.0	Ü	2.0	Ŭ	2.0	ŭ	1.0	Ŭ	1.0	υ	1.0	Ū	1.0	Ū	1	ŭ	1.0	Ŭ
Chlorobenzene	5.0	ug/l	-	+	1.0	Ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ü	2.0	Ιŭ	2.0	Ü	1.0	Ŭ	1.0	Ιŭ	1.0	υ	1.0	Ŭ	1	ŭ	1.0	Ü
Chloroethane	5.0	ug/l	-	+	1.0	Ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ü	2.0	Ŭ	2.0	l ŭ l	1.0	Ŭ	1.0	Ιŭ	1.0	Ü	1.0	Ŭ	1	ŭ	1.0	l ŭ
Chloroform	7.0	ug/l	-	_	1.0	Ũ	1.0	Ŭ	1.0	Ũ	1.0	Ü	2.0	Ū	2.0	l ŭ	1.0	ŭ	1.0	Ιŭ	1.0	Ť	1.0	Ū	1	Ü	1.0	l ũ
Chloromethane		ug/l	- -	+	1.0	Ü	1.0	Ü	1.0	Ŭ	1.0	Ü	2.0	Ŭ	2.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1	Ü	1.0	U*+
cis-1.2-Dichloroethene	5.0	ug/l	-	+	1.0	ŭ	1.0	Ŭ	1.0	Ü	1.0	Ü	2.0	ŭ	2.0	Ü	1.0	Ü	1.0	Ιŭ	1.0	Ü	1.0	Ü	1	Ü	1.0	T U
cis-1,3-Dichloropropene	-	ug/l	-	+	1.0	ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	ŭ	2.0	Ŭ	2.0	Ιŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1	ŭ	1.0	U*+
Dibromochloromethane		ug/l	-	\vdash	1.0	Ü	1.0	Ū	1.0	Ü	1.0	Ü	2.0	Ù	2.0	Ú	1.0	Ü	1.0	Ú	1.0	Ü	1.0	Ü	1	Ü	1.0	U
Dibromomethane	5.0	ug/l	-		1.0	ŭ	1.0	ŭ	1.0	Ιŭ	1.0	Ū	2.0	Ū	2.0	ŭ	1.0	ŭ	1.0	υ	1.0	Ū	1.0	Ū	1	Ŭ	1.0	Ü
Ethylbenzene	5.0	ug/l	-	1	1.0	ŭ	1.0	Ŭ	1.0	Ŭ	1.0	ΙŪ	2.0	Ŭ	2.0	ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ū	1.0	Ū	1	ŭ	1.0	Ŭ
lodomethane	-	ug/l	-	1	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	2.0	Ŭ	2.0	Ü	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	U*+	1	Ŭ	1.0	l ŭ
m/p-Xylenes	-	ug/l	-	1	2.0	ŭ	2.0	Ŭ	2.0	Ŭ	2.0	Ū	4.0	Ŭ	4.0	Ιŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	2.0	U	2	Ŭ	2.0	Ü
Methylene chloride	5.0	ug/l	-	1	1.0	ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ū	2.0	Ŭ	2.0	ŭ	1.0	Ŭ	1.0	Ū	1.0	Ū	1.0	Ū	1	ŭ	1.0	Ŭ
o-Xvlene	-	ug/l	-	_	1.0	Ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	ΙŬ	2.0	Ιŭ	2.0	l ŭ l	1.0	Ŭ	1.0	Ιŭ	1.0	Ιŭ	1.0	Ŭ	1	Ü	1.0	l ŭ
Styrene	5.0	ug/l	-	_	1.0	ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ū	2.0	Ŭ	2.0	Ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1	Ŭ	1.0	Ü
Tetrachloroethene	-	ug/l	-	1	1.0	Ŭ	1.0	Ü	1.0	Ιŭ	1.0	Ü	2.0	Ŭ	2.0	Ü	1.0	Ü	1.0	Ιŭ	1.0	Ü	1.0	Ŭ	1	Ü	1.0	Ü
Toluene	5.0	ug/l	-	_	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ū	2.0	ŭ	2.0	ŭ	1.0	Ü	1.0	Ŭ	1.0	Ü	1.0	Ü	1	ŭ	1.0	Ŭ
trans-1,2-Dichloroethene	5.0	ug/l	-	1	1.0	Ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ü	2.0	Ŭ	2.0	l ŭ l	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1	Ŭ	1.0	Ü
trans-1.3-Dichloropropene	0.4	ug/l	-	_	1.0	Ũ	1.0	Ŭ	1.0	Ŭ	1.0	Ũ	2.0	Ũ	2.0	Ŭ	1.0	ŭ	1.0	υ	1.0	Ű	1.0	Ŭ	1	Ŭ	1.0	Ű
trans-1,4-Dichloro-2-butene	5.0	ug/l	-	-	5.0	ŭ	5.0	Ŭ	5.0	Ū	1.0	Ū	2.0	Ŭ	2.0	Ū	1.0	Ü	2.5	Ŭ	1.0	Ü	1.0	Ü	1	ŭ	1.0	U*1
Trichloroethene	5.0	ug/l	-	_	1.0	ŭ	1.0	Ü	1.0	Ü	1.0	T Ü	2.0	Ü	2.0	ŭ	1.0	Ü	1.0	Ιŭ	1.0	Ü	1.0	Ü	1	ŭ	1.0	U U
Trichlorofluoromethane	5.0	ug/l	-	-	1.0	ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ü	2.0	Ιŭ	2.0	l ŭ	1.0	Ιŭ	1.0	Ιŭ	1.0	Ü	1.0	ŭ	- i	Ŭ	1.0	Ü
Vinyl acetate	-	ug/l	-	_	5.0	Ŭ	5.0	Ŭ	5.0	Ŭ	5.0	Ü	10.0	ŭ	10.0	l ű l	2.0	Ü	2.0	Ŭ	5.0	Ü	5.0	Ü	5	U*+	5.0	U*+
Vinyl acctate Vinyl chloride	2	ug/l	-	+-	1.0	ŭ	1.0	Ŭ	1.0	ΙŬ	1.0	l ii	2.0	Ιŭ	2.0	l ŭ l	1.0	l ŭ	1.0	Ιŭ	1.0	l ü	1.0	Ŭ	<u> </u>	U	1.0	U
vinyi onionao		ug/i		_	1.0		0	U	1.0		1.0		2.0		2.0	, ,	7.0	Ü	0		0		0				0	



Table 1

Quarter	Class GA Standard ⁽¹⁾	Units	2nd H/12	Qual.	. 1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.	2023	Qual.
												BR-1																
SAMPLE DATE		NA	10/18/2012		4/26/2013		10/25/2013		5/13/2014		4/23/2015		4/28/2016		4/28/2017		5/11/2018		5/8, 9, 17/2019		5/19/2020		4/9/2021	-	8/23/2022		7/19/2023	
TOP OF CASING ELEVATION		Feet	603.79		603.79		603.79		603.79		603.79		603.79		603.79		603.79		603.79		603.79		603.79		603.79		605.52	
WATER LEVEL	-	Feet	13.19		10.59		11.52		10.44		10.52		10.63		10.34		10.43		9.90		10.51		11.28		12.65		11.95	
WATER ELEVATION (BEFORE PURGE)	-	Feet	590.60		593.20		592.27		593.35		593.27		593.16		593.45		593.36		593.89		593.28		592.51		591.14		593.57	
WELL BOTTOM	-	Feet	35.85		35.85		35.85		35.85		39.92		39.92		39.92		39.92		39.92		35.95		35.95		35.95		35.95	
ARSENIC	0.025	mg/l	0.010	U	0.010	U	0.010	U	0.015	U	0.02	U	0.015	U	0.015	U	0.0150	U	0.015	U								
BARIUM	1	mg/l	0.14		0.16		0.13		0.13		0.088		0.10		0.11		0.11		0.16		0.14	٨	0.12		0.10		0.11	
BORON, (TOTAL)	1	mg/l	0.13		0.15		0.13		0.15		0.12		0.13		0.12		0.14		0.12		0.12		0.12		0.10		0.11	
BROMIDE		mg/l	0.41		0.26		0.20	U	0.64		0.40		0.20	U	0.21		0.20	U	0.50	U	1.0	U	1.0	U	1.0	U	1.0	U
CHEMICAL OXYGEN DEMAND		mg/l	14.9		10.0	U	15.9		24.5		10.0		10.0	U/F1	10	U	100	U	11.4		14.6		24.7		12.70		10.0	U
CHLORIDE		mg/l	44.4		59.9		38.7		54.4		44.6		51.2		55.8		11.7		69		100		130		154.0		162	
CHROMIUM	0.05	mg/l	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0100	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U
eH		M.Volts	-125		151		117		48		114		32.000	U	159		13		49		44		144		40		-126	
HEXAVALENT CHROMIUM TOTAL	0.05	mg/l	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.025		0.010	U	0.010	U	0.010	U
LEAD	0.025	mg/l	0.0050	U	0.0050	U	0.0050	U	0.0100	U	0.010	U	0.01	U	0.01	U	0.010	U	0.010	U								
MANGANESE	0.3	mg/l	0.55		0.55		0.45		0.50		0.20		0.21		0.28		0.31		0.61		0.50		0.28		0.21		0.20	
MERCURY	0.0007	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U
pH	between 6.5 to 8.5	S.U	7.95		7.56		7.80		7.57		7.69		7.59		7.77		7.81		7.81		7.62		7.26		7.21		7.52	
POTASSIUM		mg/l	8.3		10.2		11.3		9.2		8.7		9.4	۸	9.0		8.7		10.9		7.9		6.1		5.0		5.1	
SELENIUM	0.01	mg/l	0.0010	U	0.0010	U	0.0010	U	0.0250	U	0.025	U	0.025	U	0.025	U	0.025	U	0.02	U	0.025	U	0.025	U	0.025	U	0.025	U
SODIUM	20	mg/l	38.1		39.9		37.3		37.0		30.9		36.2		38.3		41.7		52.1		49.6		77.2		90.1		99.2	
SPECIFIC CONDUCTANCE		Umhos/cm	495		563		419		549		450		488		482		565		431		701.4		1082		1224		1281	
SULFATE	250	mg/l	57.6		77.6		59.2		74.3		51.5		53.8		60.9		13.8		75		93.5		95.4		89.9		90.9	
TEMPERATURE	-	°F	57.38		51.98		53.60		56.12		49.1		50.2		52.88		51		52.34		50.5		53.2		56.8		56.1	
TOTAL DISSOLVED SOLIDS	not to exceed 500	mg/l	329		364		288		385		267		271		309		325		372		318		405		414		777	
TOTAL ORGANIC CARBON	-	mg/l	2.9		2.5		4.1		3.9		3.3		2.7		2.9		2.8		3.6		3.5		0.2		3.2		3.3	
TURBIDITY	not exceed 5	N.T.U	1.90	1	2.90		3.10	1	2.48	1	1.10		1.26		1.95		1.67		2		2.32		0.17		1.15		2.17	



Table 1

Water Quality Analytical Summary

CC Metals and Alloys, LLC

Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard ⁽¹⁾	Units	2nd H/12	Qual.	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.	2023	Qual.
												BR-1																
1,1,1,2-Tetrachloroethane	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U*+
1,1-Dichloroethene	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2,3-Trichloropropane	0.04	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	0.04	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromoethane	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichlorobenzene	3.0	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1.2-Dichloroethane	0.6	ug/l	-		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloropropane	1.0	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	1.0	U	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ū	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü
1,4-Dichlorobenzene	3.0	ug/l	-	1	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ũ	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	Ü	1.0	Ŭ	1.0	Ŭ
2-Butanone / Methyl Ethyl Ketone	-	ug/l	-	1	10	Ü	10	Ü	10	Ü	10	Ü	10	Ü	10	Ü	5	Ü	10	Ū	10.0	Ü	10.0	U*+	10.0	U*+	10	U*+
2-Hexanone	-	ug/l	-	1	5.0	Ŭ	5.0	Ŭ	5.0	Ŭ	5.0	Ü	5.0	Ŭ	5.0	Ιŭ	5	Ŭ	10	Ü	5.0	Ū	5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone / Methyl Isobutyl Ketone	-	ug/l	-		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	10	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetone		ug/l	-	_	10.0	U	10.0	U	10.0	U	10	U	10	U	10	U	5	U	10	U	10.0	U	10.0	U	10.0	U*1	10	U
Acetonitrile	-	ug/l	-	_	40.0	Ü	40.0	Ü	15.0	ŭ	15	ii	15	Ŭ	15	l ŭ	10	Ŭ	20	Ιŭ	15.0	Ŭ	15.0	ŭ	15.0	U.	15	Ŭ
Benzene	1	ug/l	-	+	1.0	Ŭ	1.0	Ü	1.0	ŭ	1.0	Ü	1.0	ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	ŭ	1.0	Ŭ	1.0	Ŭ
Bromochloromethane	5.0	ug/l		+	1.0	ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	ŭ	1.0	ŭ	1.0	Ιŭ	1.0	Ŭ
Bromodichloromethane	-	ug/l	-	+	1.0	Ŭ	1.0	Ü	1.0	ŭ	1.0	Ü	1.0	ŭ	1.0	ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	Ŭ
Bromoform	-	ug/l	-	+	1.0	Ŭ	1.0	Ü	1.0	ŭ	1.0	Ü	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	ŭ	1.0	Ŭ	1.0	U*1
Bromomethane	-	ug/l	-	+	1.0	Ü	1.0	Ü	1.0	ĭi	1.0	Ĭ	1.0	ŭ	1.0	l ŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U.
Carbon Disulfide	60	ug/l	-	+	1.0	ŭ	1.0	Ιŭ	1.0	ιŭ	1.0	l ii	1.0	ŭ	1.0	l ŭ	1.0	l ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	ŭ	1.0	l ü	1.0	Ιŭ
Carbon Tetrachloride	5.0	ug/l	-	+	1.0	Ü	1.0	Ü	1.0	ŭ	1.0	Ü	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ
Chlorobenzene	5.0	ug/l	-	+	1.0	Ŭ	1.0	Ü	1.0	ŭ	1.0	Ü	1.0	ŭ	1.0	Ü	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	Ŭ
Chloroethane	5.0	ug/l	-	_	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	l ŭ l	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	l ŭ	1.0	l ŭ
Chloroform	7.0	ug/l	-	+	1.0	ŭ	1.0	ΙŬ	1.0	ŭ	1.0	Ü	1.0	Ιŭ	1.0	l ŭ l	1.0	Ü	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	l ŭ	1.0	l ŭ
Chloromethane		ug/l	-	+-	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	υ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	U*+
cis-1.2-Dichloroethene	5.0	ug/l	-	_	1.0	ŭ	1.0	Ü	1.0	ŭ	1.0	ii	1.0	ŭ	1.0	ıŭ	1.0	Ŭ	1.0	ΙŬ	1.0	ŭ	1.0	ŭ	1.0	Ü	1.0	+
cis-1,3-Dichloropropene	-	ug/l	-	+	1.0	ŭ	1.0	Ιŭ	1.0	l ŭ	1.0	l ii	1.0	Ιŭ	1.0	l ŭ	1.0	l ŭ	1.0	Ŭ	1.0	Ŭ	1.0	ŭ	1.0	l ü	1.0	U*+
Dibromochloromethane	-	ug/l	-	+	1.0	Ü	1.0	Ü	1.0	ŭ	1.0	Ü	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ü	1.0	Ü	1.0	U
Dibromomethane	5.0	ug/l	-	_	1.0	ŭ	1.0	Ü	1.0	ŭ	1.0	Ü	1.0	ŭ	1.0	Ü	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ü	1.0	Ŭ
Ethylbenzene	5.0	ug/l	-	_	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ιŭ	1.0	Ŭ	1.0	Ŭ	1.0	Ŭ	1.0	ŭ	1.0	Ŭ	1.0	Ŭ
Iodomethane		ug/l		+	1.0	ŭ	1.0	Ιŭ	1.0	ŭ	1.0	Ü	1.0	υŬ	1.0	Ιŭ	1.0	Ιŭ	1.0	ŭ	1.0	ŭ	1.0	U*+	1.0	Ŭ	1.0	Ŭ
m/p-Xylenes	-	ug/l	-	+-	2.0	Ŭ	2.0	Ü	2.0	ŭ	2.0	Ü	2.0	ŭ	2.0	l ŭ	2.0	Ŭ	2.0	ΙŬ	2.0	Ŭ	2.0	Ü	2.0	Ü	2.0	Ŭ
Methylene chloride	5.0	ug/l	-	_	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.0	Ü	1.0	Ŭ	1.2	В	1.2	В	5	В	1.0	Ŭ	1.0	ŭ	1.0	Ŭ	1.0	Ŭ
o-Xvlene	-	ug/l	-	+	1.0	ŭ	1.0	l ŭ	1.0	l ŭ	1.0	ŭ	1.0	Ιŭ	1.0	l ŭ l	1.0	ΙŭΙ	1.0	Ιŭ	1.0	l ŭ	1.0	Ŭ	1.0	l ü	1.0	l ŭ
Styrene	5.0	ug/l	-	+	1.0	Ŭ	1.0	Ιŭ	1.0	Ηŭ	1.0	Ü	1.0	Ιŭ	1.0	l ŭ l	1.0	l ŭ	1.0	l ŭ	1.0	θŬ	1.0	Ŭ	1.0	l ŭ	1.0	l ŭ
Tetrachloroethene	3.0	ug/I	- : -	+-	1.0	Ü	1.0	Ιŭ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ιŭ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	l ü
Toluene	5.0	ug/l	-	+	1.0	Ü	1.0	Ιΰ	1.0	Ü	1.0	111	1.0	ii ii	1.0	l ii	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	ii ii	1.0	Ιΰ
trans-1,2-Dichloroethene	5.0	ug/l	-	+	1.0	Ü	1.0	l ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	l ö	1.0	Ü	1.0	Ü	1.0	l ü	1.0	l ü
trans-1,3-Dichloropropene	0.4	ug/l	- :	+	1.0	Ü	1.0	Ηŭ	1.0	Ü	1.0	Ü	1.0	Ü	1.0	l ŭ l	1.0	Ü	1.0	Ηŭ	1.0	Ü	1.0	Ü	1.0	l ü	1.0	l ü
trans-1,4-Dichloro-2-butene	5.0	ug/l	-	+-	5.0	Ü	5.0	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	1 0	1.0	Ü	2.5	Ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U*1
Trichloroethene	5.0		-	+	1.0	Ü	1.0	Ü	1.0	Ü	1.0	U	1.0	Ü	1.0	Ü	1.0	Ü	1.0	Ιΰ	1.0	Ü	1.0	Ü	1.0	l U	1.0	U
Trichlorofluoromethane	5.0	ug/l ug/l		+	1.0	Ü	1.0	l ü	1.0	Ü	1.0	Ü	1.0	Ü	1.0	l ŭ l	1.0	Ü	1.0	l ö	1.0	Ü	1.0	Ü	1.0	l ü	1.0	Ü
Vinyl acetate	5.0	ug/I	-	-	5.0	Ü	5.0	Ü	5.0	Ü	5.0	111	5.0	Ü	5.0	1 11	2.0	Ü	2.0	υ	5.0	Ü	5.0	Ü	5.0	U*+	5	U*+
	2			+	1.0	ı u	1.0	U	1.0		1.0	1 11	1.0	Ü	1.0	1 0	1.0	- U	1.0	Ü	1.0	Ü	3.3	U	4.5	U +	3.4	U +
Vinyl chloride		ug/l	-		1.0	U	1.0	U	1.0	U	1.0	l U	1.0	U	1.0	1 0	1.0	U	1.0	U	1.0	U	3.3		4.5		3.4	



Table 1

Water Quality Analytical Summary CC Metals and Alloys, LLC Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard ⁽¹⁾	Units	2nd H/12	Qual.	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.	2023	Qual
												SW-1																
SAMPLE DATE		NA	10/18/2012		4/26/2013		10/25/2013		5/13/2014		4/23/2015		4/28/2016		4/27/2017		SW-1 was	DDV	5/8, 9, 17/2019		5/19/2020	-	4/9/2021	-	SW-1 w	unc not	SW 1	was not
TOP OF CASING ELEVATION	-	Feet	596.72		596.72		596.72		596.72		NS		NS		596.72		and not sai				596.72		596.72		sami			npled
WATER LEVEL	-	Feet	NA		NA		NA		NA		NS		NS		NA		and not sai	ripied	NA		NA		NA		Sam	pieu	Sam	ipieu
WATER ELEVATION (BEFORE PURGE)	-	Feet	NA		NA		NA		NA		NS		NS		NA		NS		NA		NA		NA		NS		NS	Т
WELL BOTTOM	-	Feet	NA		NA		NA		NA		NS		NS		NA		NS		NA		NA		NA		NS		NS	
ARSENIC	0.15(2)	mg/l	-		0.01	U	0.010	U	0.015	U	NS		NS		0.015	U	NS		0.02	U	0.015	U	0.015	U	NS		NS	1
BARIUM	1	mg/l	-		0.033		0.016		0.021		NS		NS		0.036		NS		0.064		0.030	۸	0.079		NS		NS	1
BORON, (TOTAL)	10 ⁽²⁾	ma/l	-		0.13		0.088		0.17		NS		NS		0.2		NS		0.15	1	0.089		0.12		NS		NS	1
BROMIDE		ma/l	-		0.2	U	0.20	U	0.20	U	NS		NS		0.20	U	NS		0.5	U	0.20	U	0.20	U	NS		NS	_
CHEMICAL OXYGEN DEMAND	-	ma/l	-		44.5		45.2		58.9		NS		NS		27.1		NS		54.9		55.5		82.7		NS		NS	-
CHLORIDE		ma/l	-		23.2		10.7		18.2		NS		NS		17.2		NS		16		35.8		26.3		NS		NS	+
CHROMIUM	0.05	mg/l	-		0.0074		0.004	U	0.0040	U	NS		NS		0.032		NS		0.036		0.013		0.021		NS		NS	+
Eh .	-	M.Volts	-		109		91		124		NS		NS		187		NS		116		69		185		NS		NS	1
HEXAVALENT CHROMIUM TOTAL	0.011(2)	mg/l	-		0.01	U	0.010	U	0.010	U	NS		NS		0.026		NS		0.035	Н	0.034	F1	0.010	U	NS		NS	1
_EAD	0.025	mg/l	-		0.005	U	0.0050	U	0.0100	U	NS		NS		0.0100	U	NS		0.01	U	0.010	U	0.010	U	NS		NS	_
MANGANESE	0.3	mg/l	-		0.026		0.0038		0.016		NS		NS		0.023		NS		0.87		0.30		1.00		NS	1	NS	_
MERCURY	0.0007	mg/l	-		0.0002	U	0.00020	U	0.00020	U	NS		NS		0.00020	U	NS		0.0002	U	0.00020	U	0.00020		NS	1	NS	1
PH .	between 6.5 to 8.5	S.U	-		8.05		7.9		8.51		NS		NS		7.69		NS		8.38		9.29		7.70		NS		NS	\top
POTASSIUM	-	mg/l	-		11.7		6.3		10.8		NS		NS		11.7		NS		9.6		13.8		10.5		NS		NS	
SELENIUM	0.0046 ⁽²⁾	mg/l	-		0.001	U	0.0010	U	0.0250	U	NS		NS		0.0250	U	NS		0.02	U	0.025	U	0.025	U	NS		NS	
SODIUM	20	mg/l	-		17.5		13.3		19.1		NS		NS		16.5		NS		23.6		46.9		43.1		NS		NS	1
SPECIFIC CONDUCTANCE		Umhos/cm	-		535		435		480		NS		NS		713		NS		698	1	456		844		NS		NS	1
SULFATE	250	mg/l	-		37.2		53.9		15.1		NS		NS		59.6		NS		26		18.1		51.6		NS		NS	\top
EMPERATURE	-	°F	-		60.98		51.98		65.48		NS		NS		65.96		NS		75.02		56.1		59.3		NS		NS	Т
OTAL DISSOLVED SOLIDS	not to exceed 500	mg/l	-	1	366		281		311		NS		NS		390		NS		384	1	304		567		NS		NS	t
OTAL ORGANIC CARBON	-	mg/l	-	1	13.9		13.7		18.4		NS		NS		13		NS		15.8	1	19.6		26.1		NS		NS	T
TURBIDITY	not exceed 5	N.T.U	-		6.59		3,12		4.69		NS	\vdash	NS	1	3.01	t —	NS		3.9	1	19.0		9.04		NS	1	NS	$\overline{}$



Table 1 **Water Quality Analytical Summary** CC Metals and Alloys, LLC Town of Niagara, NY - Witmer Road

				_	_	_	_	_		_					_	_		_				_	_	_	_	_		_
Quarter	Class GA Standard ⁽¹⁾	Units	2nd H/12	Qual.	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.	2023	Qual.
		-										SW-1				-		_										
1.1.1.2-Tetrachloroethane	5.0	ug/l			1.0	U	1.0	U	1.0	U	NS		NS		1.0	T U T	NS		1.0	T U	1.0	T U	2.0	U	l NS		NS I	
1.1.1-Trichloroethane	5.0	ug/l		1	1.0	Ü	1.0	Ü	1.0	Ü	NS		NS	1	1.0	Ü	NS	1	1.0	Ü	1.0	Ü	2.0	Ú	NS	ĺ	NS	-
1.1.2.2-Tetrachloroethane	5.0	ug/l			1.0	Ü	1.0	Ü	1.0	Ü	NS		NS		1.0	Ü	NS		1.0	Ü	1.0	Ŭ	2.0	Ŭ	NS		NS	$\overline{}$
1.1.2-Trichloroethane	1.0	ug/l			1.0	Ü	1.0	Ü	1.0	Ü	NS		NS		1.0	Ü	NS	+	1.0	Ü	1.0	Ŭ	2.0	Ŭ	NS	1	NS	$\overline{}$
1.1-Dichloroethane	5.0	ug/l			1.0	Ü	1.0	Ü	1.0	Ü	NS		NS		1.0	Ü	NS		1.0	Ü	1.0	Ü	2.0	Ü	NS		NS	
1,1-Dichloroethene	5.0	ug/l	-		1.0	Ü	1.0	Ü	1.0	Ü	NS		NS		1.0	Ü	NS		1.0	Ü	1.0	Ü	2.0	Ü	NS		NS	
1,2,3-Trichloropropane	0.04	ug/l			1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	Ü	1.0	Ü	2.0	Ü	NS		NS	
1,2-Dibromo-3-chloropropane	0.04	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		2.0	U	NS	-	2.0	U	2.0	U	2.0	U	NS		NS	$\overline{}$
1,2-Dibromoethane	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	NS	1 1	NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	$\overline{}$
1,2-Dichlorobenzene	3.0	ug/l			1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	Ü	1.0	Ü	2.0	Ü	NS		NS	
1,2-Dichloroethane	0.6	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	Ü	2.0	Ü	NS		NS	
1,2-Dichloropropane	1.0	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	$\overline{}$
1,4-Dichlorobenzene	3.0	ug/l			1.0	U	1.0	U	1.0	Ü	NS	1 1	NS		1.0	U	NS	\top	1.0	Ü	1.0	U	2.0	Ü	NS	1	NS	$\overline{}$
2-Butanone	-	ug/l			10	U	10	U	10	U	NS		NS		10	U	NS		10.0	Ü	10.0	Ü	20.0	U*+	NS		NS	
2-Hexanone	-	ug/l	-		5.0	U	5.0	U	5.0	U	NS		NS		10.0	U	NS		10.0	U	5.0	U	10.0	U	NS		NS	
4-Methyl-2-pentanone	-	ug/l	-		5.0	U	5.0	U	5.0	U	NS		NS		10.0	U	NS		10.0	U	5.0	U	10.0	U	NS		NS	
Acetone		ug/l			10.0	U	10.0	U	10.0	U	NS		NS		10.0	U	NS		10.0	Ü	10.0	Ü	20.0	Ü	NS		NS	
Acetonitrile		ug/l	-		40.0	U	40.0	U	15.0	U	NS		NS		20.0	U	NS		20.0	U	15.0	Ü	30.0	Ü	NS		NS	
Benzene	1	ug/l			1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS	-	1.0	U	1.0	Ü	2.0	U	NS		NS	
Bromochloromethane	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS	-	1.0	U	1.0	U	2.0	U	NS		NS	$\overline{}$
Bromodichloromethane	-	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS	-	1.0	U	1.0	U	2.0	U	NS		NS	$\overline{}$
Bromoform	-	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
Bromomethane		ug/l			1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	$\overline{}$
Carbon Disulfide	60	ug/l			1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
Carbon Tetrachloride	5.0	ug/l			1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
Chlorobenzene	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
Chloroethane	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	$\overline{}$
Chloroform	7.0	ug/l			1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
Chloromethane		ug/l			1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
cis-1,2-Dichloroethene	5.0	ug/l	-		1.0	U	1.0	С	1.0	U	NS		NS		1.0	U	NS		1.0	Ω	1.0	U	2.0	U	NS		NS	
cis-1,3-Dichloropropene	-	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
Dibromochloromethane	-	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	$\overline{}$
Dibromomethane	5.0	ug/l			1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
Ethylbenzene	5.0	ug/l			1.0	U	1.0	С	1.0	U	NS		NS		1.0	U	NS		1.0	Ω	1.0	U	2.0	U	NS		NS	
Iodomethane		ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U*+	NS	1	NS	$\overline{}$
m/p-Xylenes		ug/l	-		2.0	U	2.0	U	2.0	U	NS		NS		2.0	U	NS		2.0	U	2.0	U	2.0	U	NS		NS	
Methylene chloride	5.0	ug/l			1.0	U	1.0	С	1.0	U	NS		NS		5.0	U	NS		5.0	υ	1.0	U	2.0	U	NS		NS	
o-Xylene		ug/l			1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
Styrene	5.0	ug/l	-		1.0	U	1.0	С	1.0	U	NS		NS		1.0	U	NS		1.0	С	1.0	U	2.0	U	NS		NS	
Tetrachloroethene		ug/l			1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
Toluene	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
trans-1,2-Dichloroethene	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
trans-1,3-Dichloropropene	0.4	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
trans-1,4-Dichloro-2-butene	5.0	ug/l	-		5.0	U	5.0	U	1.0	U	NS		NS		2.5	U	NS		2.5	U	1.0	U	2.0	U	NS		NS	
Trichloroethene	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
Trichlorofluoromethane	5.0	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	
Vinyl acetate	-	ug/l	-		5.0	U	5.0	U	5.0	U	NS		NS		2.0	U	NS		2.0	U	5.0	U	10.0	U	NS		NS	
Vinyl chloride	2	ug/l	-		1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS		NS	

⁽¹⁾ Class GA fresh groundwaters; Water Quality Standards Surface Waters and Groundwater, NYSDEC Chapter X Division of Water, Part 703.5 (2) Class C fresh surface waters; Water Quality Standards Surface Waters and Groundwater, NYSDEC Chapter X Division of Water, Part 703.5

[©] Class C fresh surface waters; Water Quality Standards Surface Qualiflers:

B: Analyte was detected in the associated Method Blank
F1: MS and/or MSD Recovery is outside acceptance limits
F1: MS and/or MSD Recovery is outside acceptance limits
U: Not detected at the reporting limit (or MDL or EDL if shown)
A Instrument related CC is outside acceptance limits
- LCS or LCSD is outside acceptance limits.
+ LCS and/or LCSD is outside acceptance limits, high biased.
1- LCSGLCSD RPD exceeds control limits.
NS: Not Samelet

NS: Not Sampled
Result in Bold Text: Exceeds Class GA Standard

APPENDIX 1

Modified Groundwater Monitoring Plan

New York State Department of Environmental Conservation

Division of Materials Management, Region 9

270 Michigan Avenue, Buffalo, New York 14203-2915 Phone: (716) 851-7220 • FAX: (716) 851-7226

Website: www.dec.ny.gov

RECEIVED MAR 1 4 2014



March 11, 2014

Mr. Guy D. VanDoren, P.E. President LAN Associates, Inc. 88 Riberia Street, Suite 400 St. Augustine, Florida 32084

Dear Mr. VanDoren:

CC Metals and Alloys #32N04

The Divisions of Materials Management and Remediation have reviewed the document "Request for Modification of Groundwater Sampling Plan" submitted with your letter dated November 5, 2013 prepared on behalf of CC Metals and Alloys for its closed landfill on Witmer Road in the town of Niagara. This document requested a reduction in monitoring frequency from semi-annual to annual, and provided supporting information for the request.

Both Divisions agree that based on the data presented, this request can be granted. Therefore, annual sampling will be required in 2014 and subsequent years, unless the annual sampling data indicates any issues which would warrant a return to semi-annual sampling.

If you have any questions, please contact this office at (716) 851-7220.

Sincerely,

Mary É. McIntosh, C.P.G. Engineering Geologist 2

Mary & M. Sutons

MEM/ed

cc: Mr. Dennis Weiss, Regional Materials Management Engineer

Mr. Michael Hinton, Division of Environmental Remediation

Mr. David Matthews, LAN Associates

Mr. Edward Bredniak, CC Metals and Alloys



November 5, 2013

VIA UPS GROUND

Ms. Mary McIntosh, C.P.G. Engineering Geologist II New York State Department of Environmental Conservation 270 Michigan Avenue Buffalo, NY 14203-2999

Subject: CC Metals and Alloys, LLC

Witmer Road Solid Waste Management Facility LAN Ref. #2.3643.17

Dear Ms. McIntosh:

Per your telephone conversation with Dave Matthews of LAN Associates, Inc. (LAN), on behalf of CC Metals and Alloys, LLC (CCMA), enclosed is one original report of the *Request for Modification of Groundwater Sampling Plan*, for your review and approval.

If you have any questions after reviewing this report, please do not hesitate to contact me directly at (904) 824-6999.

Very truly yours,

Guy D. VanDoren, P.E.

President

GVD:kk

2.3643.17-L-NYSDEC-GWPlanMod Req-131105-gvd

Enclosure: Request for Modification of Groundwater Sampling Plan dated 10/30/2013

Copies to: Mr. Gary Joiner, Plant Manager, CCMA



REQUEST FOR MODIFICATION OF GROUNDWATER SAMPLING PLAN OCTOBER 2013

WITMER ROAD SOLID WASTE MANAGEMENT FACILITY Niagara, NY

Submitted to:

New York State Department of Environmental Conservation 270 Michigan Avenue Buffalo, NY 14203-2999

Attention:
Ms. Mary McIntosh, C.P.G.
Engineering Geologist II

Prepared by:



88 Riberia Street, Suite 400 • St. Augustine, FL 32084 Ph: (904) 824-6999 • Fax: (904) 824-0726 • www.lan-fl.com

LAN Ref. #2.3643.17 October 30, 2013



REQUEST FOR MODIFICATION OF GROUNDWATER SAMPLING PLAN OCTOBER 2013

CC Metals and Alloys, LLC Witmer Road Solid Waste Management Facility Niagara, NY

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В	SITE PLAN
C	GRAPHICAL REPRESENTATIONS OF HISTORICAL DATA
D	HISTORICAL PARAMETER STATISTICAL VALUES



REQUEST FOR MODIFICATION OF GROUNDWATER SAMPLING PLAN OCTOBER 2013

CC Metals and Alloys, LLC Witmer Road Solid Waste Management Facility Niagara, NY

1.0 INTRODUCTION

The following report is submitted to the New York State Department of Environmental Conservation (NYSDEC) by LAN Associates, Inc. (LAN), on behalf of CC Metals and Alloys, LLC (CCMA), as a request to modify the groundwater sampling plan for the Witmer Road Solid Waste Management Facility Permit #2585 (Appendix A). This report is submitted in compliance with NYSDEC regulations Chapter 4, Part 360-2.11(c)(5)(iv)(c), Chapter 4, Part 360-2.15(k)(4).

CCMA has been collecting data in accordance with the facility's groundwater sampling plan. The data collection began in 1991, to monitor the condition of the groundwater at the Witmer Road site. In 1998, CCMA implemented interim remedial measures (IRM) to reduce stormwater infiltration and remove potentially deleterious material from the site. In 2004, the collected data was analyzed by LAN to determine the effectiveness of the IRM. Based on this analysis, a request for modification was submitted to NYSDEC which recommended removing certain parameters from the sampling plan and reducing the frequency of measurements. The recommendations were accepted by NYSDEC. The sampling frequency was changed from quarterly to semi-annually, and the following parameters were omitted from future sampling events:

Parameters

Color, True	Phenols
Copper	Silver
Total Cyanide	Thallium
Hardness	Vanadium
Iron	Zinc
Magnesium	Biological Oxygen Demand
Nickel	Sol Hexavalent Chromium
Nitrate	Total Kjeldahl Nitrogen
	Copper Total Cyanide Hardness Iron Magnesium Nickel

The modified sampling plan has been implemented since 2004. Recently, LAN performed an analysis of the data to determine if a second request for modification is warranted. This report contains an analysis of the data collected from 1991 through 2012, and concludes by recommending that CCMA submit a request for modification to reduce the frequency of measurements from semi-annual to annual. Justification for this request is provided herein.



2.0 SITE DESCRIPTION/HISTORY

The subject landfill is located on the south side of New York Highway 31, approximately two miles northeast of the intersection of New York Highway 31 and Hyde Park Boulevard in/near Niagara, New York. CCMA, formerly known as SKW Metals and Alloys, Inc., received a NYSDEC Permit to operate the solid waste disposal facility in 1980. The landfill consisted of two landfill cells designed for the disposal of baghouse dust from the nearby ferroalloy production plant. According to historical engineering documents, there were two cells known as Cell No. 1 and Cell No. 2, which were permitted under the NYSDEC permit. Cell No. 1 has a five-foot clay liner with leachate collection system, while Cell No. 2 has a two-foot clay liner with leachate collection system. Permit #2585 issued by NYSDEC provided the closure requirements of this landfill. A closure plan was submitted on January 28, 1988, and was subsequently approved. Since that time, CCMA has been performing the required post-closure monitoring as required by the regulations and set forth in the closure plan.

In 1997, SKW and LAN submitted a report to NYSDEC entitled *Remedial Investigation* and *Recommended Interim Remedial Measures for SKW Metals and Alloys, Witmer Road Property*. In this report and the conferences with NYSDEC personnel that followed, a scope of work was agreed upon to perform the following tasks:

- 1. Remove industrial and other wastes from the areas surrounding, and to the south of, the landfill cells;
- 2. Re-grade the area surrounding, and to the south of, the landfill cells for effective stormwater drainage; and
- 3. Cover the re-graded areas with clay to reduce permeability.

Since the monitoring program began, many upgradient well and leachate sump parameters have steadily decreased, and began converging with those of the upgradient well. Parameters which have New York state effluent groundwater maximum allowable concentrations (NY-MACs) have shown fewer, if not the absence of, contraventions of these values since the closure was approved. The statistical analyses in Section 4.0 demonstrate that, while the IRM did not aim to mitigate landfill pollution, it has resulted in reduced groundwater contamination and contributed to the improvement of the environmental integrity of the landfill.

A previous request for modification was written in 2004. Based on a statistical analysis of the parameter measurements which compared the pre-IRM period to the post-IRM period, LAN recommended that various parameters be removed from the program and the frequency of measurements be changed from quarterly to annually. Twenty-four of the requested parameter removals (all of them except for those of boron and total organic

¹ ¹ ⁶ NYCRR Part 703.6 Table 3



content) were accepted, and the monitoring frequency was changed to semi-annual rather than annual. Since the 2004 request for modification, measurements have shown that many parameters have continued to stabilize and remain at levels below those of the pre-IRM period. Section 5.0 statistical analysis justifies the current recommendation to change the monitoring frequency from semi-annual to annual.

3.0 GROUNDWATER MONITORING/FLOW/HYDROGEOLOGY

A robust record of groundwater elevation data confirms the upgradient and downgradient status of each well. A review of groundwater elevation data indicates a hydrogeological flow gradient from northeast (upgradient) to southwest (downgradient). The record indicates no groundwater flow reversals. A site plan with groundwater elevations is attached from a former baseline monitoring report to show representative groundwater flow during the period of record (Appendix B).

Four existing wells and a landfill leachate sump have been used to monitor groundwater conditions at the subject landfill since 2004. Well 3R is hydrogeologically upgradient, Well 5R is hydrogeologically downgradient. Well 14N is laterally downgradient, and Well 12 is the furthest downgradient.

Since 2004, additional measurements have been taken at a downgradient bedrock well – indicated as Well BR1 – as well as at a surface water location which has a downgradient orientation with respect to Well 3R.

4.0 STATISTICAL ANALYSIS OVERVIEW

Currently, each parameter is measured twice per year. A statistical analysis has been performed to determine if parameter measurements have continued to stabilize and remain below pre-IRM levels. The analysis for Wells 3R, 5R, 14N, 12, and the leachate sump included:

- Comparing arithmetic means, arithmetic standard deviations, medians, and geometric means of each parameter between the following periods
 - o Pre-IRM period: 1991 through 1998
 - o Post-IRM period, pre-Report²: 1999 through May, 2004
 - o Post-IRM period, post-Report: September, 2004, through present
 - o Post-IRM period: 1999 through present
 - o Overall period: 1991 through present
- Graphically comparing upgradient well measurements to downgradient well measurements
- Comparing well measurements to NY-MACs
- Comparing ranges of arithmetic mean (+/- standard deviation) between parameters to test for significant difference; if the ranges overlapped, the data sets were not considered to be significantly different

_

² Refers to the previous request for modification report, which considered data up until May of 2004.



• Considering measurements that were below the detection limit

Surface water and Well BR1 measurements were not taken before the IRM period. Therefore, LAN was unable to compare pre-IRM levels to post-IRM levels at these measurement locations. Consequently, the analysis of the surface water and Well BR1 parameter measurements consisted solely of:

- Analyzing data trends
- Comparing bedrock measurements to upgradient well measurements and corresponding NY-MACs
- Comparing surface water measurements to NYSDEC water quality standards³

For each parameter discussed in this report, three graphical representations of the data are presented in Appendix C:

- Comparison of leachate and downgradient well measurements to upgradient well measurements
- Comparison of bedrock well measurements to upgradient well measurements
- Surface water measurement data

All results which were non-detect (i.e. below the detection limit⁴) are shown on the graphs as the detection limits themselves. The tables containing the statistical values and arithmetic mean (+/- standard deviation) for wells with pre-IRM data and leachate are included in Appendix D.

5.0 PARAMETER SPECIFIC ANALYSIS

The parameters analyzed in the following table were chosen because they best represent the extent to which the IRM results in reduced groundwater contamination and contributed to the improvement of the environmental integrity of the area. The parameters omitted from this report have also shown some degree of declination, but not as much as the included parameters (e.g. boron and chemical oxygen demand have shown an overall decrease since the IRM, but have been slightly trending up since 2009 and 2011, respectively). Some of the omitted parameters, while showing overall decreases, still yield significantly higher measurements in the downgradient wells than in the upgradient well.

³ 6 NYCRR Part 703.5 Table 1 for Class C surface water

⁴ The detection limit is the value below which the instrument of measurement is unable to detect the analyte. A reporting limit is the detection limit multiplied by a greater-than-one factor; this limit is the threshold below which a measurement is detected but not believed by the measurer to be reasonably accurate.



Parameter Analysis

Parameter	NY-MAC	Analysis
		- No wells have ever shown contraventions of the NY-MAC
		- Most measurements have been well below the NY-MAC, sometimes by as much as an order of magnitude
		- Most measurement results have been below the detection limit
Arsenic	0.05 mg/L	- No significant difference between arsenic content of the downgradient and upgradient wells
		- Bed rock measurements are similar to upgradient well measurements (below detection limit and well-below NY-MAC)
		- Surface water measurements are also roughly one order of
		magnitude lower than the water quality standard
		- No wells have ever shown contraventions of the NY-MAC
_		- Graphical representation shows that most measurements have been well below the NY-MAC
		- No measurement has ever exceeded 0.2 mg/L, which is an order of magnitude below the NY-MAC
Barium	2.0 mg/L	- No significant difference between barium content of the upgradient and most downgradient wells
		- Bedrock measurements show slightly higher results than those of the upgradient well, but still remain about an order of magnitude lower than the NY-MAC
		- No water quality standard for surface water concentrations of barium, but measurements show a decreasing trend
		- Historically, there have been two contraventions of the limit:
		One occurred in 1999, and the other occurred in 2000 (however, this measurement was below the detection limit, and the detection limit was greater than the NY-MAC) Output lead to the state of th
		- Many lead measurements have been below the detection limit
		- Graphical representation of the data shows that downgradient and upgradient well measurements have converged and remained well below the NY-MAC
Lead	0.05 mg/L	- Since the previous request for modification, no measurements have exceeded 0.005 mg/L, which is an order of magnitude below the NY-MAC
		- No significant difference between upgradient and downgradient well measurements
		- Bedrock measurements are similar to upgradient well measurements (below detection limit and well below NY-MAC)
		- Surface water measurements were below the water quality standard* and have also been below the detection limit



Parameter Analysis (Cont'd)

Parameter	NY-MAC	Analysis
Mercury	0.0014 mg/L	 No wells have ever shown contraventions of the NY-MAC Most measurements have been below detection limit Graphical representation of data shows that measurements have converged and been well below the NY-MAC Since the IRM period, all measurements have been below 40 percent of the NY-MAC No significant difference between upgradient and downgradient well measurements The six well curves overlapping indicate mercury measurements have always been below detection limit Surface water measurements and bedrock well measurements have also resulted in non-detect
Specific Conductance	N/A	 Graphical representation of data shows that upgradient and downgradient well measurements have converged Since the IRM period, data has also shown a decrease in specific conductance over all wells Bedrock measurements have also shown a converging trend with upgradient well measurements Surface water measurements show a decreasing trend (no water quality standard)
Sulfate	500 mg/L	 There have been no contraventions of the limit since 1995 (before the IRM period) Since the IRM period itself, sulfate measurements have dropped to mostly below 50 percent of the NY-MAC No significant difference between downgradient and upgradient well measurements Measurements also show lower levels of sulfate in the bedrock than in the upgradient well Surface water measurements indicate a decreasing trend of sulfates (no water quality standard) Sulfate is also a good chemical indicator for the oxyanion-ligand group, indicating that concentration of that group is also decreasing and stabilizing with time
Turbidity	N/A	 Since the IRM period, measurement results for upgradient and downgradient wells have converged Downgradient well measurements are not significantly different than upgradient well measurements Bedrock measurements have also shown a converging trend with upgradient well measurements Surface water measurements show a decreasing trend (no water quality standard)



Parameter Analysis (Cont'd)

Parameter	NY-MAC	Analysis
Chloride	500 mg/L	 No contraventions of the NY-MAC since 1992 Since the IRM period, all measurements have been below 250 mg/L, 50 percent of the NY-MAC Bedrock measurements have also shown a converging trend with upgradient well measurements Surface water measurements show a decreasing trend (no water quality standard)
Elemental Chromium	N/A	 Downgradient well measurements are not significantly different than upgradient well measurements Measurements from the leachate still seem, graphically, to be fluctuating significantly Bedrock measurements have been lower than those of upgradient well Surface water measurements have shown a decreasing trend Surface water measurements are below water quality standard*
рН	Upper: 8.5 Lower: 6.5	 Before the IRM period, there have been 15 contraventions of the limits since 1991: Between the IRM period and the previous request for modification, there were seven contraventions No contraventions since previous request for modification Measurement of 17.0 made on September 22, 2009, was thrown out as an outlier. Trends indicate that pH has become more steady and consistent Bedrock measurements have shown zero contraventions of pH limits Surface water measurements indicate one contravention in 2007
Total Dissolved Solids		 Since the IRM period, there have been two contraventions of the NY-MAC: One was in 2002, and the other was in 2003, both before previous request for modification. No contraventions have occurred since 2003 All downgradient well measurements, except for those from Well 12, are not significantly different than upgradient well measurements Bedrock measurements show lower levels of total dissolved solids than those of the upgradient well Surface water measurements show two contraventions of the water quality standard: One in 2004, and one in 2011

^{*} The water quality standard for surface water is only available for 2004, because this value fluctuates depending on the measurement of hardness, and hardness measurements ceased after 2004.



5.1 ADDITIONAL NOTES ON CHLORIDES

Graphically, the measurements seem to be converging. However, downgradient wells are still significantly higher than upgradient wells. While this warrants further data gathering, measurements have been declining and have been relatively consistent since the IRM period.

Chlorides are the best chemical indicators for the compact, non-metallic, and halogen anions, and are commonly used as a tracer or first indicator of breakthrough for dissolved constituents in porous media. The fact that chloride levels have been decreasing and stabilizing over the past 20 years demonstrates the success of the IRM program.

6.0 SUMMARY AND CONCLUSION

Interim remedial measures implemented in 1998, were conducted to mitigate the potential contamination in surrounding groundwater from the general site, which had been a metal processing area. Since the IRM was completed, many parameter concentrations have dropped and stabilized; downgradient well measurements have converged with those of upgradient wells; and there has been a 78 percent decrease in the frequency of contraventions of the NY-MACs. Since 2004, based on NYSDEC's approval of LAN's previous request for modification, parameters have been measured semi-annually instead of the quarterly frequency that was required before that time. Since the 2004 modification request, parameters have either continued to decrease or have shown continued stabilization. While there are some parameters that have not converged (upgradient concentrations equaling downgradient concentrations), there are no parameters that have shown discontinuous results. Therefore, the semi-annual sampling does not give further understanding of the site conditions than annual. For these reasons, annual sampling is recommended for the current parameters.

7.0 SAMPLING PLAN RECOMMENDATIONS

Parameter graphs show a clear trend toward convergence of parameter concentrations over wells (upgradient and downgradient), and stability of parameter concentration over the period of record. As such, LAN and CCMA recommend that the frequency of analysis be reduced from semi-annual year to annual.

APPENDIX A SKW HISTORICAL WASTE MANAGEMENT PERMIT No. 2585

PERMIT

Under the Environmental Conservation Law, Article 27, Title 7, Part 360

25	85
EXPIRATION DATE	1001
October 31	, 1984

∑ CONS	TRUCTION	X INITIA		REISSUA	EFFECTIVE DATE - NCE October 20,	
X OPER	ATION	RENEW	AL	MODIFIC	ATION	
PERMIT ISSUED TO KN ALLOYS, INC.		3801 Highlan		Niagara Falls N	TELEPHONE NO. 716/285-1252	
LOCATION OF PROJECT Town Niagara	County Nia	agara	Environmental	Conservation Regional Un Headquarters ware Avenue, Buf	ce	
DESCRIPTION OF PROJECT Construct and Operate	SKW Alloys,	Inc. Landfill	#2	ON-SITE SUPERVISOR William Lozo		

GENERAL CONDITIONS

- The permittee shall file in the office of the Environmental Conservation Region specified above, a notice on intention to commence work at least 48 hours in advance of the time of commencement and shall also notify said office promptly in writing of the completion of the work.
- The permitted work shall be subject to inspection by an authorized representative of the Department of Environmental Conservation who may order the work suspended if the public interest so requires.
- 3. As a condition of the issuance of this permit, the applicant has accepted expressly, by the execution of the application, the full legal responsibility for all damages, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and has agreed to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from the said project.
- 4. All work carried out under this permit shall conform to the approved plans and specifications. Any amendments must be approved by the Department of Environmental Conservation prior to their implementation.
- The permittee is responsible for obtaining any other permits, approvals, easements and rights-of-way which may be required for this project.
- 6. By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with Part 360 and the special conditions. Any variances granted by the Department of Environmental Conservation to Part 360 must be in writing and attached hereto.

SPECIAL CONDITIONS

- 1. Your application for a variance from 6NYCRR Part 360.8(b) (exemption from daily cover) is hereby approved. In the event that the deposited ferro silicon sludges become dried and create a fugitive dust problem, either on or off site, steps shall be taken to remedy the situation.
- Upon the filling of the landfill, two feet of cover material shall be applied to the surface of the landfill. The top 6 inches shall be of a soil suitable for sustaining a vegetative cover crop to avoid erosion.
- Quarterly reports shall be submitted indicating the volume of material which has been
 placed into the landfill and shall be submitted on the first business day of the months
 of November, February, May and August.
- 4. Semi-annual reports shall be submitted to the Region 9 Office containing the analytical results of the monitoring well sampling program and surface water sampling program as included in the permit for Landfill #1.
- 5. Within 60 days of the effective date of this permit, a certificate of deposit, bond or other negotiable instrument, payable to the Commissioner of the NYS Department of Environmental Conservation, shall be forwarded to this Region 9 Office in the amount of \$5,000 to cover costs of closure and monitoring. The life of this undertaking shall be for the permit life (October 31, 1984).
- The issuance of this permit does not relieve the applicant from the compliance with other State, Federal or local laws, ordinances or regulations.
- 7. Prior to the expiration date of this permit, the landfill shall be properly closed and maintained to prevent adverse environmental health impacts, such as contravention of surface or groundwater quality standards, gas migration, odors, and vectors. Proper

issuing officer Robert J. Mitrey, P.E. SIGNATURE & Mittery 15,#

SKW ALLOYS, INC. 3801 Highland Avenue Niagara Falls, NY 14305 Permit to Construct and Operate - Permit #2585 Expiration Date - 10/31/84 Facility #32N04

SPECIAL CONDITIONS (cont'd)

7. closure includes covering with a minimum of 2 feet of final cover, establishment of a grass cover crop, and sufficient grading to divert water off the fill area in order to minimize infiltration and to preclude ponding.

1

Permit Administrator

Data

New York State Department of Environmental Conservation 584 Delaware Avenue, Buffalo, New York 14202



May 30, 1980

Mr. LeRoy C. Wintersteen, Manager Environmental Control SKW Alloys, Inc. P.O. Box 368 Niagara Falls, NY 14302

Re: Permit to Operate
Solid Waste Management Facilities
Permit No. 2133
Niagara (T), Niagara County

Dear Mr. Wintersteen:

This will acknowledge receipt of the Certification of Construction and "As Built" drawings for the above facility. These materials are accepted for record purposes and are included in our files on the project.

We are transmitting herewith Permit No. 2133, Permit to Operate the Solid Waste Management Facility. The permit contains special conditions which require monitoring, record keeping, and reporting which should be followed, as well as the other conditions in the permit.

If you have any questions pertaining to the permit, the operation of the facility or the monitoring and reporting requirements, please do not hesitate to contact the writer or Mr. Tygert at 716/842-4311.

Very truly yours,

Robert J. Mitrey, P.E. Associate Sanitary Engineer

JST: sk

cc: Niagara County Health Dept.
Secured Landfill Contractors, Inc.
Mr. Richard Snyder, P.E.
Albany, Division of Solid Waste



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- The permittee whalf file is the office of the Confrommental Contestwarten Ragins specifical charge, a notice of intesticul to commence which at least 40 hours in advance of the time of commencement and shall also recity hald reflect prangely to writing of the complicitor of the work
- 2. The parenthed work shall be subject to engenties by an authorized from the authorized for the Constant of Englandian in (Constant of Englandian in (Constant of Constant of
- As a consistion of the insulation of this permit, the applicant has accompanied expressible, by the extraction of the application. The fall legal engine subject is not supplied by the extraction of the application. The fall legal engine subject is whitened business, along the indicate, of whitened business, and the project described business and the application reaching actions, demonstrated and courts of energy same and described by actions and courts of energy same and described project.
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- 5. The permittee is recised, his philading any other permits, against the birth of the permits and the property of the permits. This permits:
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SPECIAL CONDITIONS

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7. That only the materials described in the approved engineering report, prepared by Richard R. Snyder, P.E., dated June 18, 1979, and approved ammendments thereto, be placed in the facility.

8. Then doily records of the quantity of weste naterial placed in the facility be sainteined, and then en enqual sureary be substitted to this office on the antiversary date of bide permit. The summary should be label to total quantity of wasten disposed of and an entirete of the remaining life ant/or values of the facility.

OTICE OF PERMIT

for:				
Ex. S	CONSTRUCTION	X	INITIAL ISSUE	
X	OPERATION		RENEWAL	

has been issued to: __skw Alloys, Inc address: P.O. Box 368, Niagara Falls, New York, 14302 for a project described as: Solid Waste Management Facility

Permit No.

under the Environmental Conservation Law,

Article 27, Title 5, Part 360 (Solid Waste Management Facilities)

NOTE:

- This Notice of Permit must be posted on the project site in such a manner that it is protected from weather and is in a location readily visible to the public.
- · A copy of the Permit with the general and special conditions noted thereon will be shown to anyone upon request.

New York State

Department of Environmental Conservation

47-12-2 (8/77)

Issuing Officer		
_584 Delaware Av	enue. Buffalo, New	York, 14202
Address		
2122	5/30/80	5/30/93

issue Date

REISSUANCE

MODIFICATION

Expiration Date

INITIAL ISSUE

			: MODIFICA	
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GENERAL CONDITIONS

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- this project.

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SPECIAL CONDITIONS

- artance from Engran Part 365,5(n) (examption from 421), cover) hareby approved. In the ement that the deposited ferro siltern sluiges became delect and create a fugitive dust problem, either on or off site, steps shall be taken to roundy the ultuntian.
- linon the filling of the landfill, two feet of down naterial shall by applied to surface of the langfill. The top 6 inches

SKW ALLOYS, INC.
3801 Highland Avenue
agara Falls, NY 14305

Permit to Construct and Cperate - Permit #2585 Expiration Date - 10/31/84 Facility #32N04

SPECIAL CONDITIONS (cont'd)

 closure includes covering with a minimum of 2 feet of final cover, establishment of a grass cover crop, and sufficient grading to divert water off the fill area in order to minimize infiltration and to preclude ponding.

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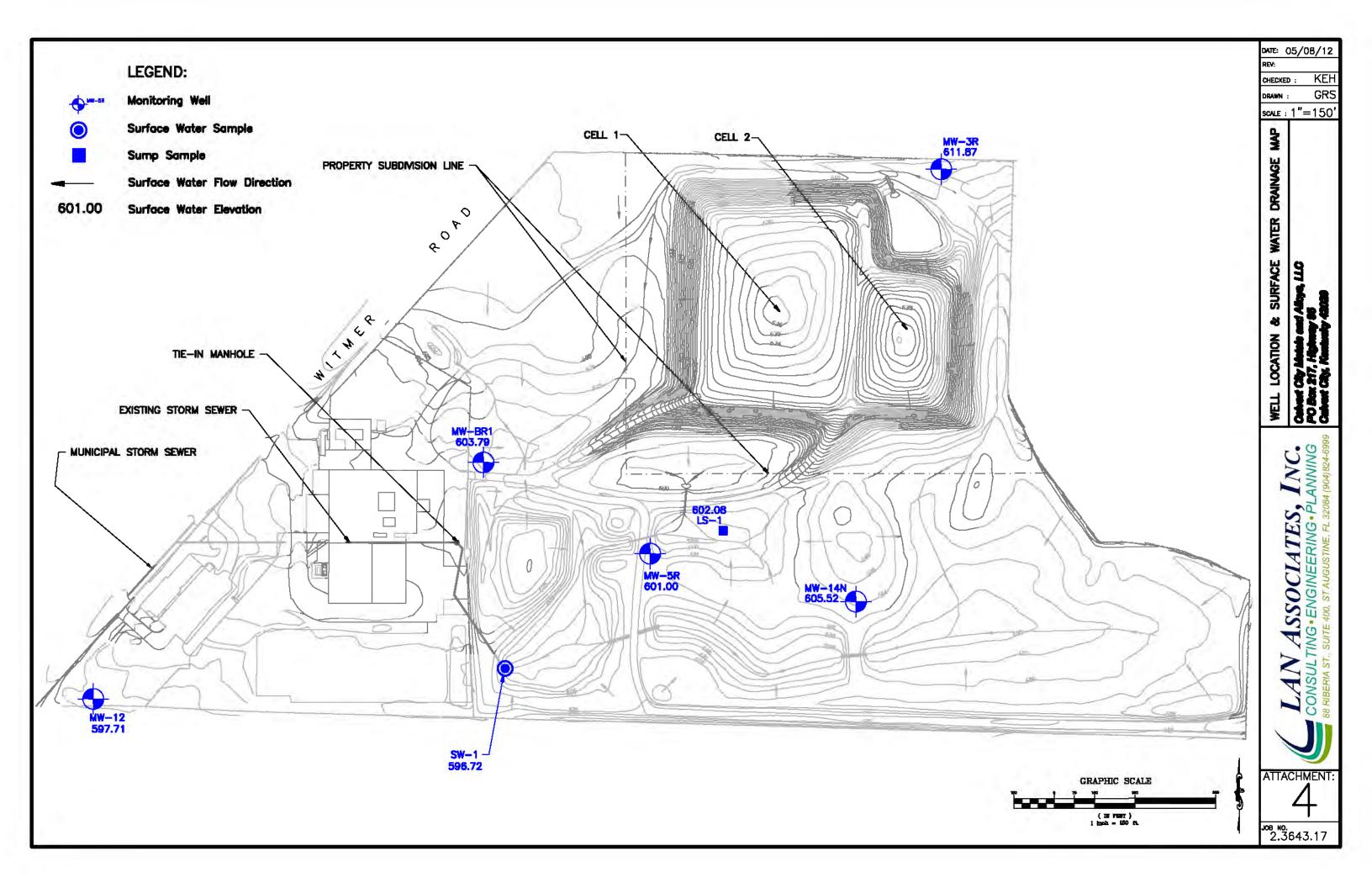
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Permit Administrator

Date

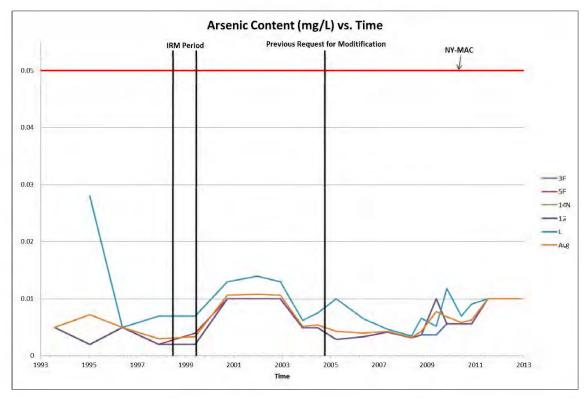
APPENDIX B

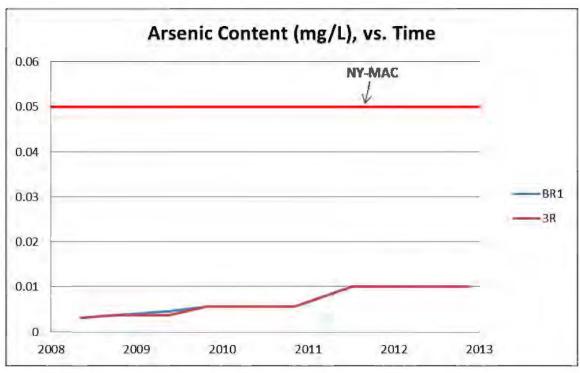
SITE PLAN

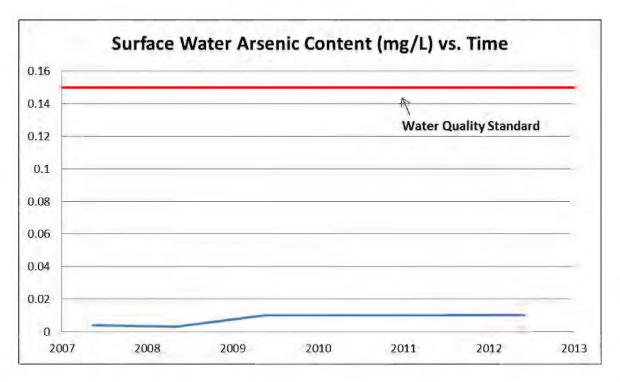


APPENDIX C GRAPHICAL REPRESENTATIONS OF HISTORICAL DATA

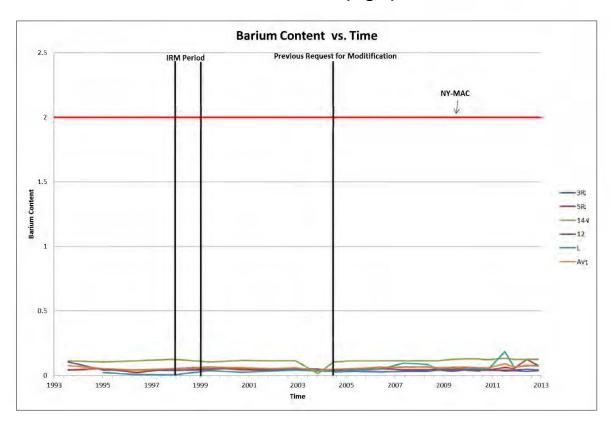
Arsenic Content (mg/L)

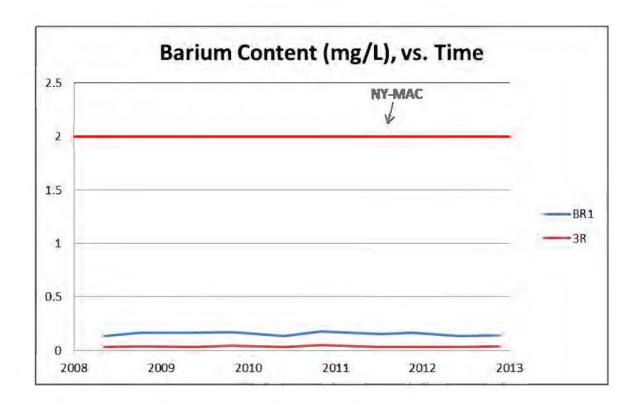


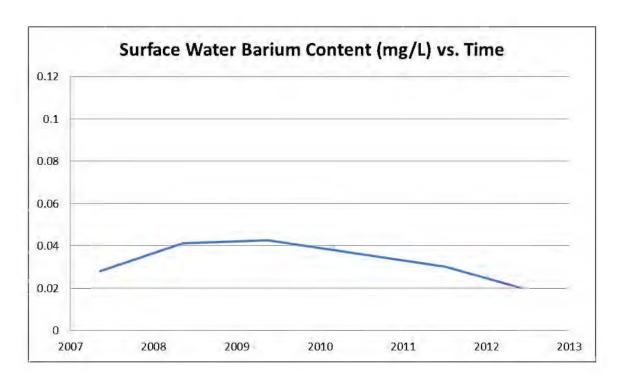




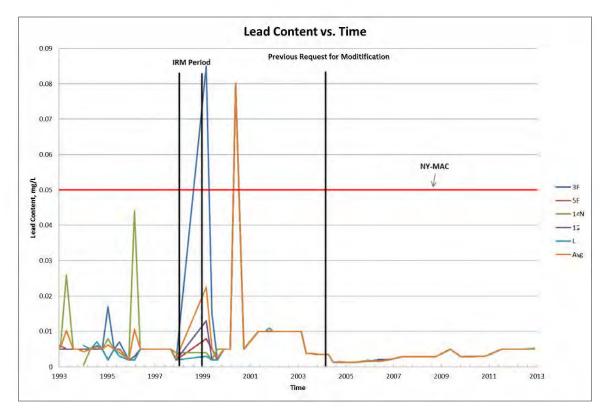
Barium Content (mg/L)

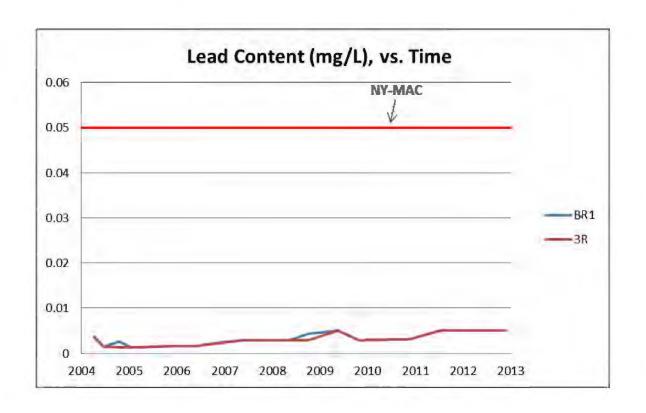


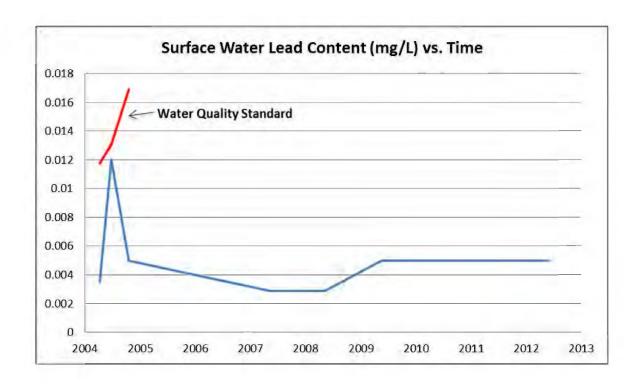




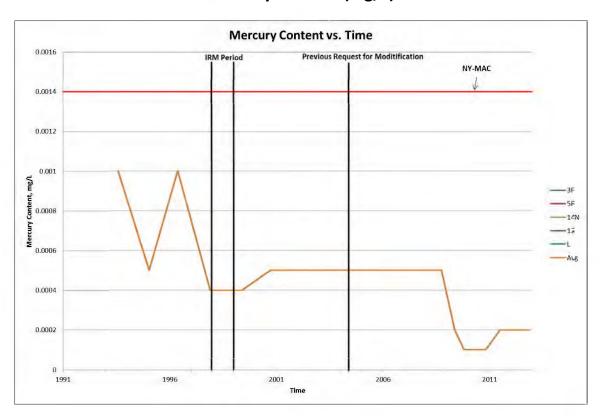
Lead Content (mg/L)

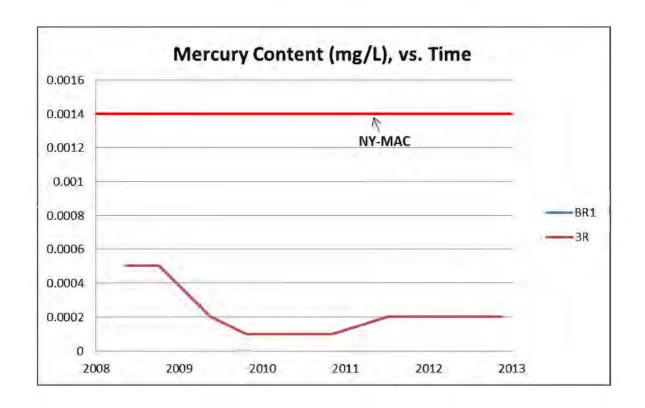


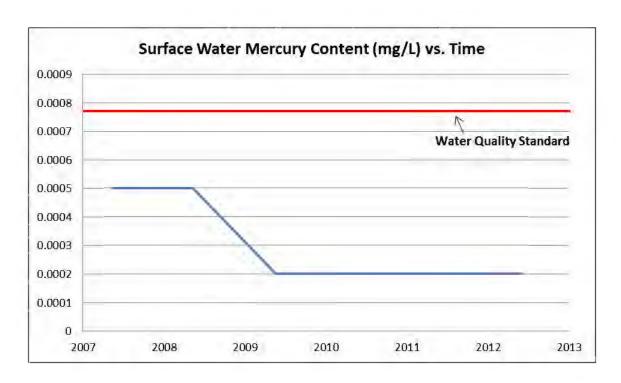




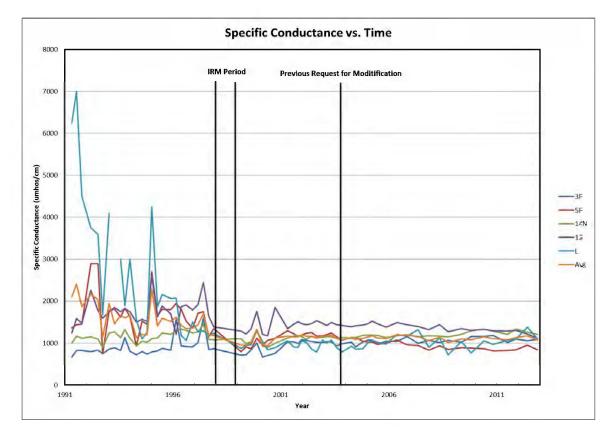
Mercury Content (mg/L)

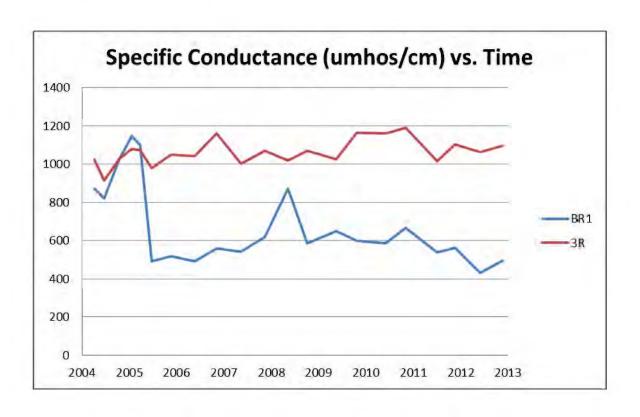


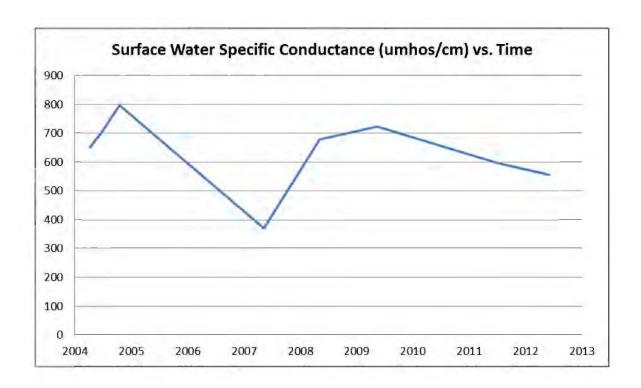




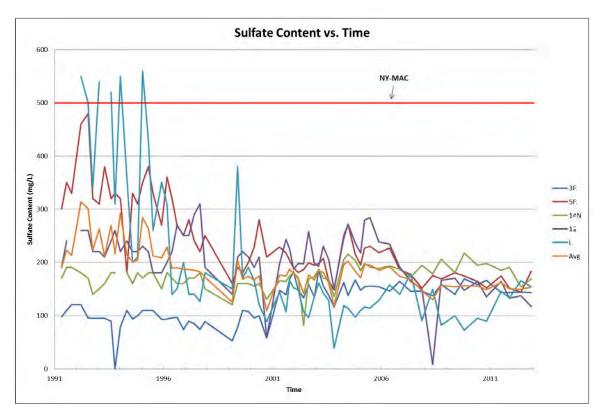
Specific Conductance (umhos/cm)

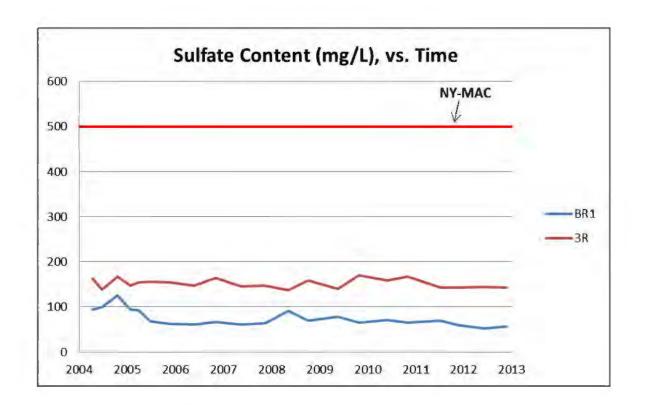


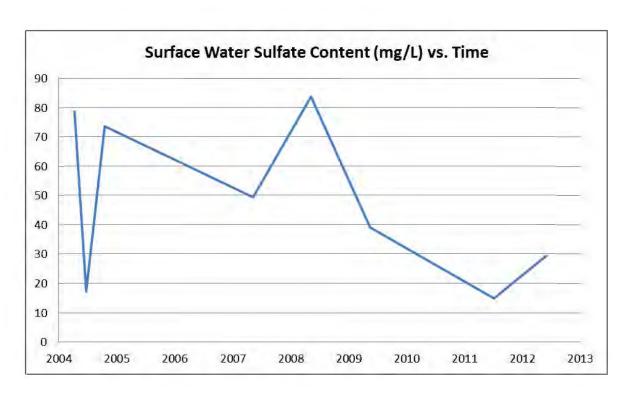




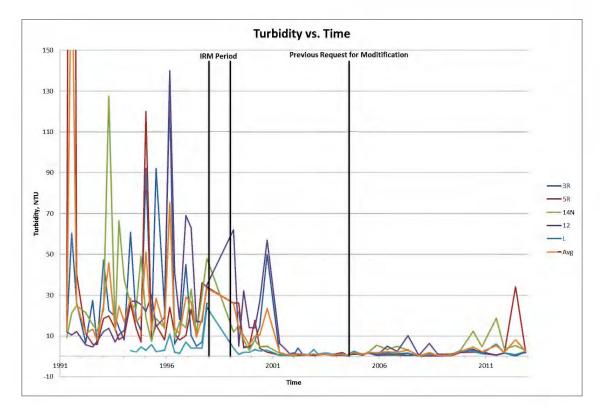
Sulfate Content (mg/L)

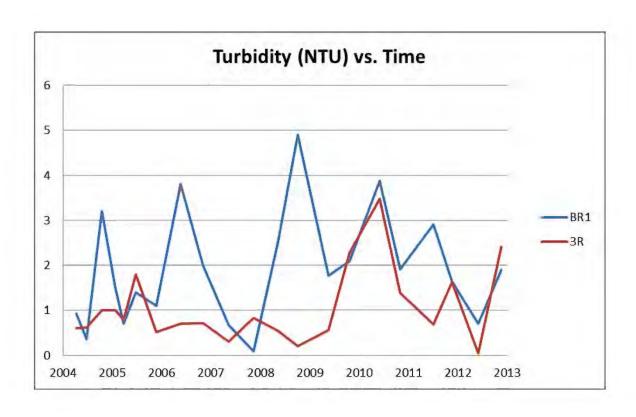


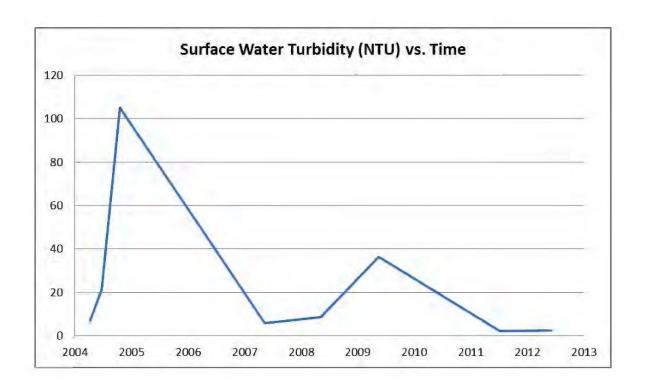




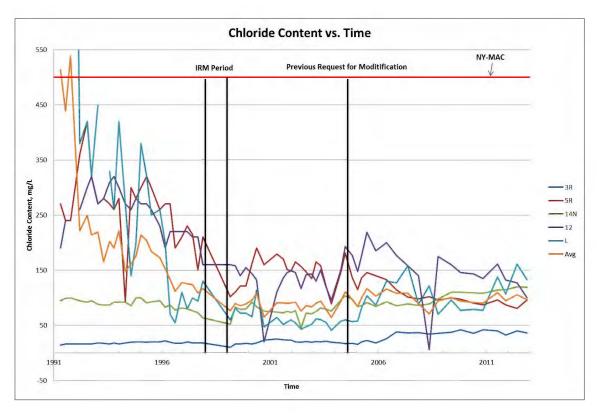
Turbidity (NTU)

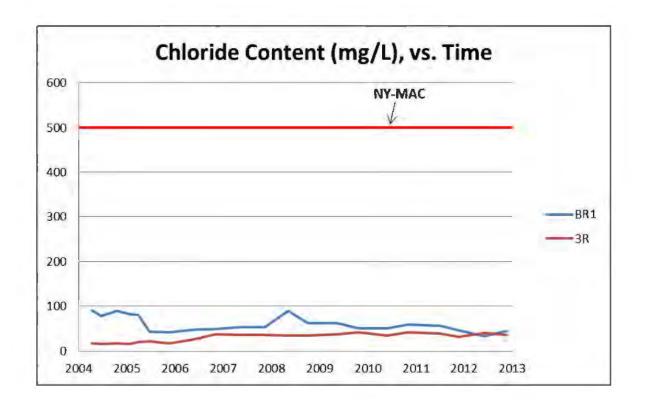


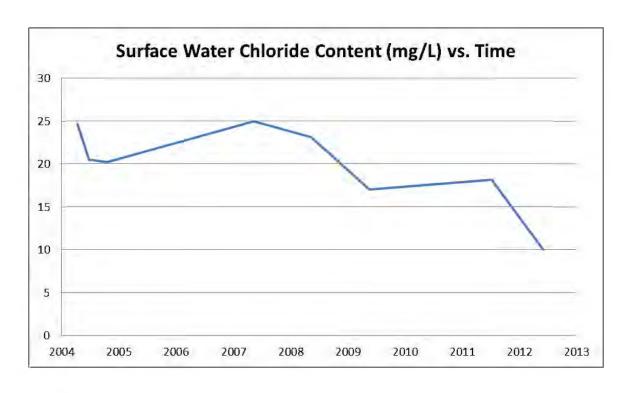




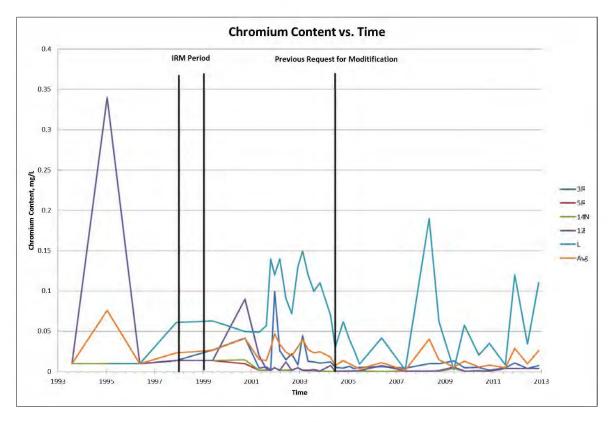
Chloride Content (mg/L)

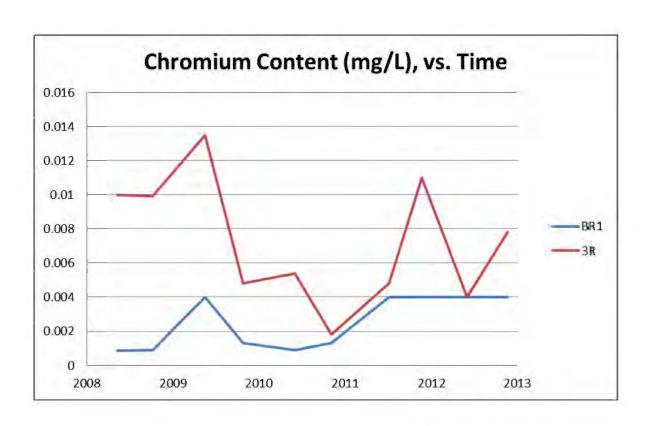


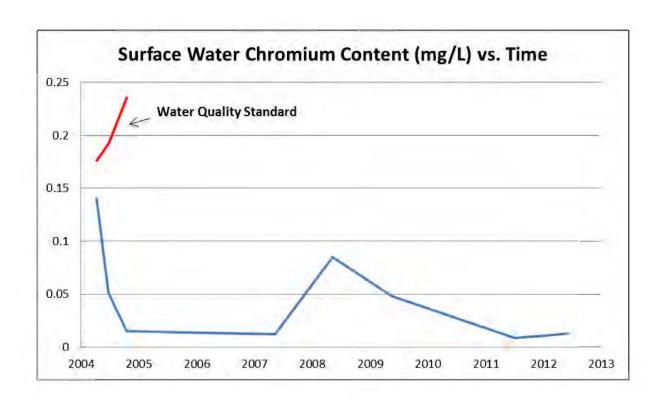




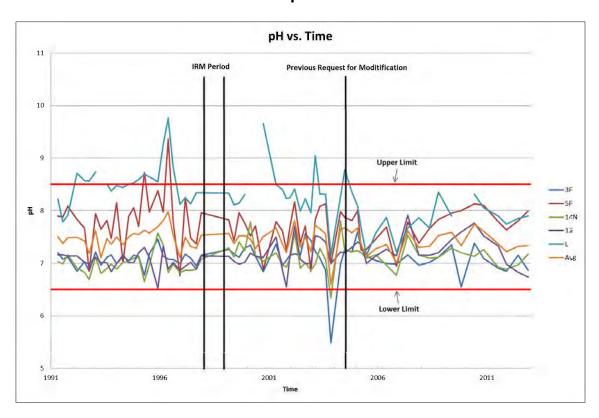
Elemental Chromium Content (mg/L)

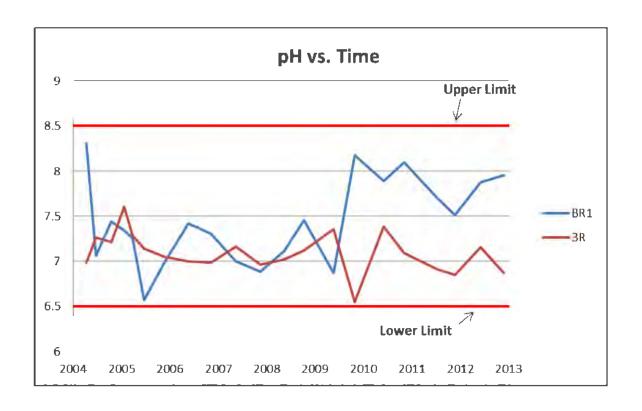


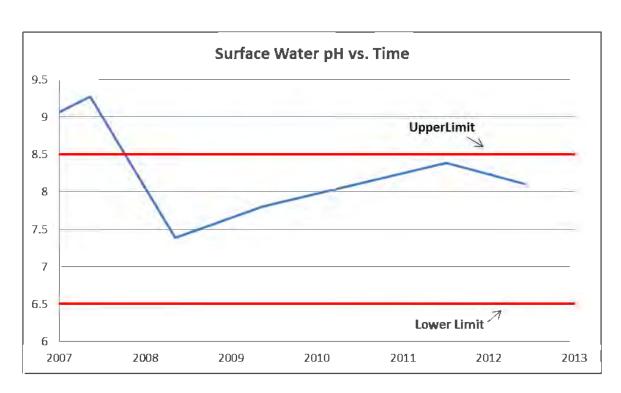




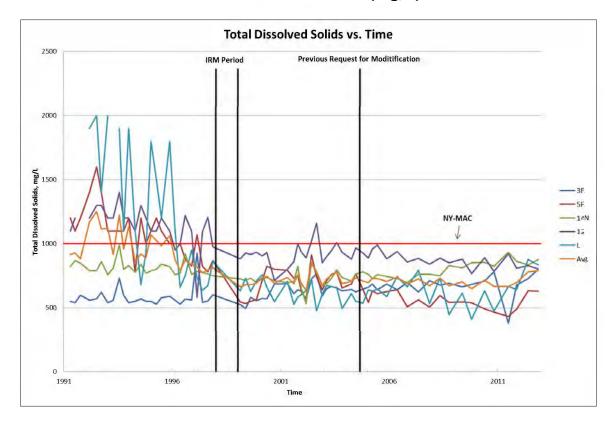
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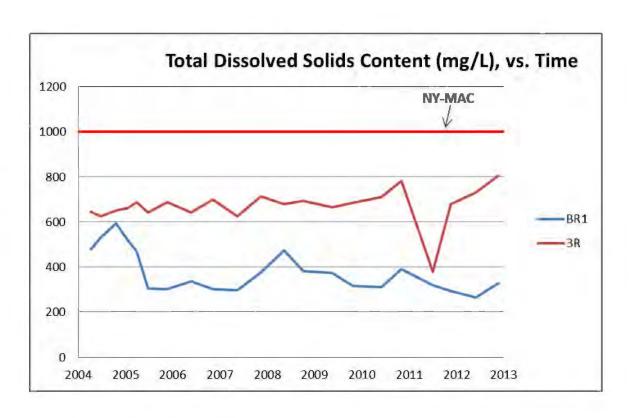


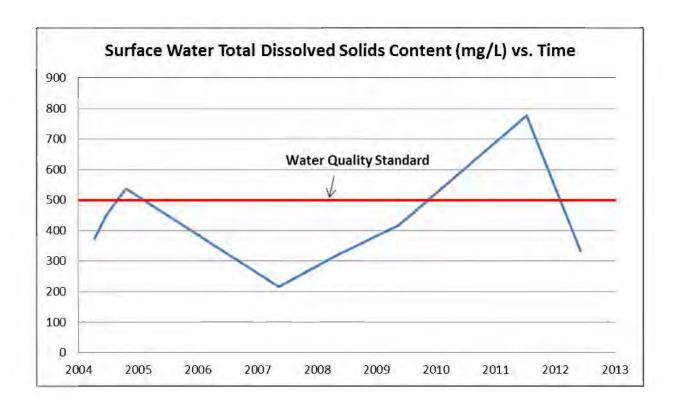




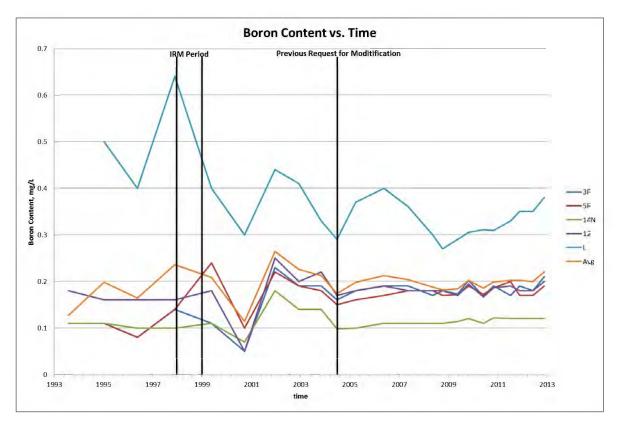
Total Dissolved Solids (mg/L)

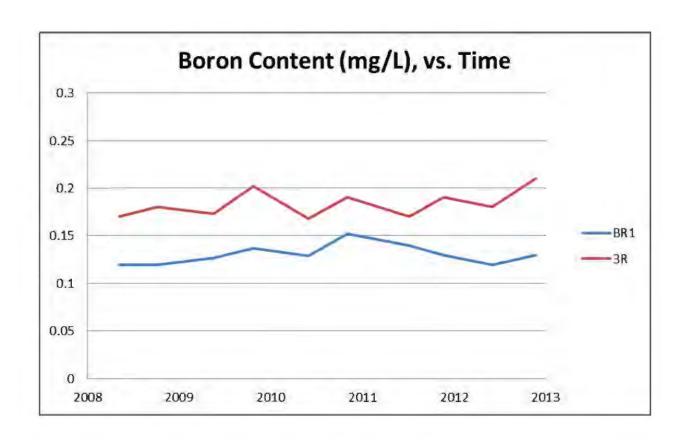


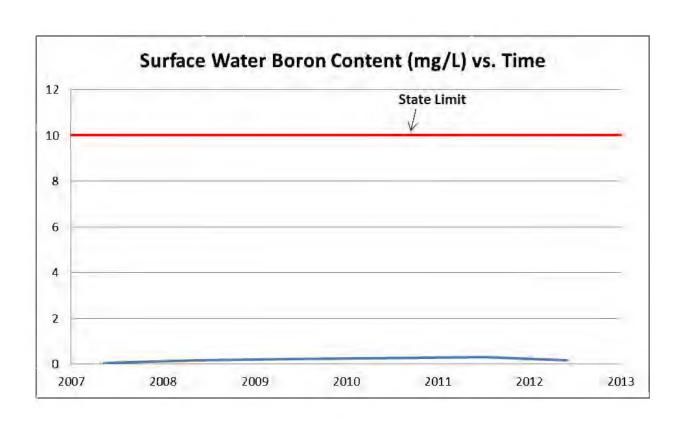




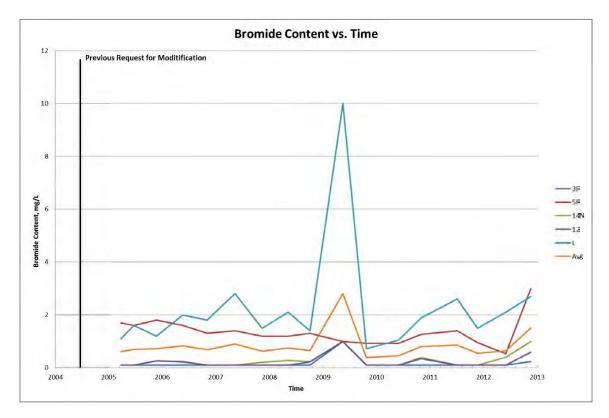
Boron Content (mg/L)

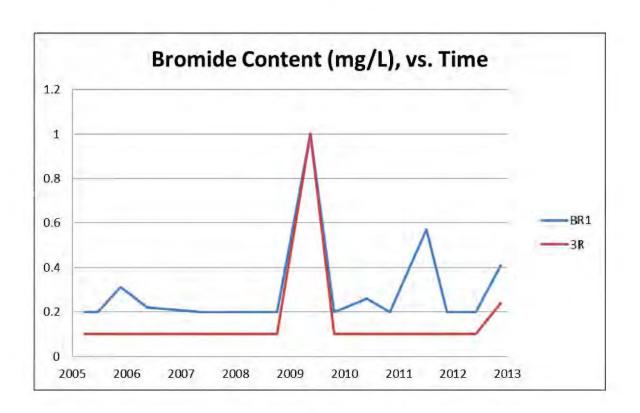


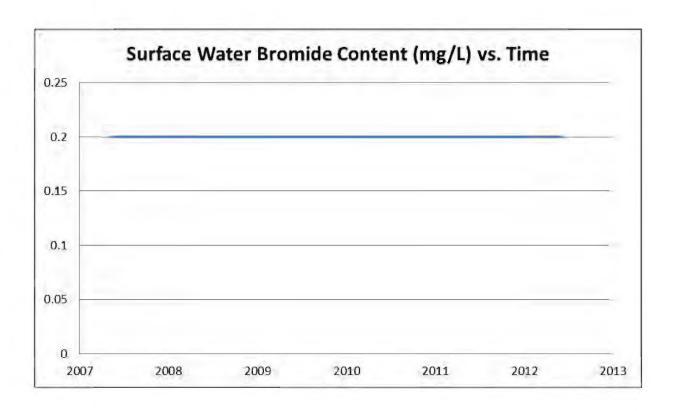




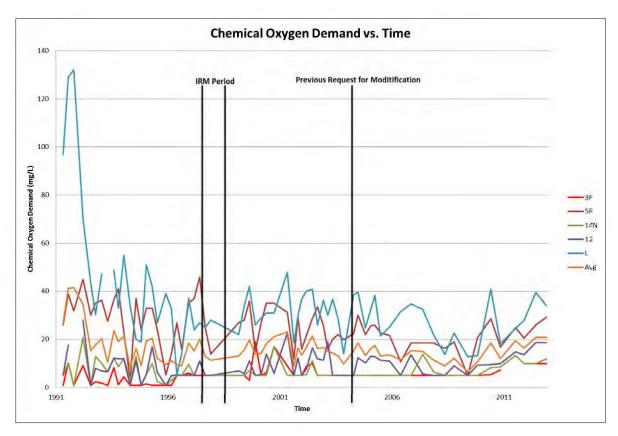
Bromide Content (mg/L)

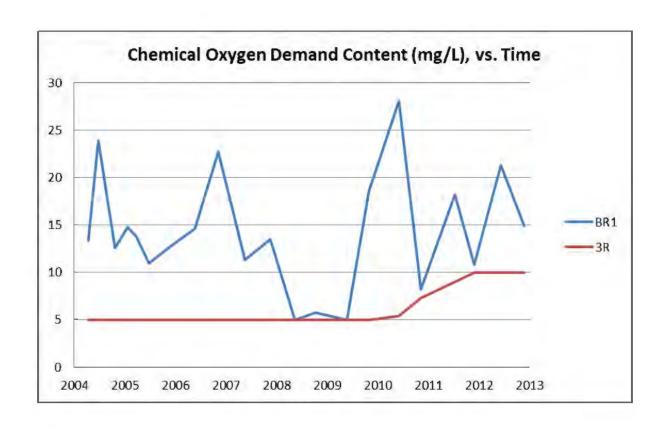


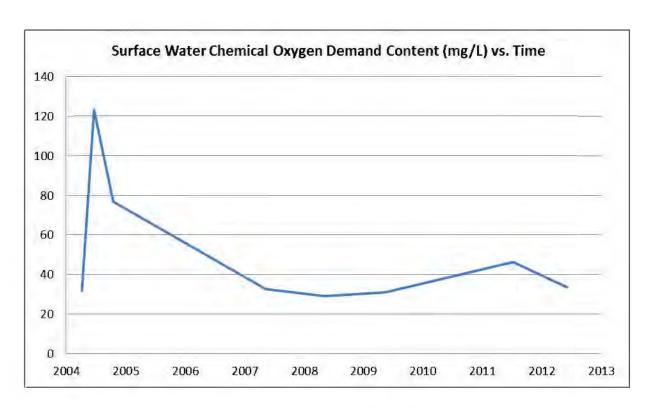




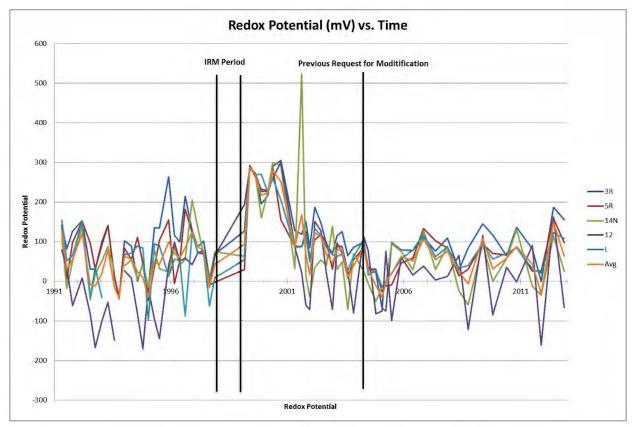
Chemical Oxygen Demand (mg/L)

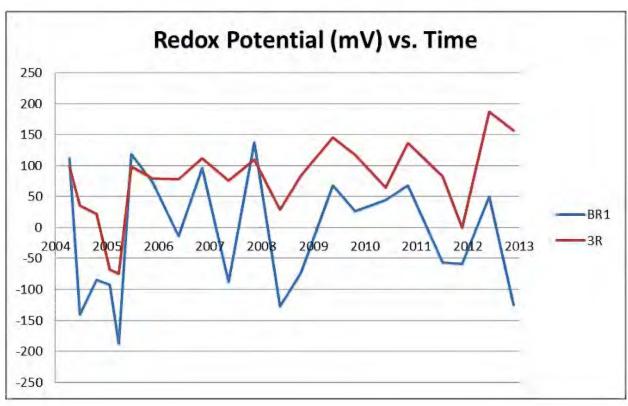


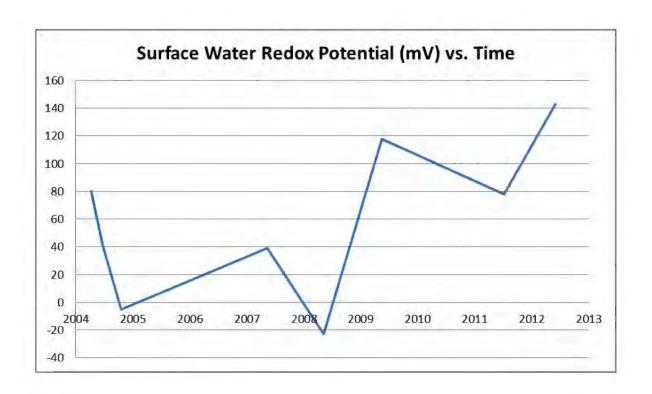




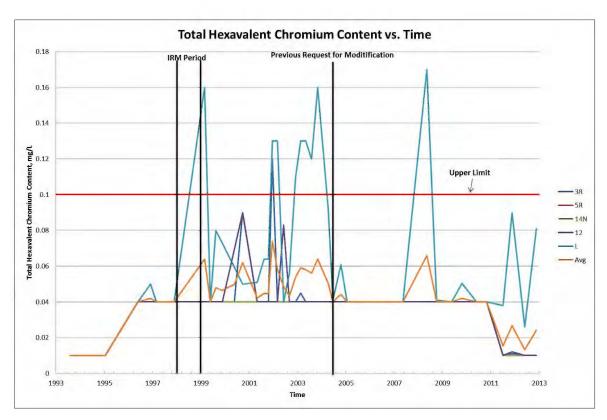
Redox Potential (mV)

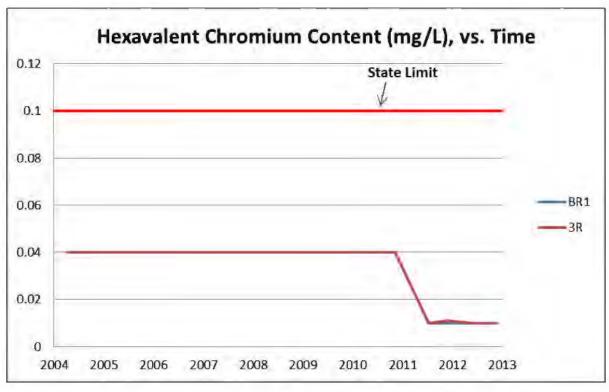


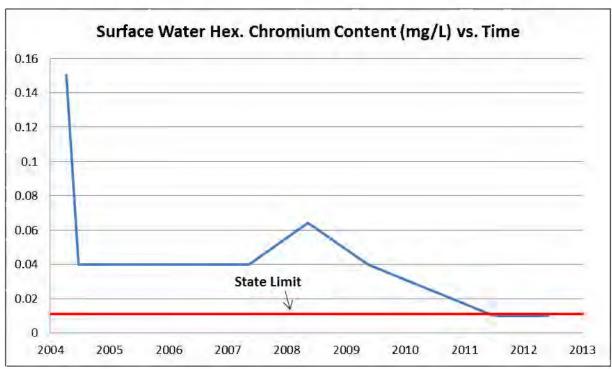




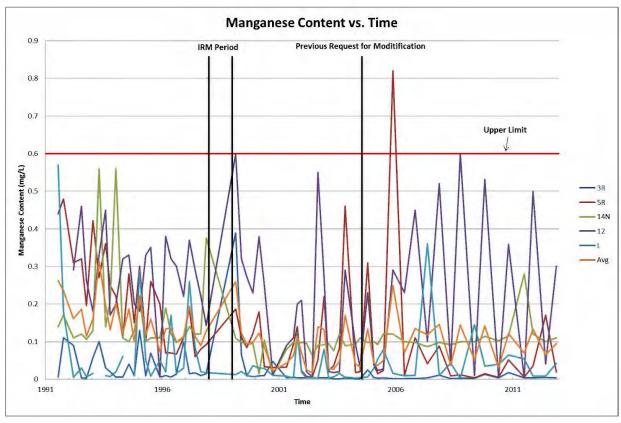
Total Hexavalent Chromium Content (mg/L)

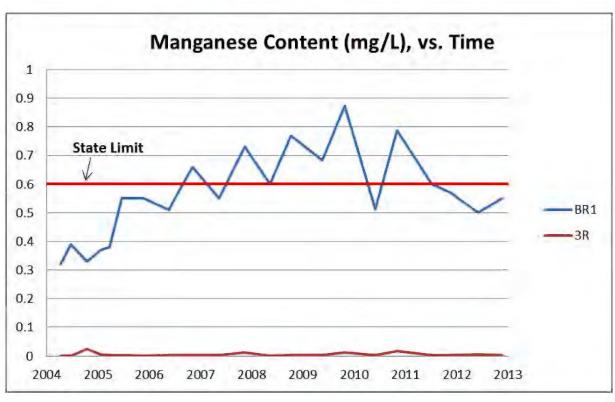


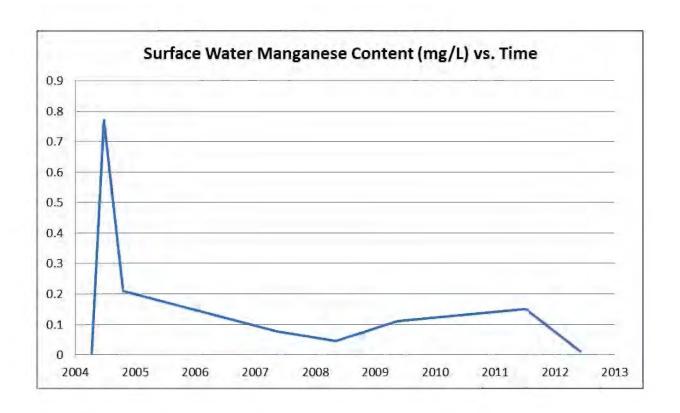




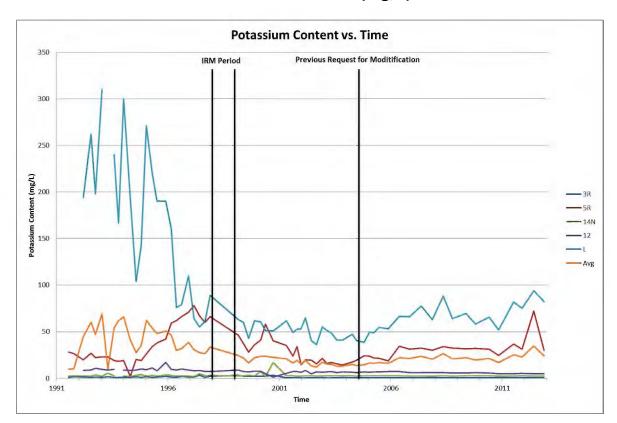
Manganese Content (mg/L)

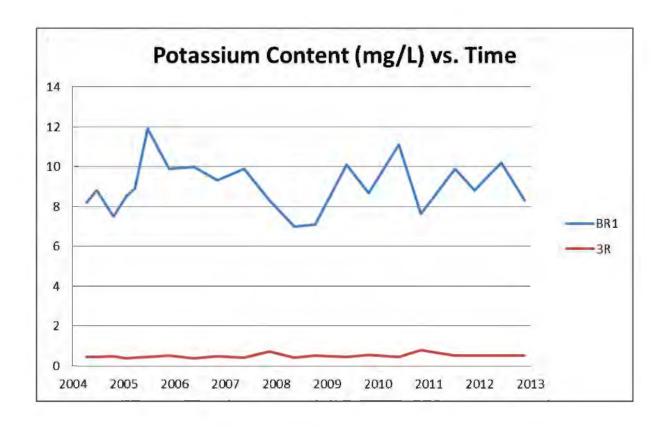


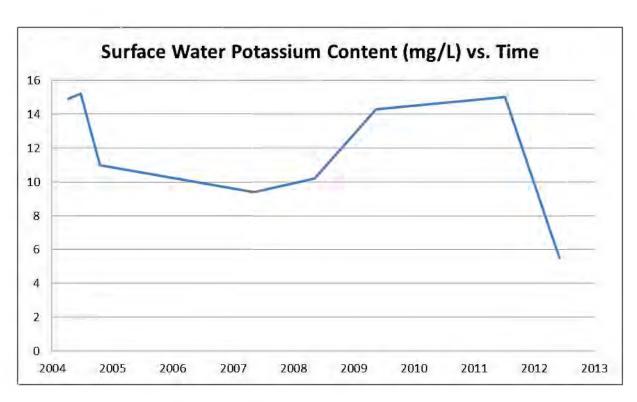




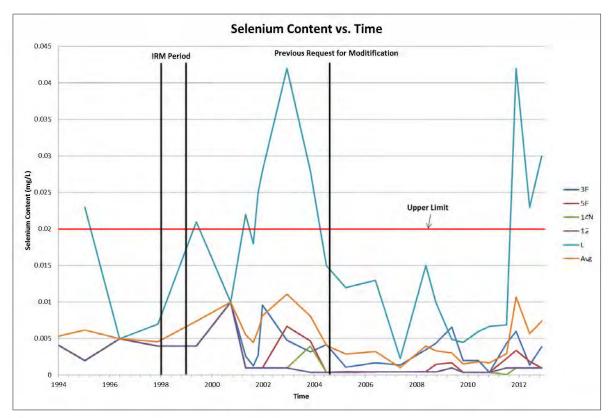
Potassium Content (mg/L)

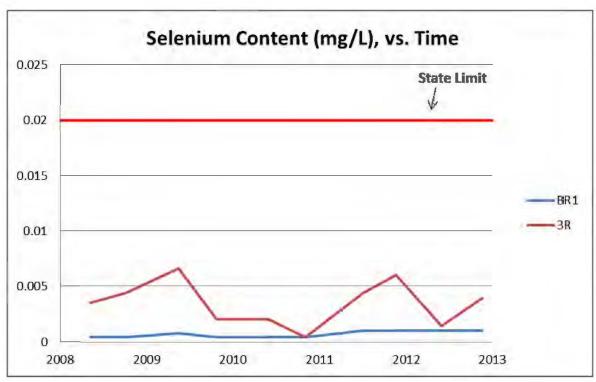


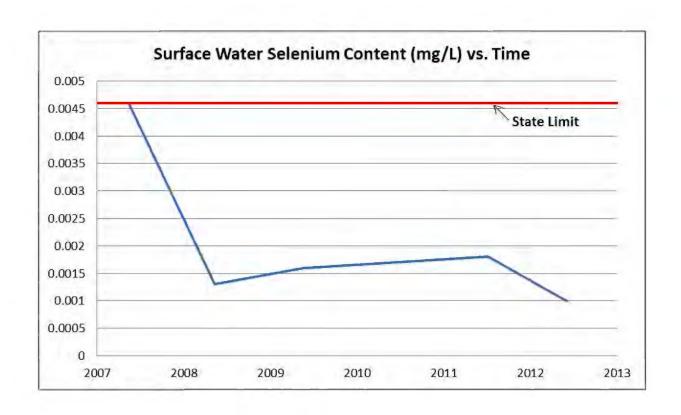




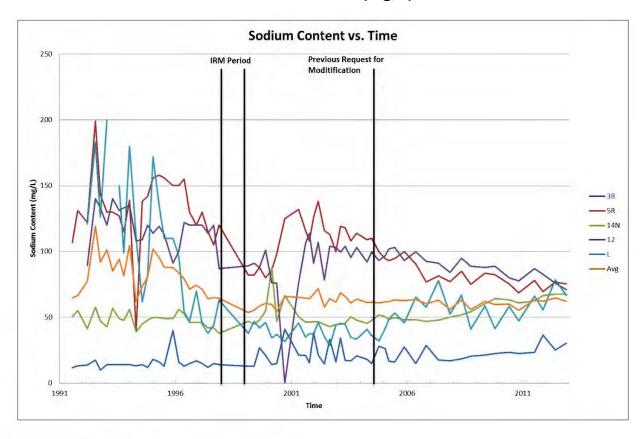
Selenium Content (mg/L)

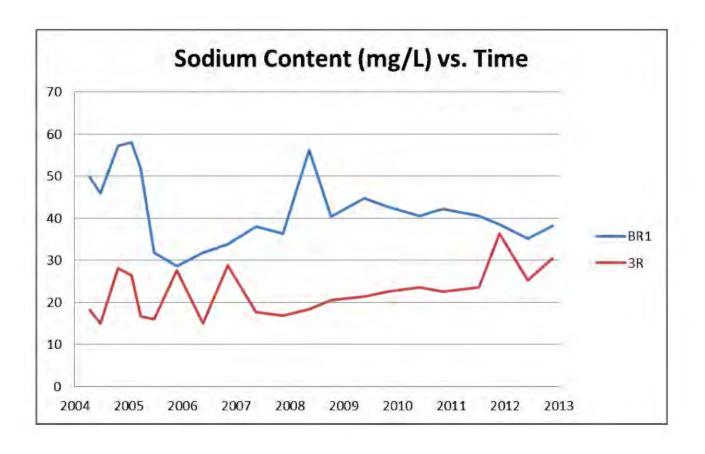


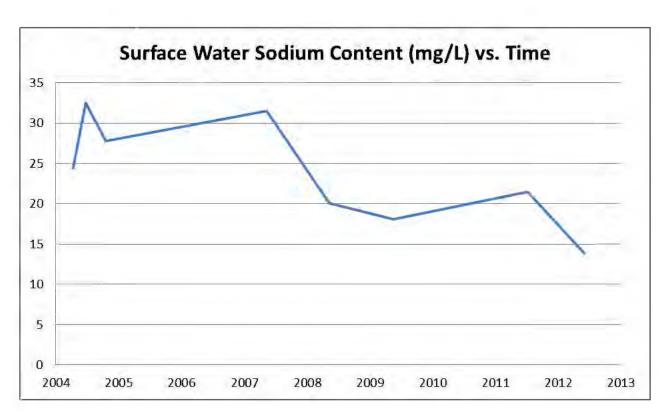




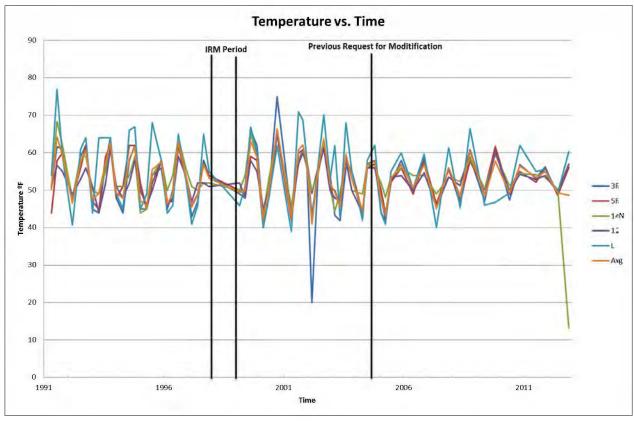
Sodium Content (mg/L)

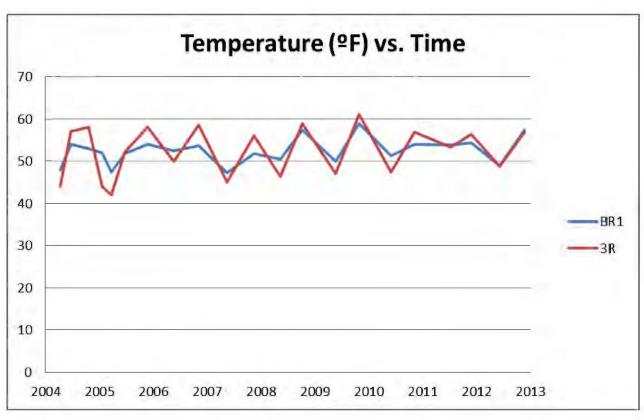


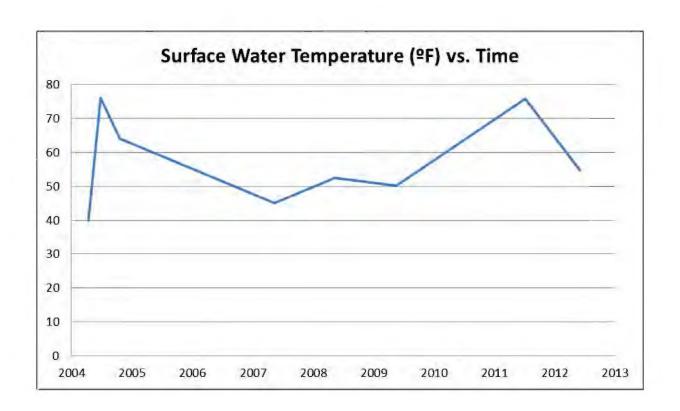




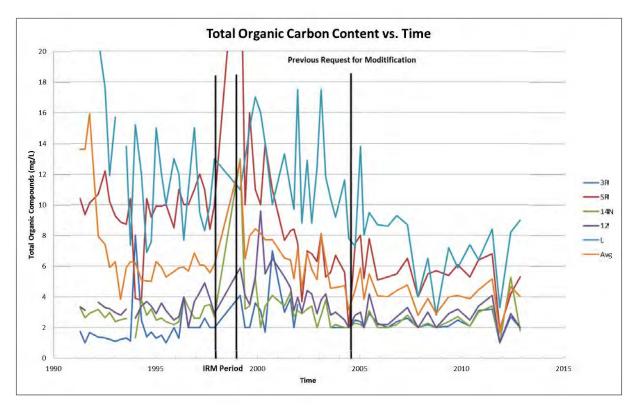
Temperature (ºF)

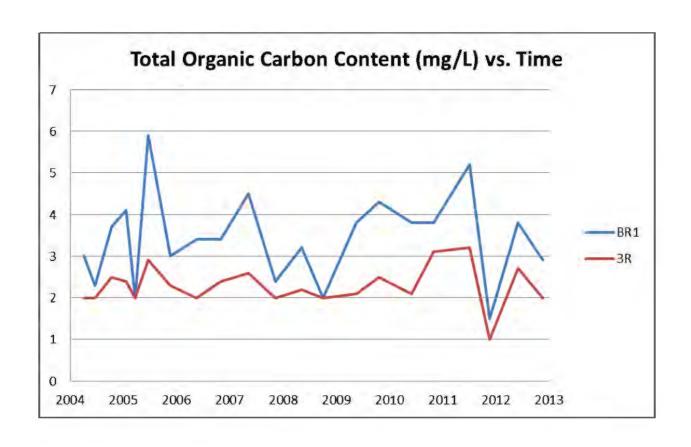


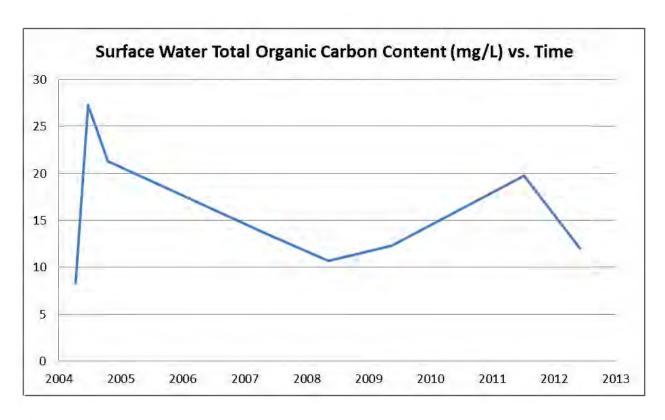




Total Organic Carbon Content (mg/L)







APPENDIX D HISTORICAL PARAMETER STATISTICAL VALUES

Arsenic Content, mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
7	Pre-IRM	3.50E-03	3.50E-03	3.50E-03	3.50E-03	1.33E-02	5.05E-03
	FIE-IKIVI	1.73E-03	1.73E-03	1.73E-03	1.73E-03	1.27E-02	1.72E-03
	Post-IRM, Pre-report	6.97E-03	7.30E-03	6.97E-03	6.97E-03	1.01E-02	7.66E-03
	•	3.49E-03	2.98E-03	3.49E-03	3.49E-03	3.57E-03	3.36E-03
Arithmetic		5.99E-03	6.48E-03	6.48E-03	6.48E-03	8.03E-03	6.69E-03
Mean*		2.92E-03	3.03E-03	3.03E-03	3.03E-03	2.58E-03	2.61E-03
		6.30E-03	6.74E-03	6.63E-03	6.63E-03	8.69E-03	7.00E-03
		3.05E-03	2.96E-03	3.09E-03	3.09E-03	2.99E-03	2.81E-03
		5.81E-03	6.17E-03	6.09E-03	6.09E-03	9.32E-03	6.66E-03
	Overall	3.03E-03	3.02E-03	3.11E-03	3.11E-03	5.08E-03	2.73E-03
	Pre-IRM	3.50E-03	3.50E-03	3.50E-03	3.50E-03	7.00E-03	5.00E-03
	Post-IRM, Pre-report	7.45E-03	7.45E-03	7.45E-03	7.45E-03	1.03E-02	8.01E-03
Median	Post-IRM, Post-report	5.60E-03	5.60E-03	5.60E-03	5.60E-03	9.10E-03	6.30E-03
	Post-IRM	5.60E-03	5.60E-03	5.60E-03	5.60E-03	9.10E-03	6.30E-03
	Overall	5.00E-03	5.00E-03	5.00E-03	5.00E-03	8.30E-03	5.88E-03
	Pre-IRM	3.16E-03	3.16E-03	3.16E-03	3.16E-03	9.93E-03	4.82E-03
Coomotrio	Post-IRM, Pre-report	6.03E-03	6.77E-03	6.03E-03	6.03E-03	9.57E-03	6.98E-03
Geometric	Post-IRM, Post-report	5.38E-03	5.81E-03	5.81E-03	5.81E-03	7.59E-03	6.21E-03
Mean	Post-IRM	5.58E-03	6.10E-03	5.88E-03	5.88E-03	8.17E-03	6.44E-03
	Overall	5.05E-03	5.44E-03	5.28E-03	5.28E-03	8.39E-03	6.13E-03

^{*} Subtended with artithmetic standard deviation

Comments

- New York Effluent Groundwater Upper Limitation
- 0.05 mg/L
- All well measurements have been well below effluent groundwater limitation
- Most data have been below detection limit
- Downgradient well measurements are not significantly higher than upgradient measurements

	Mean + SD	Mean - SD							
16	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average			
Post-IRM, Pre-report	1.0E-02	4.3E-03	3.5E-03	3.5E-03	6.5E-03	4.3E-03			
Post-IRM, Post-report	8.9E-03	3.4E-03	3.4E-03	3.4E-03	5.5E-03	4.1E-03			
Post-IRM	9.3E-03	3.8E-03	3.5E-03	3.5E-03	5.7E-03	4.2E-03			

Barium Content, mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	0.0400	0.0400	0.1100	0.0540	0.0090	0.0538
	Pre-IRIVI	0.0141	0.0141	0.0082	0.0307	0.0096	0.0139
	Post-IRM, Pre-report	0.0467	0.0432	0.0908	0.0432	0.0308	0.0509
	hmetic Post-IRM Post-report	0.0121	0.0055	0.0395	0.0071	0.0062	0.0088
Arithmetic		0.0326	0.0538	0.1172	0.0413	0.0687	0.0627
Mean*		0.0061	0.0220	0.0067	0.0064	0.0375	0.0098
	Post-IRM	0.0370	0.0505	0.1089	0.0419	0.0567	0.0590
	Post-IRIVI	0.0105	0.0189	0.0249	0.0065	0.0357	0.0108
	Overall	0.0375	0.0486	0.1091	0.0440	0.0502	0.0581
	Overall	0.0109	0.0183	0.0227	0.0136	0.0372	0.0113
	Pre-IRM	0.0450	0.0450	0.1100	0.0400	0.0050	0.0518
	Post-IRM, Pre-report	0.0485	0.0420	0.1055	0.0410	0.0305	0.0539
Median	Post-IRM, Post-report	0.0302	0.0470	0.1200	0.0400	0.0616	0.0608
	Post-IRM	0.0330	0.0430	0.1100	0.0400	0.0460	0.0580
	Overall	0.0350	0.0430	0.1100	0.0400	0.0437	0.0574
	Pre-IRM	0.0376	0.0376	0.1098	0.0490	0.0058	0.0525
Coomotrio	Post-IRM, Pre-report	0.0451	0.0429	0.0730	0.0427	0.0303	0.0502
Geometric	Post-IRM, Post-report	0.0321	0.0510	0.1171	0.0410	0.0624	0.0621
Mean	Post-IRM	0.0358	0.0483	0.1009	0.0415	0.0496	0.0581
	Overall	0.0361	0.0462	0.1024	0.0427	0.0371	0.0571

^{*} Subtended with artithmetic standard deviation

Comments

- New York Effluent Groundwater Upper Limitation
- 2 mg/L
- All well measurements have been well below effluent groundwater limitation
- Downgradient well measurements are not significantly higher than upgradient measurements

	Mean + SD	Mean - SD						
la la	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average		
Post-IRM, Pre-report	5.9E-02	3.8E-02	5.1E-02	3.6E-02	2.5E-02	4.2E-02		
Post-IRM, Post-report	3.9E-02	3.2E-02	1.1E-01	3.5E-02	3.1E-02	5.3E-02		
Post-IRM	4.8E-02	3.2E-02	8.4E-02	3.5E-02	2.1E-02	4.8E-02		

Lead Content, mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	5.84E-03	4.84E-03	7.57E-03	4.52E-03	4.70E-03	5.59E-03
	FIE-IKIVI	3.85E-03	1.89E-03	9.11E-03	1.08E-03	1.61E-03	2.35E-03
	Post-IRM, Pre-report	1.44E-02	1.03E-02	1.01E-02	1.04E-02	9.95E-03	1.10E-02
	F OSt-II (III, FTe-Teport	2.29E-02	1.63E-02	1.63E-02	1.63E-02	1.64E-02	1.65E-02
Arithmetic	Post-IRM, Post-report	2.95E-03	2.95E-03	2.97E-03	2.99E-03	2.96E-03	2.97E-03
Mean*	Mean*	1.41E-03	1.41E-03	1.40E-03	1.38E-03	1.43E-03	1.41E-03
	Post-IRM	8.98E-03	6.80E-03	6.71E-03	6.87E-03	6.63E-03	7.20E-03
Po	Post-IRIVI	1.74E-02	1.23E-02	1.23E-02	1.23E-02	1.23E-02	1.25E-02
	Overall	7.77E-03	6.05E-03	7.03E-03	6.01E-03	5.93E-03	6.58E-03
	Overall	1.39E-02	9.70E-03	1.11E-02	9.86E-03	9.86E-03	9.91E-03
	Pre-IRM	5.00E-03	5.00E-03	5.00E-03	5.00E-03	5.00E-03	5.00E-03
	Post-IRM, Pre-report	1.00E-02	8.00E-03	5.00E-03	1.00E-02	5.00E-03	1.00E-02
Median	Post-IRM, Post-report	2.90E-03	2.90E-03	2.90E-03	2.90E-03	2.90E-03	2.90E-03
	Post-IRM	4.40E-03	4.40E-03	3.90E-03	3.80E-03	3.65E-03	4.40E-03
	Overall	5.00E-03	5.00E-03	5.00E-03	5.00E-03	5.00E-03	5.00E-03
	Pre-IRM	5.10E-03	4.50E-03	5.38E-03	4.34E-03	4.37E-03	5.21E-03
Caamatria	Post-IRM, Pre-report	7.86E-03	6.66E-03	6.45E-03	6.53E-03	6.12E-03	7.11E-03
Geometric	Post-IRM, Post-report	2.63E-03	2.63E-03	2.65E-03	2.69E-03	2.64E-03	2.65E-03
Mean	Post-IRM	4.67E-03	4.28E-03	4.23E-03	4.28E-03	4.10E-03	4.45E-0
	Overall	4.83E-03	4.37E-03	4.63E-03	4.30E-03	4.20E-03	4.73E-03

^{*} Subtended with artithmetic standard deviation

Comments

- New York Effluent Groundwater Upper Limitation 0.05 mg/L
- Two contraventions of limit since IRM: One in 1999, and the other was because detection limit > state limit
- All measurements since 1999 have been below state limitation
- Most measurements are below detection limit
- Downgradient well measurements are not significantly different than upgradient well measurements
- Overall reduction and stabilization of parameter measurements

	Mean + SD	Mean - SD						
	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average		
Post-IRM, Pre-report	3.74E-02	-6.00E-03	-6.24E-03	-5.97E-03	-6.46E-03	-5.44E-03		
Post-IRM, Post-report	4.37E-03	1.54E-03	1.57E-03	1.61E-03	1.53E-03	1.56E-03		
Post-IRM	2.64E-02	-5.47E-03	-5.57E-03	-5.45E-03	-5.68E-03	-5.32E-03		

Mercury Content, mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	7.25E-04	7.25E-04	7.25E-04	7.25E-04	6.33E-04	7.25E-04
	FIE-IKIVI	3.20E-04	3.20E-04	3.20E-04	3.20E-04	3.21E-04	3.20E-04
	Post-IRM, Pre-report	4.83E-04	4.83E-04	4.83E-04	4.83E-04	4.83E-04	4.83E-04
		4.08E-05	4.08E-05	4.08E-05	4.08E-05	4.08E-05	4.08E-05
Arithmetic	Post-IRM, Post-report	2.92E-04	2.92E-04	2.92E-04	2.92E-04	2.92E-04	2.92E-04
Mean*	r ost-irvii, r ost-report	1.75E-04	1.75E-04	1.75E-04	1.75E-04	1.75E-04	1.75E-04
	Post-IRM	3.53E-04	3.53E-04	3.53E-04	3.53E-04	3.53E-04	3.53E-04
	Overall	1.71E-04	1.71E-04	1.71E-04	1.71E-04	1.71E-04	1.71E-04
		4.17E-04	4.17E-04	4.17E-04	4.17E-04	3.91E-04	4.17E-04
	Overall	2.42E-04	2.42E-04	2.42E-04	2.42E-04	2.11E-04	2.42E-04
	Pre-IRM	7.50E-04	7.50E-04	7.50E-04	7.50E-04	5.00E-04	7.50E-04
	Post-IRM, Pre-report	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04
Median	Post-IRM, Post-report	2.00E-04	2.00E-04	2.00E-04	2.00E-04	2.00E-04	2.00E-04
	Post-IRM	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04
	Overall	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04
	Pre-IRM	6.69E-04	6.69E-04	6.69E-04	6.69E-04	5.85E-04	6.69E-04
Geometric	Post-IRM, Pre-report	4.82E-04	4.82E-04	4.82E-04	4.82E-04	4.82E-04	4.82E-04
	Post-IRM, Post-report	2.42E-04	2.42E-04	2.42E-04	2.42E-04	2.42E-04	2.42E-04
Mean	Post-IRM	3.01E-04	3.01E-04	3.01E-04	3.01E-04	3.01E-04	3.01E-04
	Overall	3.46E-04	3.46E-04	3.46E-04	3.46E-04	3.30E-04	3.46E-04

^{*} Subtended with artithmetic standard deviation

Comments

- New York Effluent Groundwater Upper Limitation

0.0014 mg/L

- Never any contraventions of state limitation
- Most measurements, while at detection limit, are well below state limitation
- Overall reduction and stabilization of parameter measurements

	Mean + SD	Mean - SD						
L. C.	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average		
Post-IRM, Pre-report	5.24E-04	4.43E-04	4.43E-04	4.43E-04	4.43E-04	4.43E-04		
Post-IRM, Post-report	4.68E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04		
Post-IRM	5.24E-04	1.81E-04	1.81E-04	1.81E-04	1.81E-04	1.81E-04		

Specific Conductance (umhos/cm)

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	906	1693	1168	1749	2555	1606
	Pre-irivi	221	506	130	319	1639	371
	Post-IRM, Pre-report	936	1120	1109	1437	958	1112
	Fost-ikivi, Fre-report	137	131	95	159	118	95
Arithmetic	Post IPM Post report	1073	929	1217	1363	1050	1126
Mean* F	Post-IRM, Post-report	60	84	61	104	165	49
	Post IPM	1001	1030	1160	1402	1002	1119
	Post-IRM	127	146	96	139	148	76
	Overall	964	1291	1163	1539	1599	1311
		175	467	110	283	1265	338
	Pre-IRM	840	1647	1145	1750	1900	1561
	Post-IRM, Pre-report	1005	1155	1129	1443	930	1130
Median	Post-IRM, Post-report	1068	943	1194	1351	1060	1126
	Post-IRM	1030	1030	1163	1424	1016	1128
	Overall	998	1164	1157	1470	1078	1173
	Pre-IRM	886	1624	1160	1723	2161	1567
Coomotrio	Post-IRM, Pre-report	925	1112	1105	1429	951	1108
Geometric	Post-IRM, Post-report	1071	926	1215	1359	1038	1125
Mean	Post-IRM	992	1019	1156	1395	991	1116
	Overall	949	1225	1158	1516	1338	1276

^{*} Subtended with artithmetic standard deviation

Comments:

- No federal/state effluent groundwater limitation for this parameter
- Measurements have converged to upgradient well measurements
- Overall reduction and stabilization of measurements

	Mean + SD		Mean - SD						
E.	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average			
Post-IRM, Pre-report	1073	989	1014	1278	839	1017			
Post-IRM, Post-report	1133	846	1156	1259	885	1078			
Post-IRM	1128	883	1064	1263	854	1043			

Sulfate Content mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	93.24	316.92	170.00	231.60	321.18	223.94
	FIE-IKIVI	22.50	66.02	13.23	32.62	158.45	40.88
	Post-IRM, Pre-report	128.86	204.10	162.07	201.67	143.94	168.13
	Fost-IRM, Fre-report	36.93	33.48	28.47	45.31	63.74	25.53
Arithmetic	Post-IRM, Post-report	151.53	183.79	188.53	175.42	122.03	164.26
Mean*	Tost ITAM, Tost Toport	9.89	27.72	14.32	64.08	30.82	18.64
	Post-IRM	139.63	194.45	174.64	189.20	133.53	166.29
	Overall	29.60	32.17	26.26	55.89	51.43	22.32
		121.35	242.70	172.85	205.51	200.12	189.00
	Overall	35.24	77.03	22.16	52.30	136.11	41.80
	Pre-IRM	95.00	320.00	170.00	220.00	310.00	212.67
	Post-IRM, Pre-report	138.00	199.00	165.00	205.00	142.00	174.00
Median	Post-IRM, Post-report	147.00	177.00	190.00	164.00	116.00	156.30
	Post-IRM	145.50	189.50	176.00	197.00	130.50	168.60
	Overall	120.00	219.00	173.00	210.00	148.50	184.12
	Pre-IRM	75.86	310.30	169.49	229.44	282.83	220.62
Coomotrio	Post-IRM, Pre-report	122.68	201.59	159.23	194.39	133.09	166.03
Geometric Mean	Post-IRM, Post-report	151.23	181.86	188.00	151.59	118.30	163.27
iviean	Post-IRM	135.50	191.97	172.30	172.73	125.85	164.71
	Overall	107.82	231.94	171.21	192.66	167.74	184.81

^{*} Subtended with artithmetic standard deviation

Comments

- New York Effluent Groundwater Upper Limitation

500 mg/L

- No contraventions since 1995
- Sulfate content has been well-below limitation since IRM period and have been converging to upgradient values
- Downgradient well measurements are not significantly higher than upgradient well measurements
- '- Overall reduction and stabilization of parameter measurements

	Mean + SD	Mean - SD						
P.	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average		
Post-IRM, Pre-report	161	156	174	111	91	146		
Post-IRM, Post-report	169	162	148	133	82	144		
Post-IRM	157	166	151	153	64	147		

Tubidity, NTU

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	30.8	48.3	29.5	25.9	5.4	30.6
		31.8	144.9	26.4	28.2	5.7	39.7
	Post-IRM, Pre-report	5.8	4.4	3.2	11.1	1.6	5.4
	Fost-ikivi, Fre-report	11.8	8.1	4.2	18.4	1.1	7.6
Arithmetic	Post-IRM, Post-report	1.1	2.9	4.2	2.3	1.7	2.4
Mean*	Post-ikivi, Post-report	0.9	7.6	4.6	2.4	1.3	1.9
	Post-IRM	3.5	3.7	3.6	6.9	1.7	4.0
	Post-IRM	8.7	7.8	4.3	14.0	1.2	5.8
	Overall	14.4	21.2	14.0	14.4	2.7	14.5
		24.9	92.7	21.1	22.6	3.5	28.2
	Pre-IRM	18.8	13.7	21.4	17.0	4.0	19.2
	Post-IRM, Pre-report	0.9	0.8	0.9	1.6	1.2	1.1
Median	Post-IRM, Post-report	0.8	1.3	2.9	1.6	1.5	2.0
	Post-IRM	0.8	0.9	1.8	1.6	1.4	1.8
	Overall	4.0	3.1	5.5	5.9	1.7	6.7
	Pre-IRM	19.9	17.3	22.7	18.3	4.0	21.8
Coomotrio	Post-IRM, Pre-report	1.5	1.1	1.4	3.2	1.2	2.2
Geometric	Post-IRM, Post-report	0.8	1.0	2.7	1.5	1.3	1.8
Mean	Post-IRM	1.1	1.0	1.9	2.3	1.3	2.0
	Overall	3.5	3.1	5.1	5.1	1.8	5.1

^{*} Subtended with artithmetic standard deviation

Comments:

- No federal/state effluent groundwater limitation for this parameter
- Measurements have converged to upgradient well measurements
- Downgradient well measurements are not significantly higher than upgradient well measurements
 - Upgradient well measurements of 168 on 1/27/99 thrown out as outlier
- '- Overall reduction and stabilization of parameter measurements

	Mean + SD		Mean - SD							
LE CONTROL DE LA CONTROL DE	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average				
Post-IRM, Pre-report	2	-5	0	0	0	0				
Post-IRM, Post-report	12	-4	-1	-7	0	-2				
Post-IRM	39	-71	-7	-8	-1	-14				

Chloride Content mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	17.85	261.81	88.58	251.20	425.56	209.22
		1.85	64.24	8.93	43.14	534.74	114.13
	Post-IRM, Pre-report	19.25	146.67	77.14	135.15	60.84	87.81
	Fost-iRivi, Fie-report	3.41	27.16	12.57	33.18	15.62	11.29
Arithmetic	Post-IRM, Post-report	31.71	107.96	99.48	150.79	102.69	98.53
Mean*	Post-ikivi, Post-report	8.91	20.39	12.83	44.72	31.93	11.24
	Post-IRM	25.17	128.28	87.75	142.58	80.72	92.90
	Post-IRIVI	9.07	30.88	16.87	39.37	32.31	12.37
	Overall	22.28	180.88	88.08	184.36	213.35	138.72
		7.98	80.51	14.20	66.92	369.39	91.55
	Pre-IRM	18.00	270.00	91.50	260.00	260.00	180.30
	Post-IRM, Pre-report	19.40	151.00	76.20	143.00	59.90	90.28
Median	Post-IRM, Post-report	35.30	100.00	97.40	158.00	96.00	96.80
	Post-IRM	21.65	127.00	85.15	146.00	71.10	91.88
	Overall	19.25	157.50	87.00	161.00	94.00	106.64
	Pre-IRM	17.75	252.69	88.11	247.48	259.97	188.90
Coomotric	Post-IRM, Pre-report	18.92	144.04	76.06	127.12	59.27	87.09
Geometric	Post-IRM, Post-report	30.27	106.24	98.71	131.69	98.01	97.89
Mean	Post-IRM	23.65	124.65	86.08	129.27	75.26	92.06
	Overall	21.12	164.66	86.88	165.95	121.24	122.19

^{*} Subtended with artithmetic standard deviation

Comments

- New York Effluent Groundwater Upper Limitation

500 mg/L

- No contraventions since before IRM period
- Downgradient and leachate well measurements are still significantly higher than upgradient well measurements
- Overall reduction and stabilization of parameter measurements

	Mean + SD					
	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
Post-IRM, Pre-report	23	120	65	102	45	77
Post-IRM, Post-report	41	88	87	106	71	87
Post-IRM	34	97	71	103	48	81

Chromium Content, mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	0.0055	0.0110	0.0113	0.0935	0.0270	0.0328
		0.0010	0.0020	0.0023	0.1643	0.0294	0.0395
	Post-IRM, Pre-report	0.0220	0.0033	0.0036	0.0107	0.0933	0.0266
	FOST-IINIA, FTE-TEPOR	0.0244	0.0037	0.0044	0.0218	0.0381	0.0106
Arithmetic	Post-IRM, Post-report	0.0065	0.0018	0.0018	0.0025	0.0515	0.0128
Mean*	Fost-IRIVI, Fost-report	0.0031	0.0015	0.0015	0.0021	0.0505	0.0104
	Post-IRM	0.0143	0.0026	0.0027	0.0066	0.0724	0.0197
	Post-IRIVI	0.0188	0.0029	0.0034	0.0158	0.0489	0.0125
	Overall	0.0139	0.0035	0.0036	0.0163	0.0685	0.0208
	Overall	0.0177	0.0038	0.0042	0.0575	0.0489	0.0153
	Pre-IRM	0.0050	0.0100	0.0100	0.0120	0.0100	0.0155
	Post-IRM, Pre-report	0.0125	0.0020	0.0020	0.0033	0.0955	0.0255
Median	Post-IRM, Post-report	0.0055	0.0009	0.0009	0.0014	0.0376	0.0099
	Post-IRM	0.0082	0.0019	0.0017	0.0020	0.0620	0.0169
	Overall	0.0100	0.0020	0.0020	0.0033	0.0610	0.0169
-	Pre-IRM	0.0054	0.0109	0.0112	0.0263	0.0183	0.0199
Geometric	Post-IRM, Pre-report	0.0143	0.0023	0.0023	0.0042	0.0849	0.0244
	Post-IRM, Post-report	0.0059	0.0014	0.0014	0.0019	0.0295	0.0097
Mean	Post-IRM	0.0091	0.0018	0.0018	0.0028	0.0500	0.0154
	Overall	0.0093	0.0022	0.0022	0.0036	0.0459	0.0159

^{*} Subtended with artithmetic standard deviation

Comments:

- No federal/state effluent groundwater limitation for this parameter
- Downgradient well measurements are not significantly higher than upgradient measurements
- Leachate measurementes still fluctuate significantly

	Mean + SD Mean - SD					
La Caración de la Car	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
Post-IRM, Pre-report	4.64E-02	-3.35E-04	-8.13E-04	-1.11E-02	5.52E-02	1.60E-02
Post-IRM, Post-report	9.64E-03	3.24E-04	3.36E-04	4.22E-04	9.93E-04	2.43E-03
Post-IRM	3.31E-02	-2.79E-04	-6.49E-04	-9.19E-03	2.35E-02	7.25E-03

pН

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	7.08	7.84	6.98	7.04	8.51	7.48
		0.14	0.54	0.19	0.16	0.40	0.19
	Post IBM Pro report	7.09	7.64	7.16	7.16	8.33	7.46
	Post-IRM, Pre-report	0.41	0.39	0.32	0.26	0.48	0.26
Arithmetic	Post-IRM, Post-report	7.09	7.71	7.12	7.28	7.84	7.40
Mean*	Post-IRIVI, Post-report	0.23	0.32	0.17	0.30	0.33	0.19
	Post-IRM	7.09	7.67	7.14	7.21	8.09	7.43
	FUSI-IKIVI	0.33	0.35	0.26	0.28	0.48	0.23
	Overall	7.09	7.74	7.08	7.14	8.26	7.45
		0.27	0.44	0.25	0.25	0.49	0.21
	Pre-IRM	7.11	7.89	6.98	7.02	8.50	7.50
	Post-IRM, Pre-report	7.15	7.71	7.12	7.13	8.30	7.50
Median	Post-IRM, Post-report	7.09	7.79	7.15	7.27	7.87	7.35
	Post-IRM	7.14	7.77	7.14	7.15	8.11	7.46
	Overall	7.12	7.80	7.08	7.14	8.31	7.49
	Pre-IRM	7.08	7.82	6.98	7.04	8.50	7.48
Caamatria	Post-IRM, Pre-report	7.08	7.63	7.15	7.15	8.32	7.45
Geometric	Post-IRM, Post-report	7.08	7.70	7.12	7.27	7.83	7.40
Mean	Post-IRM	7.08	7.66	7.14	7.21	8.08	7.43
	Overall	7.08	7.73	7.07	7.14	8.25	7.45

^{*} Subtended with artithmetic standard deviation

Comments

New York Effluent Groundwater Upper LimitationNew York Effluent Groundwater Lower Limitation6.5

- 15 contraventions of limitations Pre-IRM
- 7 contraventions of limitations Post-IRM, Pre-Report
- Zero contraventions since previous request for modification
 - One measurement of a pH of 17 thrown out as an outlier

Total Dissolved Solids, mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	583.62	1081.92	811.54	1140.96	1253.82	961.86
	Pre-IRIVI	80.56	196.92	54.81	156.78	506.40	140.61
	Post-IRM, Pre-report	623.38	697.62	722.57	921.81	628.05	718.69
	FOST-IINIVI, FTE-TEPOR	65.30	105.28	65.05	87.84	77.83	48.89
Arithmetic	Post-IRM, Post-report	673.26	560.11	797.68	873.84	637.53	708.48
Mean*	FOST-ITAINI, FOST-Teport	84.13	66.26	61.86	59.40	124.57	37.06
	Post-IRM	647.08	632.30	758.25	899.03	632.55	713.84
	Overall	78.04	112.01	73.34	78.57	101.44	43.43
		622.08	809.42	779.24	992.08	853.00	811.54
	Overali	84.42	267.30	71.21	164.47	429.73	153.78
	Pre-IRM	560.00	1100.00	795.00	1200.00	1100.00	917.75
	Post-IRM, Pre-report	631.00	714.00	726.00	928.00	632.00	705.80
Median	Post-IRM, Post-report	684.00	546.00	782.00	883.00	640.00	705.80
	Post-IRM	652.50	627.50	748.50	890.00	634.50	705.80
	Overall	615.00	756.00	773.00	939.00	671.00	748.70
	Pre-IRM	579.41	1065.14	809.87	1127.92	1156.08	952.36
Coomotrio	Post-IRM, Pre-report	620.12	689.88	719.62	917.83	623.29	717.15
Geometric	Post-IRM, Post-report	666.94	556.29	795.44	871.93	625.64	707.58
Mean	Post-IRM	641.94	622.84	754.69	895.73	624.41	712.59
	Overall	616.54	769.44	775.96	978.77	776.95	798.84

^{*} Subtended with artithmetic standard deviation

Comments

- New York Effluent Groundwater Upper Limitation
- 1,000 mg/L
- No contraventions since before previous request for modification
- Well 12 values are still significantly higher than upgradient values
- Overall reduction and stabilization of parameter measurements

	Mean + SD	Mean - SD						
N. C.	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average		
Post-IRM, Pre-report	689	592	658	834	550	670		
Post-IRM, Post-report	757	494	736	814	513	671		
Post-IRM	725	520	685	820	531	670		

Boron Content, mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	0.1100	0.1100	0.1050	0.1650	0.5133	0.1814
	FIE-IKIVI	0.0245	0.0245	0.0058	0.0100	0.1206	0.0464
	Post-IRM, Pre-report	0.1550	0.1800	0.1230	0.1783	0.3617	0.1996
	r ost-man, r re-report	0.0650	0.0502	0.0385	0.0691	0.0631	0.0511
Arithmetic	Post-IRM, Post-report	0.1841	0.1776	0.1143	0.1828	0.3327	0.1983
Mean*	Mean* Post-IRM Overall	0.0128	0.0112	0.0066	0.0091	0.0389	0.0111
		0.1749	0.1784	0.1171	0.1814	0.3418	0.1987
		0.0384	0.0280	0.0214	0.0372	0.0480	0.0284
		0.1636	0.1665	0.1150	0.1786	0.3652	0.1957
	Overali	0.0438	0.0378	0.0200	0.0345	0.0836	0.0316
	Pre-IRM	0.1100	0.1100	0.1050	0.1600	0.5000	0.1810
	Post-IRM, Pre-report	0.1750	0.1850	0.1250	0.1900	0.3650	0.2100
Median	Post-IRM, Post-report	0.1800	0.1720	0.1140	0.1800	0.3300	0.2000
	Post-IRM	0.1800	0.1800	0.1140	0.1800	0.3300	0.2020
	Overall	0.1800	0.1710	0.1100	0.1800	0.3500	0.2000
	Pre-IRM	0.1079	0.1079	0.1049	0.1648	0.5040	0.1768
Geometric	Post-IRM, Pre-report	0.1393	0.1733	0.1177	0.1601	0.3570	0.1932
Mean	Post-IRM, Post-report	0.1837	0.1773	0.1141	0.1826	0.3306	0.1980
ivieari	Post-IRM	0.1683	0.1760	0.1153	0.1752	0.3387	0.1965
-	Overall	0.1558	0.1617	0.1134	0.1733	0.3576	0.1929

^{*} Subtended with artithmetic standard deviation

Comments:

- No federal/state effluent groundwater limitation for this parameter
- Downgradient well measurements are not significantly higher than upgradient well measurements Leachate sump content is still significantly higher than that of the upgradient well
- Other wells have shown stabilization

	Mean + SD		Mean - SD							
	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average				
Post-IRM, Pre-report	0.22	0.13	0.08	0.11	0.30	0.15				
Post-IRM, Post-report	0.20	0.17	0.11	0.17	0.29	0.19				
Post-IRM	0.21	0.15	0.10	0.14	0.29	0.17				

Bromide Content, mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	N/A	N/A	N/A	N/A	N/A	N/A
	FIE-IKIVI	N/A	N/A	N/A	N/A	N/A	N/A
	IPost-IRM. Post-report	0.1000	2.2000	0.1000	0.1000	0.7400	0.6480
		N/A	N/A	N/A	N/A	N/A	N/A
Arithmetic		0.1612	1.3588	0.2829	0.2206	2.2388	0.8525
Mean*		0.2188	0.5332	0.2869	0.2402	2.0857	0.5565
	Post-IRM	0.1578	1.4056	0.2728	0.2139	2.1556	0.8411
	Overall	0.2128	0.5540	0.2817	0.2347	2.0540	0.5420
		0.1578	1.4056	0.2728	0.2139	2.1556	0.8411
1	Overall	0.2128	0.5540	0.2817	0.2347	2.0540	0.5420
	Pre-IRM	N/A	N/A	N/A	N/A	N/A	N/A
	Post-IRM, Pre-report	0.1000	2.2000	0.1000	0.1000	0.7400	0.6480
Median	Post-IRM, Post-report	0.1000	1.3000	0.2100	0.1000	1.8000	0.7000
	Post-IRM	0.1000	1.3000	0.1550	0.1000	1.7000	0.6900
	Overall	0.1000	1.3000	0.1550	0.1000	1.7000	0.6900
	Pre-IRM	N/A	N/A	N/A	N/A	N/A	N/A
Coomotrio	Post-IRM, Pre-report	0.1000	2.2000	0.1000	0.1000	0.7400	0.6480
Geometric	Post-IRM, Post-report	0.1206	1.2740	0.2004	0.1592	1.8326	0.7578
Mean	Post-IRM	0.1193	1.3132	0.1928	0.1551	1.7426	0.7513
-	Overall	0.1193	1.3132	0.1928	0.1551	1.7426	0.7513

^{*} Subtended with artithmetic standard deviation

Comments:

- No federal/state effluent groundwater limitation for this parameter
- Leachate and most downgradient well measurements are not significantly higher than upgradient well measurements
- Well 5R content is still signifncantly higher than that of the upgradient well

	Mean + SD									
	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average				
Post-IRM, Pre-report	N/A	N/A	N/A	N/A	N/A	N/A				
Post-IRM, Post-report	0.38	0.83	0.00	-0.02	0.15	0.30				
Post-IRM	0.37	0.85	-0.01	-0.02	0.10	0.30				

Chemical Oxygen Demand (mg/L)

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	3.31	28.64	7.12	7.94	44.45	18.29
	FIE-IKIVI	2.84	11.16	4.87	6.20	31.92	9.22
	Post-IRM, Pre-report	6.81	25.31	5.98	9.43	32.35	15.98
		4.08	7.13	2.89	5.26	8.28	3.57
Arithmetic	Post-IRM, Post-report	5.98	20.63	7.24	10.61	26.88	14.41
Mean*	T OST-ITAWI, T OST-Teport	1.93	5.98	3.14	4.31	8.80	3.93
	Post-IRM	6.43	23.09	6.58	9.99	29.75	15.23
	Overall	3.25	6.94	3.04	4.81	8.87	3.78
		5.18	25.28	6.79	9.20	35.41	16.44
		3.44	9.18	3.84	5.43	21.95	6.60
	Pre-IRM	1.66	31.00	5.32	5.50	34.10	17.08
	Post-IRM, Pre-report	5.00	27.00	5.00	6.90	31.00	15.58
Median	Post-IRM, Post-report	5.00	20.90	5.00	10.20	25.20	13.58
	Post-IRM	5.00	22.15	5.00	9.70	30.50	15.11
	Overall	5.00	25.75	5.00	7.60	31.60	15.34
	Pre-IRM	2.31	25.08	5.28	5.74	35.95	16.44
Coomotrio	Post-IRM, Pre-report	6.08	24.25	5.62	8.25	31.18	15.58
Geometric	Post-IRM, Post-report	5.76	19.42	6.70	9.72	25.37	13.86
Mean	Post-IRM	5.93	21.82	6.11	8.92	28.27	14.74
	Overall	4.07	23.05	5.77	7.53	31.01	15.39

^{*} Subtended with artithmetic standard deviation

Comments:

- No federal/state effluent groundwater limitation for this parameter
- Outlier omitted: Well 3R, 6/3/2011, TOC = 146 mG/L
- Wells 5R and L continue to have significantly higher measurements than upgradient well

	Mean + SD	Mean - SD						
	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average		
Post-IRM, Pre-report	10.89	18.18	3.09	4.17	24.06	12.41		
Post-IRM, Post-report	7.91	14.65	4.10	6.30	18.08	10.48		
Post-IRM	9.68	16.15	3.54	5.18	20.89	11.45		

Total Hexavalent Chromium Content, mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	0.0325	0.0325	0.0325	0.0325	0.0371	0.0328
	PIE-IKIVI	0.0139	0.0139	0.0139	0.0139	0.0125	0.0141
Boot IBM	Post-IRM, Pre-report	0.0464	0.0400	0.0400	0.0449	0.0916	0.0510
	Fost-IRIVI, Pre-report	0.0201	0.0000	0.0000	0.0147	0.0424	0.0100
Arithmetic	Post-IRM, Post-report	0.0326	0.0325	0.0325	0.0326	0.0548	0.0370
Mean*	an*	0.0133	0.0134	0.0134	0.0132	0.0349	0.0124
	Post-IRM	0.0404	0.0368	0.0368	0.0393	0.0743	0.0450
	Overall	0.0186	0.0094	0.0094	0.0152	0.0428	0.0130
		0.0390	0.0360	0.0360	0.0391	0.0678	0.0433
	Overall	0.0180	0.0103	0.0103	0.0156	0.0402	0.0139
	Pre-IRM	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400
	Post-IRM, Pre-report	0.0400	0.0400	0.0400	0.0400	0.0860	0.0486
Median	Post-IRM, Post-report	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400
	Post-IRM	0.0400	0.0400	0.0400	0.0400	0.0535	0.0421
	Overall	0.0400	0.0400	0.0400	0.0400	0.0502	0.0420
	Pre-IRM	0.0283	0.0283	0.0283	0.0283	0.0339	0.0285
Geometric	Post-IRM, Pre-report	0.0441	0.0400	0.0400	0.0434	0.0819	0.0501
Mean	Post-IRM, Post-report	0.0285	0.0283	0.0283	0.0286	0.0487	0.0346
ivieari	Post-IRM	0.0365	0.0344	0.0344	0.0359	0.0641	0.0427
	Overall	0.0349	0.0332	0.0332	0.0352	0.0580	0.0402

^{*} Subtended with artithmetic standard deviation

Comments

- New York Effluent Groundwater Upper Limitation
- 0.1 mg/L
- Data still fluctuates and there have still been some contraventions of the effluent groundwater limit

	Mean + SD			Mean - SD		
Y.	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
Post-IRM, Pre-report	0.066	0.040	0.040	0.030	0.049	0.041
Post-IRM, Post-report	0.046	0.019	0.019	0.019	0.020	0.025
Post-IRM	0.059	0.027	0.027	0.024	0.032	0.032

Redox Potential (mV)

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	89.77	67.35	53.92	-19.32	43.83	45.82
	Pre-IRIVI	70.41	62.91	54.78	85.08	68.44	48.55
	Post-IRM. Post-report	152.38	121.05	119.10	108.81	126.33	125.53
		80.92	87.92	146.75	124.17	87.63	92.07
Arithmetic		75.21	56.63	35.32	-1.11	57.89	44.79
Mean*		69.35	49.48	61.69	88.14	39.53	49.68
		115.73	90.45	79.30	56.60	93.83	87.18
		84.26	78.46	120.81	120.76	76.53	84.58
		105.50	81.35	69.54	27.40	75.08	70.89
	Overall	79.56	73.11	100.87	113.95	77.01	74.92
	Pre-IRM	95.00	70.00	51.00	8.00	60.50	52.50
	Post-IRM, Pre-report	126.00	96.00	55.00	90.00	88.00	85.60
Median	Post-IRM, Post-report	82.00	59.00	29.00	12.00	57.00	52.20
	Post-IRM	110.50	84.50	45.00	49.00	75.00	68.40
	Overall	100.00	78.00	50.00	27.00	68.00	61.50
	Pre-IRM	N/A	N/A	N/A	N/A	N/A	N/A
Geometric	Post-IRM, Pre-report	N/A	N/A	N/A	N/A	N/A	N/A
Mean	Post-IRM, Post-report	N/A	N/A	N/A	N/A	N/A	N/A
ivieari	Post-IRM	N/A	N/A	N/A	N/A	N/A	N/A
	Overall	N/A	N/A	N/A	N/A	N/A	N/A

^{*} Subtended with artithmetic standard deviation

Comments:

- No federal/state effluent groundwater limitation for this parameter
- Data continues to fluctuate significantly

	Mean + SD								
per per	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average			
Post-IRM, Pre-report	233.30	33.13	-27.65	-15.36	38.71	33.46			
Post-IRM, Post-report	144.56	7.15	-26.37	-89.24	18.36	-4.89			
Post-IRM	199.99	11.99	-41.51	-64.16	17.30	2.60			

Manganese Content, mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	3.5E-02	2.2E-01	1.8E-01	2.7E-01	8.4E-02	1.6E-01
	Pre-IRIVI	4.0E-02	1.3E-01	1.3E-01	1.1E-01	1.3E-01	5.8E-02
	Post-IRM, Pre-report	2.7E-02	9.3E-02	8.7E-02	1.9E-01	2.1E-02	8.4E-02
	Fost-IRIVI, FTE-TEPOR	8.4E-02	1.1E-01	2.7E-02	1.7E-01	2.9E-02	6.1E-02
Arithmetic	Post-IRM, Post-report	5.6E-03	9.4E-02	1.1E-01	2.3E-01	5.4E-02	9.8E-02
Mean*	Tost-Irvivi, Tost-report	6.5E-03	1.9E-01	4.2E-02	2.1E-01	8.2E-02	5.6E-02
	Post-IRM	1.7E-02	9.3E-02	9.9E-02	2.1E-01	3.6E-02	9.1E-02
		6.2E-02	1.5E-01	3.7E-02	1.9E-01	6.2E-02	5.8E-02
	Overall	2.4E-02	1.4E-01	1.3E-01	2.3E-01	5.4E-02	1.2E-01
		5.5E-02	1.5E-01	9.2E-02	1.7E-01	9.6E-02	6.7E-02
	Pre-IRM	1.5E-02	2.0E-01	1.2E-01	2.9E-01	2.0E-02	1.4E-01
	Post-IRM, Pre-report	3.0E-03	5.1E-02	9.4E-02	2.0E-01	1.0E-02	7.1E-02
Median	Post-IRM, Post-report	3.0E-03	2.3E-02	1.0E-01	2.3E-01	3.5E-02	9.5E-02
	Post-IRM	3.0E-03	3.5E-02	9.8E-02	2.1E-01	1.5E-02	7.8E-02
	Overall	5.0E-03	8.8E-02	1.0E-01	2.3E-01	2.0E-02	1.2E-01
	Pre-IRM	1.7E-02	1.8E-01	1.5E-01	2.3E-01	3.3E-02	1.5E-01
Geometric	Post-IRM, Pre-report	4.2E-03	5.3E-02	7.7E-02	9.8E-02	1.1E-02	6.5E-02
Mean	Post-IRM, Post-report	3.7E-03	3.0E-02	1.1E-01	9.3E-02	2.7E-02	8.4E-02
ivieari	Post-IRM	3.9E-03	4.1E-02	9.1E-02	9.6E-02	1.7E-02	7.3E-02
	Overall	7.0E-03	7.2E-02	1.1E-01	1.3E-01	2.1E-02	9.6E-02

^{*} Subtended with artithmetic standard deviation

Comments

- New York Effluent Groundwater Upper Limitation
- 0.6 mg/L
- Contravention in 2005 (Well 5R), measurement at limit in 2008 (Well 12)
- Data still fluctuates significantly
- Visually, downgradient wells seem to have significantly higher measurements than upgradient well

	Mean + SD	Mean - SD					
TI TO THE TIME TO	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average	
Post-IRM, Pre-report	0.112	-0.012	0.059	0.015	-0.008	0.023	
Post-IRM, Post-report	0.012	-0.098	0.071	0.013	-0.028	0.043	
Post-IRM	0.079	-0.057	0.062	0.015	-0.025	0.032	

Potassium Content, mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	1.327	37.391	2.905	9.203	167.136	40.723
	FIE-IKW	0.485	21.672	0.879	1.943	79.861	17.232
	Post-IRM, Pre-report	1.067	27.052	3.508	6.400	51.124	17.830
		0.854	12.456	3.245	1.555	8.706	4.023
Arithmetic	Post-IRM, Post-report	0.485	31.174	2.608	5.867	65.779	21.183
Mean*	Tost ITANI, Tost report	0.101	11.166	0.102	0.799	14.710	4.709
	Post-IRM	0.790	29.010	3.080	6.147	58.085	19.422
		0.682	11.894	2.369	1.268	13.917	4.627
	Overall	0.997	32.233	3.014	7.263	96.781	27.615
		0.664	16.710	1.940	2.133	71.320	15.279
	Pre-IRM	1.100	26.900	2.600	8.800	178.500	41.448
	Post-IRM, Pre-report	0.610	21.400	2.600	6.800	51.000	16.702
Median	Post-IRM, Post-report	0.470	31.200	2.600	5.900	65.800	21.130
	Post-IRM	0.500	30.100	2.600	6.300	55.050	19.636
	Overall	0.770	28.000	2.600	7.000	64.000	22.196
	Pre-IRM	1.262	30.319	2.799	9.054	146.869	36.019
Coomotrio	Post-IRM, Pre-report	0.818	24.618	2.986	6.054	50.404	17.403
Geometric	Post-IRM, Post-report	0.476	29.829	2.606	5.816	64.192	20.729
Mean	Post-IRM	0.633	26.969	2.799	5.940	56.539	18.911
	Overall	0.825	28.211	2.799	6.928	79.334	24.229

^{*} Subtended with artithmetic standard deviation

Comments:

- No federal/state effluent groundwater limitation for this parameter
- Downgradient and leachate well measurements are still significantly higher than upgradient well measurements

	Mean + SD	Mean - SD				
14	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
Post-IRM, Pre-report	1.9	14.6	0.3	4.8	42.4	13.8
Post-IRM, Post-report	0.6	20.0	2.5	5.1	51.1	16.5
Post-IRM	1.5	17.1	0.7	4.9	44.2	14.8

Selenium Content, mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	4.00E-03	4.00E-03	4.00E-03	4.00E-03	1.17E-02	5.20E-03
	Pre-irivi	1.41E-03	1.41E-03	1.41E-03	1.41E-03	9.87E-03	6.93E-04
	Post-IRM, Pre-report	4.71E-03	3.31E-03	2.60E-03	2.20E-03	2.32E-02	7.21E-03
		3.06E-03	3.33E-03	3.09E-03	3.12E-03	9.20E-03	2.39E-03
Arithmetic	Post-IRM, Post-report	2.98E-03	1.14E-03	5.74E-04	6.43E-04	1.36E-02	3.78E-03
Mean*	Post-IRIVI, Post-report	1.96E-03	9.55E-04	3.09E-04	2.94E-04	1.16E-02	2.70E-03
	Post-IRM	3.69E-03	2.03E-03	1.40E-03	1.28E-03	1.75E-02	5.18E-03
		2.55E-03	2.43E-03	2.17E-03	2.09E-03	1.15E-02	3.06E-03
	Overall	3.74E-03	2.33E-03	1.80E-03	1.70E-03	1.68E-02	5.19E-03
1	Overall	2.39E-03	2.40E-03	2.26E-03	2.22E-03	1.13E-02	2.81E-03
	Pre-IRM	4.50E-03	4.50E-03	4.50E-03	4.50E-03	7.00E-03	5.00E-03
	Post-IRM, Pre-report	4.00E-03	1.00E-03	1.00E-03	1.00E-03	2.20E-02	7.40E-03
Median	Post-IRM, Post-report	2.00E-03	5.00E-04	4.40E-04	4.40E-04	9.90E-03	3.04E-03
	Post-IRM	3.35E-03	1.00E-03	1.00E-03	1.00E-03	1.50E-02	4.27E-03
	Overall	3.70E-03	1.25E-03	1.00E-03	1.00E-03	1.50E-02	4.80E-03
	Pre-IRM	3.76E-03	3.76E-03	3.76E-03	3.76E-03	9.30E-03	5.17E-03
Coomentuio	Post-IRM, Pre-report	3.93E-03	2.00E-03	1.59E-03	1.23E-03	2.16E-02	6.85E-03
Geometric	Post-IRM, Post-report	2.34E-03	8.48E-04	4.91E-04	5.86E-04	9.96E-03	3.09E-03
Mean	Post-IRM	2.89E-03	1.20E-03	7.93E-04	7.93E-04	1.37E-02	4.28E-03
	Overall	3.01E-03	1.43E-03	1.01E-03	1.01E-03	1.31E-02	4.40E-03

^{*} Subtended with artithmetic standard deviation

Comments

- New York Effluent Groundwater Upper Limitation 0.02 mg/L

- Leachate continues to show measurements above the limit

	Mean + SD	Mean - SD					
p	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average	
Post-IRM, Pre-report	7.77E-03	-1.43E-05	-4.89E-04	-9.18E-04	1.40E-02	4.81E-03	
Post-IRM, Post-report	4.94E-03	1.90E-04	2.65E-04	3.49E-04	1.94E-03	1.08E-03	
Post-IRM	6.25E-03	-4.03E-04	-7.72E-04	-8.10E-04	5.98E-03	2.13E-03	

Sodium Content, mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	15.2	132.3	48.2	116.2	104.5	82.1
	Pre-IRIVI	5.5	28.0	5.6	15.7	49.8	15.1
	Post-IRM, Pre-report	21.3	108.0	49.9	94.7	39.2	62.3
	Fost-IRIVI, FIE-IEPOIT	8.5	16.9	10.1	11.4	5.5	4.7
Arithmetic	Post-IRM, Post-report	23.0	83.0	55.9	88.9	55.6	61.3
Mean*	Fost-INIVI, Fost-report	5.7	9.8	7.6	8.8	12.7	2.7
	Post-IRM	22.1	96.1	52.7	91.9	47.0	61.8
		7.2	18.7	9.4	10.5	12.6	3.9
	Overall	19.4	110.0	51.0	101.2	67.4	69.6
		7.4	28.7	8.4	17.3	41.5	13.9
	Pre-IRM	14.0	130.0	48.0	120.0	104.5	80.8
	Post-IRM, Pre-report	18.2	110.0	46.7	97.6	37.7	61.6
Median	Post-IRM, Post-report	22.6	81.4	52.1	88.9	55.9	62.2
	Post-IRM	21.0	93.9	48.4	92.0	45.2	62.1
	Overall	16.9	110.0	48.2	99.6	48.1	64.3
	Pre-IRM	14.6	128.2	47.9	115.1	92.8	80.8
Coometrie	Post-IRM, Pre-report	20.0	106.7	49.2	94.1	38.8	62.2
Geometric	Post-IRM, Post-report	22.4	82.5	55.4	88.5	54.2	61.2
Mean	Post-IRM	21.1	94.4	52.0	91.3	45.5	61.7
	Overall	18.3	106.2	50.4	99.7	58.6	68.5

^{*} Subtended with artithmetic standard deviation

Comments:

- No federal/state effluent groundwater limitation for this parameter
- Downgradient and leachate well measurements are still significantly higher than upgradient well measurements
- '- Overall stabilization of parameter measurements

	Mean + SD		Mean - SD					
	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average		
Post-IRM, Pre-report	30	91	40	83	34	58		
Post-IRM, Post-report	29	73	48	80	43	59		
Post-IRM	29	77	43	81	34	58		

Temperature, o F

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	53.1	53.3	54.2	51.9	55.9	53.7
	Pre-IKIVI	7.1	6.3	5.9	4.3	10.1	6.1
	Post-IRM, Pre-report	52.4	53.2	54.1	52.6	55.3	53.5
	Fost-IKIVI, FTe-Teport	11.5	6.9	6.3	6.3	10.6	7.7
Arithmetic	Post-IRM, Post-report	52.4	52.7	51.2	52.4	53.2	52.4
Mean*	Post-iRivi, Post-report	5.9	4.7	9.7	4.6	8.0	4.8
	Post-IRM	52.4	53.0	52.7	52.5	54.3	53.0
		9.1	5.9	8.1	5.5	9.4	6.4
	Overall	52.7	53.1	53.3	52.3	54.9	53.3
		8.4	6.0	7.3	5.0	9.6	6.3
	Pre-IRM	54.0	52.5	53.0	51.5	56.5	53.6
	Post-IRM, Pre-report	55.0	55.0	54.0	52.0	57.0	53.0
Median	Post-IRM, Post-report	53.2	52.2	53.4	53.4	55.0	53.2
	Post-IRM	54.6	53.6	53.4	53.2	55.0	53.1
	Overall	54.0	52.6	53.4	52.0	55.0	53.2
	Pre-IRM	52.6	52.9	53.9	51.8	55.0	53.3
0	Post-IRM, Pre-report	50.9	52.8	53.7	52.2	54.3	53.0
Geometric	Post-IRM, Post-report	52.1	52.5	49.5	52.2	52.6	52.2
Mean	Post-IRM	51.5	52.7	51.7	52.2	53.5	52.6
	Overall	51.9	52.8	52.5	52.1	54.1	52.9

^{*} Subtended with artithmetic standard deviation

Comments:

- No federal/state effluent groundwater limitation for this parameter

Total Organic Carbon Cotent mg/L

Statistic	Time Period	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average
	Pre-IRM	1.94	9.59	2.82	3.30	16.62	6.90
	Pre-IRIVI	1.39	1.93	0.56	0.62	13.05	2.89
	Post-IRM, Pre-report	2.87	9.10	3.53	4.30	12.32	6.59
	Tost-ITAW, TTE-TEPOR	1.37	5.77	2.33	1.70	2.97	2.04
Arithmetic	Post-IRM, Post-report	2.32	5.66	2.45	2.71	7.53	4.13
Mean*	Tost-ITAW, Tost-report	0.49	1.42	0.87	0.78	2.49	0.97
	Post-IRM	2.57	7.46	3.02	3.54	10.04	5.42
		1.02	4.58	1.86	1.55	3.64	2.03
	Overall	2.30	8.30	2.94	3.45	12.57	6.00
		1.22	3.89	1.49	1.28	9.08	2.49
	Pre-IRM	1.59	10.00	2.64	3.27	12.00	5.99
	Post-IRM, Pre-report	2.00	7.70	3.20	4.10	11.80	6.46
Median	Post-IRM, Post-report	2.30	5.50	2.20	2.80	8.00	4.06
	Post-IRM	2.20	6.45	2.70	3.05	9.25	4.76
	Overall	2.00	8.20	2.70	3.20	10.40	5.73
	Pre-IRM	1.71	9.31	2.76	3.25	13.78	6.51
Coomotrio	Post-IRM, Pre-report	2.64	7.87	3.15	4.03	11.99	6.31
Geometric	Post-IRM, Post-report	2.26	5.44	2.33	2.58	7.07	4.00
Mean	Post-IRM	2.43	6.60	2.73	3.26	9.33	5.08
	Overall	2.09	7.56	2.74	3.26	10.84	5.60

^{*} Subtended with artithmetic standard deviation

Comments:

- No federal/state effluent groundwater limitation for this parameter
- Well L continues to have significantly higher values than upgradient well
- '- Overall reduction of parameter measurements

	Mean + SD	Mean - SD						
	Well 3R	Well 5R	Well 14N	Well 12	Well L	Average		
Post-IRM, Pre-report	4.24	3.33	1.19	2.60	9.35	4.54		
Post-IRM, Post-report	2.81	4.24	1.58	1.92	5.04	3.17		
Post-IRM	3.58	2.88	1.16	1.99	6.40	3.39		

APPENDIX 2

Operation and Maintenance Plan



OPERATION MONITORING AND MAINTENANCE MANUAL CELLS 1 AND 2

FOR CC METALS AND ALLOYS, LLC WITMER ROAD

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OPERATION MONITORING AND MAINTENANCE MANUAL CELLS 1 AND 2

FOR CC METALS AND ALLOYS, LLC WITMER ROAD

1.0 INTRODUCTION

The following provides a post-closure maintenance and monitoring plan for the CC Metals and Alloys, LLC (CCMA) landfill Cells 1 and No. 2. These facilities are located at a 9.76 acre site adjacent to Witmer Road in the Town of Niagara. Waste disposed in Cell 1 includes ferrosilicon and ferrochromium metal baghouse dusts and waste disposed in Cell 2 contains ferroalloy dust.

Cell 1 was constructed in 1980 per a New York State Department of Environmental Conservation (NYSDEC) Part 360 Permit (#2133). It was closed in 1990 per a NYSDEC approved closure plan. Cell 2 was constructed in 1983 per a NYSDEC Part 360 Permit (#2585). Per NYSDEC Order on Consent 87-152A waste deposition into Cell 2 was stopped on September 30, 1991. Cell 2 was closed in 1992.

The principal objective of this manual is to provide the necessary instructions for the following:

- 1) Proper maintenance of all facility components,
- 2) Groundwater and surface water sampling and analysis, and
- 3) Interpretation of ground and surface water monitoring data. Adherence to this post-closure monitoring and maintenance program is required by 6 NYCRR Part 360 for a minimum period of thirty (30) years after final closure of Cells 1 and 2.

The information provided in this post-closure monitoring and maintenance operations manual is utilized by CCMA personnel and its consultants.

2.0 PROCEDURE FOR AMENDING POST-CLOSURE MONITORING AND MAINTENANCE OPERATIONS MANUAL

This post-closure monitoring and maintenance operations manual should be reviewed at regular intervals (initially once every three years) to ensure that it remains consistent with both the regulations and the technology concerning post-closure monitoring and maintenance at the Witmer Road site. All necessary modifications will be made under the



direction of a professional engineer licensed in the State of New York.

Since this plan (after approval) will be incorporated as a binding agreement between CCMA and the NYSDEC, any proposed modifications to this plan will be submitted to the NYSDEC for approval.

Upon receipt of NYSDEC approval, the changes will be made and the updated plan will be placed on file at the CC Metals and Alloys, Amherst, New York, office.

3.0 POST-CLOSURE MAINTENANCE REQUIREMENTS

The goals of the post-closure maintenance plan for the CCMA, Witmer Road Site, are as follows:

- 1) Ensure that structural integrity of closed Cells 1 and 2 is being properly maintained.
- 2) Correct any problems that might occur at the site before they have a chance to develop to such a degree that adverse environmental impacts might result.
- 3) Follow a program in which all involved parties (CCMA, regulatory agencies, and the public) have a sense of confidence that the site will not create problems which cannot be reasonably handled with minimum impacts.
- 4) Properly maintain the drainage pathways and controls implemented under the Interim Remedial Measure (IRM) order established in 1999.
- 5) Annual certification of the Deed Restriction (Institutional Control) filed with the Niagara County Clerk and recorded May 3, 2001, in Book 3114 on Page 291, ensuring it is still in effect and has not been altered. A copy of the Deed Restriction is included as Appendix A.

The post-closure maintenance plan can be summarized as follows:

- 1) LAN Associates, Inc. will be responsible for filing a Waste Management Facility Maintenance Inspection Report. Included in this inspection report will be a checklist which covers the following annual evaluation:
 - a) Bank and cover erosion,
 - b) Settlement,
 - c) Cover soil integrity,
 - d) Condition of vegetative cover, and
 - e) Condition of monitoring wells.



2) If any problems are encountered during the inspections that may be of significant environmental concern, the necessary corrective actions will be undertaken as expeditiously as possible. Notice of these actions will be reported to the NYSDEC explaining the nature and location of the problem and the corrective action taken.

Post-closure maintenance requirements are expected to be minimal. However, areas where some maintenance may be necessary include landfill cover, berms, surface water drainage ditch, and groundwater monitoring wells.

Adequate information is not available to actually calculate how much subsidence will occur with Cells 1 and 2, however, only an insignificant amount of subsidence is expected. This is based on the results from compaction tests previously done on waste materials contained in Cells 1 and 2. In addition, the materials contained in these cells will not undergo any decomposition. Slopes utilized in the closures of Cells 1 and 2 will ensure that their final slope, after settling and subsidence, will be greater than three percent. A slope greater than three percent will allow for adequate surface water runoff rates.

Any deficiencies noted either during the sites scheduled or unscheduled inspections will be corrected as expeditiously as possible. While each situation must be evaluated on a case by case basis, a plan of action has been prepared to deal with those situations which are most likely to occur.

Landfill cover deterioration should be minimal. However, some will undoubtedly occur due to freeze-thaw effects, water erosion, etc. Such deterioration must be corrected as quickly as possible.

The vegetative growth covering the closed cells will be allowed to return to its natural state. The vegetative cover on the landfill cells as well as the drainage areas will be mowed once per year between September 1st and December 31st. If significant bare spots should develop, an attempt will be made to determine the cause. Factors which will be considered include the presence of excessive moisture, excessive dryness, wrong pH, or the absence of the proper soil nutrients. When the cause is determined, remedial action will be taken.

Both wind and water erosion of the landfill cover can occur. While this is not expected to be a significant problem, any erosion which does occur must be taken care of expeditiously. Repair will bring lines and grades to their original configuration. If the erosion can be attributed to inadequate original design, the necessary design modifications will be made and implemented (after receipt of NYSDEC approval). Future modifications could include changes in slope gradients or protection of slopes by riprap.

The facility's annual report will include notations concerning both scheduled and



unscheduled facility inspections. Inspections will be performed on an annual basis. An inspection checklist created specifically for the property will be used when performing the inspections. A copy of the inspection checklist is included as Appendix B. Annual inspections are appropriate because the landfill has been closed for 16 years with no disruption to the integrity of the system. Information will include the date and time of the inspection, inspector's name, and a summary of all problems observed and remedial actions taken.

Records of all inspections will be retained for a minimum period of seven (7) years (see Appendix B, Inspection Checklist). In addition, summary reports and records of all incidents requiring initiation of the site's contingency plan or resulting in human health or environmental damage will be prepared and maintained for a minimum period of seven (7) years.

It is important to note that the drainage system on the property is protected by a Deed Restriction. The Deed Restriction serves as a covenant for the land that binds all future property owners. Therefore, any person wishing to engage in any activity on the property that could interfere significantly with the completed closure and remedial program is required to obtain written approval from the NYSDEC and the New York State Department of Health, or any New York State agency created to protect the environment. A copy of the Deed Restriction is included in Appendix A.

4.0 POST-CLOSURE GROUNDWATER AND SURFACE WATER SAMPLING AND ANALYSIS PLAN

The following provides a post-closure site groundwater and surface water sampling and analysis plan for the Witmer Road landfill site. Its primary objective is to provide data relating to the site's groundwater and surface water quality during the solid waste management facility's post-closure period.

Factors which were given consideration in the design of this plan include the following:

- 1) Ground and surface water monitoring requirements at a non-hazardous waste management landfill facility as stipulated in 6 NYCRR Part 360 Solid Waste Management Facilities (effective December 31, 1988),
- 2) Physical and chemical characteristics of waste materials deposited in Cells No. 1 and 2,
- 3) Site's hydrological conditions,
- 4) Pollution potential of site as exemplified by the type of waste materials present, and
- 5) Groundwater use.



Items which are addressed in this post-closure groundwater and surface water sampling and analysis plan include the following:

- 1) Locations and construction of monitoring points,
- 2) Discussion of monitoring frequency and parameters,
- 3) Sampling personnel and equipment requirements,
- 4) Sampling procedures,
- 5) Sample handling,
- 6) Analytical procedures,
- 7) Laboratory quality assurance plan,
- 8) Data analysis,
- 9) Contingency monitoring requirements, and
- 10) Data reporting requirements.

By developing and implementing a comprehensive, site specific groundwater sampling and analysis program the potential for problems to arise when obtaining, handling, preserving, and analyzing samples will be minimized.

4.1 LOCATION AND CONSTRUCTION OF MONITORING POINTS

The post-closure monitoring program for Cells 1 and 2 includes groundwater and surface water monitoring. Implementation of this program during the facility's post-closure period will provide the required data to evaluate the effects of Cells 1 and 2 on both the site's ground and surface water. A series of five (5) wells will be utilized to monitor the quality of the groundwater contained in the permeable sediments overlying the bedrock. These wells were utilized to monitor the effects of Cells 1 and 2 on the site's groundwater during the operation of these facilities. Based upon previous data from these monitoring wells, groundwater flows in a southerly direction across the site. Surface water quality will be monitored using samples obtained from the site's drainage ditch.

4.1.1 Monitoring Well Location and Construction

Sample points (wells) 3R, 5R, 12, BR1, and 14N are indicated on the Well Location and Surface Water Drainage Map showing baseline locations, monitoring well elevations, and surface water drainage patterns (Appendix C). Based upon the site's previously noted groundwater flow direction (southerly), monitoring well 3R can be used to provide upgradient data while monitoring wells 5R, 12, BR1, and 14N provide data on



groundwater quality downgradient of the site's disposal areas (Cells 1 and 2).

"It has been reported that the wells are installed at the depth of refusal. Well #12 is constructed of 4-inch PVC with the lower two feet slotted with 1/16 inches wide horizontal slots spaced approximately 1 inch apart. The slots are covered with a stainless steel well screen. A sand pack was placed from the bottom of the well upward for approximately five feet. Bentonite pellets were utilized to provide a seal at the clayey-silt level. Loose bentonite was then placed around the monitoring well through most of the impervious lake sediment zone to the surface to prevent water seepage from the "perched" water table. Monitoring wells 3R, 5R, BR1, and 14N are constructed of 2-inch PVC risers attached to 5-foot lengths of PVC 10 slot screen. The PVC screens were installed immediately above the dense loamy glacial till which overlies the site's bedrock. The screen interval and associated sand column surrounding the screens extend partially above the screens. Bentonite pellet seals were utilized to separate the sand pack from the cement-bentonite grout seal. Each well casing is surrounded at the ground surface by a continuous pour concrete cap and well apron (minimum radius of 3 feet and minimum thickness of 4 inches)."¹

4.1.2 Surface Water Monitoring Points

Cell 1 closure resulted in all waste materials being covered with a minimum of 18 inches of low permeability compacted soil (maximum permeability of 1.0 x 10 cm/sec) and 6 inches of soil capable of supporting vegetative growth. It is reported that Cell 2 was similarly closed. It is very unlikely that surface water runoff from the closed facilities has any contact with the waste materials previously deposited in Cells 1 and 2. However, samples will be taken from the location of the discharge flow control valve (SW-1) located in the southwest corner of site where surface water collects and flows into the stormwater drainage pipe and then offsite to the City of Niagara Falls sewer system.

4.2 MONITORING FREQUENCY AND PARAMETERS

Groundwater sample points will include monitoring wells 3R, 5R, 12, BR1, and 14N. Based upon an isopotential map of the site's groundwater, monitoring well 3R will provide upgradient data while monitoring wells 5R, 12, BR1, and 14N will provide data on groundwater quality downgradient of Cells 1 and 2. Surface water sampling will be performed at point SW-1. In addition, samples will be

¹ Original Post Closure Monitoring and Maintenance Operations Manual by Snyder Engineering 1991



obtained from the landfill leachate sump (LS-1). Site monitoring frequency will be on a semi-annual basis. Samples will be analyzed on a semi-annual basis for routine parameters; specific conductivity, temperature, pH, Eh, turbidity, COD, TOC, TDS, SO4, Cl, Br, Pb, Mn, K, and Na. In addition, semi-annual samples will be analyzed for baseline parameters; As, Ba, Cr, Cr+6, Hg, Se, and B. Annual samples will be obtained for Volatile Organic Compounds (VOCs) that are specified in the New York State Regulation 6 Part NYCRR 360 baseline parameter list. The laboratory analytical method for the VOCs is SW-846 method 8260.

4.3 SAMPLING PERSONNEL AND EQUIPMENT REQUIREMENTS

The laboratory utilized to implement the site's post-closure groundwater and surface water monitoring program must be approved by the NYSDEC. The laboratory must be approved to perform the required analyses for all parameters of concern. All sampling personnel must be properly trained in the collection and handling of groundwater and surface water samples. They must be familiar with all equipment required to collect a representative sample of groundwater from wells such as those present at the Witmer Road site. Sampling personnel must have a minimum two years of technical training in chemistry, environmental science, or other technical discipline. This educational requirement may be waived for personnel with a minimum of five years experience in the collection of environmental samples.

4.4 SAMPLING PROCEDURES

Standard Operating Procedure (SOP) No. BR-FS-005, Groundwater/Surface Water Sampling is included in Appendix D. The procedure for the sampling of the sump (LS-1) is performed under the standard operating procedures outlined in Appendix D. The actual sample itself is obtained through the use of a bailer dropped down into the sump.

4.5 LABORATORY QUALITY ASSURANCE PLAN

The primary objective of the Quality Assurance Plan for CCMA groundwater and surface water monitoring program is to ensure that the analytical results obtained from the program are reliable, statistically valid, and properly documented. As previously noted, CCMA will only utilize a laboratory for program implementation which has been approved by the NYSDEC. The basis of this quality assurance program is the establishment of methods which will be followed in obtaining the analytical results for each sample. Procedures (including quality assurance samples, replicates, spikes, and standards calibration) will be established and used for validating the methods utilized by the analytical laboratory and as an indicator of potential sources of cross-contamination. This will help ensure that the laboratory generates precise, accurate, and reliable data.



Test America Laboratories, Inc. located in Buffalo, New York, is currently the laboratory chosen to perform the sampling. A complete quality assurance manual for Test America is included in Appendix E.

4.5.1 Personnel Responsibilities

LAN Associates, Inc. will be responsible for ensuring that the required groundwater and surface water monitoring program at the Witmer Road site is correctly carried out. Their responsibilities will include the following:

- 1) Overall responsibility for management of the analytical program and validity of all data,
- 2) Selection of an analytical laboratory to perform sample analyses,
- 3) Performance monitoring of analytical laboratory and review of all analytical protocols required for measuring and monitoring,
- 4) Submission of all analytical data to New York State Department of Environmental Conservation, Town of Niagara, and Niagara County Health Department.

A project coordinator is to be designated by the analytical laboratory. This individual is to have responsibility for the following:

- 1) Communication with CCMA Environmental Manager or designated representative regarding the groundwater and surface water analysis program,
- 2) Monitor sampling and/or analytical techniques and recommend modifications as required,
- 3) Verify that laboratory quality control and analytical procedures are being followed as specified in the Quality Control Plan when laboratory personnel are analyzing CCMA groundwater and surface water samples,
- 4) Review raw analytical data and check arithmetic calculations for a minimum of 20% of the samples analyzed (includes inspection of reduced data, calibration curves and bound laboratory notebooks),
- 5) Receive groundwater and surface water samples at the laboratory and verify that incoming samples correspond to the chain of



custody sheet,

- 6) Maintain records of all incoming samples and track samples while they are being processed,
- 7) Prepare quality control samples for analysis as required to satisfy quality assurance requirements,
- 8) Approve completed data and analytical report before transmittal to CC Metals and Alloys, LLC.

A sampling coordinator is to be designated by the analytical laboratory. This individual is to have responsibility for the following:

- 1) Determine appropriate sampling equipment and sample containers,
- 2) Train field personnel in the necessary sampling and field analytical procedures,
- 3) Insure that all samples are collected, labeled, preserved, and stored as specified in other sections of this report,
- 4) Check that all required sample documentation is correct and is transmitted with the samples,
- 5) Check on field sampling to insure that it is being done correctly.

4.5.2 Analytical Quality Assurance

Specific analytical methods often prescribe the necessary specific quality assurance procedures. In order to achieve a high degree of accuracy (degree of measurement or average of measurements agreement with an accepted reference or true value obtained from executing a method in a particular laboratory using an interference free matrix), the laboratory must do the following:

- 1) References used as reference standards must be the highest purity commercially available materials and must be certified by the supplier.
- 2) Each instrument utilized in performing the analyses must be checked on each day that the samples are run in order to demonstrate performance.
- 3) Recovery factors for individual contaminants are determined for the analytical method which is utilized.



4) Analytical results for spiked level of the contaminant under evaluation in a replicate sample must be within the required limits for the contaminant under evaluation.

Full documentation of all analyses must be kept in notebooks and be available for inspection at the designated laboratory by either a representative of CCMA or the NYSDEC.

4.5.3 Data Validation and Reporting

The principal steps that will be used to verify the data integrity during data collection and reporting are as follows:

- 1) Project coordinator will review raw data generated by the laboratory chemist. It will be reviewed against calibration and quality control records, to ensure both the adequacy of documentation and the reliability of the data.
- 2) When the previously noted review has been completed, the data will be considered validated and a report will be prepared for submission to CCMA.
- 3) All laboratory notes and records will be maintained and stored in an accessible place.

A variety of samples will be analyzed at regular intervals to assess possible contamination from either the field and/or the laboratory. These include blank, spiked, and replicate samples. Blank samples include:

- 1) Field blanks are exposed to field and sampling conditions and analyzed in order to assess possible contamination from the field. A bottle is filled with de-ionized water and is transported to the sampling location and is returned to the laboratory in a manner identical to the handling procedure used for the samples.
- 2) Method blanks are prepared in the laboratory and are analyzed in order to determine the background of each of the reagents or solvents used in an analysis.

Spiked samples will be spiked (as prescribed by the analytical method) with one or more selected compounds prior to extraction and analysis. Concentration data will be used to calculate the recovery of the compounds. Such samples will provide a measure of sample preparation and analysis procedures accuracy.



Replicate samples are analyzed in order to establish control and assess the precision of an analysis and/or of sampling. Field replicates are obtained in order to assess the adequacy of overall sampling and handling procedures. Laboratory replicates are prepared in the laboratory and analyzed in order to assess the reproducibility of the laboratory procedures used.

4.6 CONTINGENCY MONITORING REQUIREMENTS

All waste materials which have been deposited by CCMA Cells 1 and 2 at the Witmer Road site were approved by the NYSDEC. In the unlikely event that significant groundwater contamination is detected, a contingency plan will be enacted. Objectives of this groundwater contingency plan will be as follows:

- 1) Confirm whether significant quantities of contaminants have entered the groundwater at the CCMA Witmer Road site from the waste materials previously deposited by CCMA in Cells No. 1 and 2,
- 2) If significant quantities of contaminants have entered the groundwater, determine their consequences and the rate and extent of their migration.

Under normal circumstances, Objective #1 will be satisfied by the site's groundwater monitoring program as previously described. However, if a statistical analysis of monitoring data from upgradient and downgradient wells utilizing the Student's t-test at the 0.01 level of significance indicates a significant difference in groundwater quality, additional samples will be obtained and analyzed. If the difference cannot be attributed to sampling or analytical errors, a written notice that the facility may be affecting the groundwater must be sent within 14 days to Region 9 of the NYSDEC.

During the next semi-annual sampling event, each monitoring well involved in triggering the contingency monitoring plan will be sampled and analyzed for the baseline parameters as defined by Water Quality Analysis Table in 6 NYCRR Part 360-2.1 1(c)(6). Every attempt will be made to report the analytical results to the NYSDEC within 30 days after the sampling date. In any case, the results will be reported to the NYSDEC within 14 days after receipt of results from the certified analytical laboratory.

In the event that the NYSDEC determines that any potential contamination as reflected by the baseline monitoring results poses an immediate threat to public health or the environment, CCMA will provide the NYSDEC with a corrective action plan. Upon receipt of plan approval from the NYSDEC, CCMA will implement the corrective action plan.



When the corrective action plan is implemented, the sampling and analysis for baseline parameters will be performed at least semi-annually until the conditions for curtailing contingency water quality monitoring are satisfied as follows:

- 1) Elevated parameter(s) is demonstrated not to be landfill derived, or
- 2) Remediation of release by landfill is demonstrated to be complete.

In addition, the contingency water quality monitoring may be reduced or discontinued with the approval of the NYSDEC, if such monitoring is no longer necessary to protect public health or the environment.

If during analysis for baseline parameters, contamination by any toxic metal, cyanide, volatile organic compound, or other substance identified in Appendix 33 of 6 NYCRR Part 373-2 occurs, CCMA will sample the appropriate environmental monitoring points in the next scheduled sampling event after receiving the analytical results from the laboratory. Each sample will be analyzed for all the expanded parameters listed in the Water Quality Analysis Table. Unless the NYSDEC requires more frequent sampling to evaluate a potential or adverse environmental impact or perceived health risk or until the previously noted conditions for curtailing contingency water quality monitoring are satisfied, subsequent annual analyses of these monitoring points will include all routine parameters and those baseline and expanded parameters that were elevated or were implicated in the expected pattern.

4.7 REPORTING AND RECORDKEEPING REQUIREMENTS

Copies of all semi-annual monitoring reports will be sent to the following:

- Ms. Mary McIntosh
 Senior Engineering Geologist
 New York State Department of Environmental Conservation
 Region 9
 270 Michigan Avenue
 Buffalo, New York 14203-2999
- Town of Niagara7105 Lockport RoadNiagara Falls, New York 14305

In addition, CCMA will prepare and submit an annual summary report concerning facility post-closure maintenance and monitoring. This report will be certified by a Professional Engineer registered in the State of New York. It will be submitted to the NYSDEC Region 9 Solid Waste Regional Engineer no later than 60 days after the first day of January each year. These records will be retained for a minimum period of seven years.



Analytical data records which will be retained during the post-closure period include the following:

- 1) All chemical analyses of waste materials,
- 2) All EP toxicity and TCLP test data performed on waste material samples,
- 3) All chemical analyses and associated monitoring well elevations obtained as part of the site's groundwater and surface water monitoring program.

APPENDIX 3

NYDEC Institutional and Engineering Controls

Certification Form



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Sit	Site Details e No. 932001C	Box 1						
Sit	e Name SKW Newco Inc.							
Sit Cit Co	e Address: Witmer Road Zip Code: 14305 y/Town: Niagara unty: Niagara e Acreage: 9.760							
Reporting Period: April 01, 2020 to April 01, 2023								
R	equested/granted extension until August 31, 2023 to include 2023 data/information							
		YES	NO					
1.	Is the information above correct?		$\overline{\mathbf{X}}$					
	If NO, include handwritten above or on a separate sheet. (Correction highlighted)							
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		X					
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		X					
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		X					
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.								
5.			X					
		Box 2						
		YES	NO					
6.	Is the current site use consistent with the use(s) listed below?	X						
7.	Are all ICs in place and functioning as designed?	X						
	IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below a DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	nd						
A Corrective Measures Work Plan must be submitted along with this form to address these issues.								
Sic	nature of Owner, Remedial Party or Designated Representative Date							

SITE NO. 932001C Box 3

Description of Institutional Controls

<u>Parcel</u>

130.16-1-10

<u>Owner</u>

CC Metals and Alloys, LLC (formerly SKW)

Institutional Control

Ground Water Use Restriction

Landuse Restriction

O&M Plan

Site Management Plan

Box 4

Description of Engineering Controls

<u>Parcel</u>

Engineering Control

130.16-1-10

Cover System

Fencing/Access Control

	Periodic Review Report (PRR) Certification Statements					
1.	I certify by checking "YES" below that:					
 a) the Periodic Review report and all attachments were prepared under the direction or reviewed by, the party making the Engineering Control certification; 						
	b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted					
	engineering practices; and the information presented is accurate and compete. YES NO					
	old X					
2.	For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:					
	(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;					
	(b) nothing has occurred that would impair the ability of such Control, to protect public health an the environment;(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;					
(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and						
	(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.					
	YES NO					
	old X					
IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.						
A Corrective Measures Work Plan must be submitted along with this form to address these issues.						
	Signature of Owner, Remedial Party or Designated Representative Date					

IC CERTIFICATIONS SITE NO. 932001C

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Chris L. Callegari, P.G.	at 200 Malaga St.,	St. Augustine, FL 32084,
President, LAN Associates, Inc.	print business a	ddress
print name		
am certifying as Owner's Represent	ative	(Owner or Remedial Party)
for the Site named in the Site Details Sect Signature of Owner, Remedial Party, or De		
Rendering Certification		

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I	Chris L. Callegari, P.G, President of LAN Associates, Inc. print name	at	200 Malaga St., St. Augustine, FL print business address
	am certifying as a Qualified I	Envir	onmental Professional for the <u>Owner's Representative</u> (Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE) 7/20/2023

Date

APPENDIX 4

Landfill Inspection Checklist

2020 Witmer Road Inspection Checklist



Date 10/26/2020
Weather Conditions Overcast 55°
Inspector Nicholas Paasche

CC Metals and Alloys, LLC Witmer Road Landfill Inspection Checklist

General Instructions

The inspector should note the various observations he/she makes under the various sections and questions. If any corrective actions need to be taken, they will be noted on the Checklist Of Recommended Corrective Actions, Page 4 of 4. If any unusual conditions are encountered during the inspections, they should be reported to the engineer (LAN Associates, Inc., 200 Malaga Street, St. Augustine, FL 32084, 904-824-6999).

Landfill Cover

spots on the cover surface where significant amounts of standing water can accumulate in puddles during significant precipitation events, check for the presence of large cracks on the surface of the cover, etc).
The landfill area was mowed prior to the inspection. There was no sign of erosion or subsidence
to the landfill cover system.
2) Check for erosional swales, washouts, etc. in the landfill cover caused by stormwater runoff. During windy conditions, observe any evidence of dust blowing off the cover.
There were no erosional features caused by stormwater or wind on the landfill cover.
3) Inspect landfill vegetative cover for overall health and consistency. (e.g. check for bare spots in the vegetative cover.)
Vegetative cover was healthy and consistent throughout the landfill area.



integrity itself

Date	10/26/2020
Weather Conditions	Overcast 55°
Inspector	Nicholas Paasche

4) Inspect vegetative cover for existence of unwanted woody species or the abnormal grade weeds that may out-compete the natural vegetation.	owth of
No abnormal growth or weeds were present on the landfill cover.	
	_
Monitoring Wells and Sampling Locations	
1) Check the general condition of the individual monitoring wells; make sure the boll intact (have not been knocked over by a vehicle), check for cracks on the concrement (monitor any minor cracks to ensure they do not widen and compromise the pad's is otherwise repairs may be necessary), make sure that the padlocks are in working content (not stiff when unlocking the padlock), make sure that the plug on the PVC riser is and that the threads are in good condition.	rete pad integrity ondition
MW-12 had a rusted lock on the outer casing that wouldn't close. This should be replaced	l
	_
2) Inspect the drainage flow control valve and piping system for functionality and co (SW-1).	ondition
Minor damage to the plastic culverts that convey stormwater to SW-1, but the system is fi	ully
functional.	
	_
3) Inspect the sump collection tank for cracks or any visible problems that may ef integrity of the system (LS-1).	fect the
Damage to mechanical/electrical component to LS-1, but no damage to the leachate sump	nc .



Date 10/26/2020
Weather Conditions Overcast 55°
Inspector Nicholas Paasche

Surface Water Drainage

Surface water drainage system was in great condition. No pooling of water on-site.
2) Check all stormwater drainage systems (e.g. piping, manholes, drains) for overall function Make sure there are no blockages or diversions.
Piping and drainage for surface water system was in good condition and functional.
Property
1) Check the condition of fences and gates throughout the property.
Fences, barbed wire and gates were in good working condition.
2) Conduct a thorough investigation of the entire site for any areas of concern.
No further areas of concern were noted.



Date	10/26/2020
Weather Conditions	Overcast 55°
Inspector	Nicholas Paasche

CC Metals and Alloys, LLC Checklist of Recommended Corrective Actions

Item Number	Item	Action Taken	Date of Correction	Signature
1	Minor damage to plastic culverts	Send map of culverts to mowing company to prevent any further damage.	J	
2	Broken lock on MW-12	Replace Lock		
				_
. 3				
-				
•				

2021 Witmer Road Inspection Checklist



Weather Conditions
Inspector

Charles Calleger

P. # 2.3643.17

CC Metals and Alloys, LLC Witmer Road Landfill Inspection Checklist

1 4248 witnes Rd (witnes Rd. & Maryland Ave.)

General Instructions

The inspector should note the various observations he/she makes under the various sections and questions. If any corrective actions need to be taken, they will be noted on the Checklist Of Recommended Corrective Actions, Page 4 of 4. If any unusual conditions are encountered during the inspections, they should be reported to the engineer (LAN Associates, Inc., 200 Malaga Street, St. Augustine, FL 32084, 904-824-6999).

Landfill Cover

 Observe any areas on the cover that indicate signs of subsidence (e.g., obvious visible low spots on the cover surface where significant amounts of standing water can accumulate in puddles during significant precipitation events, check for the presence of large cracks on the surface of the cover, etc).

The landfill was moved Prior to inspection, there were no areas noted that had subsided, no standing water atop either landfill cell was observed

2) Check for erosional swales, washouts, etc. in the landfill cover caused by stormwater runoff. During windy conditions, observe any evidence of dust blowing off the cover.

It rained lightly on 10/21/21 the day Prior to the inspendion, No ecrosion or washout were observed or identified. At all meteral were damp, no dust was seen.

3) Inspect landfill vegetative cover for overall health and consistency. (e.g. check for bare spots in the vegetative cover.)

overall landfill registation was good, healthy and scemed in good Condition. No bare spots of distinged arest were observed.

Vegittion consistency was very good.



Weather Conditions
Inspector

Character

Character

2.3643.17.

4) Inspect vegetative cover for existence of unwanted woody species or the abnormal growth of weeds that may out-compete the natural vegetation.

Two areas were noted with woody trees encroaching into the landill Cells one area had multiple in-mature trees and another with a single more makine tree. There trees are marked on the included map and are scromended to be removed.

Monitoring Wells and Sampling Locations

1) Check the general condition of the individual monitoring wells; make sure the bollards are intact (have not been knocked over by a vehicle), check for cracks on the concrete pad (monitor any minor cracks to ensure they do not widen and compromise the pad's integrity otherwise repairs may be necessary), make sure that the padlocks are in working condition (not stiff when unlocking the padlock), make sure that the plug on the PVC riser is present and that the threads are in good condition.

All wells were inspected and are in go fair condition with the exception of MW BAI. This well has a brother / created well Pad/suffere Seal. See phobysoph. A well repoir 17 recomended.

 Inspect the drainage flow control valve and piping system for functionality and condition (SW-1).

The flow control value seems intact. The piping system between /connecting decime collection areas seems to be functioning, However the entrol of each drainge Pipe are worn it fraged from souther maintaining activities. No sepaint are recomended at this time, as the system in Conctioning.

3) Inspect the sump collection tank for cracks or any visible problems that may effect the integrity of the system (LS-1).

The mechanial and electrical components, littly associate with the alorm system, seem inoperatible



Weather Conditions

Inspector

Chair Callegar:

2.3643.17

Surface Water Drainage

1) Inspect the overall function of the surface water drainage system. Look for signs of erosion or subsidence that could lead to offsite surface water drainage or pooling water onsite.
The surface water decinage system looks in good condition, No
Unitry Subsidence of emotion was noted.
 Check all stormwater drainage systems (e.g. piping, manholes, drains) for overall function. Make sure there are no blockages or diversions.
Piping menhoter vents & draint seem in fair condition. Overall function 15 being himbered by Vesitative Cartail growth in stamment drainage Sincles. It is recommended to bushbag/mon catails during the next mainstrace regularly scheduled event.
Property
1) Check the condition of fences and gates throughout the property.
All fencing in very good condition, including gater, Party and cross-tier therbicide treatment it recomended next maintaine Cycle to Kill back the climina vegitation beginning to grow in the fence. Also some tree Pruning it represented to protect the Fence in the NE Property Corner (willow tree).
2) Conduct a thorough investigation of the entire site for any areas of concern.
Please See Sile notes, maps and photos /vedio for complete evaluation of proposition. A dedicibed inspection evaluation is provided within the Gield notes/maps/photos These documents are attacked to this inspection check list. A filler willow tree is also recomended for remonity willow.



Weather Conditions

Cloudy 52°

Inspector

Chir Callegari

CC Metals and Alloys, LLC Checklist of Recommended Corrective Actions

papared						
Item Number	Item	Action Taken	Date of Correction	Signature		
1	Repair MWBA-1 Well Pad/Suface Seal.	Report well ped in 2002 after winter months, peror to groundwater scaping.	August/ septender 2022	ells		
2	Remove all Kret growing into the landfill cell	Remove woody regitation/tang-treat stowing into Londfill cells in August/september 2022, during ment moving	August/ September 2022	ells		
3	Bushhog/mow Colaite	Cut/Mow/ bush by catality growing in the stormwhat drainage system in August / september dry season in conjuction the offer needy six work.	August/ september	etls		
Ц	memore overdraging limbs from wilbur tree on feare	Prune overhorging willow limbs to protect the fence protective maintaine to avoid fence repair from low limbs	August/ September 2022	016		
5	remove feller willow tree	Cut & Remove fallen willow thee from sile to avoid making an arec where cutine monteners cannot be done	August/ September 2022	elle		
6	Herbicide application	Apply herhicide along and on fence/ vegithing growing on/into Lence as precentionery meintenance of fence longuity	August/ Sep-lember 2022	edes		

2022 Witmer Road Inspection Checklist



Weather Conditions

Inspector

Wichoias Pacis cus

Weather Conditions

Wichoias Pacis cus

CC Metals and Alloys, LLC Witmer Road Landfill Inspection Checklist

General Instructions

The inspector should note the various observations he/she makes under the various sections and questions. If any corrective actions need to be taken, they will be noted on the Checklist Of Recommended Corrective Actions, Page 4 of 4. If any unusual conditions are encountered during the inspections, they should be reported to the engineer (LAN Associates, Inc., 200 Malaga Street, St. Augustine, FL 32084, 904-824-6999).

Landfill Cover

1)	Observe any areas on the cover that indicate signs of subsidence (e.g., obvious visible low
-	spots on the cover surface where significant amounts of standing water can accumulate in
	puddles during significant precipitation events, check for the presence of large cracks on the
	surface of the cover, etc).
	al all a second of the second of the

No Sta	anding Wi	afer	w	as obje	rred	, 1	he
Cover	surface	06	the	landfill	had	50	evidence
0 + 9	subsiden	ce.					

2) Check for erosional swales, washouts, etc. in the landfill cover caused by stormwater runoff. During windy conditions, observe any evidence of dust blowing off the cover.

No e	rosion	was	observed	in the
swales	or o	n the	1andfill	Cover.

3) Inspect landfill vegetative cover for overall health and consistency. (e.g. check for bare spots in the vegetative cover.)

Ove	rall V	egetatica	n On	the	land 6:11
Wa	> healt	he, only	bare s	pot was	due to
Smal	11 Stones	and u	ias not	Substan	4:01 (2.×4×4)



te 8/24/2022
Weather Conditions
Inspector

Nicholas Caasake

4)	Inspect vegetative cover for existence of unwanted woody species or the abnormal growth of weeds that may out-compete the natural vegetation.
	Cattails in the Swales have been Moved
	and removed. Swales look much better Herbicide
	was applied on August 19th, 2022. Will take approximately
	and vernoved. Swales look much better Herbicide was applied on Angust 19th, 2022. Will take approximation 10+ days, unwanted vanes on the fences has started for
<u>M</u>	onitoring Wells and Sampling Locations
1)	Check the general condition of the individual monitoring wells; make sure the bollards are intact (have not been knocked over by a vehicle), check for cracks on the concrete pad (monitor any minor cracks to ensure they do not widen and compromise the pad's integrity otherwise repairs may be necessary), make sure that the padlocks are in working condition (not stiff when unlocking the padlock), make sure that the plug on the PVC riser is present and that the threads are in good condition.
	Repaired sarface Seal at MW-BRI looks good. Lock on MW-IZ is broken, needs to be replaced by Barton & Loguidice who do the sampling. The monitoring well next to MW-IZ (not an monitoring use) has be ild and is lovered by duct tape thats rippins.
	good. Lock on MW-12 is broken, needs to be
	replaced by Barton SLoquidice who do the sampling.
	The monitoring well next to MW-12 (not an monitoring 151)
	has no lid and is lovered by duct tape that's ripping.
2)	Inspect the drainage flow control valve and piping system for functionality and condition (SW-1).
	SW-1 is operating as designed
-	
3)	Inspect the sump collection tank for cracks or any visible problems that may effect the integrity of the system (LS-1).
	Concrete of the Collection tank
	15 in good (ondition) although the
	mechanical component attacked is broken
	mechanical component attacked is broken and ping on the ground



Weather Conditions
Inspector

The 8/24/2022Nicholas fausche

Surface Water Drainage

1) Inspect the overall function of the surface water drainage system. Look for signs of erosion or subsidence that could lead to offsite surface water drainage or pooling water onsite.

54176	ace	Water	54	101/05	cand	Culver	1 +5
Were	opera	ting	af	+ hep	Should	Mike	21
damage	jo	plast	10	Culver	+5 , but	+ hes	are
Cle	ared	and	ho	VE +	10w.		

2) Check all stormwater drainage systems (e.g. piping, manholes, drains) for overall function. Make sure there are no blockages or diversions.

	No	Blocke	25e 5	observed	14
the	dra	inage	5,65t	em.	

Property

1) Check the condition of fences and gates throughout the property.

The gate along the western fence between to Empry facility and the landfull property was open.	Fences	and ga	125	were in	great	conditio	n,
Fmory facility and the landfull property was open	The gate	along	+nc	western	fence	between	f Le
this provided should be locked and a ver perentally provided to the facility as well.	Emory for	cility and	the	landfell p	reperty	was oper	<i>i</i> .

2) Conduct a thorough investigation of the entire site for any areas of concern.

	vent knowed. Trees near for landfill slope were success,
	The large weeping Willow was trimmed so that
	1+ doesn't touch the fence or trailer on
	the advacent property.
02.2.	Recommendations: Trim saplings or small/medium braish
	along fence paticularly smallmedium trees/brush in



Weather Conditions
Inspector

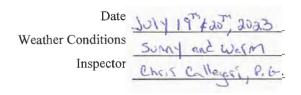
Wicholas facisine

CC Metals and Alloys, LLC Checklist of Recommended Corrective Actions

Item Number	Item	Action Taken	Date of Correction	Signature
1	Vines on the Fince.	Herbicide was applied 5 day before for inspection, Vines had sust started dying. All said they would check and if it washt dead in 10 days they would re-app	Ļ	
2.	smullimed trees/brash to the southwest corner of fewery.	Talked to Al and They said they would cay them down with loppers when they came back to encek on Vines.		
3	Lock on MW-12 nceis to be replaced.	LAN will email samplers asking them to replace the lock,		
4	Guts was open between landfull and ubjacent facility	LAN Will notify owners and replace the lock of requested		

2023 Witmer Road Inspection Checklist





CC Metals and Alloys, LLC Witmer Road Landfill Inspection Checklist

General Instructions

The inspector should note the various observations he/she makes under the various sections and questions. If any corrective actions need to be taken, they will be noted on the Checklist Of Recommended Corrective Actions, Page 4 of 4. If any unusual conditions are encountered during the inspections, they should be reported to the engineer (LAN Associates, Inc., 200 Malaga Street, St. Augustine, FL 32084, 904-824-6999).

Landfill Cover

1) Observe any areas on the cover that indicate signs of subsidence (e.g., obvious visible low spots on the cover surface where significant amounts of standing water can accumulate in puddles during significant precipitation events, check for the presence of large cracks on the surface of the cover, etc).

No subsidence, cracks or site cover breaks were not observed, No starting water was found and the Site cover system was found to be functioning and in good condition.

2) Check for erosional swales, washouts, etc. in the landfill cover caused by stormwater runoff. During windy conditions, observe any evidence of dust blowing off the cover.

No erosional fectores were found during the inspection.

Vegitation was heatfully, no base spots were found and No dust was originating from the site.

3) Inspect landfill vegetative cover for overall health and consistency. (e.g. check for bare spots in the vegetative cover.)

The landfill vegitative could wat in good condition, recently mower, with no bare spots. It was consistent over the landfill cells and across the Site throughout the drainge system.



Date	July	19"\$20"	2023
Weather Conditions	Sun	ny & Was	cm
Inspector	Cher	Callegi	, 8.6.

4) Inspect vegetative cover for existence of unwanted woody species or the abnormal growth of weeds that may out-compete the natural vegetation.

Three areas of tree growth of are of concern to the wellbeing of the feare and need trimming. Two areas of tree growth internal to the site and adjacent/infringing into the landfill cells need pruning of remails see corrective action Table and corrective action Map.

Monitoring Wells and Sampling Locations

1) Check the general condition of the individual monitoring wells; make sure the bollards are intact (have not been knocked over by a vehicle), check for cracks on the concrete pad (monitor any minor cracks to ensure they do not widen and compromise the pad's integrity otherwise repairs may be necessary), make sure that the padlocks are in working condition (not stiff when unlocking the padlock), make sure that the plug on the PVC riser is present and that the threads are in good condition.

Each monitoring well/bollered cluster were inspected and photographed.

The well / bollered are in good condition with local and riter intert.

Previous repairs to part and new locals were completed, verified and documented,

2) Inspect the drainage flow control valve and piping system for functionality and condition (SW-1).

All drainage flow control structures and piping were inspected. The surface water drainge system it in good conditions, unobstructed, allowing Mont at designed. The ends of the plastic culverts are showing week

3) Inspect the sump collection tank for cracks or any visible problems that may effect the integrity of the system (LS-1).

The leachede collection sump it structurely sound, it wis opened and war holding liquide No creater or visible problems were rated.



Weather Conditions

Inspector

Chas Callegai, P. 6.

Surface Water Drainage

1)	Inspect the overall function of the surface water drainage system. Look for signs of erosion or
	subsidence that could lead to offsite surface water drainage or pooling water onsite.

The overall surface while drainge statem had vegitable cover, No estosion was noted during the inspection, aprets to be furthering as designed and conveying standard proposity. No standing what was found and the area had recived a good amount of rain the Previous weaths. The colvect ends are sharing weat.

2) Check all stormwater drainage systems (e.g. piping, manholes, drains) for overall function. Make sure there are no blockages or diversions.

No blockage of the System wit observed the Stelem is functioning at designed. The colvect ends, connecting the surface when capture areas are beginning to be worn out and will likely need attention in the fully to to continue to be functional a transmit/convey strawards projectly.

In stall marting states at each colvect and on all pipes to allow for location identification.

Property during mowing. Clear out pipe ends of grass debits to allow unobstructed show.

1) Check the condition of fences and gates throughout the property.

The fencing was inspected in its entirety around the perimited of the Property. The fence & gate are all in good conditions vinet & weeds had been removed and inspection was unobstructed. 3 areas of tree trimming are needed to protect the fence Statem. See recomended corrective Advantagle and map

2) Conduct a thorough investigation of the entire site for any areas of concern.

All areas of the Site were inspealed thoroughly for any involvement which may hinder the institutional or engineering Condition. No istress were found ofter than 2 areas of trees tensocially into the landfill cells. The good systems of the trees will depositive the cover system if not rempied out. See the recommended corrective action table and May for more delal and locations.



Weather Conditions
Inspector

Chair Callegar, P.G.

CC Metals and Alloys, LLC Checklist of Recommended Corrective Actions

Item Number	Item	Action Taken	Date of Correction	Signature
1	Dead tree and overhanging willow branches on fence	Aemore the dead tree and live Willow branchet overhousing the North Fence to reduce fence damye potential	Prior to 2024 inspection	016
2	Tree limbs overhonging the west sence I in one spot	Remove the overheasing limbs to reduce the palential of flerie damage.	Prior to The 2024 Annual Inspection	015
3	Tree limbs overhowing the SW fence in one location	Remove the tree limbs which are overhenging the S.W. fence in this limited location	Prio(to The 2024 Annual Inspection	0/6
4	Aenone new tree Stoatu and trim the large willow at the base of cell I andfill	Remove the new trees ady, cont/ under the large willow tree at the base of icadfill cell #2 to stop food greaty into the cell through the buf	Prior to The 2024 Annul inspection	CIKS
5	Remove two moderale Sized trees growing into the side slope	Cut and remove two moderale sized trees growing into the suthern side slope of landfill cell # 1. Roots are a growing into the landfill rell breakly the	Prior to The 2024 Annul site Insportun	L/Ks
		cotter staten.		
6	Showing damage & week.	Install marting States at each culvert end on all pipes to allow location itentification in tall gross for protection during mourning clean-out entry of pipe to allow unabstructed flow.	Prior to the 2024 Mowin event & inspection	0/6
		7		

APPENDIX 5

SKW Historical Permits

EXPIRATION DATE October 31. 1984

Under the Envir	Ditilia Consei A	BLIUN LAW, AIN	CIE 47, THIE /,	Part 360		•
	NSTRUCTION RATION	X INIT	TIAL ISSUE EWAL	☐ REISSUAI ☐ MODIFIC	•	19
PERMIT ISSUED TO KW ALLOYS, INC.		3801 Highl	and Avenue, N	liagara Falls	TELEPHONE NO. 716/285-1252	
LOCATION OF PROJECT Town Niagara	County Nia	ıgara	Region 9	onservation Regional Office Headquarters Vare Avenue, Buf	Ce	
DESCRIPTION OF PROJECT Construct and Operati	e SKW Alloys, l	Inc. Landfil	1 #2	ON-SITE SUPERVISOR William Lozor	×	

GENERAL CONDITIONS

- 1. The permittee shall file in the office of the Environmental Conservation Region specified above, a notice on intention to commence work at least 48 hours in advance of the time of commencement and shall also notify said office promptly in writing of the completion of the work.
- 2. The permitted work shall be subject to inspection by an authorized representative of the Department of Environmental Conservation who may order the work suspended if the public interest so requires.
- 3. As a condition of the issuance of this permit, the applicant has accepted expressly, by the execution of the application, the full legal responsibility for all damages, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and has agreed to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from the said project.
- 4. All work carried out under this permit shall conform to the approved plans and specifications. Any amendments must be approved by the Department of Environmental Conservation prior to their implementation.
- 5. The permittee is responsible for obtaining any other permits, approvals, easements and rights-of-way which may be required for this project.
- 6. By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with Part 360 and the special conditions. Any variances granted by the Department of Environmental Conservation to Part 360 must be in writing and attached hereto.

SPECIAL CONDITIONS

- Your application for a variance from 6NYCRR Part 360.8(b) (exemption from daily cover) is hereby approved. In the event that the deposited ferro silicon sludges become dried and create a fugitive dust problem, either on or off site, steps shall be taken to remedy the situation.
- Upon the filling of the landfill, two feet of cover material shall be applied to the surface of the landfill. The top 6 inches shall be of a soil suitable for sustaining a vegetative cover crop to avoid erosion.
- Quarterly reports shall be submitted indicating the volume of material which has been placed into the landfill and shall be submitted on the first business day of the months of November, February, May and August.
- Semi-annual reports shall be submitted to the Region 9 Office containing the analytical results of the monitoring well sampling program and surface water sampling program as included in the permit for Landfill #1.
- Within 60 days of the effective date of this permit, a certificate of deposit, bond or other negotiable instrument, payable to the Commissioner of the NYS Department of Environmental Conservation, shall be forwarded to this Region 9 Office in the amount of \$5,000 to cover costs of closure and monitoring. The life of this undertaking shall be for the permit life (October 31, 1984).
- The issuance of this permit does not relieve the applicant from the compliance with other State, Federal or local laws, ordinances or regulations.
- Prior to the expiration date of this permit, the landfill shall be properly closed and maintained to prevent adverse environmental health impacts, such as contravention of surface or groundwater quality standards, gas migration, odors, and vectors. Proper

Robert J. Mitrey, P.E.

SKW ALLOYS, INC. 3801 Highland Avenue Niagara Falls, NY 14305 Permit to Construct and Operate - Permit #2585 Expiration Date - 10/31/84 Facility #32N04

SPECIAL CONDITIONS (cont'd)

7. closure includes covering with a minimum of 2 feet of final cover, establishment of a grass cover crop, and sufficient grading to divert water off the fill area in order to minimize infiltration and to preclude ponding.

1

Permit Administrator

Date

New York State Department of Environmental Conservation 584 Delaware Avenue, Buffalo, New York 14202



May 30, 1980

Mr. LeRoy C. Wintersteen, Manager Environmental Control SKW Alloys, Inc. P.O. Box 368 Niagara Falls, NY 14302

Re: Permit to Operate
Solid Waste Management Facilities
Permit No. 2133
Niagara (T), Niagara County

Dear Mr. Wintersteen:

This will acknowledge receipt of the Certification of Construction and "As Built" drawings for the above facility. These materials are accepted for record purposes and are included in our files on the project.

We are transmitting herewith Permit No. 2133, Permit to Operate the Solid Waste Management Facility. The permit contains special conditions which require monitoring, record keeping, and reporting which should be followed, as well as the other conditions in the permit.

If you have any questions pertaining to the permit, the operation of the facility or the monitoring and reporting requirements, please do not hesitate to contact the writer or Mr. Tygert at 716/842-4311.

Very truly yours,

Robert J. Mitrey, P.E. Associate Sanitary Engineer

JST: sk

cc: Niagara County Health Dept.
Secured Landfill Contractors, Inc.
Mr. Richard Snyder, P.E.
Albany, Division of Solid Waste

7. That only the materials described in the approved engineering report, prepared by Richard R. Snyder, P.E., dated June 18, 1979, and approved ammendments thereto, be placed in the facility.

8. That daily records of the quantity of waste material placed in the facility be maintained, and that an annual summary be submitted to this office on the anniversary date of this permit. The summary should include the total quantity of wastes disposed of and an estimate of the remaining life and/or volume of the facility.

OTICE OF PERMIT

fo	r:	
	CONSTRUCTION	x INITIAL ISSUE
	x OPERATION	RENEWAL

REISSUANCE
MODIFICATION

address: P.O. Box 368, Niagara Falls, New York, 14302

for a project described as: Solid Waste Management Facility

under the Environmental Conservation Law,

Article 27, Title 5, Part 360 (Solid Waste Management Facilities)

NOTE:

• This Notice of Permit must be posted on the project site in such a manner that it is protected from weather and is in a location readily visible to the public.

has been issued to: _ skw Alloys. Inc.

· A copy of the Permit with the general and special conditions noted thereon will be shown to anyone upon request.

New York State

Department of Environmental Conservation

47-12-2 (8/77)

Issuing Officer

584 Delaware Avenue, Buffalo, New York, 14202

Address

Permit No. issue Date **Expiration Date** Chadica fflat Contemponentifiel Carbergen prieter Carb Belle be 27, Talle 2, Part bert

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CHEROTE - CONTRACTOR SET

SKW ALLOYS, INC.
3801 Highland Avenue
agara Falls, NY 14305

Permit to Construct and Cperate - Permit #2585 Expiration Date - 10/31/84 Facility #32N04

SPECIAL CONDITIONS (cont'd)

7. closure includes covering with a minimum of 2 feet of final cover, establishment of a grass cover crop, and sufficient grading to divert water off the fill area in order to minimize infiltration and to preclude ponding.

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Permit Administrator

Date

APPENDIX 6

Laboratory Analytical Reports 2020-2023

2020 Laboratory Analytical Report

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-170160-1 Client Project/Site: Witmer Road G/W

For:

LAN Associates Inc. 88 Riberia Street Suite 400 St. Augustine, Florida 32084

Attn: Mr. Chris L. Callegari

Authorized for release by: 5/29/2020 3:50:24 PM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager (484)685-0868 judy.stone@testamericainc.com

.....LINKS

Review your project results through Total Access

Have a Question?



Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Laboratory Job ID: 480-170160-1

Client: LAN Associates Inc Project/Site: Witmer Road G/W

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Definitions/Glossary

Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Qualifiers

GC/MS VOA Qualifier **Qualifier Description**

LCS or LCSD is outside acceptance limits. Surrogate recovery exceeds control limits Х

Metals

Qualifier **Qualifier Description**

ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery Contains Free Liquid CFL **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

Minimum Detectable Activity (Radiochemistry) MDA

MDC Minimum Detectable Concentration (Radiochemistry)

MDI Method Detection Limit ML Minimum Level (Dioxin) Method Quantitation Limit MQI

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

Quality Control QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) **TEQ**

Page 3 of 42

5/29/2020

Case Narrative

Client: LAN Associates Inc Project/Site: Witmer Road G/W Job ID: 480-170160-1

Job ID: 480-170160-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-170160-1

Comments

No additional comments.

Receipt

The samples were received on 5/19/2020 2:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.8° C.

GC/MS VOA

Method 8260C: Surrogate recovery for the following samples were outside the upper control limit: MW-3R (480-170160-2) and MW-5R (480-170160-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone, respectfully, in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) associated with batch 532681. The following samples were affected: BR-1 (480-170160-1), MW-3R (480-170160-2), MW-12 (480-170160-3), MW-14N (480-170160-4), MW-5R (480-170160-5), Leachate (480-170160-6), SW-1 (480-170160-7) and Trip Blank (480-170160-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: BR-1 (480-170160-1), MW-3R (480-170160-2), MW-12 (480-170160-3), MW-14N (480-170160-4), MW-5R (480-170160-5) and Leachate (480-170160-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. BR-1 (480-170160-1), MW-3R (480-170160-2), MW-12 (480-170160-3), MW-14N (480-170160-4), MW-5R (480-170160-5), Leachate (480-170160-6), SW-1 (480-170160-7), (LCS 480-532832/2-A) and (MB 480-532832/1-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Client: LAN Associates Inc Job ID: 480-170160-1 Project/Site: Witmer Road G/W

Client Sample ID: BR-1

Lab Sample ID: 480-170160-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.14	۸	0.0020		mg/L	1		6010C	Total/NA
Boron	0.12		0.020		mg/L	1		6010C	Total/NA
Manganese	0.50		0.0030		mg/L	1		6010C	Total/NA
Potassium	7.9		0.50		mg/L	1		6010C	Total/NA
Sodium	49.6		1.0		mg/L	1		6010C	Total/NA
Chloride	100		2.5		mg/L	5		300.0	Total/NA
Sulfate	93.5		10.0		mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	14.6		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	318		10.0		mg/L	1		SM 2540C	Total/NA
Cr (VI)	0.025		0.010		mg/L	1		SM 3500 CR B	Total/NA
Total Organic Carbon	3.5		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-3R

Lab Sample ID: 480-170160-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.034	٨	0.0020		mg/L	1	_	6010C	Total/NA
Boron	0.12		0.020		mg/L	1		6010C	Total/NA
Chromium	0.0065		0.0040		mg/L	1		6010C	Total/NA
Manganese	0.0034		0.0030		mg/L	1		6010C	Total/NA
Sodium	54.2		1.0		mg/L	1		6010C	Total/NA
Chloride	101		2.5		mg/L	5		300.0	Total/NA
Sulfate	207		10.0		mg/L	5		300.0	Total/NA
Total Dissolved Solids	917		10.0		mg/L	1		SM 2540C	Total/NA
Cr (VI)	0.024		0.010		mg/L	1		SM 3500 CR B	Total/NA
Total Organic Carbon	3.0		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 480-170160-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.5		1.0		ug/L	1		8260C	Total/NA
Barium	0.042	^	0.0020		mg/L	1		6010C	Total/NA
Boron	0.16		0.020		mg/L	1		6010C	Total/NA
Manganese	0.20		0.0030		mg/L	1		6010C	Total/NA
Potassium	4.0		0.50		mg/L	1		6010C	Total/NA
Sodium	77.9		1.0		mg/L	1		6010C	Total/NA
Chloride	140		2.5		mg/L	5		300.0	Total/NA
Sulfate	128		10.0		mg/L	5		300.0	Total/NA
Total Dissolved Solids	1000		10.0		mg/L	1		SM 2540C	Total/NA
Cr (VI)	0.020		0.010		mg/L	1		SM 3500 CR B	Total/NA
Total Organic Carbon	2.6		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-14N

Lab Sample ID: 480-170160-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	22		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	2.5		1.0		ug/L	1		8260C	Total/NA
Barium	0.13	^	0.0020		mg/L	1		6010C	Total/NA
Boron	0.11		0.020		mg/L	1		6010C	Total/NA
Manganese	0.17		0.0030		mg/L	1		6010C	Total/NA
Potassium	2.5		0.50		mg/L	1		6010C	Total/NA
Sodium	89.6		1.0		mg/L	1		6010C	Total/NA
Chloride	150		2.5		mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-14N (Continued)

Lab Sample ID: 480-170160-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	244		10.0		mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	19.7		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	1130		10.0		mg/L	1		SM 2540C	Total/NA
Cr (VI)	0.013		0.010		mg/L	1		SM 3500 CR B	Total/NA
Total Organic Carbon	3.2		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-5R

Lab Sample ID: 480-170160-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.067	۸	0.0020		mg/L	1		6010C	Total/NA
Boron	0.17		0.020		mg/L	1		6010C	Total/NA
Manganese	0.091		0.0030		mg/L	1		6010C	Total/NA
Potassium	21.7		0.50		mg/L	1		6010C	Total/NA
Sodium	70.0		1.0		mg/L	1		6010C	Total/NA
Chloride	84.0		2.5		mg/L	5		300.0	Total/NA
Sulfate	159		10.0		mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	14.8		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	487		10.0		mg/L	1		SM 2540C	Total/NA
Cr (VI)	0.016		0.010		mg/L	1		SM 3500 CR B	Total/NA
Total Organic Carbon	6.2		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: Leachate

Lab Sample ID: 480-170160-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.094	٨	0.0020		mg/L	1		6010C	Total/NA
Boron	0.44		0.020		mg/L	1		6010C	Total/NA
Chromium	0.41		0.0040		mg/L	1		6010C	Total/NA
Lead	0.017		0.010		mg/L	1		6010C	Total/NA
Manganese	0.27		0.0030		mg/L	1		6010C	Total/NA
Potassium	112		0.50		mg/L	1		6010C	Total/NA
Sodium	85.3		1.0		mg/L	1		6010C	Total/NA
Bromide	1.5		1.0		mg/L	5		300.0	Total/NA
Chloride	143		2.5		mg/L	5		300.0	Total/NA
Sulfate	172		10.0		mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	16.6		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	797		10.0		mg/L	1		SM 2540C	Total/NA
Cr (VI)	0.046		0.010		mg/L	1		SM 3500 CR B	Total/NA
Total Organic Carbon	9.7		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: SW-1

Lab Sample ID: 480-170160-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.030	٨	0.0020		mg/L	1	_	6010C	Total/NA
Boron	0.089		0.020		mg/L	1		6010C	Total/NA
Chromium	0.013		0.0040		mg/L	1		6010C	Total/NA
Manganese	0.30		0.0030		mg/L	1		6010C	Total/NA
Potassium	13.8		0.50		mg/L	1		6010C	Total/NA
Sodium	46.9		1.0		mg/L	1		6010C	Total/NA
Chloride	35.8		0.50		mg/L	1		300.0	Total/NA
Sulfate	18.1		2.0		mg/L	1		300.0	Total/NA
Chemical Oxygen Demand	55.5		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	304		10.0		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Client Sample ID: SW-1 (Continued)

Lab Sample ID: 480-170160-7

	Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ı	Cr (VI)	0.034	F1	0.010		mg/L	1		SM 3500 CR B	Total/NA
	Total Organic Carbon	19.6		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: Trip Blank Lab Sample ID: 480-170160-8

No Detections.

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Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Client Sample ID: BR-1

Date Collected: 05/19/20 09:40 Date Received: 05/19/20 14:10 Lab Sample ID: 480-170160-1

Matrix: Water

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		05/21/20 04:09	1
1,1,1-Trichloroethane	ND	1.0	ug/L		05/21/20 04:09	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		05/21/20 04:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		05/21/20 04:09	1
1,1,2-Trichloroethane	ND	1.0	ug/L		05/21/20 04:09	1
1,1-Dichloroethane	ND	1.0	ug/L		05/21/20 04:09	1
1,1-Dichloroethene	ND	1.0	ug/L		05/21/20 04:09	1
1,2,3-Trichloropropane	ND	1.0	ug/L		05/21/20 04:09	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L		05/21/20 04:09	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		05/21/20 04:09	1
1,2-Dibromoethane	ND	1.0	ug/L		05/21/20 04:09	1
1,2-Dichlorobenzene	ND	1.0	ug/L		05/21/20 04:09	1
1,2-Dichloroethane	ND	1.0	ug/L		05/21/20 04:09	1
1,2-Dichloropropane	ND	1.0	ug/L		05/21/20 04:09	1
1,3-Dichlorobenzene	ND	1.0	ug/L		05/21/20 04:09	1
1,4-Dichlorobenzene	ND SE	1.0	ug/L		05/21/20 04:09	1
2-Butanone (MEK)	ND *	10	ug/L		05/21/20 04:09	1
2-Hexanone	ND	5.0	ug/L		05/21/20 04:09	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		05/21/20 04:09	· 1
Acetone	ND	10	ug/L		05/21/20 04:09	. 1
Acetonitrile	ND	15	ug/L		05/21/20 04:09	1
Benzene	ND	1.0	ug/L		05/21/20 04:09	1
Bromochloromethane	ND	1.0	ug/L		05/21/20 04:09	1
Bromodichloromethane	ND	1.0	ug/L		05/21/20 04:09	1
Bromoform	ND	1.0	ug/L		05/21/20 04:09	1
Bromomethane	ND	1.0	ug/L		05/21/20 04:09	. 1
Carbon disulfide	ND ND	1.0	ug/L		05/21/20 04:09	1
Carbon tetrachloride	ND				05/21/20 04:09	
Carbon tetrachionae Chlorobenzene	ND ND	1.0 1.0	ug/L		05/21/20 04:09	1
Chloroethane	ND ND	1.0	ug/L		05/21/20 04:09	1
			ug/L			1
Chlorosophone	ND	1.0	ug/L		05/21/20 04:09	1
Chloromethane	ND	1.0	ug/L		05/21/20 04:09	1
cis-1,2-Dichloroethene	ND	1.0	ug/L		05/21/20 04:09	1
cis-1,3-Dichloropropene	ND	1.0	ug/L		05/21/20 04:09	1
Cyclohexane	ND	1.0	ug/L		05/21/20 04:09	1
Dibromochloromethane	ND	1.0	ug/L		05/21/20 04:09	
Dibromomethane	ND	1.0	ug/L		05/21/20 04:09	1
Dichlorodifluoromethane	ND	1.0	ug/L		05/21/20 04:09	1
Ethylbenzene	ND	1.0	ug/L		05/21/20 04:09	1
lodomethane	ND	1.0	ug/L		05/21/20 04:09	1
Isopropylbenzene	ND	1.0	ug/L		05/21/20 04:09	1
m,p-Xylene	ND	2.0	ug/L		05/21/20 04:09	1
Methyl acetate	ND	2.5	ug/L		05/21/20 04:09	1
Methylcyclohexane	ND	1.0	ug/L		05/21/20 04:09	1
Methylene Chloride	ND	1.0	ug/L		05/21/20 04:09	1
o-Xylene	ND	1.0	ug/L		05/21/20 04:09	1
Styrene	ND	1.0	ug/L		05/21/20 04:09	1
Tetrachloroethene	ND	1.0	ug/L		05/21/20 04:09	1
Toluene	ND	1.0	ug/L		05/21/20 04:09	1

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Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Client Sample ID: BR-1

Lab Sample ID: 480-170160-1 Date Collected: 05/19/20 09:40 Matrix: Water

Date Received: 05/19/20 14:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/21/20 04:09	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			05/21/20 04:09	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			05/21/20 04:09	1
Trichloroethene	ND		1.0		ug/L			05/21/20 04:09	1
Trichlorofluoromethane	ND		1.0		ug/L			05/21/20 04:09	1
Vinyl acetate	ND		5.0		ug/L			05/21/20 04:09	1
Vinyl chloride	ND		1.0		ug/L			05/21/20 04:09	1
Xylenes, Total	ND		2.0		ug/L			05/21/20 04:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120					05/21/20 04:09	1
4-Bromofluorobenzene (Surr)	104		73 - 120					05/21/20 04:09	1
Toluene-d8 (Surr)	108		80 - 120					05/21/20 04:09	1
Dibromofluoromethane (Surr)	98		75 - 123					05/21/20 04:09	1
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ND		0.015		mg/L		05/21/20 10:20	05/22/20 15:01	1
0.14	^	0.0020		mg/L		05/21/20 10:20	05/22/20 15:01	1
0.12		0.020		mg/L		05/21/20 10:20	05/22/20 15:01	1
ND		0.0040		mg/L		05/21/20 10:20	05/22/20 15:01	1
ND		0.010		mg/L		05/21/20 10:20	05/22/20 15:01	1
0.50		0.0030		mg/L		05/21/20 10:20	05/22/20 15:01	1
7.9		0.50		mg/L		05/21/20 10:20	05/22/20 15:01	1
49.6		1.0		mg/L		05/21/20 10:20	05/22/20 15:01	1
ND		0.025		mg/L		05/21/20 10:20	05/22/20 15:01	1
	ND 0.14 0.12 ND ND 0.50 7.9 49.6	0.14 ^ 0.12 ND ND 0.50 7.9 49.6	ND 0.015 0.14 ^ 0.0020 0.12 0.020 ND 0.0040 ND 0.010 0.50 0.0030 7.9 0.50 49.6 1.0	ND 0.015 0.14 ^ 0.0020 0.12 0.020 ND 0.0040 ND 0.010 0.50 0.0030 7.9 0.50 49.6 1.0	ND 0.015 mg/L 0.14 ^ 0.0020 mg/L 0.12 0.020 mg/L ND 0.0040 mg/L ND 0.010 mg/L 0.50 0.0030 mg/L 7.9 0.50 mg/L 49.6 1.0 mg/L	ND 0.015 mg/L 0.14 ^ 0.0020 mg/L 0.12 0.020 mg/L ND 0.0040 mg/L ND 0.010 mg/L 0.50 0.0030 mg/L 7.9 0.50 mg/L 49.6 1.0 mg/L	ND 0.015 mg/L 05/21/20 10:20 0.14 0.0020 mg/L 05/21/20 10:20 0.12 0.020 mg/L 05/21/20 10:20 ND 0.0040 mg/L 05/21/20 10:20 ND 0.010 mg/L 05/21/20 10:20 0.50 0.0030 mg/L 05/21/20 10:20 7.9 0.50 mg/L 05/21/20 10:20 49.6 1.0 mg/L 05/21/20 10:20	ND 0.015 mg/L 05/21/20 10:20 05/22/20 15:01 0.14 ^ 0.0020 mg/L 05/21/20 10:20 05/22/20 15:01 0.12 0.020 mg/L 05/21/20 10:20 05/22/20 15:01 0.12 0.020 mg/L 05/21/20 10:20 05/22/20 15:01 ND 0.0040 mg/L 05/21/20 10:20 05/22/20 15:01 ND 0.010 mg/L 05/21/20 10:20 05/22/20 15:01 0.50 0.0030 mg/L 05/21/20 10:20 05/22/20 15:01 0.50 0.50 mg/L 05/21/20 10:20 05/22/20 15:01 0.50 mg/L 05/21/20 10:20 05/22/20 15:01 0.50 mg/L 05/21/20 10:20 05/22/20 15:01 0.50 0.50 mg/L 05/21/20 10:20 05/22/20 15:01 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/26/20 11:46	05/26/20 14:56	1

General Chemistry						
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Bromide	ND	1.0	mg/L		05/28/20 00:59	5
Chloride	100	2.5	mg/L		05/28/20 00:59	5
Sulfate	93.5	10.0	mg/L		05/28/20 00:59	5
Chemical Oxygen Demand	14.6	10.0	mg/L		05/20/20 18:44	1
Total Dissolved Solids	318	10.0	mg/L		05/20/20 16:08	1
Cr (VI)	0.025	0.010	mg/L		05/20/20 09:39	1
Total Organic Carbon	3.5	1.0	mg/L		05/29/20 00:22	1

Client Sample ID: MW-3R Lab Sample ID: 480-170160-2

Date Collected: 05/19/20 11:50 Date Received: 05/19/20 14:10

Method: 8260C - Volatile Organic	Compounds by GC/MS					
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		05/21/20 04:34	1
1,1,1-Trichloroethane	ND	1.0	ug/L		05/21/20 04:34	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		05/21/20 04:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		05/21/20 04:34	1

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Matrix: Water

Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-3R Date Collected: 05/19/20 11:50

Date Received: 05/19/20 14:10

Lab Sample ID: 480-170160-2

Matrix: Water

Analyte	anic Compounds by GC/MS (Co Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND Quality	1.0	ug/L		05/21/20 04:34	1
1,1-Dichloroethane	ND	1.0	ug/L		05/21/20 04:34	1
1,1-Dichloroethene	ND	1.0	ug/L		05/21/20 04:34	1
1,2,3-Trichloropropane	ND	1.0	ug/L		05/21/20 04:34	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L		05/21/20 04:34	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		05/21/20 04:34	1
1,2-Dibromoethane	ND	1.0	ug/L		05/21/20 04:34	1
1.2-Dichlorobenzene	ND	1.0	ug/L		05/21/20 04:34	1
1,2-Dichloroethane	ND	1.0	ug/L		05/21/20 04:34	1
1,2-Dichloropropane	ND	1.0	ug/L		05/21/20 04:34	1
1,3-Dichlorobenzene	ND	1.0	ug/L		05/21/20 04:34	1
1,4-Dichlorobenzene	ND	1.0	ug/L		05/21/20 04:34	- 11111
2-Butanone (MEK)	ND *	10	ug/L		05/21/20 04:34	1
2-Hexanone	ND	5.0	ug/L		05/21/20 04:34	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		05/21/20 04:34	· 1
Acetone	ND	10	ug/L		05/21/20 04:34	1
Acetonitrile	ND	15	ug/L		05/21/20 04:34	1
Benzene	ND	1.0	ug/L		05/21/20 04:34	111111
Bromochloromethane	ND	1.0	ug/L		05/21/20 04:34	1
Bromodichloromethane	ND	1.0	=		05/21/20 04:34	1
			ug/L		05/21/20 04:34	
Bromoform Bromomethane	ND ND	1.0	ug/L			1
		1.0	ug/L		05/21/20 04:34	
Carbon disulfide	ND	1.0	ug/L		05/21/20 04:34	1
Carbon tetrachloride	ND ND	1.0	ug/L		05/21/20 04:34	1
Chlorobenzene	ND	1.0	ug/L		05/21/20 04:34	1
Chloroethane	ND ND	1.0	ug/L		05/21/20 04:34	1
Chloroform	ND	1.0	ug/L		05/21/20 04:34	1
Chloromethane	ND	1.0	ug/L		05/21/20 04:34	1
cis-1,2-Dichloroethene	ND	1.0	ug/L		05/21/20 04:34	1
cis-1,3-Dichloropropene	ND	1.0	ug/L		05/21/20 04:34	1
Cyclohexane	ND	1.0	ug/L 		05/21/20 04:34	1
Dibromochloromethane	ND	1.0	ug/L		05/21/20 04:34	1
Dibromomethane	ND	1.0	ug/L		05/21/20 04:34	1
Dichlorodifluoromethane	ND	1.0	ug/L		05/21/20 04:34	1
Ethylbenzene	ND	1.0	ug/L		05/21/20 04:34	_ 1
lodomethane	ND	1.0	ug/L		05/21/20 04:34	1
Isopropylbenzene	ND	1.0	ug/L		05/21/20 04:34	1
m,p-Xylene	ND	2.0	ug/L		05/21/20 04:34	1
Methyl acetate	ND	2.5	ug/L		05/21/20 04:34	1
Methylcyclohexane	ND	1.0	ug/L		05/21/20 04:34	1
Methylene Chloride	ND	1.0	ug/L		05/21/20 04:34	1
o-Xylene	ND	1.0	ug/L		05/21/20 04:34	1
Styrene	ND	1.0	ug/L		05/21/20 04:34	1
Tetrachloroethene	ND	1.0	ug/L		05/21/20 04:34	1
Toluene	ND	1.0	ug/L		05/21/20 04:34	1
trans-1,2-Dichloroethene	ND	1.0	ug/L		05/21/20 04:34	1
trans-1,3-Dichloropropene	ND	1.0	ug/L		05/21/20 04:34	1
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L		05/21/20 04:34	1
Trichloroethene	ND	1.0	ug/L		05/21/20 04:34	1

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Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-3R

Cr (VI)

Total Organic Carbon

Lab Sample ID: 480-170160-2

Date Collected: 05/19/20 11:50 Matrix: Water Date Received: 05/19/20 14:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0		ug/L			05/21/20 04:34	1
Vinyl acetate	ND		5.0		ug/L			05/21/20 04:34	1
Vinyl chloride	ND		1.0		ug/L			05/21/20 04:34	1
Xylenes, Total	ND		2.0		ug/L			05/21/20 04:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121	X	77 - 120					05/21/20 04:34	1
4-Bromofluorobenzene (Surr)	100		73 - 120					05/21/20 04:34	1
Toluene-d8 (Surr)	104		80 - 120					05/21/20 04:34	1
Dibromofluoromethane (Surr)	109		75 - 123					05/21/20 04:34	1
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		05/21/20 10:20	05/22/20 15:04	1
Barium	0.034	٨	0.0020		mg/L		05/21/20 10:20	05/22/20 15:04	1
Boron	0.12		0.020		mg/L		05/21/20 10:20	05/22/20 15:04	1
Chromium	0.0065		0.0040		mg/L		05/21/20 10:20	05/22/20 15:04	1
Lead	ND		0.010		mg/L		05/21/20 10:20	05/22/20 15:04	1
Manganese	0.0034		0.0030		mg/L		05/21/20 10:20	05/22/20 15:04	1
Potassium	ND		0.50		mg/L		05/21/20 10:20	05/22/20 15:04	1
Sodium	54.2		1.0		mg/L		05/21/20 10:20	05/22/20 15:04	1
Selenium	ND		0.025		mg/L		05/21/20 10:20	05/22/20 15:04	1
Method: 7470A - Mercury (CVAA) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/26/20 11:46	05/26/20 14:57	1
General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0		mg/L	979		05/28/20 01:13	5
Chloride	101		2.5		mg/L			05/28/20 01:13	5
Sulfate	207		10.0		mg/L			05/28/20 01:13	5
Chemical Oxygen Demand	ND		10.0		mg/L			05/20/20 18:44	1
Total Dissolved Solids	917		10.0		mg/L			05/20/20 16:30	1

Client Sample ID: MW-12 Lab Sample ID: 480-170160-3

Date Collected: 05/19/20 12:50 Date Received: 05/19/20 14:10

0.024

3.0

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L			05/21/20 04:58	1
1,1,1-Trichloroethane	ND	1.0		ug/L			05/21/20 04:58	1
1,1,2,2-Tetrachloroethane	ND	1.0		ug/L			05/21/20 04:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0		ug/L			05/21/20 04:58	1
1,1,2-Trichloroethane	ND	1.0		ug/L			05/21/20 04:58	1
1,1-Dichloroethane	ND	1.0		ug/L			05/21/20 04:58	1
1,1-Dichloroethene	ND	1.0		ug/L			05/21/20 04:58	1
1,2,3-Trichloropropane	ND	1.0		ug/L			05/21/20 04:58	1

0.010

1.0

mg/L

mg/L

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05/20/20 09:39

05/29/20 00:37

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Matrix: Water

Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-12 Date Collected: 05/19/20 12:50

Styrene

Toluene

Tetrachloroethene

Trichloroethene

Vinyl acetate

Vinyl chloride

Xylenes, Total

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

trans-1,4-Dichloro-2-butene

Trichlorofluoromethane

Lab Sample ID: 480-170160-3

Matrix: Water

Method: 8260C - Volatile Organic			MDI 11-14	D D	A	D :: T
Analyte 1,2,4-Trichlorobenzene	Result Qualifier ND	1.0 RL	MDL Unit	D Prepared	Analyzed 05/21/20 04:58	Dil Fa
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		05/21/20 04:58	
	ND ND	1.0	ug/L			
1,2-Dibromoethane			ug/L		05/21/20 04:58	
1,2-Dichlorobenzene	ND	1.0	ug/L		05/21/20 04:58	
1,2-Dichloroethane	ND	1.0	ug/L		05/21/20 04:58	
1,2-Dichloropropane	ND	1.0	ug/L		05/21/20 04:58	
1,3-Dichlorobenzene	ND	1.0	ug/L		05/21/20 04:58	
1,4-Dichlorobenzene	ND	1.0	ug/L		05/21/20 04:58	
2-Butanone (MEK)	ND *	10	ug/L		05/21/20 04:58	
2-Hexanone	ND	5.0	ug/L		05/21/20 04:58	
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		05/21/20 04:58	
Acetone	ND	10	ug/L		05/21/20 04:58	
Acetonitrile	ND	15	ug/L		05/21/20 04:58	
Benzene	ND	1.0	ug/L		05/21/20 04:58	
Bromochloromethane	ND	1.0	ug/L		05/21/20 04:58	
Bromodichloromethane	ND	1.0	ug/L		05/21/20 04:58	
Bromoform	ND	1.0	ug/L		05/21/20 04:58	
Bromomethane	ND	1.0	ug/L		05/21/20 04:58	
Carbon disulfide	ND	1.0	ug/L		05/21/20 04:58	
Carbon tetrachloride	ND	1.0	ug/L		05/21/20 04:58	
Chlorobenzene	ND	1.0	ug/L		05/21/20 04:58	
Chloroethane	ND	1.0	ug/L		05/21/20 04:58	
Chloroform	ND	1.0	ug/L		05/21/20 04:58	
Chloromethane	ND	1.0	ug/L		05/21/20 04:58	
cis-1,2-Dichloroethene	1.5	1.0	ug/L		05/21/20 04:58	
cis-1,3-Dichloropropene	ND	1.0	ug/L		05/21/20 04:58	
Cyclohexane	ND	1.0	ug/L		05/21/20 04:58	
Dibromochloromethane	ND	1.0	ug/L		05/21/20 04:58	
Dibromomethane	ND	1.0	ug/L		05/21/20 04:58	
Dichlorodifluoromethane	ND	1.0	ug/L		05/21/20 04:58	
Ethylbenzene	ND	1.0			05/21/20 04:58	
odomethane	ND ND	1.0	ug/L		05/21/20 04:58	
	ND		ug/L		05/21/20 04:58	
lsopropylbenzene	ND ND	1.0	ug/L			
m,p-Xylene		2.0	ug/L		05/21/20 04:58	
Methyl acetate	ND	2.5	ug/L		05/21/20 04:58	
Methylcyclohexane	ND	1.0	ug/L		05/21/20 04:58	
Methylene Chloride	ND	1.0	ug/L		05/21/20 04:58	

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05/21/20 04:58

05/21/20 04:58

05/21/20 04:58

05/21/20 04:58

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05/21/20 04:58

05/21/20 04:58

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1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

5.0

1.0

2.0

ug/L

ND

2

5

8

10

12

14

113

5/29/2020

Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-12

Lab Sample ID: 480-170160-3 Date Collected: 05/19/20 12:50 Matrix: Water

Date Received: 05/19/20 14:10

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		77 - 120	05/21/20 04:58	1
4-Bromofluorobenzene (Surr)	110		73 - 120	05/21/20 04:58	1
Toluene-d8 (Surr)	114		80 - 120	05/21/20 04:58	1
Dibromofluoromethane (Surr)	105		75 - 123	05/21/20 04:58	1

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		05/21/20 10:20	05/22/20 15:08	1
Barium	0.042	^	0.0020		mg/L		05/21/20 10:20	05/22/20 15:08	1
Boron	0.16		0.020		mg/L		05/21/20 10:20	05/22/20 15:08	1
Chromium	ND		0.0040		mg/L		05/21/20 10:20	05/22/20 15:08	1
Lead	ND		0.010		mg/L		05/21/20 10:20	05/22/20 15:08	1
Manganese	0.20		0.0030		mg/L		05/21/20 10:20	05/22/20 15:08	1
Potassium	4.0		0.50		mg/L		05/21/20 10:20	05/22/20 15:08	1
Sodium	77.9		1.0		mg/L		05/21/20 10:20	05/22/20 15:08	1
Selenium	ND		0.025		mg/L		05/21/20 10:20	05/22/20 15:08	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/26/20 11:46	05/26/20 14:59	1

General Chemistry								
Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND	1.0		mg/L			05/28/20 01:28	5
Chloride	140	2.5		mg/L			05/28/20 01:28	5
Sulfate	128	10.0		mg/L			05/28/20 01:28	5
Chemical Oxygen Demand	ND	10.0		mg/L			05/20/20 18:44	1
Total Dissolved Solids	1000	10.0		mg/L			05/20/20 16:08	1
Cr (VI)	0.020	0.010		mg/L			05/20/20 09:39	1
Total Organic Carbon	2.6	1.0		mg/L			05/29/20 00:53	1

Client Sample ID: MW-14N Lab Sample ID: 480-170160-4 **Matrix: Water**

Date Collected: 05/19/20 11:10 Date Received: 05/19/20 14:10

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		05/21/20 05:23	1
1,1,1-Trichloroethane	ND	1.0	ug/L		05/21/20 05:23	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		05/21/20 05:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		05/21/20 05:23	1
1,1,2-Trichloroethane	ND	1.0	ug/L		05/21/20 05:23	1
1,1-Dichloroethane	ND	1.0	ug/L		05/21/20 05:23	1
1,1-Dichloroethene	ND	1.0	ug/L		05/21/20 05:23	1
1,2,3-Trichloropropane	ND	1.0	ug/L		05/21/20 05:23	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L		05/21/20 05:23	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		05/21/20 05:23	1
1,2-Dibromoethane	ND	1.0	ug/L		05/21/20 05:23	1
1,2-Dichlorobenzene	ND	1.0	ug/L		05/21/20 05:23	1
1,2-Dichloroethane	ND	1.0	ug/L		05/21/20 05:23	1
1,2-Dichloropropane	ND	1.0	ug/L		05/21/20 05:23	1

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Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-14N Date Collected: 05/19/20 11:10

Vinyl chloride

Xylenes, Total

Lab Sample ID: 480-170160-4

Matrix: Water

Method: 8260C - Volatile Organi	c Compounds by GC/MS (Co	ontinued)				
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND	1.0	ug/L		05/21/20 05:23	1
1,4-Dichlorobenzene	ND	1.0	ug/L		05/21/20 05:23	1
2-Butanone (MEK)	ND *	10	ug/L		05/21/20 05:23	1
2-Hexanone	ND	5.0	ug/L		05/21/20 05:23	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		05/21/20 05:23	
Acetone	ND	10	ug/L		05/21/20 05:23	
Acetonitrile	ND	15	ug/L		05/21/20 05:23	
Benzene	ND	1.0	ug/L		05/21/20 05:23	•
Bromochloromethane	ND	1.0	ug/L		05/21/20 05:23	•
Bromodichloromethane	ND	1.0	ug/L		05/21/20 05:23	•
Bromoform	ND	1.0	ug/L		05/21/20 05:23	
Bromomethane	ND	1.0	ug/L		05/21/20 05:23	
Carbon disulfide	ND	1.0	ug/L		05/21/20 05:23	
Carbon tetrachloride	ND	1.0	ug/L		05/21/20 05:23	
Chlorobenzene	ND	1.0	ug/L		05/21/20 05:23	
Chloroethane	ND	1.0	ug/L		05/21/20 05:23	
Chloroform	ND	1.0	ug/L		05/21/20 05:23	
Chloromethane	ND	1.0	ug/L		05/21/20 05:23	
cis-1,2-Dichloroethene	22	1.0	ug/L		05/21/20 05:23	
cis-1,3-Dichloropropene	ND	1.0	ug/L		05/21/20 05:23	
Cyclohexane	ND	1.0	ug/L		05/21/20 05:23	
Dibromochloromethane	ND	1.0	ug/L		05/21/20 05:23	
Dibromomethane	ND	1.0	ug/L		05/21/20 05:23	
Dichlorodifluoromethane	ND	1.0	ug/L		05/21/20 05:23	
Ethylbenzene	ND	1.0	ug/L		05/21/20 05:23	
lodomethane	ND	1.0	ug/L		05/21/20 05:23	
Isopropylbenzene	ND	1.0	ug/L		05/21/20 05:23	
m,p-Xylene	ND	2.0	ug/L		05/21/20 05:23	
Methyl acetate	ND	2.5	ug/L		05/21/20 05:23	
Methylcyclohexane	ND	1.0	ug/L		05/21/20 05:23	
Methylene Chloride	ND	1.0	ug/L		05/21/20 05:23	
o-Xylene	ND	1.0	ug/L		05/21/20 05:23	
Styrene	ND	1.0	ug/L		05/21/20 05:23	
Tetrachloroethene	ND	1.0	ug/L		05/21/20 05:23	
Toluene	ND	1.0	ug/L		05/21/20 05:23	
trans-1,2-Dichloroethene	ND	1.0	ug/L		05/21/20 05:23	
trans-1,3-Dichloropropene	ND	1.0	ug/L		05/21/20 05:23	
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L		05/21/20 05:23	
Trichloroethene	ND	1.0	ug/L		05/21/20 05:23	
Trichlorofluoromethane	ND	1.0	ug/L		05/21/20 05:23	
Vinyl acetate	ND	5.0	ug/L		05/21/20 05:23	
viii, aoctato	140	5.0	ug/L		05/21/20 05:23	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		77 - 120		05/21/20 05:23	1
4-Bromofluorobenzene (Surr)	100		73 - 120		05/21/20 05:23	1
Toluene-d8 (Surr)	105		80 - 120		05/21/20 05:23	1
Dibromofluoromethane (Surr)	108		75 - 123		05/21/20 05:23	1

1.0

2.0

2.5

ND

ug/L

ug/L

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05/21/20 05:23

05/21/20 05:23

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9

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6

8

10

12

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Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Lab Sample ID: 480-170160-4 **Client Sample ID: MW-14N** Date Collected: 05/19/20 11:10 Matrix: Water

Date Received: 05/19/20 14:10

Method: 6010C - Metals (ICP)									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		05/21/20 10:20	05/22/20 15:12	1
Barium	0.13	^	0.0020		mg/L		05/21/20 10:20	05/22/20 15:12	1
Boron	0.11		0.020		mg/L		05/21/20 10:20	05/22/20 15:12	1
Chromium	ND		0.0040		mg/L		05/21/20 10:20	05/22/20 15:12	1
Lead	ND		0.010		mg/L		05/21/20 10:20	05/22/20 15:12	1
Manganese	0.17		0.0030		mg/L		05/21/20 10:20	05/22/20 15:12	1
Potassium	2.5		0.50		mg/L		05/21/20 10:20	05/22/20 15:12	1
Sodium	89.6		1.0		mg/L		05/21/20 10:20	05/22/20 15:12	1
Selenium	ND		0.025		mg/L		05/21/20 10:20	05/22/20 15:12	1
Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/26/20 11:46	05/26/20 15:00	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0		mg/L			05/28/20 01:43	5
Chloride	150		2.5		mg/L			05/28/20 01:43	5
Sulfate	244		10.0		mg/L			05/28/20 01:43	5
Chemical Oxygen Demand	19.7		10.0		mg/L			05/20/20 18:44	1
Total Dissolved Solids	1130		10.0		mg/L			05/20/20 16:08	1
Cr (VI)	0.013		0.010		mg/L			05/20/20 09:39	1
Total Organic Carbon	3.2		1.0		mg/L			05/29/20 01:08	1

Client Sample ID: MW-5R Lab Sample ID: 480-170160-5 Date Collected: 05/19/20 10:25 **Matrix: Water**

Date Received: 05/19/20 14:10

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		05/21/20 05:48	1
1,1,1-Trichloroethane	ND	1.0	ug/L		05/21/20 05:48	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		05/21/20 05:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		05/21/20 05:48	1
1,1,2-Trichloroethane	ND	1.0	ug/L		05/21/20 05:48	1
1,1-Dichloroethane	ND	1.0	ug/L		05/21/20 05:48	1
1,1-Dichloroethene	ND	1.0	ug/L		05/21/20 05:48	1
1,2,3-Trichloropropane	ND	1.0	ug/L		05/21/20 05:48	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L		05/21/20 05:48	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		05/21/20 05:48	1
1,2-Dibromoethane	ND	1.0	ug/L		05/21/20 05:48	1
1,2-Dichlorobenzene	ND	1.0	ug/L		05/21/20 05:48	1
1,2-Dichloroethane	ND	1.0	ug/L		05/21/20 05:48	1
1,2-Dichloropropane	ND	1.0	ug/L		05/21/20 05:48	1
1,3-Dichlorobenzene	ND	1.0	ug/L		05/21/20 05:48	1
1,4-Dichlorobenzene	ND	1.0	ug/L		05/21/20 05:48	1
2-Butanone (MEK)	ND *	10	ug/L		05/21/20 05:48	1
2-Hexanone	ND	5.0	ug/L		05/21/20 05:48	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		05/21/20 05:48	1
Acetone	ND	10	ug/L		05/21/20 05:48	1

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Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Lab Sample ID: 480-170160-5 **Client Sample ID: MW-5R**

Date Collected: 05/19/20 10:25 Matrix: Water Date Received: 05/19/20 14:10

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	ND		15	ug/L			05/21/20 05:48	1
Benzene	ND		1.0	ug/L			05/21/20 05:48	1
Bromochloromethane	ND		1.0	ug/L			05/21/20 05:48	1
Bromodichloromethane	ND		1.0	ug/L			05/21/20 05:48	1
Bromoform	ND		1.0	ug/L			05/21/20 05:48	1
Bromomethane	ND		1.0	ug/L			05/21/20 05:48	1
Carbon disulfide	ND		1.0	ug/L			05/21/20 05:48	1
Carbon tetrachloride	ND		1.0	ug/L			05/21/20 05:48	1
Chlorobenzene	ND		1.0	ug/L			05/21/20 05:48	1
Chloroethane	ND		1.0	ug/L			05/21/20 05:48	1
Chloroform	ND		1.0	ug/L			05/21/20 05:48	1
Chloromethane	ND		1.0	ug/L			05/21/20 05:48	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			05/21/20 05:48	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			05/21/20 05:48	1
Cyclohexane	ND		1.0	ug/L			05/21/20 05:48	1
Dibromochloromethane	ND		1.0	ug/L			05/21/20 05:48	1
Dibromomethane	ND		1.0	ug/L			05/21/20 05:48	1
Dichlorodifluoromethane	ND		1.0	ug/L			05/21/20 05:48	1
Ethylbenzene	ND		1.0	ug/L			05/21/20 05:48	1
Iodomethane	ND		1.0	ug/L			05/21/20 05:48	1
Isopropylbenzene	ND		1.0	ug/L			05/21/20 05:48	1
m,p-Xylene	ND		2.0	ug/L			05/21/20 05:48	1
Methyl acetate	ND		2.5	ug/L			05/21/20 05:48	1
Methylcyclohexane	ND		1.0	ug/L			05/21/20 05:48	1
Methylene Chloride	ND		1.0	ug/L			05/21/20 05:48	1
o-Xylene	ND		1.0	ug/L			05/21/20 05:48	1
Styrene	ND		1.0	ug/L			05/21/20 05:48	1
Tetrachloroethene	ND		1.0	ug/L			05/21/20 05:48	1
Toluene	ND		1.0	ug/L			05/21/20 05:48	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			05/21/20 05:48	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			05/21/20 05:48	1
trans-1,4-Dichloro-2-butene	ND		1.0	ug/L			05/21/20 05:48	1
Trichloroethene	ND		1.0	ug/L			05/21/20 05:48	1
Trichlorofluoromethane	ND		1.0	ug/L			05/21/20 05:48	1
Vinyl acetate	ND		5.0	ug/L			05/21/20 05:48	1
Vinyl chloride	ND		1.0	ug/L			05/21/20 05:48	1
Xylenes, Total	ND		2.0	ug/L			05/21/20 05:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121	X	77 - 120				05/21/20 05:48	1
4-Bromofluorobenzene (Surr)	100		73 - 120				05/21/20 05:48	1
Toluene-d8 (Surr)	108		80 - 120				05/21/20 05:48	1
Dibromofluoromethane (Surr)	108		75 - 123				05/21/20 05:48	1

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		05/21/20 10:20	05/22/20 15:15	1
Barium	0.067	^	0.0020		mg/L		05/21/20 10:20	05/22/20 15:15	1
Boron	0.17		0.020		mg/L		05/21/20 10:20	05/22/20 15:15	1
Chromium	ND		0.0040		mg/L		05/21/20 10:20	05/22/20 15:15	1

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Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-5R

Lab Sample ID: 480-170160-5

Date Collected: 05/19/20 10:25 Matrix: Water Date Received: 05/19/20 14:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010		mg/L		05/21/20 10:20	05/22/20 15:15	1
Manganese	0.091		0.0030		mg/L		05/21/20 10:20	05/22/20 15:15	1
Potassium	21.7		0.50		mg/L		05/21/20 10:20	05/22/20 15:15	1
Sodium	70.0		1.0		mg/L		05/21/20 10:20	05/22/20 15:15	1
Selenium	ND		0.025		mg/L		05/21/20 10:20	05/22/20 15:15	1
Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/26/20 11:46	05/26/20 15:04	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0		mg/L			05/28/20 01:57	5
Chloride	84.0		2.5		mg/L			05/28/20 01:57	5
Sulfate	159		10.0		mg/L			05/28/20 01:57	5
Chemical Oxygen Demand	14.8		10.0		mg/L			05/20/20 18:44	1
Total Dissolved Solids	487		10.0		mg/L			05/20/20 16:08	1
Cr (VI)	0.016		0.010		mg/L			05/20/20 09:39	1
Total Organic Carbon	6.2		1.0		mg/L			05/29/20 01:23	1

Lab Sample ID: 480-170160-6 **Client Sample ID: Leachate**

Date Collected: 05/19/20 12:10 **Matrix: Water** Date Received: 05/19/20 14:10

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		05/21/20 06:13	1
1,1,1-Trichloroethane	ND	1.0	ug/L		05/21/20 06:13	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		05/21/20 06:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		05/21/20 06:13	1
1,1,2-Trichloroethane	ND	1.0	ug/L		05/21/20 06:13	1
1,1-Dichloroethane	ND	1.0	ug/L		05/21/20 06:13	1
1,1-Dichloroethene	ND	1.0	ug/L		05/21/20 06:13	1
1,2,3-Trichloropropane	ND	1.0	ug/L		05/21/20 06:13	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L		05/21/20 06:13	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		05/21/20 06:13	1
1,2-Dibromoethane	ND	1.0	ug/L		05/21/20 06:13	1
1,2-Dichlorobenzene	ND	1.0	ug/L		05/21/20 06:13	1
1,2-Dichloroethane	ND	1.0	ug/L		05/21/20 06:13	1
1,2-Dichloropropane	ND	1.0	ug/L		05/21/20 06:13	1
1,3-Dichlorobenzene	ND	1.0	ug/L		05/21/20 06:13	1
1,4-Dichlorobenzene	ND	1.0	ug/L		05/21/20 06:13	1
2-Butanone (MEK)	ND *	10	ug/L		05/21/20 06:13	1
2-Hexanone	ND	5.0	ug/L		05/21/20 06:13	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		05/21/20 06:13	1
Acetone	ND	10	ug/L		05/21/20 06:13	1
Acetonitrile	ND	15	ug/L		05/21/20 06:13	1
Benzene	ND	1.0	ug/L		05/21/20 06:13	1
Bromochloromethane	ND	1.0	ug/L		05/21/20 06:13	1
Bromodichloromethane	ND	1.0	ug/L		05/21/20 06:13	1

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Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Client Sample ID: Leachate

Lab Sample ID: 480-170160-6 Date Collected: 05/19/20 12:10 Matrix: Water

Date Received: 05/19/20 14:10

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Bromoform	ND	1.0	ug/L		05/21/20 06:13	1
Bromomethane	ND	1.0	ug/L		05/21/20 06:13	1
Carbon disulfide	ND	1.0	ug/L		05/21/20 06:13	1
Carbon tetrachloride	ND	1.0	ug/L		05/21/20 06:13	1
Chlorobenzene	ND	1.0	ug/L		05/21/20 06:13	1
Chloroethane	ND	1.0	ug/L		05/21/20 06:13	1
Chloroform	ND	1.0	ug/L		05/21/20 06:13	1
Chloromethane	ND	1.0	ug/L		05/21/20 06:13	1
cis-1,2-Dichloroethene	ND	1.0	ug/L		05/21/20 06:13	1
cis-1,3-Dichloropropene	ND	1.0	ug/L		05/21/20 06:13	1
Cyclohexane	ND	1.0	ug/L		05/21/20 06:13	1
Dibromochloromethane	ND	1.0	ug/L		05/21/20 06:13	1
Dibromomethane	ND	1.0	ug/L		05/21/20 06:13	1
Dichlorodifluoromethane	ND	1.0	ug/L		05/21/20 06:13	1
Ethylbenzene	ND	1.0	ug/L		05/21/20 06:13	1
Iodomethane	ND	1.0	ug/L		05/21/20 06:13	1
Isopropylbenzene	ND	1.0	ug/L		05/21/20 06:13	1
m,p-Xylene	ND	2.0	ug/L		05/21/20 06:13	1
Methyl acetate	ND	2.5	ug/L		05/21/20 06:13	1
Methylcyclohexane	ND	1.0	ug/L		05/21/20 06:13	1
Methylene Chloride	ND	1.0	ug/L		05/21/20 06:13	1
o-Xylene	ND	1.0	ug/L		05/21/20 06:13	1
Styrene	ND	1.0	ug/L		05/21/20 06:13	1
Tetrachloroethene	ND	1.0	ug/L		05/21/20 06:13	1
Toluene	ND	1.0	ug/L		05/21/20 06:13	1
trans-1,2-Dichloroethene	ND	1.0	ug/L		05/21/20 06:13	1
trans-1,3-Dichloropropene	ND	1.0	ug/L		05/21/20 06:13	1
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L		05/21/20 06:13	1
Trichloroethene	ND	1.0	ug/L		05/21/20 06:13	1
Trichlorofluoromethane	ND	1.0	ug/L		05/21/20 06:13	1
Vinyl acetate	ND	5.0	ug/L		05/21/20 06:13	1
Vinyl chloride	ND	1.0	ug/L		05/21/20 06:13	1
Xylenes, Total	ND	2.0	ug/L		05/21/20 06:13	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120	77 - 120			05/21/20 06:13	1
4-Bromofluorobenzene (Surr)	108	73 - 120			05/21/20 06:13	1
Toluene-d8 (Surr)	110	80 - 120			05/21/20 06:13	1
Dibromofluoromethane (Surr)	111	75 ₋ 123			05/21/20 06:13	1

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		05/21/20 10:20	05/22/20 15:30	1
Barium	0.094	^	0.0020		mg/L		05/21/20 10:20	05/22/20 15:30	1
Boron	0.44		0.020		mg/L		05/21/20 10:20	05/22/20 15:30	1
Chromium	0.41		0.0040		mg/L		05/21/20 10:20	05/22/20 15:30	1
Lead	0.017		0.010		mg/L		05/21/20 10:20	05/22/20 15:30	1
Manganese	0.27		0.0030		mg/L		05/21/20 10:20	05/22/20 15:30	1
Potassium	112		0.50		mg/L		05/21/20 10:20	05/22/20 15:30	1
Sodium	85.3		1.0		mg/L		05/21/20 10:20	05/22/20 15:30	1

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Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Client Sample ID: Leachate

Lab Sample ID: 480-170160-6 Date Collected: 05/19/20 12:10 Matrix: Water

Date Received: 05/19/20 14:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025		mg/L		05/21/20 10:20	05/22/20 15:30	1
Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/26/20 11:46	05/26/20 15:05	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	1.5		1.0		mg/L			05/28/20 02:12	5
Chloride	143		2.5		mg/L			05/28/20 02:12	5
Sulfate	172		10.0		mg/L			05/28/20 02:12	5
Chemical Oxygen Demand	16.6		10.0		mg/L			05/20/20 18:44	1
Total Dissolved Solids	797		10.0		mg/L			05/20/20 16:08	1
Cr (VI)	0.046		0.010		mg/L			05/20/20 09:39	1
Total Organic Carbon	9.7		1.0		mg/L			05/29/20 01:39	

Client Sample ID: SW-1 Lab Sample ID: 480-170160-7

Date Collected: 05/19/20 10:20 Matrix: Water

Date Received: 05/19/20 14:10

Analyte	Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L			05/21/20 06:38	1
1,1,1-Trichloroethane	ND	1.0		ug/L			05/21/20 06:38	1
1,1,2,2-Tetrachloroethane	ND	1.0		ug/L			05/21/20 06:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0		ug/L			05/21/20 06:38	1
1,1,2-Trichloroethane	ND	1.0		ug/L			05/21/20 06:38	1
1,1-Dichloroethane	ND	1.0		ug/L			05/21/20 06:38	1
1,1-Dichloroethene	ND	1.0		ug/L			05/21/20 06:38	1
1,2,3-Trichloropropane	ND	1.0		ug/L			05/21/20 06:38	1
1,2,4-Trichlorobenzene	ND	1.0		ug/L			05/21/20 06:38	1
1,2-Dibromo-3-Chloropropane	ND	1.0		ug/L			05/21/20 06:38	1
1,2-Dibromoethane	ND	1.0		ug/L			05/21/20 06:38	1
1,2-Dichlorobenzene	ND	1.0		ug/L			05/21/20 06:38	1
1,2-Dichloroethane	ND	1.0		ug/L			05/21/20 06:38	1
1,2-Dichloropropane	ND	1.0		ug/L			05/21/20 06:38	1
1,3-Dichlorobenzene	ND	1.0		ug/L			05/21/20 06:38	1
1,4-Dichlorobenzene	ND	1.0		ug/L			05/21/20 06:38	1
2-Butanone (MEK)	ND	* 10		ug/L			05/21/20 06:38	1
2-Hexanone	ND	5.0		ug/L			05/21/20 06:38	1
4-Methyl-2-pentanone (MIBK)	ND	5.0		ug/L			05/21/20 06:38	1
Acetone	ND	10		ug/L			05/21/20 06:38	1
Acetonitrile	ND	15		ug/L			05/21/20 06:38	1
Benzene	ND	1.0		ug/L			05/21/20 06:38	1
Bromochloromethane	ND	1.0		ug/L			05/21/20 06:38	1
Bromodichloromethane	ND	1.0		ug/L			05/21/20 06:38	1
Bromoform	ND	1.0		ug/L			05/21/20 06:38	1
Bromomethane	ND	1.0		ug/L			05/21/20 06:38	1
Carbon disulfide	ND	1.0		ug/L			05/21/20 06:38	1
Carbon tetrachloride	ND	1.0		ug/L			05/21/20 06:38	1

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Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Client Sample ID: SW-1

Lab Sample ID: 480-170160-7 Matrix: Water

Date Collected: 05/19/20 10:20 Date Received: 05/19/20 14:10

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Chlorobenzene	ND	1.0	ug/L		05/21/20 06:38	1
Chloroethane	ND	1.0	ug/L		05/21/20 06:38	1
Chloroform	ND	1.0	ug/L		05/21/20 06:38	1
Chloromethane	ND	1.0	ug/L		05/21/20 06:38	1
cis-1,2-Dichloroethene	ND	1.0	ug/L		05/21/20 06:38	1
cis-1,3-Dichloropropene	ND	1.0	ug/L		05/21/20 06:38	1
Cyclohexane	ND	1.0	ug/L		05/21/20 06:38	1
Dibromochloromethane	ND	1.0	ug/L		05/21/20 06:38	1
Dibromomethane	ND	1.0	ug/L		05/21/20 06:38	1
Dichlorodifluoromethane	ND	1.0	ug/L		05/21/20 06:38	1
Ethylbenzene	ND	1.0	ug/L		05/21/20 06:38	1
lodomethane	ND	1.0	ug/L		05/21/20 06:38	1
Isopropylbenzene	ND	1.0	ug/L		05/21/20 06:38	1
m,p-Xylene	ND	2.0	ug/L		05/21/20 06:38	1
Methyl acetate	ND	2.5	ug/L		05/21/20 06:38	1
Methylcyclohexane	ND	1.0	ug/L		05/21/20 06:38	1
Methylene Chloride	ND	1.0	ug/L		05/21/20 06:38	1
o-Xylene	ND	1.0	ug/L		05/21/20 06:38	1
Styrene	ND	1.0	ug/L		05/21/20 06:38	1
Tetrachloroethene	ND	1.0	ug/L		05/21/20 06:38	1
Toluene	ND	1.0	ug/L		05/21/20 06:38	1
trans-1,2-Dichloroethene	ND	1.0	ug/L		05/21/20 06:38	1
trans-1,3-Dichloropropene	ND	1.0	ug/L		05/21/20 06:38	1
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L		05/21/20 06:38	1
Trichloroethene	ND	1.0	ug/L		05/21/20 06:38	1
Trichlorofluoromethane	ND	1.0	ug/L		05/21/20 06:38	1
Vinyl acetate	ND	5.0	ug/L		05/21/20 06:38	1
Vinyl chloride	ND	1.0	ug/L		05/21/20 06:38	1
Xylenes, Total	ND	2.0	ug/L		05/21/20 06:38	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116	77 - 120			05/21/20 06:38	1
4-Bromofluorobenzene (Surr)	108	73 - 120			05/21/20 06:38	1
Toluene-d8 (Surr)	110	80 - 120			05/21/20 06:38	1
Dibromofluoromethane (Surr)	108	75 - 123			05/21/20 06:38	1

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		05/21/20 10:20	05/22/20 15:34	1
Barium	0.030	^	0.0020		mg/L		05/21/20 10:20	05/22/20 15:34	1
Boron	0.089		0.020		mg/L		05/21/20 10:20	05/22/20 15:34	1
Chromium	0.013		0.0040		mg/L		05/21/20 10:20	05/22/20 15:34	1
Lead	ND		0.010		mg/L		05/21/20 10:20	05/22/20 15:34	1
Manganese	0.30		0.0030		mg/L		05/21/20 10:20	05/22/20 15:34	1
Potassium	13.8		0.50		mg/L		05/21/20 10:20	05/22/20 15:34	1
Sodium	46.9		1.0		mg/L		05/21/20 10:20	05/22/20 15:34	1
Selenium	ND		0.025		mg/L		05/21/20 10:20	05/22/20 15:34	1

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Client: LAN Associates Inc Project/Site: Witmer Road G/W

Client Sample ID: SW-1 Lab Sample ID: 480-170160-7

Date Collected: 05/19/20 10:20 Matrix: Water Date Received: 05/19/20 14:10

Method: 7470A - Mercury (CVAA) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/26/20 11:46	05/26/20 15:06	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			05/28/20 03:25	1
Chloride	35.8		0.50		mg/L			05/28/20 03:25	1
Sulfate	18.1		2.0		mg/L			05/28/20 03:25	1
Chemical Oxygen Demand	55.5		10.0		mg/L			05/20/20 18:44	1
Total Dissolved Solids	304		10.0		mg/L			05/20/20 16:08	1
Cr (VI)	0.034	F1	0.010		mg/L			05/20/20 09:39	1
Total Organic Carbon	19.6		1.0		mg/L			05/29/20 01:54	1

Client Sample ID: Trip Blank Lab Sample ID: 480-170160-8 **Matrix: Water**

Date Collected: 05/19/20 00:00

Date Received: 05/19/20 14:10

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		05/21/20 07:02	1
1,1,1-Trichloroethane	ND	1.0	ug/L		05/21/20 07:02	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		05/21/20 07:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		05/21/20 07:02	1
1,1,2-Trichloroethane	ND	1.0	ug/L		05/21/20 07:02	1
1,1-Dichloroethane	ND	1.0	ug/L		05/21/20 07:02	1
1,1-Dichloroethene	ND	1.0	ug/L		05/21/20 07:02	1
1,2,3-Trichloropropane	ND	1.0	ug/L		05/21/20 07:02	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L		05/21/20 07:02	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		05/21/20 07:02	1
1,2-Dibromoethane	ND	1.0	ug/L		05/21/20 07:02	1
1,2-Dichlorobenzene	ND	1.0	ug/L		05/21/20 07:02	1
1,2-Dichloroethane	ND	1.0	ug/L		05/21/20 07:02	1
1,2-Dichloropropane	ND	1.0	ug/L		05/21/20 07:02	1
1,3-Dichlorobenzene	ND	1.0	ug/L		05/21/20 07:02	1
1,4-Dichlorobenzene	ND	1.0	ug/L		05/21/20 07:02	1
2-Butanone (MEK)	ND *	10	ug/L		05/21/20 07:02	1
2-Hexanone	ND	5.0	ug/L		05/21/20 07:02	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		05/21/20 07:02	1
Acetone	ND	10	ug/L		05/21/20 07:02	1
Acetonitrile	ND	15	ug/L		05/21/20 07:02	1
Benzene	ND	1.0	ug/L		05/21/20 07:02	1
Bromochloromethane	ND	1.0	ug/L		05/21/20 07:02	1
Bromodichloromethane	ND	1.0	ug/L		05/21/20 07:02	1
Bromoform	ND	1.0	ug/L		05/21/20 07:02	1
Bromomethane	ND	1.0	ug/L		05/21/20 07:02	1
Carbon disulfide	ND	1.0	ug/L		05/21/20 07:02	1
Carbon tetrachloride	ND	1.0	ug/L		05/21/20 07:02	1
Chlorobenzene	ND	1.0	ug/L		05/21/20 07:02	1
Chloroethane	ND	1.0	ug/L		05/21/20 07:02	1
Chloroform	ND	1.0	ug/L		05/21/20 07:02	1
Chloromethane	ND	1.0	ug/L		05/21/20 07:02	1

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Job ID: 480-170160-1

Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Client Sample ID: Trip Blank

Lab Sample ID: 480-170160-8 Date Collected: 05/19/20 00:00

Matrix: Water

Date Received: 05/19/20 14:10

Dibromofluoromethane (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/21/20 07:02	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/21/20 07:02	1
Cyclohexane	ND		1.0		ug/L			05/21/20 07:02	1
Dibromochloromethane	ND		1.0		ug/L			05/21/20 07:02	1
Dibromomethane	ND		1.0		ug/L			05/21/20 07:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/21/20 07:02	1
Ethylbenzene	ND		1.0		ug/L			05/21/20 07:02	1
lodomethane	ND		1.0		ug/L			05/21/20 07:02	1
Isopropylbenzene	ND		1.0		ug/L			05/21/20 07:02	1
m,p-Xylene	ND		2.0		ug/L			05/21/20 07:02	1
Methyl acetate	ND		2.5		ug/L			05/21/20 07:02	1
Methylcyclohexane	ND		1.0		ug/L			05/21/20 07:02	1
Methylene Chloride	ND		1.0		ug/L			05/21/20 07:02	1
o-Xylene	ND		1.0		ug/L			05/21/20 07:02	1
Styrene	ND		1.0		ug/L			05/21/20 07:02	1
Tetrachloroethene	ND		1.0		ug/L			05/21/20 07:02	1
Toluene	ND		1.0		ug/L			05/21/20 07:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/21/20 07:02	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			05/21/20 07:02	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			05/21/20 07:02	1
Trichloroethene	ND		1.0		ug/L			05/21/20 07:02	1
Trichlorofluoromethane	ND		1.0		ug/L			05/21/20 07:02	1
Vinyl acetate	ND		5.0		ug/L			05/21/20 07:02	1
Vinyl chloride	ND		1.0		ug/L			05/21/20 07:02	1
Xylenes, Total	ND		2.0		ug/L			05/21/20 07:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		77 - 120					05/21/20 07:02	1
4-Bromofluorobenzene (Surr)	101		73 - 120					05/21/20 07:02	1
Toluene-d8 (Surr)	106		80 - 120					05/21/20 07:02	1

75 - 123

111

05/21/20 07:02

Surrogate Summary

Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

				Percent Sur	ogate Recovery (Acceptance Limit	s)
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)	
480-170160-1	BR-1	114	104	108	98	
480-170160-2	MW-3R	121 X	100	104	109	
480-170160-3	MW-12	116	110	114	105	
480-170160-4	MW-14N	119	100	105	108	
480-170160-5	MW-5R	121 X	100	108	108	
480-170160-6	Leachate	120	108	110	111	
480-170160-7	SW-1	116	108	110	108	
480-170160-8	Trip Blank	119	101	106	111	
LCS 480-532681/6	Lab Control Sample	107	97	104	97	
MB 480-532681/8	Method Blank	118	107	109	111	

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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QC Sample Results

Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-532681/8

Matrix: Water

Client Sample ID: Method Blank Prep Type: Total/NA

Analysis Batch: 532681						
Analyto	MB MB Result Qualifier	RL	MDL Unit	D Prepared	Analyzod	Dil Fac
Analyte 1,1,1,2-Tetrachloroethane	ND Result Qualifier	1.0	ug/L	D Prepared	Analyzed 05/20/20 23:37	1
1,1,1-Trichloroethane	ND	1.0	ug/L		05/20/20 23:37	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		05/20/20 23:37	1
	ND				05/20/20 23:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane		1.0	ug/L			
1,1,2-Trichloroethane	ND	1.0	ug/L		05/20/20 23:37	1
1,1-Dichloroethane	ND ND	1.0	ug/L		05/20/20 23:37	1
1,1-Dichloroethene	ND	1.0	ug/L		05/20/20 23:37	1
1,2,3-Trichloropropane	ND	1.0	ug/L		05/20/20 23:37	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L		05/20/20 23:37	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		05/20/20 23:37	1
1,2-Dibromoethane	ND	1.0	ug/L		05/20/20 23:37	1
1,2-Dichlorobenzene	ND	1.0	ug/L		05/20/20 23:37	1
1,2-Dichloroethane	ND	1.0	ug/L		05/20/20 23:37	1
1,2-Dichloropropane	ND	1.0	ug/L		05/20/20 23:37	1
1,3-Dichlorobenzene	ND	1.0	ug/L		05/20/20 23:37	1
1,4-Dichlorobenzene	ND	1.0	ug/L		05/20/20 23:37	1
2-Butanone (MEK)	ND	10	ug/L		05/20/20 23:37	1
2-Hexanone	ND	5.0	ug/L		05/20/20 23:37	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		05/20/20 23:37	1
Acetone	ND	10	ug/L		05/20/20 23:37	1
Acetonitrile	ND	15	ug/L		05/20/20 23:37	1
Benzene	ND	1.0	ug/L		05/20/20 23:37	1
Bromochloromethane	ND	1.0	ug/L		05/20/20 23:37	1
Bromodichloromethane	ND	1.0	ug/L		05/20/20 23:37	1
Bromoform	ND	1.0	ug/L		05/20/20 23:37	1
Bromomethane	ND	1.0	ug/L		05/20/20 23:37	1
Carbon disulfide	ND	1.0	ug/L		05/20/20 23:37	1
Carbon tetrachloride	ND	1.0	ug/L		05/20/20 23:37	1
Chlorobenzene	ND	1.0	ug/L		05/20/20 23:37	1
Chloroethane	ND	1.0	ug/L		05/20/20 23:37	1
Chloroform	ND	1.0	ug/L		05/20/20 23:37	1
Chloromethane	ND	1.0	ug/L		05/20/20 23:37	1
cis-1,2-Dichloroethene	ND	1.0	ug/L		05/20/20 23:37	1
cis-1,3-Dichloropropene	ND	1.0	ug/L		05/20/20 23:37	1
Cyclohexane	ND	1.0	ug/L		05/20/20 23:37	1
Dibromochloromethane	ND	1.0	ug/L		05/20/20 23:37	1
Dibromomethane	ND	1.0	ug/L		05/20/20 23:37	1
Dichlorodifluoromethane	ND	1.0	ug/L		05/20/20 23:37	1
Ethylbenzene	ND	1.0	ug/L		05/20/20 23:37	1
Iodomethane	ND	1.0	ug/L		05/20/20 23:37	· 1
Isopropylbenzene	ND	1.0	ug/L		05/20/20 23:37	1
m,p-Xylene	ND	2.0	ug/L		05/20/20 23:37	1
Methyl acetate	ND	2.5	ug/L		05/20/20 23:37	1
Methylcyclohexane	ND ND	2.5 1.0			05/20/20 23:37	1
Methylene Chloride	ND ND	1.0	ug/L		05/20/20 23:37	
			ug/L			1
o-Xylene	ND ND	1.0	ug/L		05/20/20 23:37	1
Styrene	ND	1.0	ug/L		05/20/20 23:37	1
Tetrachloroethene	ND	1.0	ug/L		05/20/20 23:37	1

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QC Sample Results

Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-532681/8

Matrix: Water

Analysis Batch: 532681

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB MB							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND	1.0		ug/L			05/20/20 23:37	1
trans-1,2-Dichloroethene	ND	1.0		ug/L			05/20/20 23:37	1
trans-1,3-Dichloropropene	ND	1.0		ug/L			05/20/20 23:37	1
trans-1,4-Dichloro-2-butene	ND	1.0		ug/L			05/20/20 23:37	1
Trichloroethene	ND	1.0		ug/L			05/20/20 23:37	1
Trichlorofluoromethane	ND	1.0		ug/L			05/20/20 23:37	1
Vinyl acetate	ND	5.0		ug/L			05/20/20 23:37	1
Vinyl chloride	ND	1.0		ug/L			05/20/20 23:37	1
Xylenes, Total	ND	2.0		ug/L			05/20/20 23:37	1

MB MB

Surrogate	%Recovery Q	ualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118	77 - 120		05/20/20 23:37	1
4-Bromofluorobenzene (Surr)	107	73 - 120		05/20/20 23:37	1
Toluene-d8 (Surr)	109	80 - 120		05/20/20 23:37	1
Dibromofluoromethane (Surr)	111	75 - 123		05/20/20 23:37	1

LCS LCS

Lab Sample ID: LCS 480-532681/6

Matrix: Water

Bromochloromethane

Bromoform

Bromomethane

Carbon disulfide

Bromodichloromethane

Analysis Batch: 532681

Client Sample ID: Lab Control Sample Prep Type: Total/NA

%Rec.

Added Result Qualifier Unit D %Rec Limits 1,1,1,2-Tetrachloroethane 25.0 25.0 ug/L 100 80 - 120 25.0 1,1,1-Trichloroethane 23.0 ug/L 92 73 - 126 1,1,2,2-Tetrachloroethane 25.0 25.6 ug/L 102 76 - 120 25.0 23.2 93 61 - 1481,1,2-Trichloro-1,2,2-trifluoroetha ug/L 1,1,2-Trichloroethane 25.0 25.5 102 76 - 122 ug/L 1,1-Dichloroethane 25.0 23.5 ug/L 94 77 - 120 ug/L 1.1-Dichloroethene 25.0 23.2 93 66 - 127 1,2,3-Trichloropropane 25.0 26.4 ug/L 106 68 - 122 1,2,4-Trichlorobenzene 25.0 24.4 ug/L 98 79 - 122 25.0 25.7 103 56 - 134 1,2-Dibromo-3-Chloropropane ug/L 25.0 107 77 - 120 1,2-Dibromoethane 26.7 ug/L 25.0 98 80 - 124 1,2-Dichlorobenzene 24.5 ug/L 1,2-Dichloroethane 25.0 98 75 - 120 24.6 ug/L 25.0 24.5 ug/L 98 76 - 120 1,2-Dichloropropane 1,3-Dichlorobenzene 25.0 24.7 ug/L 99 77 - 120 1,4-Dichlorobenzene 99 25.0 24.7 ug/L 80 - 1202-Butanone (MEK) 125 232 * ug/L 186 57 - 140 125 135 108 2-Hexanone ug/L 65 - 127 4-Methyl-2-pentanone (MIBK) 125 130 ug/L 104 71 - 125 ug/L Acetone 125 132 105 56 - 142 Acetonitrile 250 231 ug/L 92 65 - 129ug/L Benzene 25.0 23.0 92 71 - 124

25.0

25.0

25.0

25.0

25.0

Spike

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88

101

106

97

86

72 - 130

80 - 122

61 - 132

55 - 144

59 - 134

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22 1

25.3

26.5

24.2

21.6

ug/L

ug/L

ug/L

ug/L

ug/L

Job ID: 480-170160-1

Client: LAN Associates Inc Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-532681/6

Matrix: Water

Analysis Batch: 532681

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Carbon tetrachloride	25.0	24.2	ug/L		97	72 - 134	
Chlorobenzene	25.0	24.9	ug/L		100	80 - 120	
Chloroethane	25.0	25.5	ug/L		102	69 _ 136	
Chloroform	25.0	22.5	ug/L		90	73 - 127	
Chloromethane	25.0	24.3	ug/L		97	68 - 124	
cis-1,2-Dichloroethene	25.0	22.6	ug/L		90	74 - 124	
cis-1,3-Dichloropropene	25.0	26.4	ug/L		106	74 - 124	
Cyclohexane	25.0	22.2	ug/L		89	59 - 135	
Dibromochloromethane	25.0	27.4	ug/L		110	75 ₋ 125	
Dibromomethane	25.0	23.9	ug/L		96	76 - 127	
Dichlorodifluoromethane	25.0	24.9	ug/L		100	59 - 135	
Ethylbenzene	25.0	24.8	ug/L		99	77 - 123	
lodomethane	25.0	22.0	ug/L		88	78 ₋ 123	
Isopropylbenzene	25.0	25.2	ug/L		101	77 - 122	
m,p-Xylene	25.0	24.6	ug/L		99	76 - 122	
Methyl acetate	50.0	46.1	ug/L		92	74 - 133	
Methylcyclohexane	25.0	22.7	ug/L		91	68 - 134	
Methylene Chloride	25.0	23.2	ug/L		93	75 - 124	
o-Xylene	25.0	24.4	ug/L		98	76 - 122	
Styrene	25.0	25.6	ug/L		102	80 _ 120	
Tetrachloroethene	25.0	29.5	ug/L		118	74 - 122	
Toluene	25.0	24.9	ug/L		100	80 - 122	
trans-1,2-Dichloroethene	25.0	22.8	ug/L		91	73 _ 127	
trans-1,3-Dichloropropene	25.0	27.6	ug/L		110	80 - 120	
trans-1,4-Dichloro-2-butene	25.0	26.6	ug/L		107	41 - 131	
Trichloroethene	25.0	24.6	ug/L		98	74 - 123	
Trichlorofluoromethane	25.0	25.4	ug/L		101	62 - 150	
Vinyl acetate	50.0	57.2	ug/L		114	50 - 144	
Vinyl chloride	25.0	25.0	ug/L		100	65 - 133	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	97		75 ₋ 123

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-532832/1-A

Matrix: Water

Analysis Batch: 533305

Client Sample ID: Method Blank
Prep Type: Total/NA

Prep Batch: 532832

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		05/21/20 10:20	05/22/20 14:02	1
Barium	ND	^	0.0020		mg/L		05/21/20 10:20	05/22/20 14:02	1
Boron	ND		0.020		mg/L		05/21/20 10:20	05/22/20 14:02	1
Chromium	ND		0.0040		mg/L		05/21/20 10:20	05/22/20 14:02	1
Lead	ND		0.010		mg/L		05/21/20 10:20	05/22/20 14:02	1
Manganese	ND		0.0030		mg/L		05/21/20 10:20	05/22/20 14:02	1

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Client: LAN Associates Inc

Project/Site: Witmer Road G/W

Job ID: 480-170160-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-532832/1-A

Matrix: Water

Analysis Batch: 533305

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 532832

	IVID	INID															
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac								
Potassium	ND		0.50		mg/L		05/21/20 10:20	05/22/20 14:02	1								
Sodium	ND		1.0		mg/L		05/21/20 10:20	05/22/20 14:02	1								
Selenium	ND		0.025		mg/L		05/21/20 10:20	05/22/20 14:02	1								

Lab Sample ID: LCS 480-532832/2-A

Matrix: Water

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 533305							Prep Bat	tch: 532832
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	0.200	0.198		mg/L		99	80 - 120	
Barium	0.200	0.208	۸	mg/L		104	80 - 120	
Boron	0.200	0.197		mg/L		99	80 _ 120	
Chromium	0.200	0.194		mg/L		97	80 _ 120	
Lead	0.200	0.188		mg/L		94	80 _ 120	
Manganese	0.200	0.195		mg/L		98	80 _ 120	
Potassium	10.0	9.47		mg/L		95	80 _ 120	
Sodium	10.0	9.38		mg/L		94	80 _ 120	
Selenium	0.200	0.187		mg/L		93	80 - 120	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-533176/1-A

Matrix: Water

Analysis Batch: 533460

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 533176

	MB	MB						-	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/26/20 11:46	05/26/20 14:48	1

Lab Sample ID: LCS 480-533176/2-A

Matrix: Water

Analysis Batch: 533460

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 533176**

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits 0.00667 Mercury 0.00747 mg/L 112 80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-533550/28

Matrix: Water

Analysis Batch: 533550

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			05/28/20 00:44	1
Chloride	ND		0.50		mg/L			05/28/20 00:44	1
Sulfate	ND		2.0		mg/L			05/28/20 00:44	1

Client: LAN Associates Inc

Project/Site: Witmer Road G/W

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-533550/27 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 533550

	Spike		LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Bromide	5.00	5.04		mg/L		101	90 - 110
Chloride	50.0	48.24		mg/L		96	90 _ 110
Sulfate	50.0	50.10		mg/L		100	90 - 110

Lab Sample ID: 480-170160-6 MS

Matrix: Water

Analysis Batch: 533550

Allalysis Datell. 333330										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Bromide	1.5		25.0	26.16		mg/L		99	80 - 120	
Chloride	143		250	372.8		mg/L		92	81 - 120	
Sulfate	172		250	410.3		mg/L		96	80 - 120	

Lab Sample ID: 480-170160-6 MSD

Matrix: Water

Analy	SIS Batch: 533550												
		Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte		Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Bromid	e	1.5		25.0	26.38		mg/L		100	80 - 120	1	15	
Chlorid	e	143		250	378.0		mg/L		94	81 - 120	1	15	
Sulfate		172		250	412.1		mg/L		96	80 - 120	0	15	

Method: 410.4 - COD

Lab Sample ID: MB 480-532874/52 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 532874

		МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			05/20/20 18:44	1

Lab Sample ID: MB 480-532874/76 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 532874

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chemical Oxygen Demand ND 10.0 05/20/20 18:44 mg/L

Lab Sample ID: LCS 480-532874/53 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 532874

, , , , , , , , , , , , , , , , , , , ,	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chemical Oxygen Demand	25.0	24.68		mg/L		99	90 - 110

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Prep Type: Total/NA

Job ID: 480-170160-1

Client Sample ID: Leachate

Prep Type: Total/NA

Client: LAN Associates Inc

Project/Site: Witmer Road G/W

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-532874/77 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 532874

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chemical Oxygen Demand	25.0	25.17		mg/L		101	90 - 110

Lab Sample ID: 480-170160-6 MS

Matrix: Water

Analysis Batch: 532874

_	Sample Sample	Spike	MS	MS				%Rec.	
Analyte	Result Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chemical Oxygen Demand	16.6	50.0	71 10		ma/l		109	75 125	

Lab Sample ID: 480-170160-6 MSD

Matrix: Water

Analysis Batch: 532874

Analysis Batch. 332074	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte		Qualifier	Added			Unit	D	%Rec	Limits	RPD	Limit
Chemical Oxygen Demand	16.6		50.0	68.83		mg/L		105	75 - 125	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

MD MD

MR MR

Lab Sample ID: MB 480-532752/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 532752

		IVID	MD							
l	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total Dissolved Solids	ND		10.0		mg/L			05/20/20 16:08	1

Lab Sample ID: LCS 480-532752/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 532752

	Бріке	LCS LCS				%Rec.	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	
Total Dissolved Solids	503	535.0	mg/L		106	85 - 115	

Lab Sample ID: 480-170160-1 DU Client Sample ID: BR-1 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 532752

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	318		331.0		mg/L		4	10

Lab Sample ID: MB 480-532755/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 532755

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	10.0	mg/L		05/20/20 16:30	1

5/29/2020

Job ID: 480-170160-1

Client Sample ID: Leachate

Client Sample ID: Leachate

Prep Type: Total/NA

Prep Type: Total/NA

Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 480-532755/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 532755

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	503	516.0		mg/L		103	85 - 115

Client Sample ID: MW-3R Lab Sample ID: 480-170160-2 DU Prep Type: Total/NA

Matrix: Water

Analysis Batch: 532755

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	917		877.0		mg/L		4	10

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 480-532714/3 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 532714

	INID	IAID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			05/20/20 09:39	1

Lab Sample ID: LCS 480-532714/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 532714

	Spike Li	CS LCS				%Rec.	
Analyte	Added Res	ult Qualifier	Unit	D	%Rec	Limits	
Cr (VI)	0.0500 0.05	33	ma/L		107	85 - 115	

Lab Sample ID: 480-170160-1 MS Client Sample ID: BR-1 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 532714

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Cr (VI)	0.023	F1	0.0500	0.0635	F1	mg/L		80	85 _ 115

Lab Sample ID: 480-170160-7 MS Client Sample ID: SW-1 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 532714

	Sample Sample	Spike	MS MS				%Rec.
Analyte	Result Qualifier	Added	Result Qua	lifier Unit	D	%Rec	Limits
Cr (VI)	0.034 F1	0.0500	0.0841	mg/L		101	85 - 115

Lab Sample ID: 480-170160-2 DU Client Sample ID: MW-3R Prep Type: Total/NA

Matrix: Water

Analysis Batch: 532/14	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Cr (VI)	0.024		0.0234		mg/L		4	15

QC Sample Results

Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: 480-170160-7 DU

Matrix: Water

Analyte

Cr (VI)

Analysis Batch: 532714

Client Sample ID: SW-1 Prep Type: Total/NA

DU DU RPD Sample Sample Result Qualifier Result Qualifier D RPD Unit Limit 0.034 F1 0.0368 mg/L 15

Method: SM 5310C - TOC

Lab Sample ID: MB 480-534044/27

Matrix: Water

Analysis Batch: 534044

Client Sample ID: Method Blank Prep Type: Total/NA

Result Qualifier MDL Unit Analyzed Dil Fac RL Prepared Total Organic Carbon ND 1.0 05/28/20 21:18 mg/L

Lab Sample ID: LCS 480-534044/28 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 534044

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Total Organic Carbon 60.0 90 - 110 60.67 mg/L 101

MB MB

QC Association Summary

Client: LAN Associates Inc Job ID: 480-170160-1 Project/Site: Witmer Road G/W

GC/MS VOA

Analysis Batch: 532681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-170160-1	BR-1	Total/NA	Water	8260C	
480-170160-2	MW-3R	Total/NA	Water	8260C	
480-170160-3	MW-12	Total/NA	Water	8260C	
480-170160-4	MW-14N	Total/NA	Water	8260C	
480-170160-5	MW-5R	Total/NA	Water	8260C	
480-170160-6	Leachate	Total/NA	Water	8260C	
480-170160-7	SW-1	Total/NA	Water	8260C	
480-170160-8	Trip Blank	Total/NA	Water	8260C	
MB 480-532681/8	Method Blank	Total/NA	Water	8260C	
LCS 480-532681/6	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 532832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-170160-1	BR-1	Total/NA	Water	3005A	
480-170160-2	MW-3R	Total/NA	Water	3005A	
480-170160-3	MW-12	Total/NA	Water	3005A	
480-170160-4	MW-14N	Total/NA	Water	3005A	
480-170160-5	MW-5R	Total/NA	Water	3005A	
480-170160-6	Leachate	Total/NA	Water	3005A	
480-170160-7	SW-1	Total/NA	Water	3005A	
MB 480-532832/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-532832/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 533176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-170160-1	BR-1	Total/NA	Water	7470A	
480-170160-2	MW-3R	Total/NA	Water	7470A	
480-170160-3	MW-12	Total/NA	Water	7470A	
480-170160-4	MW-14N	Total/NA	Water	7470A	
480-170160-5	MW-5R	Total/NA	Water	7470A	
480-170160-6	Leachate	Total/NA	Water	7470A	
480-170160-7	SW-1	Total/NA	Water	7470A	
MB 480-533176/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-533176/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 533305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-170160-1	BR-1	Total/NA	Water	6010C	532832
480-170160-2	MW-3R	Total/NA	Water	6010C	532832
480-170160-3	MW-12	Total/NA	Water	6010C	532832
480-170160-4	MW-14N	Total/NA	Water	6010C	532832
480-170160-5	MW-5R	Total/NA	Water	6010C	532832
480-170160-6	Leachate	Total/NA	Water	6010C	532832
480-170160-7	SW-1	Total/NA	Water	6010C	532832
MB 480-532832/1-A	Method Blank	Total/NA	Water	6010C	532832
LCS 480-532832/2-A	Lab Control Sample	Total/NA	Water	6010C	532832

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QC Association Summary

Client: LAN Associates Inc Job ID: 480-170160-1 Project/Site: Witmer Road G/W

Metals

Analysis Batch: 533460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-170160-1	BR-1	Total/NA	Water	7470A	533176
480-170160-2	MW-3R	Total/NA	Water	7470A	533176
480-170160-3	MW-12	Total/NA	Water	7470A	533176
480-170160-4	MW-14N	Total/NA	Water	7470A	533176
480-170160-5	MW-5R	Total/NA	Water	7470A	533176
480-170160-6	Leachate	Total/NA	Water	7470A	533176
480-170160-7	SW-1	Total/NA	Water	7470A	533176
MB 480-533176/1-A	Method Blank	Total/NA	Water	7470A	533176
LCS 480-533176/2-A	Lab Control Sample	Total/NA	Water	7470A	533176

General Chemistry

Analysis Batch: 532714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-170160-1	BR-1	Total/NA	Water	SM 3500 CR B	
480-170160-2	MW-3R	Total/NA	Water	SM 3500 CR B	
480-170160-3	MW-12	Total/NA	Water	SM 3500 CR B	
480-170160-4	MW-14N	Total/NA	Water	SM 3500 CR B	
480-170160-5	MW-5R	Total/NA	Water	SM 3500 CR B	
480-170160-6	Leachate	Total/NA	Water	SM 3500 CR B	
480-170160-7	SW-1	Total/NA	Water	SM 3500 CR B	
MB 480-532714/3	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 480-532714/4	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
480-170160-1 MS	BR-1	Total/NA	Water	SM 3500 CR B	
480-170160-7 MS	SW-1	Total/NA	Water	SM 3500 CR B	
480-170160-2 DU	MW-3R	Total/NA	Water	SM 3500 CR B	
480-170160-7 DU	SW-1	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 532752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-170160-1	BR-1	Total/NA	Water	SM 2540C	
480-170160-3	MW-12	Total/NA	Water	SM 2540C	
480-170160-4	MW-14N	Total/NA	Water	SM 2540C	
480-170160-5	MW-5R	Total/NA	Water	SM 2540C	
480-170160-6	Leachate	Total/NA	Water	SM 2540C	
480-170160-7	SW-1	Total/NA	Water	SM 2540C	
MB 480-532752/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-532752/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-170160-1 DU	BR-1	Total/NA	Water	SM 2540C	

Analysis Batch: 532755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-170160-2	MW-3R	Total/NA	Water	SM 2540C	
MB 480-532755/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-532755/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-170160-2 DU	MW-3R	Total/NA	Water	SM 2540C	

Analysis Batch: 532874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-170160-1	BR-1	Total/NA	Water	410.4	
480-170160-2	MW-3R	Total/NA	Water	410.4	

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QC Association Summary

Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

General Chemistry (Continued)

Analysis Batch: 532874 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-170160-3	MW-12	Total/NA	Water	410.4	
480-170160-4	MW-14N	Total/NA	Water	410.4	
480-170160-5	MW-5R	Total/NA	Water	410.4	
480-170160-6	Leachate	Total/NA	Water	410.4	
480-170160-7	SW-1	Total/NA	Water	410.4	
MB 480-532874/52	Method Blank	Total/NA	Water	410.4	
MB 480-532874/76	Method Blank	Total/NA	Water	410.4	
LCS 480-532874/53	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-532874/77	Lab Control Sample	Total/NA	Water	410.4	
480-170160-6 MS	Leachate	Total/NA	Water	410.4	
480-170160-6 MSD	Leachate	Total/NA	Water	410.4	

Analysis Batch: 533550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-170160-1	BR-1	Total/NA	Water	300.0	
480-170160-2	MW-3R	Total/NA	Water	300.0	
480-170160-3	MW-12	Total/NA	Water	300.0	
480-170160-4	MW-14N	Total/NA	Water	300.0	
480-170160-5	MW-5R	Total/NA	Water	300.0	
480-170160-6	Leachate	Total/NA	Water	300.0	
480-170160-7	SW-1	Total/NA	Water	300.0	
MB 480-533550/28	Method Blank	Total/NA	Water	300.0	
LCS 480-533550/27	Lab Control Sample	Total/NA	Water	300.0	
480-170160-6 MS	Leachate	Total/NA	Water	300.0	
480-170160-6 MSD	Leachate	Total/NA	Water	300.0	

Analysis Batch: 534044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-170160-1	BR-1	Total/NA	Water	SM 5310C	
480-170160-2	MW-3R	Total/NA	Water	SM 5310C	
480-170160-3	MW-12	Total/NA	Water	SM 5310C	
480-170160-4	MW-14N	Total/NA	Water	SM 5310C	
480-170160-5	MW-5R	Total/NA	Water	SM 5310C	
480-170160-6	Leachate	Total/NA	Water	SM 5310C	
480-170160-7	SW-1	Total/NA	Water	SM 5310C	
MB 480-534044/27	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-534044/28	Lab Control Sample	Total/NA	Water	SM 5310C	

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Job ID: 480-170160-1

Client: LAN Associates Inc Project/Site: Witmer Road G/W

Client Sample ID: BR-1

Date Collected: 05/19/20 09:40 Date Received: 05/19/20 14:10 Lab Sample ID: 480-170160-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532681	05/21/20 04:09	CRL	TAL BUF
Total/NA	Prep	3005A			532832	05/21/20 10:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	533305	05/22/20 15:01	AMH	TAL BUF
Total/NA	Prep	7470A			533176	05/26/20 11:46	BMB	TAL BUF
Total/NA	Analysis	7470A		1	533460	05/26/20 14:56	BMB	TAL BUF
Total/NA	Analysis	300.0		5	533550	05/28/20 00:59	IMZ	TAL BUF
Total/NA	Analysis	410.4		1	532874	05/20/20 18:44	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	532752	05/20/20 16:08	E1T	TAL BUF
Total/NA	Analysis	SM 3500 CR B		1	532714	05/20/20 09:39	BEF	TAL BUF
Total/NA	Analysis	SM 5310C		1	534044	05/29/20 00:22	CLA	TAL BUF

Client Sample ID: MW-3R

Date Collected: 05/19/20 11:50 Date Received: 05/19/20 14:10 Lab Sample ID: 480-170160-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532681	05/21/20 04:34	CRL	TAL BUF
Total/NA	Prep	3005A			532832	05/21/20 10:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	533305	05/22/20 15:04	AMH	TAL BUF
Total/NA	Prep	7470A			533176	05/26/20 11:46	BMB	TAL BUF
Total/NA	Analysis	7470A		1	533460	05/26/20 14:57	BMB	TAL BUF
Total/NA	Analysis	300.0		5	533550	05/28/20 01:13	IMZ	TAL BUF
Total/NA	Analysis	410.4		1	532874	05/20/20 18:44	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	532755	05/20/20 16:30	E1T	TAL BUF
Total/NA	Analysis	SM 3500 CR B		1	532714	05/20/20 09:39	BEF	TAL BUF
Total/NA	Analysis	SM 5310C		1	534044	05/29/20 00:37	CLA	TAL BUF

Client Sample ID: MW-12 Date Collected: 05/19/20 12:50 Date Received: 05/19/20 14:10 Lab Sample ID: 480-170160-3

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532681	05/21/20 04:58	CRL	TAL BUF
Total/NA	Prep	3005A			532832	05/21/20 10:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	533305	05/22/20 15:08	AMH	TAL BUF
Total/NA	Prep	7470A			533176	05/26/20 11:46	BMB	TAL BUF
Total/NA	Analysis	7470A		1	533460	05/26/20 14:59	BMB	TAL BUF
Total/NA	Analysis	300.0		5	533550	05/28/20 01:28	IMZ	TAL BUF
Total/NA	Analysis	410.4		1	532874	05/20/20 18:44	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	532752	05/20/20 16:08	E1T	TAL BUF
Total/NA	Analysis	SM 3500 CR B		1	532714	05/20/20 09:39	BEF	TAL BUF
Total/NA	Analysis	SM 5310C		1	534044	05/29/20 00:53	CLA	TAL BUF

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Job ID: 480-170160-1

Client: LAN Associates Inc Project/Site: Witmer Road G/W

Client Sample ID: MW-14N

Lab Sample ID: 480-170160-4 Date Collected: 05/19/20 11:10 Matrix: Water

Date Received: 05/19/20 14:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532681	05/21/20 05:23	CRL	TAL BUF
Total/NA	Prep	3005A			532832	05/21/20 10:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	533305	05/22/20 15:12	AMH	TAL BUF
Total/NA	Prep	7470A			533176	05/26/20 11:46	BMB	TAL BUF
Total/NA	Analysis	7470A		1	533460	05/26/20 15:00	BMB	TAL BUF
Total/NA	Analysis	300.0		5	533550	05/28/20 01:43	IMZ	TAL BUF
Total/NA	Analysis	410.4		1	532874	05/20/20 18:44	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	532752	05/20/20 16:08	E1T	TAL BUF
Total/NA	Analysis	SM 3500 CR B		1	532714	05/20/20 09:39	BEF	TAL BUF
Total/NA	Analysis	SM 5310C		1	534044	05/29/20 01:08	CLA	TAL BUF

Client Sample ID: MW-5R

Lab Sample ID: 480-170160-5 Date Collected: 05/19/20 10:25 Matrix: Water

Date Received: 05/19/20 14:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532681	05/21/20 05:48	CRL	TAL BUF
Total/NA	Prep	3005A			532832	05/21/20 10:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	533305	05/22/20 15:15	AMH	TAL BUF
Total/NA	Prep	7470A			533176	05/26/20 11:46	BMB	TAL BUF
Total/NA	Analysis	7470A		1	533460	05/26/20 15:04	BMB	TAL BUF
Total/NA	Analysis	300.0		5	533550	05/28/20 01:57	IMZ	TAL BUF
Total/NA	Analysis	410.4		1	532874	05/20/20 18:44	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	532752	05/20/20 16:08	E1T	TAL BUF
Total/NA	Analysis	SM 3500 CR B		1	532714	05/20/20 09:39	BEF	TAL BUF
Total/NA	Analysis	SM 5310C		1	534044	05/29/20 01:23	CLA	TAL BUF

Client Sample ID: Leachate

Lab Sample ID: 480-170160-6 Date Collected: 05/19/20 12:10 **Matrix: Water**

Date Received: 05/19/20 14:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532681	05/21/20 06:13	CRL	TAL BUF
Total/NA	Prep	3005A			532832	05/21/20 10:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	533305	05/22/20 15:30	AMH	TAL BUF
Total/NA	Prep	7470A			533176	05/26/20 11:46	BMB	TAL BUF
Total/NA	Analysis	7470A		1	533460	05/26/20 15:05	BMB	TAL BUF
Total/NA	Analysis	300.0		5	533550	05/28/20 02:12	IMZ	TAL BUF
Total/NA	Analysis	410.4		1	532874	05/20/20 18:44	CSS	TAL BUI
Total/NA	Analysis	SM 2540C		1	532752	05/20/20 16:08	E1T	TAL BUI
Total/NA	Analysis	SM 3500 CR B		1	532714	05/20/20 09:39	BEF	TAL BUI
Total/NA	Analysis	SM 5310C		1	534044	05/29/20 01:39	CLA	TAL BUI

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Lab Chronicle

Client: LAN Associates Inc Job ID: 480-170160-1 Project/Site: Witmer Road G/W

Client Sample ID: SW-1

Lab Sample ID: 480-170160-7

Matrix: Water

Date Collected: 05/19/20 10:20

Date Received: 05/19/20 14:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532681	05/21/20 06:38	CRL	TAL BUF
Total/NA	Prep	3005A			532832	05/21/20 10:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	533305	05/22/20 15:34	AMH	TAL BUF
Total/NA	Prep	7470A			533176	05/26/20 11:46	BMB	TAL BUF
Total/NA	Analysis	7470A		1	533460	05/26/20 15:06	BMB	TAL BUF
Total/NA	Analysis	300.0		1	533550	05/28/20 03:25	IMZ	TAL BUF
Total/NA	Analysis	410.4		1	532874	05/20/20 18:44	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	532752	05/20/20 16:08	E1T	TAL BUF
Total/NA	Analysis	SM 3500 CR B		1	532714	05/20/20 09:39	BEF	TAL BUF
Total/NA	Analysis	SM 5310C		1	534044	05/29/20 01:54	CLA	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-170160-8

Matrix: Water

Date Collected: 05/19/20 00:00

Date Received: 05/19/20 14:10

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260C		1	532681	05/21/20 07:02	CRL	TAL BUF	

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LAN Associates Inc Job ID: 480-170160-1

Project/Site: Witmer Road G/W

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NEL AP	10026	04-02-21

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Method Summary

Client: LAN Associates Inc Project/Site: Witmer Road G/W Job ID: 480-170160-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 3500 CR B	Chromium, Hexavalent	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Eurofins TestAmerica, Buffalo

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Sample Summary

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-170160-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-170160-1	BR-1	Water	05/19/20 09:40	05/19/20 14:10	
480-170160-2	MW-3R	Water	05/19/20 11:50	05/19/20 14:10	
480-170160-3	MW-12	Water	05/19/20 12:50	05/19/20 14:10	
480-170160-4	MW-14N	Water	05/19/20 11:10	05/19/20 14:10	
480-170160-5	MW-5R	Water	05/19/20 10:25	05/19/20 14:10	
480-170160-6	Leachate	Water	05/19/20 12:10	05/19/20 14:10	
480-170160-7	SW-1	Water	05/19/20 10:20	05/19/20 14:10	
480-170160-8	Trip Blank	Water	05/19/20 00:00	05/19/20 14:10	

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Eurofins TestAmerica, Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298 Phone 716-691-2600 Fax: 716-691-7991 **Chain of Custody Record**

🔆 eurofins

Epstronnent Testing. America

Client Information	Sampler:	/TAS		Lab PM Stone		L						Carri	ier Tracking No	o(s)		COC No. 480-146110-16534, 1
Client Contact Sary Joiner	Phone 7/1	-473	-8/83	E-Mail judy.s	tone@	desta	meri	cainc.	com							Page Page 1 of 1
Company CC Metals and Alloys LLC									Ana	lysis	Re	que	sted			Job#
Address PO BOX 217	Due Date Reques	ed: 57/)			П			1		1					Preservation Codes.
City Calvert City	TAT Requested (c							1								A - HCL M - Hexane B - NaOH N - None C - 70 Andrew O AsNaO2
State, Zp. KY, 42029		STI)								1.			1000		
Phone: 904-343-3087(Tel) 904-824-0726(Fax)	PO# Purchase Orde	er not require	d							4	Turbundan (MOD) and Temp Turb					
Email	WO#	a not require	u		N NO		pu			ood Solids	Tem					
gjoiner@ccmetals.com Project Name	Project #	-			(Yes or		Demand		1	1 5	200		111	480-1	17016	60 Chain of Custody
Witmer Road G/W/ Event Desc: Witmer Road G/W Site:	48003429 SSOW#		-		Mple (804	Охудел			OLMO4.2	100		111	1.1	500	Other:
New York				Marioto	S/MSD	Br, Ci,	8	4		ĕ 5	1	5	1 1 1		er of	
			Sample Type	Matrix (W-water, 3-solid,	Filtor	- Q82		7470A	9	Cale	- Illiano	CR B - Cr (V)	111		Numb	Other: Special Instructions/Note:
Sample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O-westmicel, O-westmicel, OT-THEOR, A-Arr)	Fleid Perfo	300.0	410.4	6010C,	SM531	8260C	Shide	3500			Total	Special Instructions/Note:
		><	Preserval		\times	N		D A	A		_	_			X	
BR-1	5-19-20	0940	6	Water		1	1	1	2	3 1	-	- 1			10	
MW-3R		1150		Water								Ш			1	
MW-12		1250		Water			1									
MW-14N		1110		Water												
MW-5R		1025		Water								\prod				
Leachate	1	12/0	4	Water		V	V	V	V	VV	1	110			1	
SW-1	5-19-20	1020	G	Water			1	1	2	3	-	- 1			10	8
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	Dance R	teneum 🗆	Ondinloging	,	S			posal To C					essed if sai posal By Lai			ned longer than 1 month) thive For Months
Deliverable Requested I, II, III, IV, Other (specify)	rason B Un	KNOWN	Radiologica		S	pecial		_		_					Arc	months Months
Empty Kit Relinquished by:		Date:			Time	1:		Λ					Method of	Shipment		
Relinquished by	Date/Time 5-19-	20/14	110	BHZ_		Rece	eived l	y]	las	N	rat a	11	14010	Date/Time	51	1912 of 11110 Company
Relinquished by	Date/Time	4		Сотрапу		Rece	eived I	by:	WW	LVI	VV		10/010	Date/Time	21	Company
Relinquished by:	Date/Time			Company		Rece	eived !	by:	-		-			Date/Time:		Company
Custody Seals Intact: Custody Seal No.			-		_	Cool	er Tei	mperati	ire(s)	°C and	Othe	Rema	irks 7	1 0		14 14/5
Δ Yes Δ No													5	118 2	11-	7 # IXE

Login Sample Receipt Checklist

Client: LAN Associates Inc Job Number: 480-170160-1

Login Number: 170160 List Source: Eurofins TestAmerica, Buffalo

List Number: 1 Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	b+I
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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2021 Laboratory Analytical Report



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-183120-1 Client Project/Site: Witmer Road G/W

For:

LAN Associates Inc 200 Malaga Street Suite 3 St. Augustine, Florida 32084

Attn: Mr. Chris L. Callegari

Judy Stone

Authorized for release by: 4/21/2021 5:58:40 PM

Judy Stone, Senior Project Manager (484)685-0868

Judy.Stone@Eurofinset.com

LINKS

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Total Access

Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Laboratory Job ID: 480-183120-1

Client: LAN Associates Inc Project/Site: Witmer Road G/W

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Definitions/Glossary

Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Qualifiers

GC/MS VOA

 Qualifier
 Qualifier Description

 * LCS and/or LCSD is outside acceptance limits, low biased.

 *+
 LCS and/or LCSD is outside acceptance limits, high biased.

General Chemistry

F1 MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins TestAmerica, Buffalo

4/21/2021

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Case Narrative

Client: LAN Associates Inc Project/Site: Witmer Road G/W Job ID: 480-183120-1

Job ID: 480-183120-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-183120-1

Receipt

The samples were received on 4/9/2021 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: SW-1 (480-183120-7). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 480-575887 recovered outside control limits for the following analyte: lodomethane. Iodomethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-analysis was not performed. The associated samples are affected: BR-1 (480-183120-1), MW-3R (480-183120-2), MW-12 (480-183120-3), MW-14N (480-183120-4), MW-5R (480-183120-5), Leachate (480-183120-6), SW-1 (480-183120-7) and Trip Blank (480-183120-8).

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-575887 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the co-elution with Ethyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples were affected: BR-1 (480-183120-1), MW-3R (480-183120-2), MW-12 (480-183120-3), MW-14N (480-183120-4), MW-5R (480-183120-5), Leachate (480-183120-6), SW-1 (480-183120-7) and Trip Blank (480-183120-8).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-575887 recovered above the upper control limit for Acetonitrile. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: BR-1 (480-183120-1), MW-3R (480-183120-2), MW-12 (480-183120-3), MW-14N (480-183120-4), MW-5R (480-183120-5), Leachate (480-183120-6), SW-1 (480-183120-7) and Trip Blank (480-183120-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: BR-1 (480-183120-1), MW-3R (480-183120-2), MW-12 (480-183120-3), MW-14N (480-183120-4), MW-5R (480-183120-5) and Leachate (480-183120-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Client: LAN Associates Inc Project/Site: Witmer Road G/W

Lab Sample ID: 480-183120-1

Client Sample ID: BR

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	3.3		1.0		ug/L	1		8260C	Total/NA
Barium	0.12		0.0020		mg/L	1		6010C	Total/NA
Boron	0.12		0.020		mg/L	1		6010C	Total/NA
Manganese	0.28		0.0030		mg/L	1		6010C	Total/NA
Potassium	6.1		0.50		mg/L	1		6010C	Total/NA
Sodium	77.2		1.0		mg/L	1		6010C	Total/NA
Chloride	130		2.5		mg/L	5		300.0	Total/NA
Sulfate	95.4		10.0		mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	24.7		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	405		10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	3.2		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-3R

Lab Sample ID: 480-183120-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.029		0.0020		mg/L	1		6010C	Total/NA
Boron	0.14		0.020		mg/L	1		6010C	Total/NA
Chromium	0.24		0.0040		mg/L	1		6010C	Total/NA
Potassium	1.1		0.50		mg/L	1		6010C	Total/NA
Sodium	40.6		1.0		mg/L	1		6010C	Total/NA
Chloride	126		2.5		mg/L	5		300.0	Total/NA
Sulfate	318		10.0		mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	19.7		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	606		10.0		mg/L	1		SM 2540C	Total/NA
Cr (VI)	0.22		0.010		mg/L	1		SM 3500 CR B	Total/NA
Total Organic Carbon	3.4		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 480-183120-3

Analyte	Result Qua	lifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.1	1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	25	1.0		ug/L	1		8260C	Total/NA
Barium	0.051	0.0020		mg/L	1		6010C	Total/NA
Boron	0.17	0.020		mg/L	1		6010C	Total/NA
Manganese	0.24	0.0030		mg/L	1		6010C	Total/NA
Potassium	4.6	0.50		mg/L	1		6010C	Total/NA
Sodium	83.8	1.0		mg/L	1		6010C	Total/NA
Chloride	144	2.5		mg/L	5		300.0	Total/NA
Sulfate	128	10.0		mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	14.1	10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	785	10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	3.2	1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-14N

Lab Sample ID: 480-183120-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	16		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	2.3		1.0		ug/L	1		8260C	Total/NA
Barium	0.12		0.0020		mg/L	1		6010C	Total/NA
Boron	0.11		0.020		mg/L	1		6010C	Total/NA
Manganese	0.15		0.0030		mg/L	1		6010C	Total/NA
Potassium	2.7		0.50		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

4/21/2021

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Job ID: 480-183120-1

Detection Summary

Client: LAN Associates Inc Project/Site: Witmer Road G/W

Client Sample ID: MW-14N (Continued)

Lab Sample ID: 480-183120-4

Job ID: 480-183120-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
Sodium	85.6	1.0	mg/L	1	6010C	Total/NA
Chloride	135	2.5	mg/L	5	300.0	Total/NA
Sulfate	230	10.0	mg/L	5	300.0	Total/NA
Chemical Oxygen Demand	25.2	10.0	mg/L	1	410.4	Total/NA
Total Dissolved Solids	1020	10.0	mg/L	1	SM 2540C	Total/NA
Total Organic Carbon	3.4	1.0	mg/L	1	SM 5310C	Total/NA

Client Sample ID: MW-5R

Lab Sample ID: 480-183120-5

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.094	0.0020		mg/L	1		6010C	Total/NA
Boron	0.19	0.020		mg/L	1		6010C	Total/NA
Manganese	0.30	0.0030		mg/L	1		6010C	Total/NA
Potassium	22.6	0.50		mg/L	1		6010C	Total/NA
Sodium	78.1	1.0		mg/L	1		6010C	Total/NA
Chloride	94.6	2.5		mg/L	5		300.0	Total/NA
Sulfate	166	10.0		mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	33.4	10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	633	10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	5.9	1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: Leachate

Lab Sample ID: 480-183120-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.092	(0.0020		mg/L	1		6010C	Total/NA
Boron	0.41		0.020		mg/L	1		6010C	Total/NA
Chromium	0.18	(0.0040		mg/L	1		6010C	Total/NA
Lead	0.012		0.010		mg/L	1		6010C	Total/NA
Manganese	0.44	(0.0030		mg/L	1		6010C	Total/NA
Potassium	120		0.50		mg/L	1		6010C	Total/NA
Sodium	96.6		1.0		mg/L	1		6010C	Total/NA
Selenium	0.026		0.025		mg/L	1		6010C	Total/NA
Bromide	2.8		1.0		mg/L	5		300.0	Total/NA
Chloride	174		2.5		mg/L	5		300.0	Total/NA
Sulfate	232		10.0		mg/L	5		300.0	Total/NA
Total Dissolved Solids	1050		10.0		mg/L	1		SM 2540C	Total/NA
Cr (VI)	0.059		0.010		mg/L	1		SM 3500 CR B	Total/NA
Total Organic Carbon	11.4		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: SW-1

Lab Sample ID: 480-183120-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.079		0.0020		mg/L	1		6010C	Total/NA
Boron	0.12		0.020		mg/L	1		6010C	Total/NA
Chromium	0.021		0.0040		mg/L	1		6010C	Total/NA
Manganese	1.0		0.0030		mg/L	1		6010C	Total/NA
Potassium	10.5		0.50		mg/L	1		6010C	Total/NA
Sodium	43.1		1.0		mg/L	1		6010C	Total/NA
Chloride	26.3		0.50		mg/L	1		300.0	Total/NA
Sulfate	51.6		2.0		mg/L	1		300.0	Total/NA
Chemical Oxygen Demand	82.7		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	567		10.0		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

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Detection Summary

Client: LAN Associates Inc Project/Site: Witmer Road G/W Job ID: 480-183120-1

Client Sample ID: SW-1 (Continued)

Lab Sample ID: 480-183120-7

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 Dil Fac
 D
 Method
 Prep Type

 Total Organic Carbon
 26.1
 1.0
 mg/L
 1
 SM 5310C
 Total/NA

Client Sample ID: Trip Blank Lab Sample ID: 480-183120-8

No Detections.

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Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Date Received: 04/09/21 17:00

Client Sample ID: BR-1
Date Collected: 04/09/21 12:06

Lab Sample ID: 480-183120-1

Matrix: Water

1.1.1.2 Frienkinorethane ND 1.0 ugL 04/11/21 12/2 1.1.2 Frienkinorethane ND 1.0 ugL 04/11/21 12/2 1.1.2 Frienkinorethane ND 1.0 ugL 04/11/21 12/2 1.1.2 Frienkinorethane ND 1.0 ugL 04/11/21 12/2 1.1.1.2 Frienkinorethane ND 1.0 ugL 04/11/21 12/2 1.1.1.2 Frienkinorethane ND 1.0 ugL 04/11/21 12/2 1.1.3 Frienkinorethane ND 1.0 ugL 04/11/21 12/2 1.3.3 Frienkinorethane ND 1.0 ugL 04/11/21 12/2 1.3.2 Frienkinorethane ND 1.0 ugL 04/11/21 12/2 1.3.2 Dichinorethane ND 1.0 ugL 04/1		d Dil Fa
1,1,2,2-Tetrachtoroethane ND 1,0 ugL 04/11/21 12: 1,1,2-Trichioroethane ND 1,0 ugL 04/11/21 12: 1,1,2-Trichioroethane ND 1,0 ugL 04/11/21 12: 1,1-Dichioroethane ND 1,0 ugL 04/11/21 12: 1,1-Dichioroethane ND 1,0 ugL 04/11/21 12: 1,1-Dichioroethane ND 1,0 ugL 04/11/21 12: 1,2-Trichioropropane ND 1,0 ugL 04/11/21 12: 1,2-Trichioropropane ND 1,0 ugL 04/11/21 12: 1,2-Trichioropropane ND 1,0 ugL 04/11/21 12: 1,2-Trichioroethane ND 1,0 ugL 04/11/21 12: 1,2-Dibromoethane ND 1,0 ugL 04/11/21 12: 1,2-Dichioroethane ND 1,0 ugL 04/11/21 12: 1,2-Dichioro	loroethane	2:55
1.1.2-Trichloro-1.2,2-triflucroethane ND 1.0 ug/L 04/11/21 12: 12: 11.12-Trichloroethane ND 1.0 ug/L 04/11/21 12: 11.12-Trichloroethane ND 1.0 ug/L 04/11/21 12: 11.10-bichloroethane ND 1.0 ug/L 04/11/21 12: 11.10-bichloroethane ND 1.0 ug/L 04/11/21 12: 12: 12.3-Trichloroethane ND 1.0 ug/L 04/11/21 12: 12: 12.3-Trichloroethane ND 1.0 ug/L 04/11/21 12: 12: 12.4-Trichlorobenzene ND 1.0 ug/L 04/11/21 12: 12: 12.1-Dichromo-3-Chloropropane ND 1.0 ug/L 04/11/21 12: 12: 12-Dichromo-3-Chloropropane ND 1.0 ug/L 04/11/21 12: 12-Dichrobenzene ND 1.0 ug/L 04/11/21 12: 12-Dichromethane ND 1.0 ug/L 04/11/21 12: 12-Dichrometha	ethane	2:55
1,1,2-Trichloroethane ND 1,0 ug/L 04/11/21 12: 1,1-Dichloroethane ND 1,0 ug/L 04/11/21 12: 1,1-Dichloroethane ND 1,0 ug/L 04/11/21 12: 1,2,3-Trichloropropane ND 1,0 ug/L 04/11/21 12: 1,2,3-Trichloropropane ND 1,0 ug/L 04/11/21 12: 1,2,4-Trichloroperopane ND 1,0 ug/L 04/11/21 12: 1,2-Dichloroeb-Chloropropane ND 1,0 ug/L 04/11/21 12: 1,2-Dichloroeb-Chloropropane ND 1,0 ug/L 04/11/21 12: 1,2-Dichloroethane ND 1,0 ug/L 04/11/21 12: 1,2-Dichloroethane ND 1,0 ug/L 04/11/21 12: 1,2-Dichloroethane ND 1,0 ug/L 04/11/21 12: 1,2-Dichloropropane ND 1,0 ug/L 04/11/21	loroethane	2:55
1,1-Dichloroethane ND 1,0 ug/L 04/11/21 12:1 1,1-Dichloroethane ND 1,0 ug/L 04/11/21 12:1 1,2-Tirchloropropane ND 1,0 ug/L 04/11/21 12:1 1,2-Tirchloropropane ND 1,0 ug/L 04/11/21 12:1 1,2-Dichrome-Schloropropane ND 1,0 ug/L 04/11/21 12:1 1,2-Dichrome-Schloropropane ND 1,0 ug/L 04/11/21 12:1 1,2-Dichrome-Schloropropane ND 1,0 ug/L 04/11/21 12:1 1,2-Dichloroethane ND 1,0 ug/L 04/11/21 12:1 1,3-Dichloroethane ND 1,0 ug/L 04/1	1,2,2-trifluoroethane	2:55
1.1-Dichloroethene ND 1.0 ug/L 04/11/21 12:1 1.2.3-Trichloropropane ND 1.0 ug/L 04/11/21 12:1 1.2.3-Trichloropropane ND 1.0 ug/L 04/11/21 12:1 1.2Dibromos-Chloropropane ND 1.0 ug/L 04/11/21 12:1 1.2Dichlorobetrane ND 1.0 ug/L 04/11/21 12:1 1.3Dichlorobetrane ND 1.0 ug/L 04/11/21 12:1 1.3Dichlorobetrane ND 1.0 ug/L 04/11/21 12:1 1.3Dichlorobetrane ND 1.0 ug/L 04/11/21 12:2 2.4-Beatheria ND 1.0 ug/L 04/11/21 12:2 2.4-Beatheria ND 1.0 ug/L 04/11/21 12:2 2.4-Beatheria ND 1.0	ethane	2:55
12,3-Trichloropropane ND 1,0 ug/L 04/11/21 12/21 1,2,4-Trichlorobenzene ND 1,0 ug/L 04/11/21 12/21 1,2-Dibromo-3-Chloropropane ND 1,0 ug/L 04/11/21 12/21 1,2-Dibriomoethane ND 1,0 ug/L 04/11/21 12/21 1,2-Dichlorobenzene ND 1,0 ug/L 04/11/21 12/21 1,2-Dichloropropane ND 1,0 ug/L 04/11/21 12/21 1,2-Dichlorobenzene ND 1,0 ug/L 04/11/21 12/21 1,3-Dichlorobenzene ND 1,0 ug/L 04/11/21 12/21 2,4-Dichlorobenzene ND 1,0 ug/L 04/11/21 12/21 2-Butanore ND 1,0 ug/L 04/11/21 12/21 2-Butanore ND 1,0 ug/L 04/11/21 12/21 4-Metryl-2-pentanore (MIBK) ND 1,0 ug/L 04/11/21 12/21 Acetone ND 1,0 ug/L 04/11/21 12/21 Bernzene ND 1,0 ug/	ane	2:55
1.2.4-Trichlorobenzene ND 1.0 ug/L 04/11/21 12:1 1.2-Dibromo-3-Chloropropane ND 1.0 ug/L 04/11/21 12:1 1.2-Dibromo-3-Chloropropane ND 1.0 ug/L 04/11/21 12:1 1.2-Dichlorobenzene ND 1.0 ug/L 04/11/21 12:1 1.2-Dichlorobenzene ND 1.0 ug/L 04/11/21 12:1 1.2-Dichlorobenzene ND 1.0 ug/L 04/11/21 12:1 1.3-Dichloropenzene ND 1.0 ug/L 04/11/21 12:1 1.3-Dichlorobenzene ND 1.0 ug/L 04/11/21 12:1 1.3	ene	2:55
1.2-Dibromo-3-Chloropropane ND 1.0 ug/L 04/11/21 12:1 1.2-Dibromoethane ND 1.0 ug/L 04/11/21 12:1 1.2-Dichloroberzene ND 1.0 ug/L 04/11/21 12:1 1.2-Dichloroberzene ND 1.0 ug/L 04/11/21 12:1 1.2-Dichloroberzene ND 1.0 ug/L 04/11/21 12:1 1.4-Dichloroberzene ND 1.0 ug/L 04/11/21 12:1 2-Butanone (MEK) ND ** 1.0 ug/L 04/11/21 12:2 2-Hesvanone ND ** 1.0 ug/L 04/11/21 12:2 4-Hestyl-2-pentanone (MIBK) ND ** 1.0 ug/L 04/11/21 12:2 4-Hestyl-2-pentanone (MIBK) ND 1.0 ug/L 04/11/21 12:2 Acetone ND 1.0 ug/L 04/11/21 12:2 Acetonitrile ND 1.0 ug/L 04/11/21 12:2 Benzene ND 1.0 ug/L 04/11/21 12:2 Benzene ND 1.0 ug/L 04/11/21 12:2 Bromofolm ND	propane	2:55
1.2-Dibromoethane ND 1.0 ug/L 04/11/21 12:1 1.2-Dichlorobenzene ND 1.0 ug/L 04/11/21 12:1 1.2-Dichlorobenzene ND 1.0 ug/L 04/11/21 12:1 1.2-Dichloropropane ND 1.0 ug/L 04/11/21 12:1 1.3-Dichlorobenzene ND 1.0 ug/L 04/11/21 12:2 2-Butanone (MEK) ND *** 10 ug/L 04/11/21 12:2 2-Hexanone ND 5.0 ug/L 04/11/21 12:2 2-Hostanone (MIBK) ND 5.0 ug/L 04/11/21 12:2 Acetonitile ND 15 ug/L 04/11/21 12:2 Acetonitile ND 15 ug/L 04/11/21 12:2 Benzene ND 1.0 ug/L 04/11/21 12:2 Bromochloromethane ND 1.0 ug/L 04/11/21 12:2 Bromochloromethane ND 1.0 ug/L 04/11/21 12:2 Bromomethane ND 1.0 ug/L 04/11/21 12:2 Carbon tetrachloride ND 1.0 ug/L <t< td=""><td>penzene</td><td>2:55</td></t<>	penzene	2:55
1.2-Dichlorobernane ND 1.0 ug/L 04/11/21 12:4 1.2-Dichloroberhane ND 1.0 ug/L 04/11/21 12:4 1.3-Dichloroberpane ND 1.0 ug/L 04/11/21 12:4 1.3-Dichlorobenzene ND 1.0 ug/L 04/11/21 12:4 1.4-Dichlorobenzene ND 1.0 ug/L 04/11/21 12:4 2-Butanone (MEK) ND 1.0 ug/L 04/11/21 12:4 2-Hexanone ND 5.0 ug/L 04/11/21 12:4 4-Methyl-2-pentanone (MIBK) ND 1.0 ug/L 04/11/21 12:4 Acetone ND 1.0 ug/L 04/11/21 12:4 Benzene ND 1.0 ug/L 04/11/21 12:4 Berzene ND 1.0 ug/L 04/11/21 12:4 Bromodichromethane ND 1.0 ug/L 04/11/2	Chloropropane	2:55
1,2-Dichloroethane ND 1.0 ug/L 04/11/21 12: 1,2-Dichloroppane ND 1.0 ug/L 04/11/21 12: 1,3-Dichloroppane ND 1.0 ug/L 04/11/21 12: 1,3-Dichlorobenzene ND 1.0 ug/L 04/11/21 12: 1,4-Dichlorobenzene ND 1.0 ug/L 04/11/21 12: 2-Butanone (MEK) ND 1.0 ug/L 04/11/21 12: 4-Methyl-2-pentanone (MIBK) ND 5.0 ug/L 04/11/21 12: 4-Methyl-2-pentanone (MIBK) ND 5.0 ug/L 04/11/21 12: 4-Methyl-2-pentanone (MIBK) ND 15 ug/L 04/11/21 12: 5-Benzene ND 10 ug/L 04/11/21 12: 5-Benzene ND 10 ug/L 04/11/21 12: 5-Benzene ND 1.0 ug/L 04/11/21 12: 5-Benzene ND 04/11/21 12: 5-Benzene ND 1.0 ug/L 04/11/21 12: 5-Benzene ND 04/11/21 12: 5-Benzene ND 04/11/21 12: 5-Benzene ND 1.0 ug/L 04/11/21 12: 5-Benzene ND 04/11/21 12: 5-Benzen	nane	2:55
1,2-Dichloropropane ND 1.0 ug/L 04/11/21 12:3 1,3-Dichlorobenzene ND 1.0 ug/L 04/11/21 12:3 1,3-Dichlorobenzene ND 1.0 ug/L 04/11/21 12:3 2-Butanone (MEK) ND *1 0 ug/L 04/11/21 12:3 2-Hexanone ND 5.0 ug/L 04/11/21 12:4 4-Methyl-2-pentanone (MIBK) ND 10 ug/L 04/11/21 12:4 Acetone ND 10 ug/L 04/11/21 12:4 Acetone ND 10 ug/L 04/11/21 12:4 Acetonitrile ND 1.5 ug/L 04/11/21 12:4 Benzene ND 1.0 ug/L 04/11/21 12:4 Beromodlichloromethane ND 1.0 ug/L 04/11/21 12:4 Bromodlichloromethane ND 1.0 ug/L 04/11/21 12:4 Bromomethane ND 1.0 ug/L 04/11/21 12:4 Carbon disulfide ND 1.0 ug/L 04/11/21 1	nzene	2:55
1,3-Dichlorobenzene ND 1.0 ug/L 04/11/21 12:3 1,4-Dichlorobenzene ND 1.0 ug/L 04/11/21 12:3 2-Butanone (MEK) ND *+ 1.0 ug/L 04/11/21 12:3 2-Hexanone ND 5.0 ug/L 04/11/21 12:3 4-Methyl-2-pentanone (MIBK) ND 5.0 ug/L 04/11/21 12:3 Acetone ND 10 ug/L 04/11/21 12:3 Acetonitrile ND 15 ug/L 04/11/21 12:3 Benzene ND 1.0 ug/L 04/11/21 12:3 Bromochloromethane ND 1.0 ug/L 04/11/21 12:3 Bromochloromethane ND 1.0 ug/L 04/11/21 12:3 Bromomethane ND 1.0 ug/L 04/11/21 12:3 Bromothane ND 1.0 ug/L 04/11/21 12:3 Carbon tetrachloride ND 1.0 ug/L 04/11/21 12:3 Carbon tetrachloride ND 1.0 ug/L 04/11/21 12:3 Chloroethane ND 1.0 ug/L 04/11	ane	2:55
1,4-Dichlorobenzene ND 1.0 ug/L 04/11/21 12:3 2-Butanone (MEK) ND ** 10 ug/L 04/11/21 12:3 2-Hexanone ND 5.0 ug/L 04/11/21 12:3 4-Methyl-2-pentanone (MIBK) ND 5.0 ug/L 04/11/21 12:3 Acetone ND 10 ug/L 04/11/21 12:3 Acetonirile ND 15 ug/L 04/11/21 12:3 Benzene ND 1.0 ug/L 04/11/21 12:3 Bromochloromethane ND 1.0 ug/L 04/11/21 12:3 Bromoform ND 1.0 ug/L 04/11/21 12:3 Carbon disulfide ND 1.0 ug/L 04/11/21 12:3 Carbon tetrachloride ND 1.0 ug/L 04/11/21 12:3 Carbon tetrachloride ND 1.0 ug/L 04/11/21 12:3 Chlorobenzene ND 1.0 ug/L 04/11/21 12:3 Chloroberbane ND 1.0 ug/L 04/11/21 12:3 <td>ppane</td> <td>2:55</td>	ppane	2:55
2-Butanone (MEK) ND *+ 10 ug/L 04/11/21 12: 2-Hexanone ND 5.0 ug/L 04/11/21 12: 4-Methyl-2-pentanone (MIBK) ND 5.0 ug/L 04/11/21 12: 4-Methyl-2-pentanone (MIBK) ND 5.0 ug/L 04/11/21 12: 4-Methyl-2-pentanone (MIBK) ND 10 ug/L 04/11/21 12: Acetonitrile ND 15 ug/L 04/11/21 12: Benzene ND 1.0 ug/L 04/11/21 12: Bromochloromethane ND 1.0 ug/L 04/11/21 12: Bromochloromethane ND 1.0 ug/L 04/11/21 12: Bromofloromethane ND 1.0 ug/L 04/11/21 12: Carbon disulfide ND 1.0 ug/L 04/11/21 12: Carbon disulfide ND 1.0 ug/L 04/11/21 12: Carbon disulfide ND 1.0 ug/L 04/11/21 12: Chlorobenzene ND 1.0 ug/L 04/11/21 12: Chlorobenzene ND 1.0 ug/L 04/11/21 12: Chlorotehane ND 1.0 ug/L 04/11/21 12: Chloromethane ND 1.0 ug/L 04/11/2	nzene	2:55
2-Butanone (MEK)	nzene	2:55
2-Hexanone ND 5.0 ug/L 04/11/21 12:3 4-Methyl-2-pentanone (MIBK) ND 5.0 ug/L 04/11/21 12:3 Acetone ND 10 ug/L 04/11/21 12:3 Acetonitrile ND 15 ug/L 04/11/21 12:3 Benzene ND 1.0 ug/L 04/11/21 12:3 Bromochloromethane ND 1.0 ug/L 04/11/21 12:3 Bromochloromethane ND 1.0 ug/L 04/11/21 12:3 Bromofichnorethane ND 1.0 ug/L 04/11/21 12:3 Bromofithane ND 1.0 ug/L 04/11/21 12:3 Carbon disulfide ND 1.0 ug/L 04/11/21 12:3 Carbon tetrachloride ND 1.0 ug/L 04/11/21 12:3 Carbon tetrachloride ND 1.0 ug/L 04/11/21 12:3 Chlorobenzene ND 1.0 ug/L 04/11/21 12:3 Chlorobenzene ND 1.0 ug/L 04/11/21 12:3 Chloroform ND 1.0 ug/L 04/11/21 12:3	EK)	2:55
Acetone ND 10 ug/L 04/11/21 12:1 Acetonitrile ND 15 ug/L 04/11/21 12:1 Benzene ND 1.0 ug/L 04/11/21 12:1 Benzene ND 1.0 ug/L 04/11/21 12:1 Bromochloromethane ND 1.0 ug/L 04/11/21 12:1 Bromochloromethane ND 1.0 ug/L 04/11/21 12:1 Bromomethane ND 1.0 ug/L 04/11/21 12:1 Bromomethane ND 1.0 ug/L 04/11/21 12:1 Carbon disulfide ND 1.0 ug/L 04/11/21 12:1 Chiorobenzene ND 1.0 ug/L 04/11/21 12:1 Chiorobenzene ND 1.0 ug/L 04/11/21 12:1 Chiorobe	·	2:55
Acetone ND 10 ug/L 04/11/21 12:3 Acetonitrile ND 15 ug/L 04/11/21 12:3 Benzene ND 1.0 ug/L 04/11/21 12:3 Bromochloromethane ND 1.0 ug/L 04/11/21 12:3 Bromochloromethane ND 1.0 ug/L 04/11/21 12:3 Bromofichioromethane ND 1.0 ug/L 04/11/21 12:3 Bromofichioromethane ND 1.0 ug/L 04/11/21 12:3 Bromofichioromethane ND 1.0 ug/L 04/11/21 12:3 Carbon disulfide ND 1.0 ug/L 04/11/21 12:3 Chlorobenzene ND 1.0 ug/L 04/11/21 12:3 Chlorobenzene ND 1.0 ug/L 04/11/21 12:3	tanone (MIBK)	2:55
Actonitrile ND 15 ug/L 04/11/21 12:1 Benzene ND 1.0 ug/L 04/11/21 12:1 Bromochloromethane ND 1.0 ug/L 04/11/21 12:1 Bromochloromethane ND 1.0 ug/L 04/11/21 12:1 Bromochloromethane ND 1.0 ug/L 04/11/21 12:1 Bromomethane ND 1.0 ug/L 04/11/21 12:1 Carbon disulfide ND 1.0 ug/L 04/11/21 12:1 Carbon tetrachloride ND 1.0 ug/L 04/11/21 12:1 Chlorobetane ND 1.0 ug/L 04/11/21 12:1 Chlorobethane ND 1.0 ug/L 04/11/21 12:1	,	2:55
Benzene ND 1.0 ug/L 04/11/21 12:5 Bromochloromethane ND 1.0 ug/L 04/11/21 12:5 Bromodichloromethane ND 1.0 ug/L 04/11/21 12:5 Bromofform ND 1.0 ug/L 04/11/21 12:5 Bromomethane ND 1.0 ug/L 04/11/21 12:5 Carbon disulfide ND 1.0 ug/L 04/11/21 12:5 Carbon tetrachloride ND 1.0 ug/L 04/11/21 12:5 Carbon tetrachloride ND 1.0 ug/L 04/11/21 12:5 Chlorobenzene ND 1.0 ug/L 04/11/21 12:5 Chlorobethane ND 1.0 ug/L 04/11/21 12:5 Chloromethane ND 1.0 ug/L 04/11/21 12:5 cis-1,3-Dichlorogropene ND 1.0 ug/L 04/11/21 12:5 cis-1,3-Dichloromethane ND 1.0 ug/L 04/11/21 12:5 Dibromochloromethane ND 1.0 ug/L 04/11/21 12		2:55
Bromochloromethane ND 1.0 ug/L 04/11/21 12:5 Bromodichloromethane ND 1.0 ug/L 04/11/21 12:5 Bromoform ND 1.0 ug/L 04/11/21 12:5 Bromomethane ND 1.0 ug/L 04/11/21 12:5 Carbon disulfide ND 1.0 ug/L 04/11/21 12:5 Carbon tetrachloride ND 1.0 ug/L 04/11/21 12:5 Chloroberzene ND 1.0 ug/L 04/11/21 12:5 Chloroethane ND 1.0 ug/L 04/11/21 12:5 Chloroethane ND 1.0 ug/L 04/11/21 12:5 Chloroethane ND 1.0 ug/L 04/11/21 12:5 Chloromethane ND 1.0 ug/L 04/11/21 12:5 Chloromethane ND 1.0 ug/L 04/11/21 12:5 Cis-1,2-Dichloroethene ND 1.0 ug/L 04/11/21 12:5 Cyclohexane ND 1.0 ug/L 04/11/21 12:5 <tr< td=""><td></td><td></td></tr<>		
Bromodichloromethane ND 1.0 ug/L 04/11/21 12:1 Bromoform ND 1.0 ug/L 04/11/21 12:1 Bromomethane ND 1.0 ug/L 04/11/21 12:1 Carbon disulfide ND 1.0 ug/L 04/11/21 12:1 Carbon tetrachloride ND 1.0 ug/L 04/11/21 12:1 Chlorobenzene ND 1.0 ug/L 04/11/21 12:1 Chloromethane ND 1.0 ug/L 04/11/21 12:1 Chloromethane ND 1.0 ug/L 04/11/21 12:1 Cis-1,2-Dichloropropene ND 1.0 ug/L 04/11/21 12:1 Cis-1,2-Dichloropropene ND 1.0 ug/L 04/11/21 12:1 </td <td>ethane</td> <td></td>	ethane	
Bromoform ND 1.0 ug/L 04/11/21 12:1 Bromomethane ND 1.0 ug/L 04/11/21 12:1 Carbon disulfide ND 1.0 ug/L 04/11/21 12:1 Carbon tetrachloride ND 1.0 ug/L 04/11/21 12:1 Chlorobenzene ND 1.0 ug/L 04/11/21 12:1 Chlorobethane ND 1.0 ug/L 04/11/21 12:1 Chlorobethane ND 1.0 ug/L 04/11/21 12:1 Chloromethane ND 1.0 ug/L 04/11/21 12:1 Cis-1,2-Dichloropthene ND 1.0 ug/L 04/11/21 12:1 cis-1,3-Dichloropropene ND 1.0 ug/L 04/11/21 12:1 Cyclohexane ND 1.0 ug/L 04/11/21 12:1 Cyclohexane ND 1.0 ug/L 04/11/21 12:1 Dibromochloromethane ND 1.0 ug/L 04/11/21 12:1 Dichlorodifluoromethane ND 1.0 ug/L 04/11/21 12:1		
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Carbon tetrachloride ND 1.0 ug/L 04/11/21 12:5 Chlorobenzene ND 1.0 ug/L 04/11/21 12:5 Chlorobenzene ND 1.0 ug/L 04/11/21 12:5 Chloroform ND 1.0 ug/L 04/11/21 12:5 Chloromethane ND 1.0 ug/L 04/11/21 12:5 Chloromethane ND 1.0 ug/L 04/11/21 12:5 Cis-1,2-Dichloroptopene ND 1.0 ug/L 04/11/21 12:5 Cyclohexane ND 1.0 ug/L 04/11/21 12:5 Obibromochloromethane ND 1.0 ug/L 04/11/21 12:5 Dibromomethane ND 1.0 ug/L 04/11/21 12:5 Dichlorodifluoromethane ND 1.0 ug/L 04/11/21 12:5 Ethylbenzene ND 1.0 ug/L 04/11/21 12:5 Isopropylbenzene ND 1.0 ug/L 04/11/21 12:5 Methyl acetate ND 2.5 ug/L 04/11/21 12:5		
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Styrene ND 1.0 ug/L 04/11/21 12:5		
Tetrachloroethene ND 1.0 ug/L 04/11/21 12:6 Toluene ND 1.0 ug/L 04/11/21 12:6	ene	

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Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Client Sample ID: BR-1 Lab Sample ID: 480-183120-1

Date Collected: 04/09/21 12:06 Matrix: Water
Date Received: 04/09/21 17:00

Method: 8260C - Volatile Organic	Compounds I	oy GC/MS (Continued)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/21 12:55	
trans-1,3-Dichloropropene	ND		1.0		ug/L			04/11/21 12:55	
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			04/11/21 12:55	
Trichloroethene	ND		1.0		ug/L			04/11/21 12:55	
Trichlorofluoromethane	ND		1.0		ug/L			04/11/21 12:55	
Vinyl acetate	ND		5.0		ug/L			04/11/21 12:55	
Vinyl chloride	3.3		1.0		ug/L			04/11/21 12:55	
Xylenes, Total	ND		2.0		ug/L			04/11/21 12:55	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	107		77 - 120					04/11/21 12:55	
4-Bromofluorobenzene (Surr)	106		73 - 120					04/11/21 12:55	
Toluene-d8 (Surr)	107		80 - 120					04/11/21 12:55	
Dibromofluoromethane (Surr)	102		75 - 123					04/11/21 12:55	
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Arsenic	ND		0.015		mg/L		04/13/21 15:48	04/15/21 04:14	
Barium	0.12		0.0020		mg/L		04/13/21 15:48	04/15/21 04:14	
Boron	0.12		0.020		mg/L		04/13/21 15:48	04/16/21 12:45	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		04/13/21 15:48	04/15/21 04:14	1
Barium	0.12		0.0020		mg/L		04/13/21 15:48	04/15/21 04:14	1
Boron	0.12		0.020		mg/L		04/13/21 15:48	04/16/21 12:45	1
Chromium	ND		0.0040		mg/L		04/13/21 15:48	04/15/21 04:14	1
Lead	ND		0.010		mg/L		04/13/21 15:48	04/15/21 04:14	1
Manganese	0.28		0.0030		mg/L		04/13/21 15:48	04/15/21 04:14	1
Potassium	6.1		0.50		mg/L		04/13/21 15:48	04/16/21 12:45	1
Sodium	77.2		1.0		mg/L		04/13/21 15:48	04/16/21 12:45	1
Selenium	ND		0.025		mg/L		04/13/21 15:48	04/15/21 04:14	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		04/13/21 13:26	04/13/21 18:00	1

General Chemistry						
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Bromide	ND	1.0	mg/L		04/16/21 20:22	5
Chloride	130	2.5	mg/L		04/16/21 20:22	5
Sulfate	95.4	10.0	mg/L		04/16/21 20:22	5
Chemical Oxygen Demand	24.7	10.0	mg/L		04/14/21 18:12	1
Total Dissolved Solids	405	10.0	mg/L		04/14/21 10:45	1
Cr (VI)	ND	0.010	mg/L		04/10/21 10:40	1
Total Organic Carbon	3.2	1.0	mg/L		04/14/21 07:44	1

Client Sample ID: MW-3R

Date Collected: 04/09/21 10:58

Lab Sample ID: 480-183120-2

Matrix: Water

Date Received: 04/09/21 17:00

Method: 8260C - Volatile Organic (Compounds by GC	C/MS						
Analyte	Result Qualit	fier RL	MDL U	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ı	ug/L			04/11/21 13:18	1
1,1,1-Trichloroethane	ND	1.0	ι	ug/L			04/11/21 13:18	1
1,1,2,2-Tetrachloroethane	ND	1.0	ι	ug/L			04/11/21 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ι	ug/L			04/11/21 13:18	1

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Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Isopropylbenzene

Methylcyclohexane

Methylene Chloride

Tetrachloroethene

Trichloroethene

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

trans-1,4-Dichloro-2-butene

m,p-Xylene

o-Xylene

Styrene

Toluene

Methyl acetate

Client Sample ID: MW-3R Lab Sample ID: 480-183120-2 Date Collected: 04/09/21 10:58

Matrix: Water

Method: 8260C - Volatile Organic						
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fa
1,1,2-Trichloroethane	ND	1.0	ug/L		04/11/21 13:18	
1,1-Dichloroethane	ND	1.0	ug/L		04/11/21 13:18	
1,1-Dichloroethene	ND	1.0	ug/L		04/11/21 13:18	
1,2,3-Trichloropropane	ND	1.0	ug/L		04/11/21 13:18	
1,2,4-Trichlorobenzene	ND	1.0	ug/L		04/11/21 13:18	
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		04/11/21 13:18	
1,2-Dibromoethane	ND	1.0	ug/L		04/11/21 13:18	
1,2-Dichlorobenzene	ND	1.0	ug/L		04/11/21 13:18	
1,2-Dichloroethane	ND	1.0	ug/L		04/11/21 13:18	
1,2-Dichloropropane	ND	1.0	ug/L		04/11/21 13:18	
1,3-Dichlorobenzene	ND	1.0	ug/L		04/11/21 13:18	
1,4-Dichlorobenzene	ND	1.0	ug/L		04/11/21 13:18	
2-Butanone (MEK)	ND *+	10	ug/L		04/11/21 13:18	
2-Hexanone	ND	5.0	ug/L		04/11/21 13:18	
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		04/11/21 13:18	
Acetone	ND	10	ug/L		04/11/21 13:18	
Acetonitrile	ND	15	ug/L		04/11/21 13:18	
Benzene	ND	1.0	ug/L		04/11/21 13:18	
Bromochloromethane	ND	1.0	ug/L		04/11/21 13:18	
Bromodichloromethane	ND	1.0	ug/L		04/11/21 13:18	
Bromoform	ND	1.0	ug/L		04/11/21 13:18	
Bromomethane	ND	1.0	ug/L		04/11/21 13:18	
Carbon disulfide	ND	1.0	ug/L		04/11/21 13:18	
Carbon tetrachloride	ND	1.0	ug/L		04/11/21 13:18	
Chlorobenzene	ND	1.0	ug/L		04/11/21 13:18	
Chloroethane	ND	1.0	ug/L		04/11/21 13:18	
Chloroform	ND	1.0	ug/L		04/11/21 13:18	
Chloromethane	ND	1.0	ug/L		04/11/21 13:18	
cis-1,2-Dichloroethene	ND	1.0	ug/L		04/11/21 13:18	
cis-1,3-Dichloropropene	ND	1.0	ug/L		04/11/21 13:18	
Cyclohexane	ND	1.0	ug/L		04/11/21 13:18	
Dibromochloromethane	ND	1.0	ug/L		04/11/21 13:18	
Dibromomethane	ND	1.0	ug/L		04/11/21 13:18	
Dichlorodifluoromethane	ND	1.0	ug/L		04/11/21 13:18	
Ethylbenzene	ND	1.0	ug/L		04/11/21 13:18	
lodomethane	ND *-	1.0	ug/L		04/11/21 13:18	

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04/11/21 13:18

04/11/21 13:18

04/11/21 13:18

04/11/21 13:18

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04/11/21 13:18

04/11/21 13:18

04/11/21 13:18

04/11/21 13:18 04/11/21 13:18

1.0

2.0

2.5

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

ug/L

ND

Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Lab Sample ID: 480-183120-2 **Client Sample ID: MW-3R**

Date Collected: 04/09/21 10:58 Matrix: Water Date Received: 04/09/21 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0		ug/L			04/11/21 13:18	1
Vinyl acetate	ND		5.0		ug/L			04/11/21 13:18	1
Vinyl chloride	ND		1.0		ug/L			04/11/21 13:18	1
Xylenes, Total	ND		2.0		ug/L			04/11/21 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120					04/11/21 13:18	1
4-Bromofluorobenzene (Surr)	105		73 - 120					04/11/21 13:18	1
Toluene-d8 (Surr)	108		80 - 120					04/11/21 13:18	1
Dibromofluoromethane (Surr)	103		75 - 123					04/11/21 13:18	1
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		04/13/21 15:48	04/15/21 04:29	1
Barium	0.029		0.0020		mg/L		04/13/21 15:48	04/15/21 04:29	1
Boron	0.14		0.020		mg/L		04/13/21 15:48	04/15/21 04:29	1
Chromium	0.24		0.0040		mg/L		04/13/21 15:48	04/15/21 04:29	1
Lead	ND		0.010		mg/L		04/13/21 15:48	04/15/21 04:29	1
Manganese	ND		0.0030		mg/L		04/13/21 15:48	04/15/21 04:29	1
Potassium	1.1		0.50		mg/L		04/13/21 15:48	04/15/21 04:29	1
Sodium	40.6		1.0		mg/L		04/13/21 15:48	04/15/21 04:29	1
Selenium	ND		0.025		mg/L		04/13/21 15:48	04/15/21 04:29	1
Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		04/13/21 13:26	04/13/21 18:01	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0		mg/L			04/16/21 20:36	5
Chloride	126		2.5		mg/L			04/16/21 20:36	5
Sulfate	318		10.0		mg/L			04/16/21 20:36	5
Chemical Oxygen Demand	19.7		10.0		mg/L			04/14/21 18:12	1
Total Dissolved Solids	606		10.0		mg/L			04/14/21 10:45	1
Cr (VI)	0.22		0.010		mg/L			04/10/21 10:40	1

Client Sample ID: MW-12 Lab Sample ID: 480-183120-3 Date Collected: 04/09/21 16:02

1.0

mg/L

3.4

Date Received: 04/09/21 17:00

Total Organic Carbon

Analyte	Result	Qualifier	RL MDL	. Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/11/21 13:39	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/11/21 13:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			04/11/21 13:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	ug/L			04/11/21 13:39	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/11/21 13:39	1
1,1-Dichloroethane	ND		1.0	ug/L			04/11/21 13:39	1
1,1-Dichloroethene	ND		1.0	ug/L			04/11/21 13:39	1
1,2,3-Trichloropropane	ND		1.0	ug/L			04/11/21 13:39	1

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04/14/21 09:02

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Matrix: Water

Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-12 Date Collected: 04/09/21 16:02

Date Received: 04/09/21 17:00

Lab Sample ID: 480-183120-3

Matrix: Water

Method: 8260C - Volatile	Organic Compounds by GC/MS (Continued)	
Amalusa	Decute Overlifier DI	

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	1.0	ug/L		04/11/21 13:39	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		04/11/21 13:39	1
1,2-Dibromoethane	ND	1.0	ug/L		04/11/21 13:39	1
1,2-Dichlorobenzene	ND	1.0	ug/L		04/11/21 13:39	1
1,2-Dichloroethane	ND	1.0	ug/L		04/11/21 13:39	1
1,2-Dichloropropane	ND	1.0	ug/L		04/11/21 13:39	1
1,3-Dichlorobenzene	ND	1.0	ug/L		04/11/21 13:39	1
1,4-Dichlorobenzene	ND	1.0	ug/L		04/11/21 13:39	1
2-Butanone (MEK)	ND *+	10	ug/L		04/11/21 13:39	1
2-Hexanone	ND	5.0	ug/L		04/11/21 13:39	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		04/11/21 13:39	1
Acetone	ND	10	ug/L		04/11/21 13:39	1
Acetonitrile	ND	15	ug/L		04/11/21 13:39	1
Benzene	ND	1.0	ug/L		04/11/21 13:39	1
Bromochloromethane	ND	1.0	ug/L		04/11/21 13:39	1
Bromodichloromethane	ND	1.0	ug/L		04/11/21 13:39	1
Bromoform	ND	1.0	ug/L		04/11/21 13:39	1
Bromomethane	ND	1.0	ug/L		04/11/21 13:39	1
Carbon disulfide	ND	1.0	ug/L		04/11/21 13:39	1
Carbon tetrachloride	ND	1.0	ug/L		04/11/21 13:39	1
Chlorobenzene	ND	1.0	ug/L		04/11/21 13:39	1
Chloroethane	ND	1.0	ug/L		04/11/21 13:39	1
Chloroform	ND	1.0	ug/L		04/11/21 13:39	1
Chloromethane	ND	1.0	ug/L		04/11/21 13:39	1
cis-1,2-Dichloroethene	5.1	1.0	ug/L		04/11/21 13:39	1
cis-1,3-Dichloropropene	ND	1.0	ug/L		04/11/21 13:39	1
Cyclohexane	ND	1.0	ug/L		04/11/21 13:39	1
Dibromochloromethane	ND	1.0	ug/L		04/11/21 13:39	1
Dibromomethane	ND	1.0	ug/L		04/11/21 13:39	1
Dichlorodifluoromethane	ND	1.0	ug/L		04/11/21 13:39	1
Ethylbenzene	ND	1.0	ug/L		04/11/21 13:39	1
Iodomethane	ND *-	1.0	ug/L		04/11/21 13:39	1
Isopropylbenzene	ND	1.0	ug/L		04/11/21 13:39	1
m,p-Xylene	ND	2.0	ug/L		04/11/21 13:39	1
Methyl acetate	ND	2.5	ug/L		04/11/21 13:39	1
Methylcyclohexane	ND	1.0	ug/L		04/11/21 13:39	1
Methylene Chloride	ND	1.0	ug/L		04/11/21 13:39	1
o-Xylene	ND	1.0	ug/L		04/11/21 13:39	1
Styrene	ND	1.0	ug/L		04/11/21 13:39	1
Tetrachloroethene	ND	1.0	ug/L		04/11/21 13:39	1
Toluene	ND	1.0	ug/L		04/11/21 13:39	1
trans-1,2-Dichloroethene	ND	1.0	ug/L		04/11/21 13:39	1
trans-1,3-Dichloropropene	ND	1.0	ug/L		04/11/21 13:39	1
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L		04/11/21 13:39	1
Trichloroethene	ND	1.0	ug/L		04/11/21 13:39	1
Trichlorofluoromethane	ND	1.0	ug/L		04/11/21 13:39	1
Vinyl acetate	ND	5.0	ug/L		04/11/21 13:39	1
Vinyl chloride	25	1.0	ug/L		04/11/21 13:39	1
Xylenes, Total	ND	2.0	ug/L		04/11/21 13:39	1

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II.

Client: LAN Associates Inc Job ID: 480-183120-1 Project/Site: Witmer Road G/W

Lab Sample ID: 480-183120-3 **Client Sample ID: MW-12**

Date Collected: 04/09/21 16:02 Matrix: Water Date Received: 04/09/21 17:00

Surrogate	%Recovery Qualifie	Limits	Prepared Ana	alyzed Dil Fa	С
1,2-Dichloroethane-d4 (Surr)	107	77 - 120	04/11/	21 13:39	1
4-Bromofluorobenzene (Surr)	100	73 - 120	04/11/	21 13:39	1
Toluene-d8 (Surr)	104	80 - 120	04/11/	21 13:39	1
Dibromofluoromethane (Surr)	101	75 ₋ 123	04/11/	21 13:39	1

Method: 6010C - Metals (ICP) Analyte	Result Q	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	0.015		mg/L		04/13/21 15:48	04/15/21 04:32	1
Barium	0.051	0.0020		mg/L		04/13/21 15:48	04/15/21 04:32	1
Boron	0.17	0.020		mg/L		04/13/21 15:48	04/15/21 04:32	1
Chromium	ND	0.0040		mg/L		04/13/21 15:48	04/15/21 04:32	1
Lead	ND	0.010		mg/L		04/13/21 15:48	04/15/21 04:32	1
Manganese	0.24	0.0030		mg/L		04/13/21 15:48	04/15/21 04:32	1
Potassium	4.6	0.50		mg/L		04/13/21 15:48	04/15/21 04:32	1
Sodium	83.8	1.0		mg/L		04/13/21 15:48	04/15/21 04:32	1
Selenium	ND	0.025		mg/L		04/13/21 15:48	04/15/21 04:32	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		04/13/21 13:26	04/13/21 18:03	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0		mg/L			04/16/21 20:50	5
Chloride	144		2.5		mg/L			04/16/21 20:50	5
Sulfate	128		10.0		mg/L			04/16/21 20:50	5
Chemical Oxygen Demand	14.1		10.0		mg/L			04/14/21 18:12	1
Total Dissolved Solids	785		10.0		mg/L			04/14/21 10:45	1
Cr (VI)	ND		0.010		mg/L			04/10/21 10:40	1
Total Organic Carbon	3.2		1.0		mg/L			04/14/21 09:47	1

Client Sample ID: MW-14N Lab Sample ID: 480-183120-4 Date Collected: 04/09/21 13:27

Date Received: 04/09/21 17:00

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		04/11/21 14:01	1
1,1,1-Trichloroethane	ND	1.0	ug/L		04/11/21 14:01	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		04/11/21 14:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		04/11/21 14:01	1
1,1,2-Trichloroethane	ND	1.0	ug/L		04/11/21 14:01	1
1,1-Dichloroethane	ND	1.0	ug/L		04/11/21 14:01	1
1,1-Dichloroethene	ND	1.0	ug/L		04/11/21 14:01	1
1,2,3-Trichloropropane	ND	1.0	ug/L		04/11/21 14:01	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L		04/11/21 14:01	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		04/11/21 14:01	1
1,2-Dibromoethane	ND	1.0	ug/L		04/11/21 14:01	1
1,2-Dichlorobenzene	ND	1.0	ug/L		04/11/21 14:01	1
1,2-Dichloroethane	ND	1.0	ug/L		04/11/21 14:01	1
1,2-Dichloropropane	ND	1.0	ug/L		04/11/21 14:01	1

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Matrix: Water

Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-14N

Lab Sample ID: 480-183120-4

Matrix: Water

Date Collected: 04/09/21 13:27 Date Received: 04/09/21 17:00

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND	1.0	ug/L		04/11/21 14:01	-
1,4-Dichlorobenzene	ND	1.0	ug/L		04/11/21 14:01	1
2-Butanone (MEK)	ND *+	10	ug/L		04/11/21 14:01	1
2-Hexanone	ND	5.0	ug/L		04/11/21 14:01	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		04/11/21 14:01	1
Acetone	ND	10	ug/L		04/11/21 14:01	1
Acetonitrile	ND	15	ug/L		04/11/21 14:01	1
Benzene	ND	1.0	ug/L		04/11/21 14:01	1
Bromochloromethane	ND	1.0	ug/L		04/11/21 14:01	1
Bromodichloromethane	ND	1.0	ug/L		04/11/21 14:01	1
Bromoform	ND	1.0	ug/L		04/11/21 14:01	1
Bromomethane	ND	1.0	ug/L		04/11/21 14:01	1
Carbon disulfide	ND	1.0	ug/L		04/11/21 14:01	1
Carbon tetrachloride	ND	1.0	ug/L		04/11/21 14:01	1
Chlorobenzene	ND	1.0	ug/L		04/11/21 14:01	1
Chloroethane	ND	1.0	ug/L		04/11/21 14:01	1
Chloroform	ND	1.0	ug/L		04/11/21 14:01	1
Chloromethane	ND	1.0	ug/L		04/11/21 14:01	1
cis-1,2-Dichloroethene	16	1.0	ug/L		04/11/21 14:01	1
cis-1,3-Dichloropropene	ND	1.0	ug/L		04/11/21 14:01	1
Cyclohexane	ND	1.0	ug/L		04/11/21 14:01	1
Dibromochloromethane	ND	1.0	ug/L		04/11/21 14:01	1
Dibromomethane	ND	1.0	ug/L		04/11/21 14:01	1
Dichlorodifluoromethane	ND	1.0	ug/L		04/11/21 14:01	1
Ethylbenzene	ND	1.0	ug/L		04/11/21 14:01	1
lodomethane	ND *-	1.0	ug/L		04/11/21 14:01	1
Isopropylbenzene	ND	1.0	ug/L		04/11/21 14:01	1
m,p-Xylene	ND	2.0	ug/L		04/11/21 14:01	1
Methyl acetate	ND	2.5	ug/L		04/11/21 14:01	1
Methylcyclohexane	ND	1.0	ug/L		04/11/21 14:01	1
Methylene Chloride	ND	1.0	ug/L		04/11/21 14:01	1
o-Xylene	ND	1.0	ug/L		04/11/21 14:01	1
Styrene	ND	1.0	ug/L		04/11/21 14:01	1
Tetrachloroethene	ND	1.0	ug/L		04/11/21 14:01	1
Toluene	ND	1.0	ug/L		04/11/21 14:01	1
trans-1,2-Dichloroethene	ND	1.0	ug/L		04/11/21 14:01	1
trans-1,3-Dichloropropene	ND	1.0	ug/L		04/11/21 14:01	1
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L		04/11/21 14:01	1
Trichloroethene	ND	1.0	ug/L		04/11/21 14:01	1
Trichlorofluoromethane	ND	1.0	ug/L		04/11/21 14:01	1
Vinyl acetate	ND	5.0	ug/L		04/11/21 14:01	1
Vinyl chloride	2.3	1.0	ug/L		04/11/21 14:01	1
Xylenes, Total	ND	2.0	ug/L		04/11/21 14:01	1

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04/11/21 14:01

04/11/21 14:01

04/11/21 14:01

04/11/21 14:01

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Client: LAN Associates Inc Project/Site: Witmer Road G/W

Client Sample ID: MW-14N

Lab Sample ID: 480-183120-4

Date Collected: 04/09/21 13:27 Matrix: Water Date Received: 04/09/21 17:00

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		04/13/21 15:48	04/15/21 04:36	1
Barium	0.12		0.0020		mg/L		04/13/21 15:48	04/15/21 04:36	1
Boron	0.11		0.020		mg/L		04/13/21 15:48	04/15/21 04:36	1
Chromium	ND		0.0040		mg/L		04/13/21 15:48	04/15/21 04:36	1
Lead	ND		0.010		mg/L		04/13/21 15:48	04/15/21 04:36	1
Manganese	0.15		0.0030		mg/L		04/13/21 15:48	04/15/21 04:36	1
Potassium	2.7		0.50		mg/L		04/13/21 15:48	04/15/21 04:36	1
Sodium	85.6		1.0		mg/L		04/13/21 15:48	04/15/21 04:36	1
Selenium	ND		0.025		mg/L		04/13/21 15:48	04/15/21 04:36	1
Analyte Mercury	Result ND	Qualifier	0.00020	MDL	mg/L	D	Prepared 04/13/21 13:26	Analyzed 04/13/21 18:04	Dil Fac
Mercury	ND		0.00020		mg/L		04/13/21 13:26	04/13/21 18:04	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0		mg/L			04/16/21 21:04	5
Chloride	135		2.5		mg/L			04/16/21 21:04	5
Sulfate	230		10.0		mg/L			04/16/21 21:04	5
Chemical Oxygen Demand	25.2		10.0		mg/L			04/14/21 18:12	1
Total Discoulous Collins	1020		10.0		mg/L			04/14/21 10:45	1
lotal Dissolved Solids									
Total Dissolved Solids Cr (VI)	ND		0.010		mg/L			04/10/21 10:40	1

Client Sample ID: MW-5R Lab Sample ID: 480-183120-5 Date Collected: 04/09/21 13:10 Matrix: Water

Date Received: 04/09/21 17:00

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L			04/11/21 14:23	1
1,1,1-Trichloroethane	ND	1.0		ug/L			04/11/21 14:23	1
1,1,2,2-Tetrachloroethane	ND	1.0		ug/L			04/11/21 14:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0		ug/L			04/11/21 14:23	1
1,1,2-Trichloroethane	ND	1.0		ug/L			04/11/21 14:23	1
1,1-Dichloroethane	ND	1.0		ug/L			04/11/21 14:23	1
1,1-Dichloroethene	ND	1.0		ug/L			04/11/21 14:23	1
1,2,3-Trichloropropane	ND	1.0		ug/L			04/11/21 14:23	1
1,2,4-Trichlorobenzene	ND	1.0		ug/L			04/11/21 14:23	1
1,2-Dibromo-3-Chloropropane	ND	1.0		ug/L			04/11/21 14:23	1
1,2-Dibromoethane	ND	1.0		ug/L			04/11/21 14:23	1
1,2-Dichlorobenzene	ND	1.0		ug/L			04/11/21 14:23	1
1,2-Dichloroethane	ND	1.0		ug/L			04/11/21 14:23	1
1,2-Dichloropropane	ND	1.0		ug/L			04/11/21 14:23	1
1,3-Dichlorobenzene	ND	1.0		ug/L			04/11/21 14:23	1
1,4-Dichlorobenzene	ND	1.0		ug/L			04/11/21 14:23	1
2-Butanone (MEK)	ND *+	10		ug/L			04/11/21 14:23	1
2-Hexanone	ND	5.0		ug/L			04/11/21 14:23	1
4-Methyl-2-pentanone (MIBK)	ND	5.0		ug/L			04/11/21 14:23	1
Acetone	ND	10		ug/L			04/11/21 14:23	1

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Job ID: 480-183120-1

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Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-5R

Lab Sample ID: 480-183120-5

Date Collected: 04/09/21 13:10

Matrix: Water

Date Received: 04/09/21 17:00

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	ND	15		ug/L			04/11/21 14:23	1
Benzene	ND	1.0		ug/L			04/11/21 14:23	1
Bromochloromethane	ND	1.0		ug/L			04/11/21 14:23	1
Bromodichloromethane	ND	1.0		ug/L			04/11/21 14:23	1
Bromoform	ND	1.0		ug/L			04/11/21 14:23	1
Bromomethane	ND	1.0		ug/L			04/11/21 14:23	1
Carbon disulfide	ND	1.0		ug/L			04/11/21 14:23	1
Carbon tetrachloride	ND	1.0		ug/L			04/11/21 14:23	1
Chlorobenzene	ND	1.0		ug/L			04/11/21 14:23	1
Chloroethane	ND	1.0		ug/L			04/11/21 14:23	1
Chloroform	ND	1.0		ug/L			04/11/21 14:23	1
Chloromethane	ND	1.0		ug/L			04/11/21 14:23	1
cis-1,2-Dichloroethene	ND	1.0		ug/L			04/11/21 14:23	1
cis-1,3-Dichloropropene	ND	1.0		ug/L			04/11/21 14:23	1
Cyclohexane	ND	1.0		ug/L			04/11/21 14:23	1
Dibromochloromethane	ND	1.0		ug/L			04/11/21 14:23	1
Dibromomethane	ND	1.0		ug/L			04/11/21 14:23	1
Dichlorodifluoromethane	ND	1.0		ug/L			04/11/21 14:23	1
Ethylbenzene	ND	1.0		ug/L			04/11/21 14:23	1
lodomethane	ND *-	1.0		ug/L			04/11/21 14:23	1
Isopropylbenzene	ND	1.0		ug/L			04/11/21 14:23	1
m,p-Xylene	ND	2.0		ug/L			04/11/21 14:23	1
Methyl acetate	ND	2.5		ug/L			04/11/21 14:23	1
Methylcyclohexane	ND	1.0		ug/L			04/11/21 14:23	1
Methylene Chloride	ND	1.0		ug/L			04/11/21 14:23	1
o-Xylene	ND	1.0		ug/L			04/11/21 14:23	1
Styrene	ND	1.0		ug/L			04/11/21 14:23	1
Tetrachloroethene	ND	1.0		ug/L			04/11/21 14:23	1
Toluene	ND	1.0		ug/L			04/11/21 14:23	1
trans-1,2-Dichloroethene	ND	1.0		ug/L			04/11/21 14:23	1
trans-1,3-Dichloropropene	ND	1.0		ug/L			04/11/21 14:23	1
trans-1,4-Dichloro-2-butene	ND	1.0		ug/L			04/11/21 14:23	1
Trichloroethene	ND	1.0		ug/L			04/11/21 14:23	1
Trichlorofluoromethane	ND	1.0		ug/L			04/11/21 14:23	1
Vinyl acetate	ND	5.0		ug/L			04/11/21 14:23	1
Vinyl chloride	ND	1.0		ug/L			04/11/21 14:23	1
Xylenes, Total	ND	2.0		ug/L			04/11/21 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		04/11/21 14:23	1
4-Bromofluorobenzene (Surr)	104		73 - 120		04/11/21 14:23	1
Toluene-d8 (Surr)	107		80 - 120		04/11/21 14:23	1
Dibromofluoromethane (Surr)	102		75 - 123		04/11/21 14:23	1

Method: 6010C - Metals (ICP)								
Analyte	Result Q	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	0.015		mg/L		04/13/21 15:48	04/15/21 04:40	1
Barium	0.094	0.0020		mg/L		04/13/21 15:48	04/15/21 04:40	1
Boron	0.19	0.020		mg/L		04/13/21 15:48	04/15/21 04:40	1
Chromium	ND	0.0040		mg/L		04/13/21 15:48	04/15/21 04:40	1

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1 4

Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Total Dissolved Solids

Total Organic Carbon

Cr (VI)

Client Sample ID: MW-5R Lab Sample ID: 480-183120-5

633

ND

5.9

Date Collected: 04/09/21 13:10

Matrix: Water

Date Received: 04/09/21 17:00

Method: 6010C - Metals (ICP) (Continued) Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Lead ND 0.010 04/13/21 15:48 04/15/21 04:40 mg/L Manganese 0.30 0.0030 mg/L 04/13/21 15:48 04/15/21 04:40 **Potassium** 22.6 0.50 mg/L 04/13/21 15:48 04/15/21 04:40 04/13/21 15:48 04/15/21 04:40 Sodium 78.1 1.0 mg/L Selenium ND 0.025 mg/L 04/13/21 15:48 04/15/21 04:40 Method: 7470A - Mercury (CVAA) Analyte Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed 04/13/21 13:26 Mercury ND 0.00020 mg/L 04/13/21 18:05 **General Chemistry** Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Bromide ND 1.0 mg/L 04/16/21 21:18 Chloride 94.6 2.5 mg/L 04/16/21 21:18 5 Sulfate 04/16/21 21:18 5 10.0 mg/L 166 **Chemical Oxygen Demand** 33.4 10.0 mg/L 04/14/21 18:12

Client Sample ID: Leachate Lab Sample ID: 480-183120-6

10.0

0.010

1.0

mg/L

mg/L

mg/L

Date Collected: 04/09/21 13:34

Date Received: 04/09/21 17:00

Matrix: Water

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		04/11/21 14:45	1
1,1,1-Trichloroethane	ND	1.0	ug/L		04/11/21 14:45	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		04/11/21 14:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		04/11/21 14:45	1
1,1,2-Trichloroethane	ND	1.0	ug/L		04/11/21 14:45	1
1,1-Dichloroethane	ND	1.0	ug/L		04/11/21 14:45	1
1,1-Dichloroethene	ND	1.0	ug/L		04/11/21 14:45	1
1,2,3-Trichloropropane	ND	1.0	ug/L		04/11/21 14:45	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L		04/11/21 14:45	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		04/11/21 14:45	1
1,2-Dibromoethane	ND	1.0	ug/L		04/11/21 14:45	1
1,2-Dichlorobenzene	ND	1.0	ug/L		04/11/21 14:45	1
1,2-Dichloroethane	ND	1.0	ug/L		04/11/21 14:45	1
1,2-Dichloropropane	ND	1.0	ug/L		04/11/21 14:45	1
1,3-Dichlorobenzene	ND	1.0	ug/L		04/11/21 14:45	1
1,4-Dichlorobenzene	ND	1.0	ug/L		04/11/21 14:45	1
2-Butanone (MEK)	ND *+	10	ug/L		04/11/21 14:45	1
2-Hexanone	ND	5.0	ug/L		04/11/21 14:45	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		04/11/21 14:45	1
Acetone	ND	10	ug/L		04/11/21 14:45	1
Acetonitrile	ND	15	ug/L		04/11/21 14:45	1
Benzene	ND	1.0	ug/L		04/11/21 14:45	1
Bromochloromethane	ND	1.0	ug/L		04/11/21 14:45	1
Bromodichloromethane	ND	1.0	ug/L		04/11/21 14:45	1

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04/14/21 10:45

04/10/21 10:40

04/14/21 10:18

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Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Client Sample ID: Leachate Date Collected: 04/09/21 13:34

Lab Sample ID: 480-183120-6

Matrix: Water

Date Received: 04/09/21 17:00
Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Bromoform	ND	1.0	ug/L		04/11/21 14:45	1
Bromomethane	ND	1.0	ug/L		04/11/21 14:45	1
Carbon disulfide	ND	1.0	ug/L		04/11/21 14:45	1
Carbon tetrachloride	ND	1.0	ug/L		04/11/21 14:45	1
Chlorobenzene	ND	1.0	ug/L		04/11/21 14:45	1
Chloroethane	ND	1.0	ug/L		04/11/21 14:45	1
Chloroform	ND	1.0	ug/L		04/11/21 14:45	1
Chloromethane	ND	1.0	ug/L		04/11/21 14:45	1
cis-1,2-Dichloroethene	ND	1.0	ug/L		04/11/21 14:45	1
cis-1,3-Dichloropropene	ND	1.0	ug/L		04/11/21 14:45	1
Cyclohexane	ND	1.0	ug/L		04/11/21 14:45	1
Dibromochloromethane	ND	1.0	ug/L		04/11/21 14:45	1
Dibromomethane	ND	1.0	ug/L		04/11/21 14:45	1
Dichlorodifluoromethane	ND	1.0	ug/L		04/11/21 14:45	1
Ethylbenzene	ND	1.0	ug/L		04/11/21 14:45	1
Iodomethane	ND *-	1.0	ug/L		04/11/21 14:45	1
Isopropylbenzene	ND	1.0	ug/L		04/11/21 14:45	1
m,p-Xylene	ND	2.0	ug/L		04/11/21 14:45	1
Methyl acetate	ND	2.5	ug/L		04/11/21 14:45	1
Methylcyclohexane	ND	1.0	ug/L		04/11/21 14:45	1
Methylene Chloride	ND	1.0	ug/L		04/11/21 14:45	1
o-Xylene	ND	1.0	ug/L		04/11/21 14:45	1
Styrene	ND	1.0	ug/L		04/11/21 14:45	1
Tetrachloroethene	ND	1.0	ug/L		04/11/21 14:45	1
Toluene	ND	1.0	ug/L		04/11/21 14:45	1
trans-1,2-Dichloroethene	ND	1.0	ug/L		04/11/21 14:45	1
trans-1,3-Dichloropropene	ND	1.0	ug/L		04/11/21 14:45	1
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L		04/11/21 14:45	1
Trichloroethene	ND	1.0	ug/L		04/11/21 14:45	1
Trichlorofluoromethane	ND	1.0	ug/L		04/11/21 14:45	1
Vinyl acetate	ND	5.0	ug/L		04/11/21 14:45	1
Vinyl chloride	ND	1.0	ug/L		04/11/21 14:45	1
Xylenes, Total	ND	2.0	ug/L		04/11/21 14:45	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108	77 - 120		04/11/21 14:45	1
4-Bromofluorobenzene (Surr)	96	73 - 120		04/11/21 14:45	1
Toluene-d8 (Surr)	101	80 - 120		04/11/21 14:45	1
Dibromofluoromethane (Surr)	104	75 123		04/11/21 14:45	1

Method: 6010C - Metals (ICP)

motriou: corros motars (ror)								
Analyte	Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	0.015		mg/L		04/13/21 15:48	04/15/21 04:44	1
Barium	0.092	0.0020		mg/L		04/13/21 15:48	04/15/21 04:44	1
Boron	0.41	0.020		mg/L		04/13/21 15:48	04/15/21 04:44	1
Chromium	0.18	0.0040		mg/L		04/13/21 15:48	04/15/21 04:44	1
Lead	0.012	0.010		mg/L		04/13/21 15:48	04/15/21 04:44	1
Manganese	0.44	0.0030		mg/L		04/13/21 15:48	04/15/21 04:44	1
Potassium	120	0.50		mg/L		04/13/21 15:48	04/15/21 04:44	1
Sodium	96.6	1.0		mg/L		04/13/21 15:48	04/15/21 04:44	1

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Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Client Sample ID: Leachate

Lab Sample ID: 480-183120-6

Date Collected: 04/09/21 13:34 Matrix: Water Date Received: 04/09/21 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.026		0.025		mg/L		04/13/21 15:48	04/15/21 04:44	1
Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		04/13/21 13:26	04/13/21 18:06	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	2.8		1.0		mg/L			04/16/21 21:32	5
Chloride	174		2.5		mg/L			04/16/21 21:32	5
Sulfate	232		10.0		mg/L			04/16/21 21:32	5
Chemical Oxygen Demand	ND	F1	10.0		mg/L			04/16/21 11:20	1
Total Dissolved Solids	1050		10.0		mg/L			04/14/21 10:45	1
Cr (VI)	0.059		0.010		mg/L			04/10/21 10:40	1
Total Organic Carbon	11.4		1.0		mg/L			04/14/21 10:34	1

Client Sample ID: SW-1 Lab Sample ID: 480-183120-7 Matrix: Water

Date Collected: 04/09/21 11:40 Date Received: 04/09/21 17:00

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	2.0	ug/L			04/11/21 15:08	2
1,1,1-Trichloroethane	ND	2.0	ug/L			04/11/21 15:08	2
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L			04/11/21 15:08	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	ug/L			04/11/21 15:08	2
1,1,2-Trichloroethane	ND	2.0	ug/L			04/11/21 15:08	2
1,1-Dichloroethane	ND	2.0	ug/L			04/11/21 15:08	2
1,1-Dichloroethene	ND	2.0	ug/L			04/11/21 15:08	2
1,2,3-Trichloropropane	ND	2.0	ug/L			04/11/21 15:08	2
1,2,4-Trichlorobenzene	ND	2.0	ug/L			04/11/21 15:08	2
1,2-Dibromo-3-Chloropropane	ND	2.0	ug/L			04/11/21 15:08	2
1,2-Dibromoethane	ND	2.0	ug/L			04/11/21 15:08	2
1,2-Dichlorobenzene	ND	2.0	ug/L			04/11/21 15:08	2
1,2-Dichloroethane	ND	2.0	ug/L			04/11/21 15:08	2
1,2-Dichloropropane	ND	2.0	ug/L			04/11/21 15:08	2
1,3-Dichlorobenzene	ND	2.0	ug/L			04/11/21 15:08	2
1,4-Dichlorobenzene	ND	2.0	ug/L			04/11/21 15:08	2
2-Butanone (MEK)	ND *+	20	ug/L			04/11/21 15:08	2
2-Hexanone	ND	10	ug/L			04/11/21 15:08	2
4-Methyl-2-pentanone (MIBK)	ND	10	ug/L			04/11/21 15:08	2
Acetone	ND	20	ug/L			04/11/21 15:08	2
Acetonitrile	ND	30	ug/L			04/11/21 15:08	2
Benzene	ND	2.0	ug/L			04/11/21 15:08	2
Bromochloromethane	ND	2.0	ug/L			04/11/21 15:08	2
Bromodichloromethane	ND	2.0	ug/L			04/11/21 15:08	2
Bromoform	ND	2.0	ug/L			04/11/21 15:08	2
Bromomethane	ND	2.0	ug/L			04/11/21 15:08	2
Carbon disulfide	ND	2.0	ug/L			04/11/21 15:08	2
Carbon tetrachloride	ND	2.0	ug/L			04/11/21 15:08	2

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Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Date Received: 04/09/21 17:00

Client Sample ID: SW-1 Date Collected: 04/09/21 11:40 Lab Sample ID: 480-183120-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Chlorobenzene	ND	2.0	ug/L		04/11/21 15:08	2
Chloroethane	ND	2.0	ug/L		04/11/21 15:08	2
Chloroform	ND	2.0	ug/L		04/11/21 15:08	2
Chloromethane	ND	2.0	ug/L		04/11/21 15:08	2
cis-1,2-Dichloroethene	ND	2.0	ug/L		04/11/21 15:08	2
cis-1,3-Dichloropropene	ND	2.0	ug/L		04/11/21 15:08	2
Cyclohexane	ND	2.0	ug/L		04/11/21 15:08	2
Dibromochloromethane	ND	2.0	ug/L		04/11/21 15:08	2
Dibromomethane	ND	2.0	ug/L		04/11/21 15:08	2
Dichlorodifluoromethane	ND	2.0	ug/L		04/11/21 15:08	2
Ethylbenzene	ND	2.0	ug/L		04/11/21 15:08	2
Iodomethane	ND *-	2.0	ug/L		04/11/21 15:08	2
Isopropylbenzene	ND	2.0	ug/L		04/11/21 15:08	2
m,p-Xylene	ND	4.0	ug/L		04/11/21 15:08	2
Methyl acetate	ND	5.0	ug/L		04/11/21 15:08	2
Methylcyclohexane	ND	2.0	ug/L		04/11/21 15:08	2
Methylene Chloride	ND	2.0	ug/L		04/11/21 15:08	2
o-Xylene	ND	2.0	ug/L		04/11/21 15:08	2
Styrene	ND	2.0	ug/L		04/11/21 15:08	2
Tetrachloroethene	ND	2.0	ug/L		04/11/21 15:08	2
Toluene	ND	2.0	ug/L		04/11/21 15:08	2
trans-1,2-Dichloroethene	ND	2.0	ug/L		04/11/21 15:08	2
trans-1,3-Dichloropropene	ND	2.0	ug/L		04/11/21 15:08	2
trans-1,4-Dichloro-2-butene	ND	2.0	ug/L		04/11/21 15:08	2
Trichloroethene	ND	2.0	ug/L		04/11/21 15:08	2
Trichlorofluoromethane	ND	2.0	ug/L		04/11/21 15:08	2
Vinyl acetate	ND	10	ug/L		04/11/21 15:08	2
Vinyl chloride	ND	2.0	ug/L		04/11/21 15:08	2
Xylenes, Total	ND	4.0	ug/L		04/11/21 15:08	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		04/11/21 15:08	2
4-Bromofluorobenzene (Surr)	104		73 - 120		04/11/21 15:08	2
Toluene-d8 (Surr)	107		80 - 120		04/11/21 15:08	2
Dibromofluoromethane (Surr)	99		75 ₋ 123		04/11/21 15:08	2

Method:	6010C - N	letals (ICP)
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Method. 00100 - Metals (101)						
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Arsenic	ND	0.015	mg/L	04/13/21 15:48	04/15/21 04:47	1
Barium	0.079	0.0020	mg/L	04/13/21 15:48	04/15/21 04:47	1
Boron	0.12	0.020	mg/L	04/13/21 15:48	04/15/21 04:47	1
Chromium	0.021	0.0040	mg/L	04/13/21 15:48	04/15/21 04:47	1
Lead	ND	0.010	mg/L	04/13/21 15:48	04/15/21 04:47	1
Manganese	1.0	0.0030	mg/L	04/13/21 15:48	04/15/21 04:47	1
Potassium	10.5	0.50	mg/L	04/13/21 15:48	04/15/21 04:47	1
Sodium	43.1	1.0	mg/L	04/13/21 15:48	04/15/21 04:47	1
Selenium	ND	0.025	mg/L	04/13/21 15:48	04/15/21 04:47	1

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Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Lab Sample ID: 480-183120-7 **Client Sample ID: SW-1** Date Collected: 04/09/21 11:40

Matrix: Water

Date Received: 04/09/21 17:00

Method: 7470A - Mercury (CVAA) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		04/13/21 13:26	04/13/21 18:10	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			04/16/21 21:46	1
Chloride	26.3		0.50		mg/L			04/16/21 21:46	1
Sulfate	51.6		2.0		mg/L			04/16/21 21:46	1
Chemical Oxygen Demand	82.7		10.0		mg/L			04/16/21 11:20	1
Total Dissolved Solids	567		10.0		mg/L			04/14/21 10:45	1
Cr (VI)	ND		0.010		mg/L			04/10/21 10:40	1
Total Organic Carbon	26.1		1.0		mg/L			04/14/21 10:49	1

Lab Sample ID: 480-183120-8 **Client Sample ID: Trip Blank** Matrix: Water

Date Collected: 04/09/21 00:00

Date Received: 04/09/21 17:00

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		04/11/21 15:31	1
1,1,1-Trichloroethane	ND	1.0	ug/L		04/11/21 15:31	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		04/11/21 15:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		04/11/21 15:31	1
1,1,2-Trichloroethane	ND	1.0	ug/L		04/11/21 15:31	1
1,1-Dichloroethane	ND	1.0	ug/L		04/11/21 15:31	1
1,1-Dichloroethene	ND	1.0	ug/L		04/11/21 15:31	1
1,2,3-Trichloropropane	ND	1.0	ug/L		04/11/21 15:31	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L		04/11/21 15:31	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		04/11/21 15:31	1
1,2-Dibromoethane	ND	1.0	ug/L		04/11/21 15:31	1
1,2-Dichlorobenzene	ND	1.0	ug/L		04/11/21 15:31	1
1,2-Dichloroethane	ND	1.0	ug/L		04/11/21 15:31	1
1,2-Dichloropropane	ND	1.0	ug/L		04/11/21 15:31	1
1,3-Dichlorobenzene	ND	1.0	ug/L		04/11/21 15:31	1
1,4-Dichlorobenzene	ND	1.0	ug/L		04/11/21 15:31	1
2-Butanone (MEK)	ND *+	10	ug/L		04/11/21 15:31	1
2-Hexanone	ND	5.0	ug/L		04/11/21 15:31	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		04/11/21 15:31	1
Acetone	ND	10	ug/L		04/11/21 15:31	1
Acetonitrile	ND	15	ug/L		04/11/21 15:31	1
Benzene	ND	1.0	ug/L		04/11/21 15:31	1
Bromochloromethane	ND	1.0	ug/L		04/11/21 15:31	1
Bromodichloromethane	ND	1.0	ug/L		04/11/21 15:31	1
Bromoform	ND	1.0	ug/L		04/11/21 15:31	1
Bromomethane	ND	1.0	ug/L		04/11/21 15:31	1
Carbon disulfide	ND	1.0	ug/L		04/11/21 15:31	1
Carbon tetrachloride	ND	1.0	ug/L		04/11/21 15:31	1
Chlorobenzene	ND	1.0	ug/L		04/11/21 15:31	1
Chloroethane	ND	1.0	ug/L		04/11/21 15:31	1
Chloroform	ND	1.0	ug/L		04/11/21 15:31	1
Chloromethane	ND	1.0	ug/L		04/11/21 15:31	1

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Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Client Sample ID: Trip Blank

Lab Sample ID: 480-183120-8

Matrix: Water

Date Collected: 04/09/21 00:00 Date Received: 04/09/21 17:00

1,2-Dichloroethane-d4 (Surr)

cis-1,2-Dichloroethene cis-1,3-Dichloropropene	ND		MDL Unit	D Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND	1.0	ug/L		04/11/21 15:31	1
	ND	1.0	ug/L		04/11/21 15:31	1
Cyclohexane	ND	1.0	ug/L		04/11/21 15:31	1
Dibromochloromethane	ND	1.0	ug/L		04/11/21 15:31	1
Dibromomethane	ND	1.0	ug/L		04/11/21 15:31	1
Dichlorodifluoromethane	ND	1.0	ug/L		04/11/21 15:31	1
Ethylbenzene	ND	1.0	ug/L		04/11/21 15:31	1
lodomethane	ND *-	1.0	ug/L		04/11/21 15:31	1
Isopropylbenzene	ND	1.0	ug/L		04/11/21 15:31	1
m,p-Xylene	ND	2.0	ug/L		04/11/21 15:31	1
Methyl acetate	ND	2.5	ug/L		04/11/21 15:31	1
Methylcyclohexane	ND	1.0	ug/L		04/11/21 15:31	1
Methylene Chloride	ND	1.0	ug/L		04/11/21 15:31	1
o-Xylene	ND	1.0	ug/L		04/11/21 15:31	1
Styrene	ND	1.0	ug/L		04/11/21 15:31	1
Tetrachloroethene	ND	1.0	ug/L		04/11/21 15:31	1
Toluene	ND	1.0	ug/L		04/11/21 15:31	1
trans-1,2-Dichloroethene	ND	1.0	ug/L		04/11/21 15:31	1
trans-1,3-Dichloropropene	ND	1.0	ug/L		04/11/21 15:31	1
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L		04/11/21 15:31	1
Trichloroethene	ND	1.0	ug/L		04/11/21 15:31	1
Trichlorofluoromethane	ND	1.0	ug/L		04/11/21 15:31	1
Vinyl acetate	ND	5.0	ug/L		04/11/21 15:31	1
Vinyl chloride	ND	1.0	ug/L		04/11/21 15:31	1
Xylenes, Total	ND	2.0	ug/L		04/11/21 15:31	1

4-Bromofluorobenzene (Surr)	101	73 - 120	04/11/21 15:31 1
Toluene-d8 (Surr)	106	80 - 120	04/11/21 15:31 1
Dibromofluoromethane (Surr)	103	75 - 123	04/11/21 15:31 1

77 - 120

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04/11/21 15:31

Surrogate Summary

Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Recovery (Acc	eptance Li
		DCA	BFB	TOL	DBFM	
_ab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)	
480-183120-1	BR-1	107	106	107	102	
480-183120-2	MW-3R	110	105	108	103	
480-183120-3	MW-12	107	100	104	101	
480-183120-4	MW-14N	107	104	106	102	
480-183120-5	MW-5R	107	104	107	102	
480-183120-6	Leachate	108	96	101	104	
180-183120-7	SW-1	107	104	107	99	
180-183120-8	Trip Blank	108	101	106	103	
_CS 480-575887/5	Lab Control Sample	101	101	102	99	
_CSD 480-575887/6	Lab Control Sample Dup	97	104	104	97	
MB 480-575887/8	Method Blank	107	101	105	100	
Surrogate Legend						

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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QC Sample Results

Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-575887/8

Matrix: Water Analysis Batch: 575887 **Client Sample ID: Method Blank**

Prep Type: Total/NA

	MB MB					
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		04/11/21 11:56	
1,1,1-Trichloroethane	ND	1.0	ug/L		04/11/21 11:56	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		04/11/21 11:56	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		04/11/21 11:56	
1,1,2-Trichloroethane	ND	1.0	ug/L		04/11/21 11:56	
1,1-Dichloroethane	ND	1.0	ug/L		04/11/21 11:56	
1,1-Dichloroethene	ND	1.0	ug/L		04/11/21 11:56	
1,2,3-Trichloropropane	ND	1.0	ug/L		04/11/21 11:56	
1,2,4-Trichlorobenzene	ND	1.0	ug/L		04/11/21 11:56	
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		04/11/21 11:56	
1,2-Dibromoethane	ND	1.0	ug/L		04/11/21 11:56	
1,2-Dichlorobenzene	ND	1.0	ug/L		04/11/21 11:56	
1,2-Dichloroethane	ND	1.0	ug/L		04/11/21 11:56	
1,2-Dichloropropane	ND	1.0	ug/L		04/11/21 11:56	
1,3-Dichlorobenzene	ND	1.0	ug/L		04/11/21 11:56	
1,4-Dichlorobenzene	ND	1.0	ug/L		04/11/21 11:56	
2-Butanone (MEK)	ND	10	ug/L		04/11/21 11:56	
2-Hexanone	ND	5.0	ug/L		04/11/21 11:56	
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		04/11/21 11:56	
Acetone	ND	10	ug/L		04/11/21 11:56	
Acetonie	ND	15			04/11/21 11:56	
			ug/L			
Benzene	ND ND	1.0	ug/L		04/11/21 11:56	
Bromochloromethane	ND	1.0	ug/L		04/11/21 11:56	
Bromodichloromethane	ND	1.0	ug/L		04/11/21 11:56	
Bromoform	ND	1.0	ug/L		04/11/21 11:56	
Bromomethane	ND	1.0	ug/L		04/11/21 11:56	
Carbon disulfide	ND	1.0	ug/L		04/11/21 11:56	
Carbon tetrachloride	ND	1.0	ug/L		04/11/21 11:56	
Chlorobenzene	ND	1.0	ug/L		04/11/21 11:56	
Chloroethane	ND	1.0	ug/L		04/11/21 11:56	
Chloroform	ND	1.0	ug/L		04/11/21 11:56	
Chloromethane	ND	1.0	ug/L		04/11/21 11:56	
cis-1,2-Dichloroethene	ND	1.0	ug/L		04/11/21 11:56	
cis-1,3-Dichloropropene	ND	1.0	ug/L		04/11/21 11:56	
Cyclohexane	ND	1.0	ug/L		04/11/21 11:56	
Dibromochloromethane	ND	1.0	ug/L		04/11/21 11:56	
Dibromomethane	ND	1.0	ug/L		04/11/21 11:56	
Dichlorodifluoromethane	ND	1.0	ug/L		04/11/21 11:56	
Ethylbenzene	ND	1.0	ug/L		04/11/21 11:56	
lodomethane	ND	1.0	ug/L		04/11/21 11:56	
Isopropylbenzene	ND	1.0	ug/L		04/11/21 11:56	
m,p-Xylene	ND	2.0	ug/L		04/11/21 11:56	
Methyl acetate	ND	2.5	ug/L		04/11/21 11:56	
Methylcyclohexane	ND	1.0	ug/L		04/11/21 11:56	
Methylene Chloride	ND	1.0	ug/L		04/11/21 11:56	
o-Xylene	ND	1.0	ug/L		04/11/21 11:56	
Styrene	ND	1.0	ug/L		04/11/21 11:56	
Tetrachloroethene	ND	1.0	ug/L		04/11/21 11:56	

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QC Sample Results

Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-575887/8

Matrix: Water

Analysis Batch: 575887

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB MB							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND	1.0		ug/L			04/11/21 11:56	1
trans-1,2-Dichloroethene	ND	1.0		ug/L			04/11/21 11:56	1
trans-1,3-Dichloropropene	ND	1.0		ug/L			04/11/21 11:56	1
trans-1,4-Dichloro-2-butene	ND	1.0		ug/L			04/11/21 11:56	1
Trichloroethene	ND	1.0		ug/L			04/11/21 11:56	1
Trichlorofluoromethane	ND	1.0		ug/L			04/11/21 11:56	1
Vinyl acetate	ND	5.0		ug/L			04/11/21 11:56	1
Vinyl chloride	ND	1.0		ug/L			04/11/21 11:56	1
Xylenes, Total	ND	2.0		ug/L			04/11/21 11:56	1

MB MB

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107	77 - 12	0	04/11/21 11:56	1
4-Bromofluorobenzene (Surr)	101	73 - 12	0	04/11/21 11:56	1
Toluene-d8 (Surr)	105	80 - 12	0	04/11/21 11:56	1
Dibromofluoromethane (Surr)	100	75 - 12	3	04/11/21 11:56	1

Lab Sample ID: LCS 480-575887/5

Matrix: Water

Analysis Batch: 575887

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Allalysis Batch. 575007	Onthe	100 100			0/ D
Amalista	Spike Added	LCS LCS Result Qualifie	r Unit	D %Rec	%Rec. Limits
Analyte					
1,1,1,2-Tetrachloroethane	25.0	22.5	ug/L	90	80 - 120
1,1,1-Trichloroethane	25.0	21.2	ug/L	85	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.7	ug/L	91	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	19.8	ug/L	79	61 - 148
ne 1,1,2-Trichloroethane	25.0	22.3	ug/L	89	76 - 122
1,1-Dichloroethane	25.0	20.8	•	83	70 - 122 77 - 120
			ug/L		
I,1-Dichloroethene	25.0	19.2	ug/L	77	66 - 127
I,2,3-Trichloropropane	25.0	23.3	ug/L	93	68 - 122
I,2,4-Trichlorobenzene	25.0	22.1	ug/L	88	79 - 122
,2-Dibromo-3-Chloropropane	25.0	26.9	ug/L	108	56 - 134
,2-Dibromoethane	25.0	22.4	ug/L	89	77 _ 120
,2-Dichlorobenzene	25.0	21.6	ug/L	86	80 - 124
,2-Dichloroethane	25.0	19.9	ug/L	80	75 _ 120
,2-Dichloropropane	25.0	21.2	ug/L	85	76 - 120
,3-Dichlorobenzene	25.0	21.6	ug/L	86	77 - 120
,4-Dichlorobenzene	25.0	21.0	ug/L	84	80 - 120
2-Butanone (MEK)	125	190 *+	ug/L	152	57 ₋ 140
2-Hexanone	125	114	ug/L	91	65 _ 127
-Methyl-2-pentanone (MIBK)	125	109	ug/L	87	71 - 125
acetone	125	119	ug/L	95	56 ₋ 142
Acetonitrile	250	290	ug/L	116	65 _ 129
Benzene	25.0	20.7	ug/L	83	71 - 124
Bromochloromethane	25.0	20.7	ug/L	83	72 _ 130
Bromodichloromethane	25.0	22.0	ug/L	88	80 - 122
Bromoform	25.0	24.7	ug/L	99	61 _ 132
Bromomethane	25.0	18.1	ug/L	72	55 ₋ 144
Carbon disulfide	25.0	20.3	ug/L	81	59 ₋ 134

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Job ID: 480-183120-1

Client: LAN Associates Inc Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-575887/5

Matrix: Water

Analysis Batch: 575887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS		%Rec.
Analyte	Added	Result	Qualifier Unit	D %Rec	Limits
Carbon tetrachloride	25.0	23.3	ug/L	93	72 - 134
Chlorobenzene	25.0	21.2	ug/L	85	80 - 120
Chloroethane	25.0	18.9	ug/L	76	69 _ 136
Chloroform	25.0	19.9	ug/L	80	73 - 127
Chloromethane	25.0	19.6	ug/L	79	68 - 124
cis-1,2-Dichloroethene	25.0	20.3	ug/L	81	74 - 124
cis-1,3-Dichloropropene	25.0	23.9	ug/L	96	74 - 124
Cyclohexane	25.0	20.8	ug/L	83	59 ₋ 135
Dibromochloromethane	25.0	23.5	ug/L	94	75 ₋ 125
Dibromomethane	25.0	21.7	ug/L	87	76 ₋ 127
Dichlorodifluoromethane	25.0	24.9	ug/L	99	59 ₋ 135
Ethylbenzene	25.0	21.7	ug/L	87	77 - 123
odomethane	25.0	19.6	ug/L	78	78 ₋ 123
sopropylbenzene	25.0	23.0	ug/L	92	77 _ 122
m,p-Xylene	25.0	22.3	ug/L	89	76 - 122
Methyl acetate	50.0	39.0	ug/L	78	74 - 133
Methylcyclohexane	25.0	22.4	ug/L	89	68 - 134
Methylene Chloride	25.0	21.1	ug/L	84	75 - 124
o-Xylene	25.0	22.4	ug/L	90	76 ₋ 122
Styrene	25.0	23.6	ug/L	94	80 - 120
Tetrachloroethene	25.0	20.7	ug/L	83	74 - 122
Toluene	25.0	21.7	ug/L	87	80 - 122
rans-1,2-Dichloroethene	25.0	20.0	ug/L	80	73 - 127
rans-1,3-Dichloropropene	25.0	24.3	ug/L	97	80 - 120
rans-1,4-Dichloro-2-butene	25.0	21.9	ug/L	88	41 - 131
Trichloroethene	25.0	20.8	ug/L	83	74 - 123
Trichlorofluoromethane	25.0	22.7	ug/L	91	62 - 150
Vinyl acetate	50.0	49.9	ug/L	100	50 - 144
Vinyl chloride	25.0	21.4	ug/L	86	65 - 133

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	99		75 - 123

Lab Sample ID: LCSD 480-575887/6

Matrix: Water

Analysis Batch: 575887

Client Sample ID: Lab Control Sample Dup **Prep Type: Total/NA**

-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,1,2-Tetrachloroethane	25.0	21.4		ug/L		86	80 - 120	5	20
1,1,1-Trichloroethane	25.0	19.5		ug/L		78	73 - 126	9	15
1,1,2,2-Tetrachloroethane	25.0	22.9		ug/L		92	76 - 120	1	15
1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	18.0		ug/L		72	61 - 148	10	20
ne									
1,1,2-Trichloroethane	25.0	21.9		ug/L		88	76 - 122	2	15
1,1-Dichloroethane	25.0	19.5		ug/L		78	77 - 120	7	20
1,1-Dichloroethene	25.0	17.5		ug/L		70	66 - 127	9	16

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QC Sample Results

Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-575887/6

Matrix: Water

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 575887	Spike	I CGD	LCSD				%Rec.		RPD
Analyte	Spike Added		Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,2,3-Trichloropropane	25.0	22.8	Qualifier	ug/L	_ =	91	68 ₋ 122	2	14
1,2,4-Trichlorobenzene	25.0	21.6		ug/L		86	79 ₋ 122	2	20
1,2-Dibromo-3-Chloropropane	25.0	26.1		ug/L		104	56 - 134	3	15
1,2-Dibromoethane	25.0	22.3		ug/L		89	77 ₋ 120	0	15
1,2-Dichlorobenzene	25.0	21.4				86	80 - 124	1	20
1,2-Dichloroethane	25.0	18.8		ug/L ug/L		75	75 ₋ 120	6	20
	25.0	20.4		-		82	76 - 120	4	20
1,2-Dichloropropane	25.0	21.3		ug/L		85	70 - 120 77 - 120	1	20
1,3-Dichlorobenzene 1,4-Dichlorobenzene	25.0	20.9		ug/L		84	80 ₋ 120	<u>-</u>	20
		184	*1	ug/L				3	
2-Butanone (MEK)	125	116	+	ug/L		148	57 - 140 65 - 137	ა 2	20 15
2-Hexanone	125			ug/L		93	65 - 127		
4-Methyl-2-pentanone (MIBK)	125	107		ug/L		85	71 - 125	2	35
Acetone	125	114		ug/L		91	56 ₋ 142	4	15
Acetonitrile	250	252		ug/L		101	65 - 129	14	20
Benzene	25.0	19.4		ug/L		77 70	71 ₋ 124	7	13
Bromochloromethane	25.0	19.8		ug/L		79	72 ₋ 130	4	15
Bromodichloromethane	25.0	21.1		ug/L		84	80 - 122	4	15
Bromoform	25.0	24.2		ug/L		97	61 - 132	2	15
Bromomethane	25.0	15.9		ug/L		64	55 - 144	13	15
Carbon disulfide	25.0	18.2		ug/L		73	59 - 134	11	15
Carbon tetrachloride	25.0	21.2		ug/L		85	72 - 134	9	15
Chlorobenzene	25.0	20.9		ug/L		84	80 - 120	1	25
Chloroethane	25.0	17.3		ug/L		69	69 - 136	9	15
Chloroform	25.0	19.0		ug/L		76	73 ₋ 127	5	20
Chloromethane	25.0	19.0		ug/L		76	68 - 124	3	15
cis-1,2-Dichloroethene	25.0	18.9		ug/L		76	74 - 124	7	15
cis-1,3-Dichloropropene	25.0	22.8		ug/L		91	74 - 124	5	15
Cyclohexane	25.0	18.7		ug/L		75	59 - 135	11	20
Dibromochloromethane	25.0	23.1		ug/L		93	75 - 125	1	15
Dibromomethane	25.0	20.7		ug/L		83	76 - 127	5	15
Dichlorodifluoromethane	25.0	22.7		ug/L		91	59 - 135	9	20
Ethylbenzene	25.0	21.1		ug/L		84	77 - 123	3	15
lodomethane	25.0	18.2	*-	ug/L		73	78 - 123	7	20
Isopropylbenzene	25.0	22.4		ug/L		90	77 - 122	3	20
m,p-Xylene	25.0	21.2		ug/L		85	76 - 122	5	16
Methyl acetate	50.0	37.7		ug/L		75	74 - 133	3	20
Methylcyclohexane	25.0	20.3		ug/L		81	68 - 134	10	20
Methylene Chloride	25.0	19.9		ug/L		80	75 - 124	6	15
o-Xylene	25.0	22.0		ug/L		88	76 - 122	2	16
Styrene	25.0	23.1		ug/L		92	80 - 120	2	20
Tetrachloroethene	25.0	19.9		ug/L		80	74 - 122	4	20
Toluene	25.0	20.8		ug/L		83	80 - 122	5	15
trans-1,2-Dichloroethene	25.0	18.7		ug/L		75	73 - 127	7	20
trans-1,3-Dichloropropene	25.0	23.7		ug/L		95	80 - 120	2	15
trans-1,4-Dichloro-2-butene	25.0	22.6		ug/L		90	41 - 131	3	20
Trichloroethene	25.0	19.4		ug/L		77	74 - 123	7	16
Trichlorofluoromethane	25.0	20.0		ug/L		80	62 - 150	13	20
Vinyl acetate	50.0	48.4		ug/L		97	50 - 144	3	23
Vinyl chloride	25.0	19.8		ug/L		79	65 - 133	8	15

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Client: LAN Associates Inc

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	97		75 - 123

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-576186/1-A

Matrix: Water

Analysis Batch: 576445

Client Sample ID: Method Blank Prep Type: Total/NA

Job ID: 480-183120-1

Prep Batch: 576186

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		04/13/21 15:48	04/15/21 03:00	1
Barium	ND		0.0020		mg/L		04/13/21 15:48	04/15/21 03:00	1
Chromium	ND		0.0040		mg/L		04/13/21 15:48	04/15/21 03:00	1
Lead	ND		0.010		mg/L		04/13/21 15:48	04/15/21 03:00	1
Manganese	ND		0.0030		mg/L		04/13/21 15:48	04/15/21 03:00	1
Selenium	ND		0.025		mg/L		04/13/21 15:48	04/15/21 03:00	1

Lab Sample ID: MB 480-576186/1-A

Matrix: Water

Analysis Batch: 576868

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 576186

мв мв

Analyte	Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND	0.020		mg/L		04/13/21 15:48	04/16/21 12:37	1
Potassium	ND	0.50		mg/L		04/13/21 15:48	04/16/21 12:37	1
Sodium	ND	1.0		mg/L		04/13/21 15:48	04/16/21 12:37	1

Lab Sample ID: LCS 480-576186/2-A

Matrix: Water

Analysis Batch: 576445

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 576186

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	0.200	0.198		mg/L		99	80 - 120
Barium	0.200	0.214		mg/L		107	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Lead	0.200	0.185		mg/L		93	80 _ 120
Manganese	0.200	0.207		mg/L		104	80 - 120
Selenium	0.200	0.200		mg/L		100	80 - 120

Lab Sample ID: LCS 480-576186/2-A

Matrix: Water

Analysis Batch: 576868

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 576186

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Boron	0.200	0.202		mg/L		101	80 - 120
Potassium	10.0	10.16		mg/L		102	80 - 120
Sodium	10.0	10.08		mg/L		101	80 - 120

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Client: LAN Associates Inc Project/Site: Witmer Road G/W

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-576146/1-A

Matrix: Water

Analysis Batch: 576207

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 480-183120-1

Prep Batch: 576146

мв мв

RL Dil Fac Analyte Result Qualifier MDL Unit D Prepared Analyzed Mercury ND 0.00020 mg/L 04/13/21 13:26 04/13/21 17:39

Lab Sample ID: LCS 480-576146/2-A

Matrix: Water

Analysis Batch: 576207

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 576146

Spike LCS LCS %Rec. %Rec Analyte Added Result Qualifier Unit D Limits Mercury 0.00667 0.00702 mg/L 105 80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-576677/4

Matrix: Water

Analysis Batch: 576677

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Bromide ND 0.20 mg/L 04/16/21 17:32 Chloride ND 0.50 mg/L 04/16/21 17:32 04/16/21 17:32 Sulfate ND 2.0 mg/L

Lab Sample ID: LCS 480-576677/3

Matrix: Water

Analysis Batch: 576677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Bromide	5.00	4.94		mg/L		99	90 - 110	
Chloride	50.0	49.00		mg/L		98	90 - 110	
Sulfate	50.0	48.20		mg/L		96	90 - 110	

Method: 410.4 - COD

Lab Sample ID: MB 480-576473/76

Matrix: Water

Analysis Batch: 576473

Client Sample ID: Method Blank

Prep Type: Total/NA

мв мв

Analyzed Result Qualifier RL MDL Unit D Dil Fac Analyte Prepared Chemical Oxygen Demand ND 10.0 04/14/21 18:12 mg/L

Lab Sample ID: LCS 480-576473/77

Matrix: Water

Analysis Batch: 576473

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chemical Oxygen Demand 25.0 26.72 mg/L 107 90 - 110

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Client: LAN Associates Inc

Project/Site: Witmer Road G/W

Job ID: 480-183120-1

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

%Rec.

Limits

90 - 110

%Rec.

Limits

75 - 125

Client Sample ID: Method Blank

Analyzed

04/14/21 10:45

Client Sample ID: Lab Control Sample

%Rec.

Limits

Client Sample ID: Leachate

Method: 410.4 - COD (Continued)

Lab Sample ID: MB 480-576758/76

Matrix: Water

Analysis Batch: 576758

мв мв

Sample Sample

Result Qualifier

мв мв

ND

Sample Sample

405

Result Qualifier

MB MB

Result Qualifier

RL Analyte Result Qualifier MDL Unit D Prepared Analyzed Dil Fac Chemical Oxygen Demand ND 10.0 mg/L 04/16/21 11:20

25.0

Spike

Added

75.0

LCS LCS

MS MS

47.91 F1

Result Qualifier

23.95

Result Qualifier

Unit

mg/L

Unit

mg/L

D

%Rec

%Rec

Prepared

64

96

Lab Sample ID: LCS 480-576758/77

Matrix: Water

Matrix: Water

Analysis Batch: 576758

Spike Analyte Added

Chemical Oxygen Demand

Lab Sample ID: 480-183120-6 MS

Analysis Batch: 576758

Analyte

Chemical Oxygen Demand

ND F1 Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-576297/1

Matrix: Water

Analysis Batch: 576297

Analyte

Lab Sample ID: LCS 480-576297/2 **Matrix: Water**

Total Dissolved Solids

Analysis Batch: 576297

Analyte Total Dissolved Solids

Lab Sample ID: 480-183120-1 DU

Analyte

Matrix: Water

Analysis Batch: 576297

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 480-575865/3 **Matrix: Water**

Total Dissolved Solids

Analysis Batch: 575865

Analyte

Result Qualifier Cr (VI) ND

Added 501

Spike

RL

10.0

Result Qualifier 492.0

DU DU

438.0

Result Qualifier

LCS LCS

MDL Unit

mq/L

Unit ma/L

Unit

mg/L

D

D

%Rec 98 85 _ 115

Client Sample ID: BR-1

Prep Type: Total/NA

RPD RPD Limit 8 10

Client Sample ID: Method Blank

Analyzed

04/10/21 10:40

Prep Type: Total/NA

RL MDL Unit D Prepared 0.010 ma/L

Dil Fac

Dil Fac

Job ID: 480-183120-1

Client Sample ID: Lab Control Sample

Client: LAN Associates Inc Project/Site: Witmer Road G/W

Lab Sample ID: LCS 480-575865/4

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Matrix: Water Analysis Batch: 575865							Prep Type:	Total/NA
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cr (VI)	0.0500	0.0478		mg/L		96	85 - 115	
Lab Sample ID: 480-183120-3 MS							Client Sample II	D: MW-12

Matrix: Water Prep Type: Total/NA

Analysis Batch: 575865

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cr (VI)	ND		0.0500	0.0490		mg/L		98	85 - 115	

Lab Sample ID: 480-183120-6 MS **Client Sample ID: Leachate Matrix: Water** Prep Type: Total/NA

Analysis Batch: 575865

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Cr (VI)	0.059		0.0500	0.102		mg/L		85	85 _ 115

Lab Sample ID: 480-183120-1 DU Client Sample ID: BR-1 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 575865

DU DU RPD Sample Sample Analyte Result Qualifier Result Qualifier Unit RPD Limit ND Cr (VI) ND mg/L

Lab Sample ID: 480-183120-2 DU Client Sample ID: MW-3R **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 575865

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Cr (VI)	0.22		0.217		mg/L		0	15

Client Sample ID: MW-14N Lab Sample ID: 480-183120-4 DU **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 575865

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Cr (VI)	ND		ND		mg/L		NC	15

Lab Sample ID: 480-183120-5 DU Client Sample ID: MW-5R Prep Type: Total/NA

Matrix: Water

Analysis Batch: 575865

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Cr (VI)	ND		ND		mg/L		NC	15

Lab Sample ID: 480-183120-6 DU Client Sample ID: Leachate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 575865								
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Cr (VI)	0.059		0.0603		mg/L		2	15

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Job ID: 480-183120-1

Client: LAN Associates Inc Project/Site: Witmer Road G/W

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: 480-183120-7 DU Client Sample ID: SW-1

Matrix: Water

Analysis Batch: 575865

Prep Type: Total/NA Sample Sample DU DU RPD

Result Qualifier RPD Analyte Result Qualifier Unit D Limit Cr (VI) ND ND mg/L NC 15

Method: SM 5310C - TOC

Lab Sample ID: MB 480-576328/27 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 576328

MB MB Result Qualifier RL MDL Unit D Analyzed Dil Fac Analyte Prepared 1.0 04/14/21 02:25 **Total Organic Carbon** ND mg/L

Lab Sample ID: MB 480-576328/51 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 576328

MB MB MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Total Organic Carbon ND 1.0 mg/L 04/14/21 08:32

Lab Sample ID: LCS 480-576328/28 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 576328

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Total Organic Carbon 60.0 61.07 mg/L 102 90 - 110

Lab Sample ID: LCS 480-576328/52 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 576328

Spike LCS LCS %Rec. Analyte Added Result Qualifier %Rec Unit Limits Total Organic Carbon 60.0 60.44 101 90 - 110 ma/L

Lab Sample ID: 480-183120-2 MS

Matrix: Water

Analysis Batch: 576328

MS MS Sample Sample Spike %Rec. Result Qualifier Added Result Qualifier %Rec Limits Analyte Unit Total Organic Carbon 3 4 22 7 28.77 mg/L 111 54 - 131

Lab Sample ID: 480-183120-2 MSD

Matrix: Water

Analysis Batch: 576328

Sample Sample Spike MSD MSD %Rec. **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit **Total Organic Carbon** 3.4 22.7 28.84 mg/L 112 54 - 131 20

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Client Sample ID: MW-3R

Client Sample ID: MW-3R

Prep Type: Total/NA

Prep Type: Total/NA

QC Association Summary

Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

GC/MS VOA

Analysis Batch: 575887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183120-1	BR-1	Total/NA	Water	8260C	
480-183120-2	MW-3R	Total/NA	Water	8260C	
480-183120-3	MW-12	Total/NA	Water	8260C	
480-183120-4	MW-14N	Total/NA	Water	8260C	
480-183120-5	MW-5R	Total/NA	Water	8260C	
480-183120-6	Leachate	Total/NA	Water	8260C	
480-183120-7	SW-1	Total/NA	Water	8260C	
480-183120-8	Trip Blank	Total/NA	Water	8260C	
MB 480-575887/8	Method Blank	Total/NA	Water	8260C	
LCS 480-575887/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-575887/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Metals

Prep Batch: 576146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183120-1	BR-1	Total/NA	Water	7470A	
480-183120-2	MW-3R	Total/NA	Water	7470A	
480-183120-3	MW-12	Total/NA	Water	7470A	
480-183120-4	MW-14N	Total/NA	Water	7470A	
480-183120-5	MW-5R	Total/NA	Water	7470A	
480-183120-6	Leachate	Total/NA	Water	7470A	
480-183120-7	SW-1	Total/NA	Water	7470A	
MB 480-576146/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-576146/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 576186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183120-1	BR-1	Total/NA	Water	3005A	
480-183120-2	MW-3R	Total/NA	Water	3005A	
480-183120-3	MW-12	Total/NA	Water	3005A	
480-183120-4	MW-14N	Total/NA	Water	3005A	
480-183120-5	MW-5R	Total/NA	Water	3005A	
480-183120-6	Leachate	Total/NA	Water	3005A	
480-183120-7	SW-1	Total/NA	Water	3005A	
MB 480-576186/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-576186/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 576207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183120-1	BR-1	Total/NA	Water	7470A	576146
480-183120-2	MW-3R	Total/NA	Water	7470A	576146
480-183120-3	MW-12	Total/NA	Water	7470A	576146
480-183120-4	MW-14N	Total/NA	Water	7470A	576146
480-183120-5	MW-5R	Total/NA	Water	7470A	576146
480-183120-6	Leachate	Total/NA	Water	7470A	576146
480-183120-7	SW-1	Total/NA	Water	7470A	576146
MB 480-576146/1-A	Method Blank	Total/NA	Water	7470A	576146
LCS 480-576146/2-A	Lab Control Sample	Total/NA	Water	7470A	576146

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QC Association Summary

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-183120-1

Metals

Analysis Batch: 576445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183120-1	BR-1	Total/NA	Water	6010C	576186
480-183120-2	MW-3R	Total/NA	Water	6010C	576186
480-183120-3	MW-12	Total/NA	Water	6010C	576186
480-183120-4	MW-14N	Total/NA	Water	6010C	576186
480-183120-5	MW-5R	Total/NA	Water	6010C	576186
480-183120-6	Leachate	Total/NA	Water	6010C	576186
480-183120-7	SW-1	Total/NA	Water	6010C	576186
MB 480-576186/1-A	Method Blank	Total/NA	Water	6010C	576186
LCS 480-576186/2-A	Lab Control Sample	Total/NA	Water	6010C	576186

Analysis Batch: 576868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183120-1	BR-1	Total/NA	Water	6010C	576186
MB 480-576186/1-A	Method Blank	Total/NA	Water	6010C	576186
LCS 480-576186/2-A	Lab Control Sample	Total/NA	Water	6010C	576186

General Chemistry

Analysis Batch: 575865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
480-183120-1	BR-1	Total/NA	Water	SM 3500 CR B	
480-183120-2	MW-3R	Total/NA	Water	SM 3500 CR B	
480-183120-3	MW-12	Total/NA	Water	SM 3500 CR B	
180-183120-4	MW-14N	Total/NA	Water	SM 3500 CR B	
180-183120-5	MW-5R	Total/NA	Water	SM 3500 CR B	
180-183120-6	Leachate	Total/NA	Water	SM 3500 CR B	
480-183120-7	SW-1	Total/NA	Water	SM 3500 CR B	
MB 480-575865/3	Method Blank	Total/NA	Water	SM 3500 CR B	
_CS 480-575865/4	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
480-183120-3 MS	MW-12	Total/NA	Water	SM 3500 CR B	
180-183120-6 MS	Leachate	Total/NA	Water	SM 3500 CR B	
180-183120-1 DU	BR-1	Total/NA	Water	SM 3500 CR B	
180-183120-2 DU	MW-3R	Total/NA	Water	SM 3500 CR B	
180-183120-4 DU	MW-14N	Total/NA	Water	SM 3500 CR B	
180-183120-5 DU	MW-5R	Total/NA	Water	SM 3500 CR B	
180-183120-6 DU	Leachate	Total/NA	Water	SM 3500 CR B	
480-183120-7 DU	SW-1	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 576297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183120-1	BR-1	Total/NA	Water	SM 2540C	
480-183120-2	MW-3R	Total/NA	Water	SM 2540C	
480-183120-3	MW-12	Total/NA	Water	SM 2540C	
480-183120-4	MW-14N	Total/NA	Water	SM 2540C	
480-183120-5	MW-5R	Total/NA	Water	SM 2540C	
480-183120-6	Leachate	Total/NA	Water	SM 2540C	
480-183120-7	SW-1	Total/NA	Water	SM 2540C	
MB 480-576297/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-576297/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-183120-1 DU	BR-1	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

General Chemistry

Analysis Batch: 576328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183120-1	BR-1	Total/NA	Water	SM 5310C	
480-183120-2	MW-3R	Total/NA	Water	SM 5310C	
480-183120-3	MW-12	Total/NA	Water	SM 5310C	
480-183120-4	MW-14N	Total/NA	Water	SM 5310C	
480-183120-5	MW-5R	Total/NA	Water	SM 5310C	
480-183120-6	Leachate	Total/NA	Water	SM 5310C	
480-183120-7	SW-1	Total/NA	Water	SM 5310C	
MB 480-576328/27	Method Blank	Total/NA	Water	SM 5310C	
MB 480-576328/51	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-576328/28	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-576328/52	Lab Control Sample	Total/NA	Water	SM 5310C	
480-183120-2 MS	MW-3R	Total/NA	Water	SM 5310C	
480-183120-2 MSD	MW-3R	Total/NA	Water	SM 5310C	

Analysis Batch: 576473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183120-1	BR-1	Total/NA	Water	410.4	
480-183120-2	MW-3R	Total/NA	Water	410.4	
480-183120-3	MW-12	Total/NA	Water	410.4	
480-183120-4	MW-14N	Total/NA	Water	410.4	
480-183120-5	MW-5R	Total/NA	Water	410.4	
MB 480-576473/76	Method Blank	Total/NA	Water	410.4	
LCS 480-576473/77	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 576677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183120-1	BR-1	Total/NA	Water	300.0	
480-183120-2	MW-3R	Total/NA	Water	300.0	
480-183120-3	MW-12	Total/NA	Water	300.0	
480-183120-4	MW-14N	Total/NA	Water	300.0	
480-183120-5	MW-5R	Total/NA	Water	300.0	
480-183120-6	Leachate	Total/NA	Water	300.0	
480-183120-7	SW-1	Total/NA	Water	300.0	
MB 480-576677/4	Method Blank	Total/NA	Water	300.0	
LCS 480-576677/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 576758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183120-6	Leachate	Total/NA	Water	410.4	
480-183120-7	SW-1	Total/NA	Water	410.4	
MB 480-576758/76	Method Blank	Total/NA	Water	410.4	
LCS 480-576758/77	Lab Control Sample	Total/NA	Water	410.4	
480-183120-6 MS	Leachate	Total/NA	Water	410.4	

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Job ID: 480-183120-1

Client: LAN Associates Inc Project/Site: Witmer Road G/W

Client Sample ID: BR-1

Date Collected: 04/09/21 12:06 Date Received: 04/09/21 17:00 Lab Sample ID: 480-183120-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	575887	04/11/21 12:55	WJD	TAL BUF
Total/NA	Prep	3005A			576186	04/13/21 15:48	ADM	TAL BUF
Total/NA	Analysis	6010C		1	576445	04/15/21 04:14	LMH	TAL BUF
Total/NA	Prep	3005A			576186	04/13/21 15:48	ADM	TAL BUF
Total/NA	Analysis	6010C		1	576868	04/16/21 12:45	LMH	TAL BUF
Total/NA	Prep	7470A			576146	04/13/21 13:26	BMB	TAL BUF
Total/NA	Analysis	7470A		1	576207	04/13/21 18:00	BMB	TAL BUF
Total/NA	Analysis	300.0		5	576677	04/16/21 20:22	IMZ	TAL BUF
Total/NA	Analysis	410.4		1	576473	04/14/21 18:12	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	576297	04/14/21 10:45	CSS	TAL BUF
Total/NA	Analysis	SM 3500 CR B		1	575865	04/10/21 10:40	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	576328	04/14/21 07:44	CLA	TAL BUF

Client Sample ID: MW-3R

Date Collected: 04/09/21 10:58 Date Received: 04/09/21 17:00 Lab Sample ID: 480-183120-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	575887	04/11/21 13:18	WJD	TAL BUF
Total/NA	Prep	3005A			576186	04/13/21 15:48	ADM	TAL BUF
Total/NA	Analysis	6010C		1	576445	04/15/21 04:29	LMH	TAL BUF
Total/NA	Prep	7470A			576146	04/13/21 13:26	BMB	TAL BUF
Total/NA	Analysis	7470A		1	576207	04/13/21 18:01	BMB	TAL BUF
Total/NA	Analysis	300.0		5	576677	04/16/21 20:36	IMZ	TAL BUF
Total/NA	Analysis	410.4		1	576473	04/14/21 18:12	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	576297	04/14/21 10:45	CSS	TAL BUF
Total/NA	Analysis	SM 3500 CR B		1	575865	04/10/21 10:40	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	576328	04/14/21 09:02	CLA	TAL BUF

Client Sample ID: MW-12

Date Collected: 04/09/21 16:02 Date Received: 04/09/21 17:00 Lab Sample ID: 480-183120-3

Matrix: Water

Time				Batch	Prepared		
Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Analysis	8260C		1	575887	04/11/21 13:39	WJD	TAL BUF
Prep	3005A			576186	04/13/21 15:48	ADM	TAL BUF
Analysis	6010C		1	576445	04/15/21 04:32	LMH	TAL BUF
Prep	7470A			576146	04/13/21 13:26	BMB	TAL BUF
Analysis	7470A		1	576207	04/13/21 18:03	BMB	TAL BUF
Analysis	300.0		5	576677	04/16/21 20:50	IMZ	TAL BUF
Analysis	410.4		1	576473	04/14/21 18:12	CSS	TAL BUF
Analysis	SM 2540C		1	576297	04/14/21 10:45	CSS	TAL BUF
Analysis	SM 3500 CR B		1	575865	04/10/21 10:40	CSS	TAL BUF
	Prep Analysis Prep Analysis Analysis Analysis	Prep 3005A Analysis 6010C Prep 7470A Analysis 7470A Analysis 300.0 Analysis 410.4 Analysis SM 2540C	Prep 3005A Analysis 6010C Prep 7470A Analysis 7470A Analysis 300.0 Analysis 410.4 Analysis SM 2540C	Prep 3005A Analysis 6010C 1 Prep 7470A 1 Analysis 7470A 1 Analysis 300.0 5 Analysis 410.4 1 Analysis SM 2540C 1	Prep 3005A 576186 Analysis 6010C 1 576445 Prep 7470A 576146 Analysis 7470A 1 576207 Analysis 300.0 5 576677 Analysis 410.4 1 576473 Analysis SM 2540C 1 576297	Prep 3005A 576186 04/13/21 15:48 Analysis 6010C 1 576445 04/15/21 04:32 Prep 7470A 576146 04/13/21 13:26 Analysis 7470A 1 576207 04/13/21 18:03 Analysis 300.0 5 576677 04/16/21 20:50 Analysis 410.4 1 576473 04/14/21 18:12 Analysis SM 2540C 1 576297 04/14/21 10:45	Prep 3005A 576186 04/13/21 15:48 ADM Analysis 6010C 1 576445 04/15/21 04:32 LMH Prep 7470A 576146 04/13/21 13:26 BMB Analysis 7470A 1 576207 04/13/21 18:03 BMB Analysis 300.0 5 576677 04/16/21 20:50 IMZ Analysis 410.4 1 576473 04/14/21 18:12 CSS Analysis SM 2540C 1 576297 04/14/21 10:45 CSS

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Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Client: LAN Associates Inc

Client Sample ID: MW-12 Date Collected: 04/09/21 16:02

Date Received: 04/09/21 17:00

Lab Sample ID: 480-183120-3

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5310C		1	576328	04/14/21 09:47	CLA	TAL BUF

Client Sample ID: MW-14N Date Collected: 04/09/21 13:27

Lab Sample ID: 480-183120-4

Matrix: Water

Date Received: 04/09/21 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	575887	04/11/21 14:01	WJD	TAL BUF
Total/NA	Prep	3005A			576186	04/13/21 15:48	ADM	TAL BUF
Total/NA	Analysis	6010C		1	576445	04/15/21 04:36	LMH	TAL BUF
Total/NA	Prep	7470A			576146	04/13/21 13:26	BMB	TAL BUF
Total/NA	Analysis	7470A		1	576207	04/13/21 18:04	BMB	TAL BUF
Total/NA	Analysis	300.0		5	576677	04/16/21 21:04	IMZ	TAL BUF
Total/NA	Analysis	410.4		1	576473	04/14/21 18:12	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	576297	04/14/21 10:45	CSS	TAL BUF
Total/NA	Analysis	SM 3500 CR B		1	575865	04/10/21 10:40	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	576328	04/14/21 10:02	CLA	TAL BUF

Client Sample ID: MW-5R Date Collected: 04/09/21 13:10 Date Received: 04/09/21 17:00

Lab Sample ID: 480-183120-5

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	575887	04/11/21 14:23	WJD	TAL BUF
Total/NA	Prep	3005A			576186	04/13/21 15:48	ADM	TAL BUF
Total/NA	Analysis	6010C		1	576445	04/15/21 04:40	LMH	TAL BUF
Total/NA	Prep	7470A			576146	04/13/21 13:26	BMB	TAL BUF
Total/NA	Analysis	7470A		1	576207	04/13/21 18:05	BMB	TAL BUF
Total/NA	Analysis	300.0		5	576677	04/16/21 21:18	IMZ	TAL BUF
Total/NA	Analysis	410.4		1	576473	04/14/21 18:12	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	576297	04/14/21 10:45	CSS	TAL BUF
Total/NA	Analysis	SM 3500 CR B		1	575865	04/10/21 10:40	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	576328	04/14/21 10:18	CLA	TAL BUF

Client Sample ID: Leachate

Lab Sample ID: 480-183120-6

Matrix: Water

Date Collected: 04/09/21 13:34 Date Received: 04/09/21 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	575887	04/11/21 14:45	WJD	TAL BUF
Total/NA	Prep	3005A			576186	04/13/21 15:48	ADM	TAL BUF
Total/NA	Analysis	6010C		1	576445	04/15/21 04:44	LMH	TAL BUF
Total/NA	Prep	7470A			576146	04/13/21 13:26	BMB	TAL BUF
Total/NA	Analysis	7470A		1	576207	04/13/21 18:06	BMB	TAL BUF

Eurofins TestAmerica, Buffalo

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Job ID: 480-183120-1

Client: LAN Associates Inc Project/Site: Witmer Road G/W

Client Sample ID: Leachate

Date Collected: 04/09/21 13:34 Date Received: 04/09/21 17:00 Lab Sample ID: 480-183120-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	576677	04/16/21 21:32	IMZ	TAL BUF
Total/NA	Analysis	410.4		1	576758	04/16/21 11:20	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	576297	04/14/21 10:45	CSS	TAL BUF
Total/NA	Analysis	SM 3500 CR B		1	575865	04/10/21 10:40	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	576328	04/14/21 10:34	CLA	TAL BUF

Client Sample ID: SW-1

Date Collected: 04/09/21 11:40 Date Received: 04/09/21 17:00 Lab Sample ID: 480-183120-7

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	575887	04/11/21 15:08	WJD	TAL BUF
Total/NA	Prep	3005A			576186	04/13/21 15:48	ADM	TAL BUF
Total/NA	Analysis	6010C		1	576445	04/15/21 04:47	LMH	TAL BUF
Total/NA	Prep	7470A			576146	04/13/21 13:26	BMB	TAL BUF
Total/NA	Analysis	7470A		1	576207	04/13/21 18:10	BMB	TAL BUF
Total/NA	Analysis	300.0		1	576677	04/16/21 21:46	IMZ	TAL BUF
Total/NA	Analysis	410.4		1	576758	04/16/21 11:20	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	576297	04/14/21 10:45	CSS	TAL BUF
Total/NA	Analysis	SM 3500 CR B		1	575865	04/10/21 10:40	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	576328	04/14/21 10:49	CLA	TAL BUF

Client Sample ID: Trip Blank

Date Collected: 04/09/21 00:00

Date Received: 04/09/21 17:00

Lab Sample ID: 480-183120-8

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	575887	04/11/21 15:31	WJD	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Accreditation/Certification Summary

Client: LAN Associates Inc Job ID: 480-183120-1

Project/Site: Witmer Road G/W

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

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Method Summary

Client: LAN Associates Inc Project/Site: Witmer Road G/W Job ID: 480-183120-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 3500 CR B	Chromium, Hexavalent	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-183120-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-183120-1	BR-1	Water	04/09/21 12:06	04/09/21 17:00	
480-183120-2	MW-3R	Water	04/09/21 10:58	04/09/21 17:00	
480-183120-3	MW-12	Water	04/09/21 16:02	04/09/21 17:00	
480-183120-4	MW-14N	Water	04/09/21 13:27	04/09/21 17:00	
480-183120-5	MW-5R	Water	04/09/21 13:10	04/09/21 17:00	
480-183120-6	Leachate	Water	04/09/21 13:34	04/09/21 17:00	
480-183120-7	SW-1	Water	04/09/21 11:40	04/09/21 17:00	
480-183120-8	Trip Blank	Water	04/09/21 00:00	04/09/21 17:00	

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10 Hazelwood Drive

Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

💸 eurofins

Environment Testing America

Client Information	Sampler:	6,74	1/751	3	La St	b PM: tone,	Judy L						C	Carrier	Trackir	g No(s)			COC No: 480-158693-	34887.1	
Chris Callegari	Phone:	716-	473-	8185	- E-	Mail: udy.St	tone@	Eurof	inset	com			5	State of	Origin				Page: Page 1 of 1		
Company:				PWSID:						A	naly	sis l	Requ	ueste	ed				Job #:		
Address: 200 M. Ica Street Sate 3	Due Date	Requeste	ad: 77)							T				T	T				Preservation	Codes:	
Dity:	TAT Requ	uested (da	nys):				- 1								1.	1					
State. Zip:	Compliar		ct: / Yes	\ No		-	ш														
Phone: 904-343-3087(Tel) 904-824-0726(Fax)	PO#:		not required									s	np,Tur								dente
		se Older	Tiot require	<u> </u>		or No	6	1			2	t OLM04.2 Total Dissolved Solids	FieldSampling - (MOD) pH,Cond,Temp,Turb			480-	183120	Cha	in of Custody	11 1811 1811	drate
Project Name:	rioject #.					Yes	ON NO	o de de					H,Cor		1	I	1 1	١٤	L-EDA	Z - other (sp	pecify)
Witmer Road G/W/ Event Desc: Witmer Road G/W Site:	480034 SSOW#:	29				mple	0.00	300.0_28D - Br, Cl, SO4	ARAY		OLM04.2	tal Dis	40D) p	(VI)				conta	L - EDA Other:	,	
		-			Matrix	- Sp		Br, Cl,	4	, 2		d - Tol	M) - Gu	2				ber of	-		
				Sample Type	(W=water 9=solid,	. 2		300.0 28D - Br,	74704	SM5310D - TOC	- TCL	2540C_Calcd -	Sampli	CR_B - Cr				Num	1		
Sample Identification	Sampl	le Date	Sample Time	(C=comp, G=grab)	O=waste/o BT=Tissue, A	II. P	Perform	300.0	2010.4	SM53	8260C	25400	FieldS	3500				Total	Specia	I Instructions	/Note:
		<	><	Preserva	tion Code	e: 🔀		N S	$\overline{}$	_	A	1	N	N				\triangleright			
BR-1	4-	9-21	1206	G	Water	r		X,	X	XX	X	X	~	X		_		10	>		
MW-3R			1058	1	Wate	r		1	Ш	Ш	1	1	İ	1	_	\perp		1			
MW-12			1602		Wate	r				Ш	11	Ш						Ш			
MW-14N .			1327		Wate	r				Ш		Ш									
MW-5R			1310		Wate	r															
Leachate	1		1334		Wate	r							1								
SW-1 .	4-9	-21	1140	G	Wate	r		X	X	×χ	(χ	X	-	X				1			
To: p Blank	^	\	_	^	Wate	r			\perp		χ							9	/		
					Wate	F						L									
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Pois	on P	Links	10WD	Radiologica	,		Sai	_		osal (To Cli		may	be a	isnos	sed i sal By	f sam p	oles are	reta	ined longer that thive For	an 1 month) Month	s
Deliverable Requested: I, II, III, IV, Other (specify)	OII D	UIKI	IOWIT I	vadiologica		_	Spe	ecial in	_	_					a by	_00		7110		WORK	
Empty Kit Relinquished by:	_		Date:				Time:		-		A				Metho	d of Shi	pment:	_	. ,		
Relinquished by:	Date/Tir	me: - Q -2/	1170	3	Company B+L	′		Recei	ed by	:	11	ies (160	1/1	in	0 7	te/Time:	4	691211	Company	7
Relinquished by:	Date/Tir	me:			Company	,		Recei	red by		U	w/ /	N (()	Date/Time:				-(-	(Company	-
Relinquished by:	Date/Tir	me:			Company	,		Recei	ved by	r:					_	Da	te/Time:	_		Company	
Custody Seals Intact: Custody Seal No.:						_		Coole	r Tem	peratur	e(s) °C	and (Other F	Remark	is:	7	1	ゴ	41 1CE		













Ver. 11 01 2020

Job Number: 480-183120-1

4/21/2021

Client: LAN Associates Inc

Login Number: 183120

List Number: 1 Creator: Stopa, Erik S List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	Comment
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	LAN
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Eurofins TestAmerica, Buffalo

2022 Laboratory Analytical Report



Environment Testing America

ANALYTICAL REPORT

Eurofins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-200962-1 Client Project/Site: Witmer Road G/W

For:

LAN Associates Inc 200 Malaga Street Suite 3 St. Augustine, Florida 32084

ot. /tagastine, r londa 5200-

Attn: Mr. Chris L. Callegari

Wyst Bloton

Authorized for release by: 9/6/2022 12:36:01 PM Wyatt Watson, Project Management Assistant I Wyatt.Watson@et.eurofinsus.com

Designee for

Steve Hartmann, Project Manager (413)572-4000

Steve.Hartmann@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Client: LAN Associates Inc Project/Site: Witmer Road G/W

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Definitions/Glossary

Client: LAN Associates Inc Job ID: 480-200962-1

Project/Site: Witmer Road G/W

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
-----------	-----------------------

*+ LCS and/or LCSD is outside acceptance limits, high biased.

*1 LCS/LCSD RPD exceeds control limits.

Glossary

Abbreviation	These commonly used abb	reviations may or may n	ot be present in this report.
--------------	-------------------------	-------------------------	-------------------------------

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Buffalo

Page 3 of 39 9/6/2022

Case Narrative

Client: LAN Associates Inc Project/Site: Witmer Road G/W Job ID: 480-200962-1

Job ID: 480-200962-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-200962-1

Comments

No additional comments.

Receipt

The samples were received on 8/23/2022 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-638802 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BR-1 (480-200962-1), MW-3R (480-200962-2), MW-12 (480-200962-3), MW-14N (480-200962-4), MW-5R (480-200962-5), Leachate (480-200962-6) and Trip Blank (480-200962-7).

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 480-638802 recovered outside control limits for the following analytes: Acetone. The associated samples are impacted: BR-1 (480-200962-1), MW-3R (480-200962-2), MW-12 (480-200962-3), MW-14N (480-200962-4), MW-5R (480-200962-5), Leachate (480-200962-6) and Trip Blank (480-200962-7).

Method 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone and 2-Chloro-1,3-butadiene with Vinyl acetate in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 480-638802. The following samples were affected: BR-1 (480-200962-1), MW-3R (480-200962-2), MW-12 (480-200962-3), MW-14N (480-200962-4), MW-5R (480-200962-5), Leachate (480-200962-6) and Trip Blank (480-200962-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following samples were diluted due to the nature of the sample matrix: BR-1 (480-200962-1), MW-3R (480-200962-2), MW-12 (480-200962-3), MW-14N (480-200962-4), MW-5R (480-200962-5) and Leachate (480-200962-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: LAN Associates Inc Project/Site: Witmer Road G/W

Lab Sample ID: 480-200962-1

Lab Sample ID: 480-200962-2

Lab Sample ID: 480-200962-3

Job ID: 480-200962-1

Client	Sam	ple ID): BR-1
--------	-----	--------	---------

Amalista	Danult C		DI.	MDI	l l=:4	Dil Foo		Mathad	Duan Tono
Analyte	Result C	Juanitier	RL	MDL	Unit	Dil Fac	ט	Method	Prep Type
cis-1,2-Dichloroethene	1.0		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	4.5		1.0		ug/L	1		8260C	Total/NA
Barium	0.10		0.0020		mg/L	1		6010C	Total/NA
Boron	0.10		0.020		mg/L	1		6010C	Total/NA
Manganese	0.21		0.0030		mg/L	1		6010C	Total/NA
Potassium	5.0		0.50		mg/L	1		6010C	Total/NA
Sodium	90.1		1.0		mg/L	1		6010C	Total/NA
Chloride	154		2.5		mg/L	5		300.0	Total/NA
Sulfate	89.9		10.0		mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	12.7		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	414		10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	3.2		1.0		ma/L	1		SM 5310C	Total/NA

Client Sample ID: MW-3R

Analyte	Result Qu	ualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.047	0.0020		mg/L	1		6010C	Total/NA
Boron	0.14	0.020		mg/L	1		6010C	Total/NA
Manganese	0.12	0.0030		mg/L	1		6010C	Total/NA
Potassium	0.77	0.50		mg/L	1		6010C	Total/NA
Sodium	46.6	1.0		mg/L	1		6010C	Total/NA
Chloride	75.8	2.5		mg/L	5		300.0	Total/NA
Sulfate	175	10.0		mg/L	5		300.0	Total/NA
Total Dissolved Solids	803	10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.8	1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.3		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	18		1.0		ug/L	1		8260C	Total/NA
Barium	0.043		0.0020		mg/L	1		6010C	Total/NA
Boron	0.14		0.020		mg/L	1		6010C	Total/NA
Manganese	0.21		0.0030		mg/L	1		6010C	Total/NA
Potassium	3.8		0.50		mg/L	1		6010C	Total/NA
Sodium	79.9		1.0		mg/L	1		6010C	Total/NA
Chloride	122		2.5		mg/L	5		300.0	Total/NA
Sulfate	102		10.0		mg/L	5		300.0	Total/NA
Total Dissolved Solids	664		10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.7		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-14N

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	21		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	3.7		1.0		ug/L	1		8260C	Total/NA
Barium	0.12		0.0020		mg/L	1		6010C	Total/NA
Boron	0.099		0.020		mg/L	1		6010C	Total/NA
Manganese	0.15		0.0030		mg/L	1		6010C	Total/NA
Potassium	2.5		0.50		mg/L	1		6010C	Total/NA
Sodium	85.3		1.0		mg/L	1		6010C	Total/NA
Chloride	129		2.5		mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

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Lab Sample ID: 480-200962-4

Detection Summary

Client: LAN Associates Inc Job ID: 480-200962-1 Project/Site: Witmer Road G/W

Client Sample ID: MW-14N (Continued)

Lab Sample ID: 480-200962-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	222		10.0		mg/L	5		300.0	Total/NA
Total Dissolved Solids	731		10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	3.0		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-5R

Analyte	Result C	Qualifier RL	MDL U	Jnit	Dil Fac	D	Method	Prep Type
Barium	0.076	0.0020	n	ng/L	1		6010C	Total/NA
Boron	0.16	0.020	n	ng/L	1		6010C	Total/NA
Manganese	0.17	0.0030	n	ng/L	1		6010C	Total/NA
Potassium	20.8	0.50	n	ng/L	1		6010C	Total/NA
Sodium	71.3	1.0	n	ng/L	1		6010C	Total/NA
Chloride	81.9	2.5	n	ng/L	5		300.0	Total/NA
Sulfate	150	10.0	n	ng/L	5		300.0	Total/NA
Chemical Oxygen Demand	24.8	10.0	n	ng/L	1		410.4	Total/NA
Total Dissolved Solids	309	10.0	n	ng/L	1		SM 2540C	Total/NA
Total Organic Carbon	6.5	1.0	n	ng/L	1		SM 5310C	Total/NA

Client Sample ID: Leachate

Lab Sample ID: 480-200962-6

Analyte	Result Q	Qualifier RL	MDL Unit	Dil Fac	D Method	Prep Type
Barium	0.053	0.0020	mg/L	1	6010C	Total/NA
Boron	0.27	0.020	mg/L	1	6010C	Total/NA
Chromium	0.056	0.0040	mg/L	1	6010C	Total/NA
Manganese	0.067	0.0030	mg/L	1	6010C	Total/NA
Potassium	70.1	0.50	mg/L	1	6010C	Total/NA
Sodium	52.5	1.0	mg/L	1	6010C	Total/NA
Bromide	2.0	1.0	mg/L	5	300.0	Total/NA
Chloride	135	2.5	mg/L	5	300.0	Total/NA
Sulfate	163	10.0	mg/L	5	300.0	Total/NA
Chemical Oxygen Demand	21.7	10.0	mg/L	1	410.4	Total/NA
Total Dissolved Solids	601	10.0	mg/L	1	SM 2540C	Total/NA
Cr (VI)	0.031	0.010	mg/L	1	SM 3500 CR B	Total/NA
Total Organic Carbon	9.2	1.0	mg/L	1	SM 5310C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-200962-7

No Detections.

This Detection Summary does not include radiochemical test results.

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Client: LAN Associates Inc Job ID: 480-200962-1

Project/Site: Witmer Road G/W

Lab Sample ID: 480-200962-1 **Client Sample ID: BR-1 Matrix: Water**

Date Collected: 08/23/22 14:40 Date Received: 08/23/22 16:40

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		08/24/22 13:31	
1,1,1-Trichloroethane	ND	1.0	ug/L		08/24/22 13:31	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		08/24/22 13:31	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		08/24/22 13:31	
1,1,2-Trichloroethane	ND	1.0	ug/L		08/24/22 13:31	
1,1-Dichloroethane	ND	1.0	ug/L		08/24/22 13:31	
1,1-Dichloroethene	ND	1.0	ug/L		08/24/22 13:31	
1,2,3-Trichloropropane	ND	1.0	ug/L		08/24/22 13:31	
1,2,4-Trichlorobenzene	ND	1.0	ug/L		08/24/22 13:31	
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		08/24/22 13:31	
1,2-Dibromoethane	ND	1.0	ug/L		08/24/22 13:31	
1,2-Dichlorobenzene	ND	1.0	ug/L		08/24/22 13:31	
1,2-Dichloroethane	ND	1.0	ug/L		08/24/22 13:31	
1,2-Dichloropropane	ND	1.0	ug/L		08/24/22 13:31	
1,3-Dichlorobenzene	ND	1.0	ug/L		08/24/22 13:31	
1,4-Dichlorobenzene	ND	1.0	ug/L		08/24/22 13:31	
2-Butanone (MEK)	ND *+	10	ug/L		08/24/22 13:31	
2-Hexanone	ND	5.0	ug/L		08/24/22 13:31	
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		08/24/22 13:31	
Acetone	ND *1	10	ug/L		08/24/22 13:31	
Acetonitrile	ND	15	ug/L		08/24/22 13:31	
Benzene	ND	1.0	ug/L		08/24/22 13:31	
Bromochloromethane	ND	1.0			08/24/22 13:31	
Bromodichloromethane	ND ND	1.0	ug/L		08/24/22 13:31	
Bromoform	ND ND	1.0	ug/L		08/24/22 13:31	
	ND ND	1.0	ug/L		08/24/22 13:31	
Bromomethane			ug/L			
Carbon disulfide	ND	1.0	ug/L		08/24/22 13:31	
Carbon tetrachloride	ND	1.0	ug/L		08/24/22 13:31	
Chlorobenzene	ND	1.0	ug/L		08/24/22 13:31	
Chloroethane	ND	1.0	ug/L		08/24/22 13:31	
Chloroform	ND	1.0	ug/L		08/24/22 13:31	
Chloromethane	ND	1.0	ug/L		08/24/22 13:31	
cis-1,2-Dichloroethene	1.0	1.0	ug/L		08/24/22 13:31	
cis-1,3-Dichloropropene	ND	1.0	ug/L		08/24/22 13:31	
Cyclohexane	ND	1.0	ug/L		08/24/22 13:31	
Dibromochloromethane	ND	1.0	ug/L		08/24/22 13:31	
Dibromomethane	ND	1.0	ug/L		08/24/22 13:31	
Dichlorodifluoromethane	ND	1.0	ug/L		08/24/22 13:31	
Ethylbenzene	ND	1.0	ug/L		08/24/22 13:31	
lodomethane	ND	1.0	ug/L		08/24/22 13:31	
Isopropylbenzene	ND	1.0	ug/L		08/24/22 13:31	
m,p-Xylene	ND	2.0	ug/L		08/24/22 13:31	
Methyl acetate	ND	2.5	ug/L		08/24/22 13:31	
Methylcyclohexane	ND	1.0	ug/L		08/24/22 13:31	
Methylene Chloride	ND	1.0	ug/L		08/24/22 13:31	
o-Xylene	ND	1.0	ug/L		08/24/22 13:31	
Styrene	ND	1.0	ug/L		08/24/22 13:31	
Tetrachloroethene	ND	1.0	ug/L		08/24/22 13:31	
Toluene	ND	1.0	ug/L		08/24/22 13:31	

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Page 7 of 39 9/6/2022 Client: LAN Associates Inc Job ID: 480-200962-1

Project/Site: Witmer Road G/W

Client Sample ID: BR-1 Lab Sample ID: 480-200962-1 **Matrix: Water**

Date Collected: 08/23/22 14:40 Date Received: 08/23/22 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 13:31	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 13:31	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			08/24/22 13:31	1
Trichloroethene	ND		1.0		ug/L			08/24/22 13:31	1
Trichlorofluoromethane	ND		1.0		ug/L			08/24/22 13:31	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 13:31	1
Vinyl chloride	4.5		1.0		ug/L			08/24/22 13:31	1
Xylenes, Total	ND		2.0		ug/L			08/24/22 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		77 - 120					08/24/22 13:31	1
4-Bromofluorobenzene (Surr)	94		73 - 120					08/24/22 13:31	1
Toluene-d8 (Surr)	101		80 - 120					08/24/22 13:31	1
Dibromofluoromethane (Surr)	107		75 - 123					08/24/22 13:31	1

Method: 6010C - Metals	s (ICP)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	0.015		mg/L		08/26/22 09:20	08/29/22 01:07	1
Barium	0.10	0.0020		mg/L		08/26/22 09:20	08/29/22 01:07	1
Boron	0.10	0.020		mg/L		08/26/22 09:20	08/29/22 01:07	1
Chromium	ND	0.0040		mg/L		08/26/22 09:20	08/29/22 01:07	1
Lead	ND	0.010		mg/L		08/26/22 09:20	08/29/22 01:07	1
Manganese	0.21	0.0030		mg/L		08/26/22 09:20	08/29/22 01:07	1
Potassium	5.0	0.50		mg/L		08/26/22 09:20	08/29/22 01:07	1
Sodium	90.1	1.0		mg/L		08/26/22 09:20	08/29/22 01:07	1
Selenium	ND	0.025		mg/L		08/26/22 09:20	08/29/22 01:07	1

Method: 7470A - Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		08/25/22 10:05	08/25/22 14:24	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dramida	ND		1.0		no er /I			00/04/00 46-50	-

Analyte	Result Q	Qualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND	1.0	mg/L			09/01/22 16:50	5
Chloride	154	2.5	mg/L			09/01/22 16:50	5
Sulfate	89.9	10.0	mg/L			09/01/22 16:50	5
Chemical Oxygen Demand	12.7	10.0	mg/L			08/30/22 18:00	1
Total Dissolved Solids	414	10.0	mg/L			08/30/22 11:04	1
Cr (VI)	ND	0.010	mg/L			08/24/22 10:47	1
Total Organic Carbon	3.2	1.0	mg/L			08/29/22 19:49	1

Lab Sample ID: 480-200962-2 **Client Sample ID: MW-3R** Date Collected: 08/23/22 15:20 **Matrix: Water**

Date Received: 08/23/22 16:40

Method: 8260C - Volatile Organ	nic Compounds by GC	/MS				
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		08/24/22 13:56	1
1,1,1-Trichloroethane	ND	1.0	ug/L		08/24/22 13:56	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		08/24/22 13:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		08/24/22 13:56	1

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Client: LAN Associates Inc Job ID: 480-200962-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-3R

Date Collected: 08/23/22 15:20

Lab Sample ID: 480-200962-2

Matrix: Water

Date Received: 08/23/22 16:40

	ittosuit	Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	ug/L		08/24/22 13:56	1
1,1-Dichloroethane	ND		1.0	ug/L		08/24/22 13:56	1
1,1-Dichloroethene	ND		1.0	ug/L		08/24/22 13:56	1
1,2,3-Trichloropropane	ND		1.0	ug/L		08/24/22 13:56	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L		08/24/22 13:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	ug/L		08/24/22 13:56	1
1,2-Dibromoethane	ND		1.0	ug/L		08/24/22 13:56	1
1,2-Dichlorobenzene	ND		1.0	ug/L		08/24/22 13:56	1
1,2-Dichloroethane	ND		1.0	ug/L		08/24/22 13:56	1
1,2-Dichloropropane	ND		1.0	ug/L		08/24/22 13:56	
1,3-Dichlorobenzene	ND		1.0	ug/L		08/24/22 13:56	1
1,4-Dichlorobenzene	ND		1.0	ug/L		08/24/22 13:56	E 18 8 8 8 8
2-Butanone (MEK)	ND	*+	10	ug/L		08/24/22 13:56	1
2-Hexanone	ND		5.0	ug/L		08/24/22 13:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	ug/L		08/24/22 13:56	
Acetone	ND	*1	10	ug/L		08/24/22 13:56	1
Acetonitrile	ND	·	15	ug/L		08/24/22 13:56	
Benzene	ND		1.0	ug/L		08/24/22 13:56	8-8-8-8-8
Bromochloromethane	ND		1.0	ug/L		08/24/22 13:56	
Bromodichloromethane	ND		1.0	ug/L		08/24/22 13:56	
Bromoform	ND		1.0	ug/L		08/24/22 13:56	
Bromomethane	ND		1.0	ug/L		08/24/22 13:56	1
Carbon disulfide	ND		1.0	ug/L		08/24/22 13:56	1
Carbon tetrachloride	ND		1.0	ug/L		08/24/22 13:56	1
Chlorobenzene	ND		1.0	ug/L		08/24/22 13:56	1
Chloroethane	ND		1.0	ug/L		08/24/22 13:56	,
Chloroform	ND		1.0	ug/L		08/24/22 13:56	,
Chloromethane	ND ND		1.0	ug/L		08/24/22 13:56	4
cis-1,2-Dichloroethene	ND		1.0	ug/L		08/24/22 13:56	,
cis-1,3-Dichloropropene	ND		1.0	ug/L		08/24/22 13:56	
Cyclohexane	ND ND		1.0	•		08/24/22 13:56	
Cyclonexane Dibromochloromethane	ND ND			ug/L		08/24/22 13:56	1
			1.0	ug/L			1
Dibromomethane	ND		1.0	ug/L		08/24/22 13:56 08/24/22 13:56	1
Dichlorodifluoromethane	ND		1.0	ug/L			1
Ethylbenzene	ND		1.0	ug/L		08/24/22 13:56	1
Iodomethane	ND		1.0	ug/L		08/24/22 13:56	1
Isopropylbenzene	ND		1.0	ug/L		08/24/22 13:56	1
m,p-Xylene	ND		2.0	ug/L		08/24/22 13:56	1
Methyl acetate	ND		2.5	ug/L		08/24/22 13:56	1
Methylcyclohexane	ND		1.0	ug/L		08/24/22 13:56	1
Methylene Chloride	ND		1.0	ug/L		08/24/22 13:56	
o-Xylene	ND		1.0	ug/L		08/24/22 13:56	1
Styrene	ND		1.0	ug/L		08/24/22 13:56	•
Tetrachloroethene	ND		1.0	ug/L		08/24/22 13:56	1
Toluene	ND		1.0	ug/L		08/24/22 13:56	1
trans-1,2-Dichloroethene	ND		1.0	ug/L		08/24/22 13:56	1
trans-1,3-Dichloropropene	ND		1.0	ug/L		08/24/22 13:56	1
trans-1,4-Dichloro-2-butene	ND		1.0	ug/L		08/24/22 13:56	1
Trichloroethene	ND		1.0	ug/L		08/24/22 13:56	

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Client: LAN Associates Inc Job ID: 480-200962-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-3R Lab Sample ID: 480-200962-2

Date Collected: 08/23/22 15:20 Matrix: Water Date Received: 08/23/22 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0		ug/L			08/24/22 13:56	_
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 13:56	
Vinyl chloride	ND		1.0		ug/L			08/24/22 13:56	•
Xylenes, Total	ND		2.0		ug/L			08/24/22 13:56	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	110		77 - 120					08/24/22 13:56	
4-Bromofluorobenzene (Surr)	88		73 - 120					08/24/22 13:56	
Toluene-d8 (Surr)	96		80 - 120					08/24/22 13:56	
Dibromofluoromethane (Surr)	102		75 - 123					08/24/22 13:56	
Method: 6010C - Metals (IC	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		08/26/22 09:20	08/29/22 01:03	
Barium	0.047		0.0020		mg/L		08/26/22 09:20	08/29/22 01:03	
Boron	0.14		0.020		mg/L		08/26/22 09:20	08/29/22 01:03	
Chromium	ND		0.0040		mg/L		08/26/22 09:20	08/29/22 01:03	
Lead	ND		0.010		mg/L		08/26/22 09:20	08/29/22 01:03	
Manganese	0.12		0.0030		mg/L		08/26/22 09:20	08/29/22 01:03	
Potassium	0.77		0.50		mg/L		08/26/22 09:20	08/29/22 01:03	
Sodium	46.6		1.0		mg/L		08/26/22 09:20	08/29/22 01:03	
Selenium	ND		0.025		mg/L		08/26/22 09:20	08/29/22 01:03	
Method: 7470A - Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	ND		0.00020		mg/L		08/25/22 10:05	08/25/22 14:29	•
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Bromide	ND		1.0		mg/L			09/01/22 17:10	
Chloride	75.8		2.5		mg/L			09/01/22 17:10	;
Sulfate	175		10.0		mg/L			09/01/22 17:10	
Chemical Oxygen Demand	ND		10.0		mg/L			08/30/22 18:00	
Total Dissolved Solids	803		10.0		mg/L			08/30/22 11:04	
Cr (VI)	ND		0.010		mg/L			08/24/22 10:47	
Total Organic Carbon	2.8		1.0		mg/L			08/29/22 20:36	

Client Sample ID: MW-12

Date Collected: 08/23/22 13:47

Lab Sample ID: 480-200962-3

Matrix: Water

Date Received: 08/23/22 16:40

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L			08/24/22 14:20	1
1,1,1-Trichloroethane	ND	1.0		ug/L			08/24/22 14:20	1
1,1,2,2-Tetrachloroethane	ND	1.0		ug/L			08/24/22 14:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0		ug/L			08/24/22 14:20	1
1,1,2-Trichloroethane	ND	1.0		ug/L			08/24/22 14:20	1
1,1-Dichloroethane	ND	1.0		ug/L			08/24/22 14:20	1
1,1-Dichloroethene	ND	1.0		ug/L			08/24/22 14:20	1
1,2,3-Trichloropropane	ND	1.0		ug/L			08/24/22 14:20	1

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Client: LAN Associates Inc Job ID: 480-200962-1 Project/Site: Witmer Road G/W

Date Received: 08/23/22 16:40

Client Sample ID: MW-12 Lab Sample ID: 480-200962-3 Date Collected: 08/23/22 13:47

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/24/22 14:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 14:20	1
1,2-Dibromoethane	ND		1.0		ug/L			08/24/22 14:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/24/22 14:20	1
1,2-Dichloroethane	ND		1.0		ug/L			08/24/22 14:20	1
1,2-Dichloropropane	ND		1.0		ug/L			08/24/22 14:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/24/22 14:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/24/22 14:20	1
2-Butanone (MEK)	ND	*+	10		ug/L			08/24/22 14:20	1
2-Hexanone	ND		5.0		ug/L			08/24/22 14:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			08/24/22 14:20	1
Acetone	ND	*1	10		ug/L			08/24/22 14:20	1
Acetonitrile	ND		15		ug/L			08/24/22 14:20	1
Benzene	ND		1.0		ug/L			08/24/22 14:20	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 14:20	1
Bromodichloromethane	ND		1.0		ug/L			08/24/22 14:20	1
Bromoform	ND		1.0		ug/L			08/24/22 14:20	1
Bromomethane	ND		1.0		ug/L			08/24/22 14:20	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 14:20	1
Carbon tetrachloride	ND		1.0		ug/L			08/24/22 14:20	1
Chlorobenzene	ND		1.0		ug/L			08/24/22 14:20	1
Chloroethane	ND		1.0		ug/L			08/24/22 14:20	1
Chloroform	ND		1.0		ug/L			08/24/22 14:20	1
Chloromethane	ND		1.0		ug/L			08/24/22 14:20	1
cis-1,2-Dichloroethene	3.3		1.0		ug/L			08/24/22 14:20	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 14:20	1
Cyclohexane	ND		1.0		ug/L			08/24/22 14:20	1
Dibromochloromethane	ND		1.0		ug/L			08/24/22 14:20	1
Dibromomethane	ND		1.0		ug/L			08/24/22 14:20	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 14:20	1
Ethylbenzene	ND		1.0		ug/L			08/24/22 14:20	1
Iodomethane	ND		1.0		ug/L			08/24/22 14:20	1
Isopropylbenzene	ND		1.0		ug/L			08/24/22 14:20	1
m,p-Xylene	ND		2.0		ug/L			08/24/22 14:20	1
Methyl acetate	ND		2.5		ug/L			08/24/22 14:20	1
Methylcyclohexane	ND		1.0		ug/L			08/24/22 14:20	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 14:20	1
o-Xylene	ND		1.0		ug/L			08/24/22 14:20	1
Styrene	ND		1.0		ug/L			08/24/22 14:20	1
Tetrachloroethene	ND		1.0		ug/L			08/24/22 14:20	1
Toluene	ND		1.0		ug/L			08/24/22 14:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 14:20	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 14:20	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			08/24/22 14:20	1
Trichloroethene	ND ND		1.0		ug/L ug/L			08/24/22 14:20	1
Trichlorofluoromethane	ND ND		1.0					08/24/22 14:20	! 1
	ND ND	*_	5.0		ug/L			08/24/22 14:20	1
Vinyl ablarida		r			ug/L				
Vinyl chloride	18 ND		1.0 2.0		ug/L ug/L			08/24/22 14:20 08/24/22 14:20	1

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Client: LAN Associates Inc Job ID: 480-200962-1 Project/Site: Witmer Road G/W

Client Sample ID: MW-12

Lab Sample ID: 480-200962-3

Date Collected: 08/23/22 13:47 **Matrix: Water** Date Received: 08/23/22 16:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		77 - 120		08/24/22 14:20	1
4-Bromofluorobenzene (Surr)	91		73 - 120		08/24/22 14:20	1
Toluene-d8 (Surr)	98		80 - 120		08/24/22 14:20	1
Dibromofluoromethane (Surr)	105		75 - 123		08/24/22 14:20	1

Method: 6010C - Metals (ICP) Analyte	Result Qua	lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	0.015	mg/L		08/26/22 09:20	08/29/22 01:26	1
Barium	0.043	0.0020	mg/L		08/26/22 09:20	08/29/22 01:26	1
Boron	0.14	0.020	mg/L		08/26/22 09:20	08/29/22 01:26	1
Chromium	ND	0.0040	mg/L		08/26/22 09:20	08/29/22 01:26	1
Lead	ND	0.010	mg/L		08/26/22 09:20	08/29/22 01:26	1
Manganese	0.21	0.0030	mg/L		08/26/22 09:20	08/29/22 01:26	1
Potassium	3.8	0.50	mg/L		08/26/22 09:20	08/29/22 01:26	1
Sodium	79.9	1.0	mg/L		08/26/22 09:20	08/29/22 01:26	1
Selenium	ND	0.025	mg/L		08/26/22 09:20	08/29/22 01:26	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		08/25/22 10:05	08/25/22 14:31	1

General Chemistry						
Analyte	Result Qualifier	RL	MDL Unit	D Prepare	ed Analyzed	Dil Fac
Bromide	ND	1.0	mg/L		09/01/22 17:29	5
Chloride	122	2.5	mg/L		09/01/22 17:29	5
Sulfate	102	10.0	mg/L		09/01/22 17:29	5
Chemical Oxygen Demand	ND	10.0	mg/L		08/30/22 18:00	1
Total Dissolved Solids	664	10.0	mg/L		08/30/22 11:04	1
Cr (VI)	ND	0.010	mg/L		08/24/22 10:47	1
Total Organic Carbon	2.7	1.0	mg/L		08/29/22 20:52	1

Client Sample ID: MW-14N Lab Sample ID: 480-200962-4 Date Collected: 08/23/22 12:40 **Matrix: Water**

Date Received: 08/23/22 16:40

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L			08/24/22 14:43	1
1,1,1-Trichloroethane	ND	1.0	ug/L			08/24/22 14:43	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L			08/24/22 14:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L			08/24/22 14:43	1
1,1,2-Trichloroethane	ND	1.0	ug/L			08/24/22 14:43	1
1,1-Dichloroethane	ND	1.0	ug/L			08/24/22 14:43	1
1,1-Dichloroethene	ND	1.0	ug/L			08/24/22 14:43	1
1,2,3-Trichloropropane	ND	1.0	ug/L			08/24/22 14:43	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L			08/24/22 14:43	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L			08/24/22 14:43	1
1,2-Dibromoethane	ND	1.0	ug/L			08/24/22 14:43	1
1,2-Dichlorobenzene	ND	1.0	ug/L			08/24/22 14:43	1
1,2-Dichloroethane	ND	1.0	ug/L			08/24/22 14:43	1
1,2-Dichloropropane	ND	1.0	ug/L			08/24/22 14:43	1

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Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Client Semple ID: MW 141

Client Sample ID: MW-14N

Date Collected: 08/23/22 12:40

Lab Sample ID: 480-200962-4

Matrix: Water

Date Received: 08/23/22 16:40

Dibromofluoromethane (Surr)

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Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fa
1,3-Dichlorobenzene	ND	1.0	ug/L		08/24/22 14:43	
1,4-Dichlorobenzene	ND	1.0	ug/L		08/24/22 14:43	
2-Butanone (MEK)	ND *+	10	ug/L		08/24/22 14:43	
2-Hexanone	ND	5.0	ug/L		08/24/22 14:43	
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		08/24/22 14:43	
Acetone	ND *1	10	ug/L		08/24/22 14:43	
Acetonitrile	ND	15	ug/L		08/24/22 14:43	
Benzene	ND	1.0	ug/L		08/24/22 14:43	
Bromochloromethane	ND	1.0	ug/L		08/24/22 14:43	
Bromodichloromethane	ND	1.0	ug/L		08/24/22 14:43	
Bromoform	ND	1.0	ug/L		08/24/22 14:43	
Bromomethane	ND	1.0	ug/L		08/24/22 14:43	
Carbon disulfide	ND	1.0	ug/L		08/24/22 14:43	
Carbon tetrachloride	ND	1.0	ug/L		08/24/22 14:43	
Chlorobenzene	ND	1.0	ug/L		08/24/22 14:43	
Chloroethane	ND	1.0	ug/L		08/24/22 14:43	
Chloroform	ND	1.0	ug/L		08/24/22 14:43	
Chloromethane	ND	1.0	ug/L		08/24/22 14:43	
cis-1,2-Dichloroethene	21	1.0	ug/L		08/24/22 14:43	
cis-1,3-Dichloropropene	ND	1.0	ug/L		08/24/22 14:43	
Cyclohexane	ND	1.0	ug/L		08/24/22 14:43	
Dibromochloromethane	ND	1.0	ug/L		08/24/22 14:43	
Dibromomethane	ND	1.0	ug/L		08/24/22 14:43	
Dichlorodifluoromethane	ND	1.0	ug/L		08/24/22 14:43	
Ethylbenzene	ND	1.0	ug/L		08/24/22 14:43	
Iodomethane	ND	1.0	ug/L		08/24/22 14:43	
Isopropylbenzene	ND	1.0	ug/L		08/24/22 14:43	
m,p-Xylene	ND	2.0	ug/L		08/24/22 14:43	
Methyl acetate	ND	2.5	ug/L		08/24/22 14:43	
Methylcyclohexane	ND	1.0	ug/L		08/24/22 14:43	
Methylene Chloride	ND	1.0	ug/L		08/24/22 14:43	
o-Xylene	ND ND	1.0	-		08/24/22 14:43	
	ND ND	1.0	ug/L		08/24/22 14:43	
Styrene Tetrachloroethene	ND ND	1.0	ug/L		08/24/22 14:43	
	ND ND	1.0	ug/L		08/24/22 14:43	
Toluene			ug/L			
trans-1,2-Dichloroethene	ND ND	1.0	ug/L		08/24/22 14:43	
trans-1,3-Dichloropropene	ND	1.0	ug/L		08/24/22 14:43	
trans-1,4-Dichloro-2-butene	ND ND	1.0	ug/L		08/24/22 14:43	
Trichloroethene	ND ND	1.0	ug/L		08/24/22 14:43	
Trichlorofluoromethane	ND *	1.0	ug/L		08/24/22 14:43	
Vinyl acetate	ND *+	5.0	ug/L		08/24/22 14:43	
Vinyl chloride	3.7	1.0	ug/L		08/24/22 14:43	
Xylenes, Total	ND	2.0	ug/L		08/24/22 14:43	
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil F
1,2-Dichloroethane-d4 (Surr)	114	77 - 120			08/24/22 14:43	
4-Bromofluorobenzene (Surr)	93	73 - 120			08/24/22 14:43	
Toluene-d8 (Surr)	102	80 - 120			08/24/22 14:43	

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08/24/22 14:43

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Client: LAN Associates Inc Job ID: 480-200962-1 Project/Site: Witmer Road G/W

Client Sample ID: MW-14N

Lab Sample ID: 480-200962-4 Date Collected: 08/23/22 12:40 **Matrix: Water**

Date Received: 08/23/22 16:40

Method: 6010C - Metals	(ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		08/26/22 09:20	08/29/22 01:22	1
Barium	0.12		0.0020		mg/L		08/26/22 09:20	08/29/22 01:22	1
Boron	0.099		0.020		mg/L		08/26/22 09:20	08/29/22 01:22	1
Chromium	ND		0.0040		mg/L		08/26/22 09:20	08/29/22 01:22	1
Lead	ND		0.010		mg/L		08/26/22 09:20	08/29/22 01:22	1
Manganese	0.15		0.0030		mg/L		08/26/22 09:20	08/29/22 01:22	1
Potassium	2.5		0.50		mg/L		08/26/22 09:20	08/29/22 01:22	1
Sodium	85.3		1.0		mg/L		08/26/22 09:20	08/29/22 01:22	1
Selenium	ND		0.025		mg/L		08/26/22 09:20	08/29/22 01:22	1
Method: 7470A - Mercui	ry (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		08/25/22 10:05	08/25/22 14:32	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0		mg/L			09/01/22 17:49	5
Chloride	129		2.5		mg/L			09/01/22 17:49	5

Client Sample ID: MW-5R Lab Sample ID: 480-200962-5 Date Collected: 08/23/22 11:20 **Matrix: Water**

10.0

10.0

10.0

0.010

1.0

mg/L

mg/L

mg/L

mg/L

mg/L

222

ND

731

ND

3.0

Date Received: 08/23/22 16:40

Chemical Oxygen Demand

Total Dissolved Solids

Total Organic Carbon

Sulfate

Cr (VI)

Analyte	Result Qualifier	RL	MDL Unit	D Prepare	ed Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		08/24/22 15:07	1
1,1,1-Trichloroethane	ND	1.0	ug/L		08/24/22 15:07	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		08/24/22 15:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		08/24/22 15:07	1
1,1,2-Trichloroethane	ND	1.0	ug/L		08/24/22 15:07	1
1,1-Dichloroethane	ND	1.0	ug/L		08/24/22 15:07	1
1,1-Dichloroethene	ND	1.0	ug/L		08/24/22 15:07	1
1,2,3-Trichloropropane	ND	1.0	ug/L		08/24/22 15:07	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L		08/24/22 15:07	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		08/24/22 15:07	1
1,2-Dibromoethane	ND	1.0	ug/L		08/24/22 15:07	1
1,2-Dichlorobenzene	ND	1.0	ug/L		08/24/22 15:07	1
1,2-Dichloroethane	ND	1.0	ug/L		08/24/22 15:07	1
1,2-Dichloropropane	ND	1.0	ug/L		08/24/22 15:07	1
1,3-Dichlorobenzene	ND	1.0	ug/L		08/24/22 15:07	1
1,4-Dichlorobenzene	ND	1.0	ug/L		08/24/22 15:07	1
2-Butanone (MEK)	ND *+	10	ug/L		08/24/22 15:07	1
2-Hexanone	ND	5.0	ug/L		08/24/22 15:07	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		08/24/22 15:07	1
Acetone	ND *1	10	ug/L		08/24/22 15:07	1

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09/01/22 17:49

08/30/22 18:00

08/30/22 11:04

08/24/22 10:47

08/29/22 21:08

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Client: LAN Associates Inc Job ID: 480-200962-1

Project/Site: Witmer Road G/W

Lab Sample ID: 480-200962-5 **Client Sample ID: MW-5R**

Date Collected: 08/23/22 11:20 **Matrix: Water** Date Received: 08/23/22 16:40

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Acetonitrile	ND	15	ug/L		08/24/22 15:07	1
Benzene	ND	1.0	ug/L		08/24/22 15:07	1
Bromochloromethane	ND	1.0	ug/L		08/24/22 15:07	1
Bromodichloromethane	ND	1.0	ug/L		08/24/22 15:07	1
Bromoform	ND	1.0	ug/L		08/24/22 15:07	1
Bromomethane	ND	1.0	ug/L		08/24/22 15:07	1
Carbon disulfide	ND	1.0	ug/L		08/24/22 15:07	1
Carbon tetrachloride	ND	1.0	ug/L		08/24/22 15:07	1
Chlorobenzene	ND	1.0	ug/L		08/24/22 15:07	1
Chloroethane	ND	1.0	ug/L		08/24/22 15:07	1
Chloroform	ND	1.0	ug/L		08/24/22 15:07	1
Chloromethane	ND	1.0	ug/L		08/24/22 15:07	1
cis-1,2-Dichloroethene	ND	1.0	ug/L		08/24/22 15:07	1
cis-1,3-Dichloropropene	ND	1.0	ug/L		08/24/22 15:07	1
Cyclohexane	ND	1.0	ug/L		08/24/22 15:07	1
Dibromochloromethane	ND	1.0	ug/L		08/24/22 15:07	1
Dibromomethane	ND	1.0	ug/L		08/24/22 15:07	1
Dichlorodifluoromethane	ND	1.0	ug/L		08/24/22 15:07	1
Ethylbenzene	ND	1.0	ug/L		08/24/22 15:07	1
Iodomethane	ND	1.0	ug/L		08/24/22 15:07	1
Isopropylbenzene	ND	1.0	ug/L		08/24/22 15:07	1
m,p-Xylene	ND	2.0	ug/L		08/24/22 15:07	1
Methyl acetate	ND	2.5	ug/L		08/24/22 15:07	1
Methylcyclohexane	ND	1.0	ug/L		08/24/22 15:07	1
Methylene Chloride	ND	1.0	ug/L		08/24/22 15:07	1
o-Xylene	ND	1.0	ug/L		08/24/22 15:07	1
Styrene	ND	1.0	ug/L		08/24/22 15:07	1
Tetrachloroethene	ND	1.0	ug/L		08/24/22 15:07	1
Toluene	ND	1.0	ug/L		08/24/22 15:07	1
trans-1,2-Dichloroethene	ND	1.0	ug/L		08/24/22 15:07	1
trans-1,3-Dichloropropene	ND	1.0	ug/L		08/24/22 15:07	1
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L		08/24/22 15:07	1
Trichloroethene	ND	1.0	ug/L		08/24/22 15:07	1
Trichlorofluoromethane	ND	1.0	ug/L		08/24/22 15:07	1
Vinyl acetate	ND *+	5.0	ug/L		08/24/22 15:07	1
Vinyl chloride	ND	1.0	ug/L		08/24/22 15:07	1
Xylenes, Total	ND	2.0	ug/L		08/24/22 15:07	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111	77 - 120			08/24/22 15:07	1
4-Bromofluorobenzene (Surr)	88	73 - 120			08/24/22 15:07	1
Toluene-d8 (Surr)	98	80 - 120			08/24/22 15:07	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111	77 - 120		08/24/22 15:07	1
4-Bromofluorobenzene (Surr)	88	73 - 120		08/24/22 15:07	1
Toluene-d8 (Surr)	98	80 - 120		08/24/22 15:07	1
Dibromofluoromethane (Surr)	103	75 - 123		08/24/22 15:07	1

Method: 6010C - Metals (ICP) Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	0.015		mg/L		08/26/22 09:20	08/29/22 01:33	1
Barium	0.076	0.0020		mg/L		08/26/22 09:20	08/29/22 01:33	1
Boron	0.16	0.020		mg/L		08/26/22 09:20	08/29/22 01:33	1
Chromium	ND	0.0040		mg/L		08/26/22 09:20	08/29/22 01:33	1

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Client: LAN Associates Inc Job ID: 480-200962-1 Project/Site: Witmer Road G/W

Client Sample ID: MW-5R

Lab Sample ID: 480-200962-5

Date Collected: 08/23/22 11:20 **Matrix: Water** Date Received: 08/23/22 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010		mg/L		08/26/22 09:20	08/29/22 01:33	1
Manganese	0.17		0.0030		mg/L		08/26/22 09:20	08/29/22 01:33	1
Potassium	20.8		0.50		mg/L		08/26/22 09:20	08/29/22 01:33	1
Sodium	71.3		1.0		mg/L		08/26/22 09:20	08/29/22 01:33	1
Selenium	ND		0.025		mg/L		08/26/22 09:20	08/29/22 01:33	1
Method: 7470A - Mercury (CV	AA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		08/25/22 10:05	08/25/22 14:55	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0		mg/L			09/01/22 18:09	5
Chloride	81.9		2.5		mg/L			09/01/22 18:09	5
Sulfate	150		10.0		mg/L			09/01/22 18:09	5
Chemical Oxygen Demand	24.8		10.0		mg/L			08/30/22 18:00	1
Total Dissolved Solids	309		10.0		mg/L			08/30/22 11:04	1
Cr (VI)	ND		0.010		mg/L			08/24/22 10:47	1
Total Organic Carbon	6.5		1.0		mg/L			08/29/22 21:24	1

Lab Sample ID: 480-200962-6 **Client Sample ID: Leachate**

Date Collected: 08/23/22 12:22 **Matrix: Water** Date Received: 08/23/22 16:40

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L			08/24/22 15:31	1
1,1,1-Trichloroethane	ND	1.0	ug/L			08/24/22 15:31	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L			08/24/22 15:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L			08/24/22 15:31	1
1,1,2-Trichloroethane	ND	1.0	ug/L			08/24/22 15:31	1
1,1-Dichloroethane	ND	1.0	ug/L			08/24/22 15:31	1
1,1-Dichloroethene	ND	1.0	ug/L			08/24/22 15:31	1
1,2,3-Trichloropropane	ND	1.0	ug/L			08/24/22 15:31	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L			08/24/22 15:31	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L			08/24/22 15:31	1
1,2-Dibromoethane	ND	1.0	ug/L			08/24/22 15:31	1
1,2-Dichlorobenzene	ND	1.0	ug/L			08/24/22 15:31	1
1,2-Dichloroethane	ND	1.0	ug/L			08/24/22 15:31	1
1,2-Dichloropropane	ND	1.0	ug/L			08/24/22 15:31	1
1,3-Dichlorobenzene	ND	1.0	ug/L			08/24/22 15:31	1
1,4-Dichlorobenzene	ND	1.0	ug/L			08/24/22 15:31	1
2-Butanone (MEK)	ND *+	10	ug/L			08/24/22 15:31	1
2-Hexanone	ND	5.0	ug/L			08/24/22 15:31	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L			08/24/22 15:31	1
Acetone	ND *1	10	ug/L			08/24/22 15:31	1
Acetonitrile	ND	15	ug/L			08/24/22 15:31	1
Benzene	ND	1.0	ug/L			08/24/22 15:31	1
Bromochloromethane	ND	1.0	ug/L			08/24/22 15:31	1
Bromodichloromethane	ND	1.0	ug/L			08/24/22 15:31	1

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Client: LAN Associates Inc Job ID: 480-200962-1

Project/Site: Witmer Road G/W

Lab Sample ID: 480-200962-6 **Client Sample ID: Leachate Matrix: Water**

Date Collected: 08/23/22 12:22 Date Received: 08/23/22 16:40

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Bromoform	ND	1.0	ug/L		08/24/22 15:31	1
Bromomethane	ND	1.0	ug/L		08/24/22 15:31	1
Carbon disulfide	ND	1.0	ug/L		08/24/22 15:31	1
Carbon tetrachloride	ND	1.0	ug/L		08/24/22 15:31	1
Chlorobenzene	ND	1.0	ug/L		08/24/22 15:31	1
Chloroethane	ND	1.0	ug/L		08/24/22 15:31	1
Chloroform	ND	1.0	ug/L		08/24/22 15:31	1
Chloromethane	ND	1.0	ug/L		08/24/22 15:31	1
cis-1,2-Dichloroethene	ND	1.0	ug/L		08/24/22 15:31	1
cis-1,3-Dichloropropene	ND	1.0	ug/L		08/24/22 15:31	1
Cyclohexane	ND	1.0	ug/L		08/24/22 15:31	1
Dibromochloromethane	ND	1.0	ug/L		08/24/22 15:31	1
Dibromomethane	ND	1.0	ug/L		08/24/22 15:31	1
Dichlorodifluoromethane	ND	1.0	ug/L		08/24/22 15:31	1
Ethylbenzene	ND	1.0	ug/L		08/24/22 15:31	1
Iodomethane	ND	1.0	ug/L		08/24/22 15:31	1
Isopropylbenzene	ND	1.0	ug/L		08/24/22 15:31	1
m,p-Xylene	ND	2.0	ug/L		08/24/22 15:31	1
Methyl acetate	ND	2.5	ug/L		08/24/22 15:31	1
Methylcyclohexane	ND	1.0	ug/L		08/24/22 15:31	1
Methylene Chloride	ND	1.0	ug/L		08/24/22 15:31	1
o-Xylene	ND	1.0	ug/L		08/24/22 15:31	1
Styrene	ND	1.0	ug/L		08/24/22 15:31	1
Tetrachloroethene	ND	1.0	ug/L		08/24/22 15:31	1
Toluene	ND	1.0	ug/L		08/24/22 15:31	1
trans-1,2-Dichloroethene	ND	1.0	ug/L		08/24/22 15:31	1
trans-1,3-Dichloropropene	ND	1.0	ug/L		08/24/22 15:31	1
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L		08/24/22 15:31	1
Trichloroethene	ND	1.0	ug/L		08/24/22 15:31	1
Trichlorofluoromethane	ND	1.0	ug/L		08/24/22 15:31	1
Vinyl acetate	ND *+	5.0	ug/L		08/24/22 15:31	1
Vinyl chloride	ND	1.0	ug/L		08/24/22 15:31	1
Xylenes, Total	ND	2.0	ug/L		08/24/22 15:31	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113	77 - 120			08/24/22 15:31	1
4-Bromofluorobenzene (Surr)	87	73 - 120			08/24/22 15:31	1
Toluene-d8 (Surr)	98	80 - 120			08/24/22 15:31	1
Dibromofluoromethane (Surr)	106	75 ₋ 123			08/24/22 15:31	1

Method: 6010C - Metals Analyte	(ICP) Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	0.015	mg/L		08/26/22 09:20	08/29/22 01:30	1
Barium	0.053	0.0020	mg/L		08/26/22 09:20	08/29/22 01:30	1
Boron	0.27	0.020	mg/L		08/26/22 09:20	08/29/22 01:30	1
Chromium	0.056	0.0040	mg/L		08/26/22 09:20	08/29/22 01:30	1
Lead	ND	0.010	mg/L		08/26/22 09:20	08/29/22 01:30	1
Manganese	0.067	0.0030	mg/L		08/26/22 09:20	08/29/22 01:30	1
Potassium	70.1	0.50	mg/L		08/26/22 09:20	08/29/22 01:30	1
Sodium	52.5	1.0	mg/L		08/26/22 09:20	08/29/22 01:30	1

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Client: LAN Associates Inc Job ID: 480-200962-1 Project/Site: Witmer Road G/W

Client Sample ID: Leachate

Lab Sample ID: 480-200962-6

Date Collected: 08/23/22 12:22 **Matrix: Water** Date Received: 08/23/22 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025		mg/L		08/26/22 09:20	08/29/22 01:30	1
Method: 7470A - Mercury (CV	AA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		08/25/22 10:05	08/25/22 14:56	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	2.0		1.0		mg/L			09/01/22 18:28	5
Chloride	135		2.5		mg/L			09/01/22 18:28	5
Sulfate	163		10.0		mg/L			09/01/22 18:28	5
Chemical Oxygen Demand	21.7		10.0		mg/L			08/30/22 18:00	1
Total Dissolved Solids	601		10.0		mg/L			08/30/22 11:04	1
Cr (VI)	0.031		0.010		mg/L			08/24/22 10:47	1
Total Organic Carbon			1.0		mg/L			08/29/22 22:12	

Client Sample ID: Trip Blank Lab Sample ID: 480-200962-7

Date Collected: 08/23/22 00:00 **Matrix: Water** Date Received: 08/23/22 16:40

Analyte	Result Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	uç	g/L			08/24/22 15:55	1
1,1,1-Trichloroethane	ND	1.0	ug	g/L			08/24/22 15:55	1
1,1,2,2-Tetrachloroethane	ND	1.0	ug	g/L			08/24/22 15:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug	g/L			08/24/22 15:55	1
1,1,2-Trichloroethane	ND	1.0	ug	g/L			08/24/22 15:55	1
1,1-Dichloroethane	ND	1.0	ug	g/L			08/24/22 15:55	1
1,1-Dichloroethene	ND	1.0	ug	g/L			08/24/22 15:55	1
1,2,3-Trichloropropane	ND	1.0	ug	g/L			08/24/22 15:55	1
1,2,4-Trichlorobenzene	ND	1.0	ug	g/L			08/24/22 15:55	1
1,2-Dibromo-3-Chloropropane	ND	1.0	ug	g/L			08/24/22 15:55	1
1,2-Dibromoethane	ND	1.0	ug	g/L			08/24/22 15:55	1
1,2-Dichlorobenzene	ND	1.0	ug	g/L			08/24/22 15:55	1
1,2-Dichloroethane	ND	1.0	ug	g/L			08/24/22 15:55	1
1,2-Dichloropropane	ND	1.0	ug	g/L			08/24/22 15:55	1
1,3-Dichlorobenzene	ND	1.0	ug	g/L			08/24/22 15:55	1
1,4-Dichlorobenzene	ND	1.0	ug	g/L			08/24/22 15:55	1
2-Butanone (MEK)	ND *+	10	ug	g/L			08/24/22 15:55	1
2-Hexanone	ND	5.0	ug	g/L			08/24/22 15:55	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug	g/L			08/24/22 15:55	1
Acetone	ND *1	10	ug	g/L			08/24/22 15:55	1
Acetonitrile	ND	15	ug	g/L			08/24/22 15:55	1
Benzene	ND	1.0	ug	g/L			08/24/22 15:55	1
Bromochloromethane	ND	1.0	ug	g/L			08/24/22 15:55	1
Bromodichloromethane	ND	1.0	ug	g/L			08/24/22 15:55	1
Bromoform	ND	1.0	ug	g/L			08/24/22 15:55	1
Bromomethane	ND	1.0	ug	g/L			08/24/22 15:55	1
Carbon disulfide	ND	1.0	ug	g/L			08/24/22 15:55	1
Carbon tetrachloride	ND	1.0	uç	g/L			08/24/22 15:55	1

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Client: LAN Associates Inc Job ID: 480-200962-1

Project/Site: Witmer Road G/W

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: Trip Blank Date Collected: 08/23/22 00:00 Lab Sample ID: 480-200962-7

Matrix: Water

Date Received: 08/23/22 16:40

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

99

106

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0		ug/L			08/24/22 15:55	1
Chloroethane	ND		1.0		ug/L			08/24/22 15:55	1
Chloroform	ND		1.0		ug/L			08/24/22 15:55	1
Chloromethane	ND		1.0		ug/L			08/24/22 15:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 15:55	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 15:55	1
Cyclohexane	ND		1.0		ug/L			08/24/22 15:55	1
Dibromochloromethane	ND		1.0		ug/L			08/24/22 15:55	1
Dibromomethane	ND		1.0		ug/L			08/24/22 15:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 15:55	1
Ethylbenzene	ND		1.0		ug/L			08/24/22 15:55	1
Iodomethane	ND		1.0		ug/L			08/24/22 15:55	1
Isopropylbenzene	ND		1.0		ug/L			08/24/22 15:55	1
m,p-Xylene	ND		2.0		ug/L			08/24/22 15:55	1
Methyl acetate	ND		2.5		ug/L			08/24/22 15:55	1
Methylcyclohexane	ND		1.0		ug/L			08/24/22 15:55	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 15:55	1
o-Xylene	ND		1.0		ug/L			08/24/22 15:55	1
Styrene	ND		1.0		ug/L			08/24/22 15:55	1
Tetrachloroethene	ND		1.0		ug/L			08/24/22 15:55	1
Toluene	ND		1.0		ug/L			08/24/22 15:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 15:55	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 15:55	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			08/24/22 15:55	1
Trichloroethene	ND		1.0		ug/L			08/24/22 15:55	1
Trichlorofluoromethane	ND		1.0		ug/L			08/24/22 15:55	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 15:55	1
Vinyl chloride	ND		1.0		ug/L			08/24/22 15:55	1
Xylenes, Total	ND		2.0		ug/L			08/24/22 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120					08/24/22 15:55	1
4-Bromofluorobenzene (Surr)	96		73 - 120					08/24/22 15:55	1

80 - 120

75 - 123

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08/24/22 15:55

08/24/22 15:55

Surrogate Summary

Client: LAN Associates Inc Job ID: 480-200962-1

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	gate Recovery (Acceptar	ce Limits)
		DCA	BFB	TOL	DBFM	
ab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)	
80-200962-1	BR-1	113	94	101	107	
-200962-2	MW-3R	110	88	96	102	
-200962-3	MW-12	116	91	98	105	
)-200962-4	MW-14N	114	93	102	104	
-200962-5	MW-5R	111	88	98	103	
-200962-6	Leachate	113	87	98	106	
-200962-7	Trip Blank	115	96	99	106	
S 480-638802/8	Lab Control Sample	115	93	98	102	
SD 480-638802/28	Lab Control Sample Dup	108	93	97	103	
3 480-638802/11	Method Blank	112	87	97	102	

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

4

6

7

9

10

12

1 A

QC Sample Results

Client: LAN Associates Inc Job ID: 480-200962-1 Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-638802/11

Matrix: Water

Analysis Batch: 638802

Client Sample ID: Method Blank	
Prep Type: Total/NA	

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 13:07	
1,1,1-Trichloroethane	ND		1.0		ug/L			08/24/22 13:07	
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 13:07	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			08/24/22 13:07	
1,1,2-Trichloroethane	ND		1.0		ug/L			08/24/22 13:07	
1,1-Dichloroethane	ND		1.0		ug/L			08/24/22 13:07	
1,1-Dichloroethene	ND		1.0		ug/L			08/24/22 13:07	
1,2,3-Trichloropropane	ND		1.0		ug/L			08/24/22 13:07	
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/24/22 13:07	
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 13:07	
1,2-Dibromoethane	ND		1.0		ug/L			08/24/22 13:07	
1,2-Dichlorobenzene	ND		1.0		ug/L			08/24/22 13:07	
1,2-Dichloroethane	ND		1.0		ug/L			08/24/22 13:07	
1,2-Dichloropropane	ND		1.0		ug/L			08/24/22 13:07	
1,3-Dichlorobenzene	ND		1.0		ug/L			08/24/22 13:07	
1,4-Dichlorobenzene	ND		1.0		ug/L			08/24/22 13:07	
2-Butanone (MEK)	ND		10		ug/L			08/24/22 13:07	
2-Hexanone	ND		5.0		ug/L			08/24/22 13:07	
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			08/24/22 13:07	
Acetone	ND		10		ug/L			08/24/22 13:07	
Acetonitrile	ND		15		ug/L			08/24/22 13:07	
Benzene	ND		1.0		ug/L ug/L			08/24/22 13:07	
	ND ND				-				
Bromochloromethane			1.0		ug/L			08/24/22 13:07	
Bromodichloromethane	ND		1.0		ug/L			08/24/22 13:07	•
Bromoform	ND		1.0		ug/L			08/24/22 13:07	•
Bromomethane	ND		1.0		ug/L			08/24/22 13:07	•
Carbon disulfide	ND		1.0		ug/L			08/24/22 13:07	
Carbon tetrachloride	ND		1.0		ug/L			08/24/22 13:07	
Chlorobenzene	ND		1.0		ug/L			08/24/22 13:07	•
Chloroethane	ND		1.0		ug/L			08/24/22 13:07	
Chloroform	ND		1.0		ug/L			08/24/22 13:07	
Chloromethane	ND		1.0		ug/L			08/24/22 13:07	•
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 13:07	_
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 13:07	•
Cyclohexane	ND		1.0		ug/L			08/24/22 13:07	•
Dibromochloromethane	ND		1.0		ug/L			08/24/22 13:07	
Dibromomethane	ND		1.0		ug/L			08/24/22 13:07	•
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 13:07	•
Ethylbenzene	ND		1.0		ug/L			08/24/22 13:07	
lodomethane	ND		1.0		ug/L			08/24/22 13:07	
Isopropylbenzene	ND		1.0		ug/L			08/24/22 13:07	
m,p-Xylene	ND		2.0		ug/L			08/24/22 13:07	
Methyl acetate	ND		2.5		ug/L			08/24/22 13:07	
Methylcyclohexane	ND		1.0		ug/L			08/24/22 13:07	
Methylene Chloride	ND		1.0		ug/L			08/24/22 13:07	
o-Xylene	ND		1.0		ug/L			08/24/22 13:07	-
Styrene	ND		1.0		ug/L			08/24/22 13:07	
Tetrachloroethene	ND		1.0		ug/L			08/24/22 13:07	

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QC Sample Results

Client: LAN Associates Inc Job ID: 480-200962-1

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-638802/11

Matrix: Water

Analysis Batch: 638802

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB MB					
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Toluene	ND	1.0	ug/L		08/24/22 13:07	1
trans-1,2-Dichloroethene	ND	1.0	ug/L		08/24/22 13:07	1
trans-1,3-Dichloropropene	ND	1.0	ug/L		08/24/22 13:07	1
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L		08/24/22 13:07	1
Trichloroethene	ND	1.0	ug/L		08/24/22 13:07	1
Trichlorofluoromethane	ND	1.0	ug/L		08/24/22 13:07	1
Vinyl acetate	ND	5.0	ug/L		08/24/22 13:07	1
Vinyl chloride	ND	1.0	ug/L		08/24/22 13:07	1
Xylenes, Total	ND	2.0	ug/L		08/24/22 13:07	1

MB MB

Surrogate	%Recovery Qua	alifier Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112	77 - 120	08/24/22 13:	7 1
4-Bromofluorobenzene (Surr)	87	73 - 120	08/24/22 13:	7 1
Toluene-d8 (Surr)	97	80 - 120	08/24/22 13:	7 1
Dibromofluoromethane (Surr)	102	75 - 123	08/24/22 13:	7 1

Lab Sample ID: LCS 480-638802/8

Matrix: Water

Analysis Batch: 638802

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	25.0	27.5		ug/L		110	80 - 120
1,1,1-Trichloroethane	25.0	27.9		ug/L		111	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.8		ug/L		103	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	29.7		ug/L		119	61 - 148
ne							
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	76 - 122
1,1-Dichloroethane	25.0	28.4		ug/L		114	77 - 120
1,1-Dichloroethene	25.0	28.2		ug/L		113	66 - 127
1,2,3-Trichloropropane	25.0	25.5		ug/L		102	68 - 122
1,2,4-Trichlorobenzene	25.0	23.4		ug/L		93	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.5		ug/L		102	56 - 134
1,2-Dibromoethane	25.0	25.5		ug/L		102	77 - 120
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 124
1,2-Dichloroethane	25.0	27.4		ug/L		109	75 - 120
1,2-Dichloropropane	25.0	26.0		ug/L		104	76 - 120
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	77 - 120
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	80 - 120
2-Butanone (MEK)	125	207	*+	ug/L		165	57 - 140
2-Hexanone	125	127		ug/L		101	65 - 127
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	71 - 125
Acetone	125	144		ug/L		115	56 - 142
Acetonitrile	250	234		ug/L		94	65 - 129
Benzene	25.0	26.1		ug/L		104	71 - 124
Bromochloromethane	25.0	27.1		ug/L		108	72 - 130
Bromodichloromethane	25.0	28.0		ug/L		112	80 - 122
Bromoform	25.0	26.2		ug/L		105	61 - 132
Bromomethane	25.0	26.7		ug/L		107	55 - 144
Carbon disulfide	25.0	29.0		ug/L		116	59 - 134

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Spike

Client: LAN Associates Inc Job ID: 480-200962-1 Project/Site: Witmer Road G/W

LCS LCS

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-638802/8 **Matrix: Water**

Analysis Batch: 638802

Client Sample ID: Lab Control Sample

%Rec

Prep Type: Total/NA

Analyte	Added	Result	Qualifier Uni	it D	%Rec	Limits	
Carbon tetrachloride	25.0	28.5	ug/	-	114	72 - 134	
Chlorobenzene	25.0	25.5	ug/	L	102	80 - 120	
Chloroethane	25.0	26.9	ug/	L	108	69 - 136	
Chloroform	25.0	26.8	ug/	<u>L</u>	107	73 - 127	
Chloromethane	25.0	21.6	ug/	L	87	68 - 124	
cis-1,2-Dichloroethene	25.0	26.3	ug/	L	105	74 - 124	
cis-1,3-Dichloropropene	25.0	28.7	ug/	L	115	74 - 124	
Cyclohexane	25.0	25.9	ug/	L	104	59 - 135	
Dibromochloromethane	25.0	27.3	ug/	L	109	75 - 125	
Dibromomethane	25.0	26.9	ug/	L	108	76 - 127	
Dichlorodifluoromethane	25.0	22.6	ug/	L	91	59 - 135	
Ethylbenzene	25.0	25.8	ug/	L	103	77 - 123	
lodomethane	25.0	27.4	ug/		110	78 - 123	
Isopropylbenzene	25.0	25.7	ug/	L	103	77 - 122	
m,p-Xylene	25.0	25.5	ug/	L	102	76 - 122	
Methyl acetate	50.0	45.9	ug/	L	92	74 - 133	
Methylcyclohexane	25.0	27.6	ug/	L	110	68 - 134	
Methylene Chloride	25.0	26.6	ug/	L	106	75 - 124	
o-Xylene	25.0	25.1	ug/	L	101	76 - 122	
Styrene	25.0	25.7	ug/	L	103	80 - 120	
Tetrachloroethene	25.0	25.5	ug/	L	102	74 - 122	
Toluene	25.0	25.2	ug/	L	101	80 - 122	
trans-1,2-Dichloroethene	25.0	26.9	ug/	L	108	73 - 127	
trans-1,3-Dichloropropene	25.0	28.3	ug/	L	113	80 - 120	
trans-1,4-Dichloro-2-butene	25.0	26.2	ug/		105	41 - 131	
Trichloroethene	25.0	26.0	ug/	L	104	74 - 123	
Trichlorofluoromethane	25.0	27.6	ug/	L	110	62 - 150	
Vinyl acetate	50.0	78.5	*+ ug/	L	157	50 - 144	
Vinyl chloride	25.0	21.5	ug/	1	86	65 - 133	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		77 - 120
4-Bromofluorobenzene (Surr)	93		73 - 120
Toluene-d8 (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Lab Sample ID: LCSD 480-638802/28

Matrix: Water

Analysis Batch: 638802

Client Sample ID: Lab	Control Sample Dup
	Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,1,2-Tetrachloroethane	25.0	27.3		ug/L		109	80 - 120	1	20
1,1,1-Trichloroethane	25.0	28.7		ug/L		115	73 - 126	3	15
1,1,2,2-Tetrachloroethane	25.0	26.4		ug/L		106	76 - 120	2	15
1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	31.2		ug/L		125	61 - 148	5	20
ne									
1,1,2-Trichloroethane	25.0	26.4		ug/L		106	76 - 122	2	15
1,1-Dichloroethane	25.0	29.7		ug/L		119	77 - 120	4	20
1,1-Dichloroethene	25.0	28.7		ug/L		115	66 - 127	2	16

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QC Sample Results

Client: LAN Associates Inc Job ID: 480-200962-1

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-638802/28

Matrix: Water

Analysis Batch: 638802

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Analysis Batch: 638802	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2,3-Trichloropropane	25.0	25.6		ug/L		102	68 - 122	0	14
1,2,4-Trichlorobenzene	25.0	22.9		ug/L		91	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	25.0	24.9		ug/L		99	56 - 134	3	15
1,2-Dibromoethane	25.0	25.4		ug/L		102	77 - 120	0	15
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	80 - 124	0	20
1,2-Dichloroethane	25.0	28.0		ug/L		112	75 - 120	2	20
1,2-Dichloropropane	25.0	27.4		ug/L		109	76 - 120	5	20
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	77 - 120	0	20
1,4-Dichlorobenzene	25.0	25.8		ug/L		103	80 - 120	1	20
2-Butanone (MEK)	125	215	*+	ug/L		172	57 - 140	4	20
2-Hexanone	125	131		ug/L		105	65 - 127	3	15
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		97	71 - 125	2	35
Acetone	125	118	*1	ug/L		94	56 - 142	20	15
Acetonitrile	250	229		ug/L		92	65 - 129	2	20
Benzene	25.0	27.6		ug/L		111	71 - 124	6	13
Bromochloromethane	25.0	27.4		ug/L		110	72 - 130	1	15
Bromodichloromethane	25.0	28.0		ug/L		112	80 - 122	0	15
Bromoform	25.0	24.9		ug/L		100	61 - 132	5	15
Bromomethane	25.0	28.2		ug/L		113	55 - 144	6	15
Carbon disulfide	25.0	28.4		ug/L		113	59 - 134	2	15
Carbon tetrachloride	25.0	29.1		ug/L		116	72 - 134	2	15
Chlorobenzene	25.0	25.8		ug/L		103	80 - 120	1	25
Chloroethane	25.0	29.1		ug/L		116	69 - 136	8	15
Chloroform	25.0	27.8		ug/L		111	73 - 127	4	20
Chloromethane	25.0	23.7		ug/L		95	68 - 124	9	15
cis-1,2-Dichloroethene	25.0	27.5		ug/L		110	74 - 124	4	15
cis-1,3-Dichloropropene	25.0	28.2				113	74 - 124	2	15
Cyclohexane	25.0	27.1		ug/L ug/L		108	59 ₋ 135	5	20
Dibromochloromethane	25.0	26.5		ug/L ug/L		106	75 ₋ 125	3	15
Dibromomethane	25.0	27.7				111	76 - 127	3	15
Dichlorodifluoromethane	25.0	22.9		ug/L		91	59 ₋ 135	3 1	20
		26.1		ug/L				1	
Ethylbenzene	25.0			ug/L		104	77 - 123	1	15
lodomethane	25.0	27.2		ug/L		109	78 ₋ 123		20
Isopropylbenzene	25.0	25.2		ug/L		101	77 ₋ 122 76 ₋ 122	2	20
m,p-Xylene	25.0	25.4		ug/L		101		0	16
Methyl acetate	50.0	44.1		ug/L		88	74 - 133	4	20
Methylcyclohexane	25.0	29.0		ug/L		116	68 - 134	5	20
Methylene Chloride	25.0	27.5		ug/L		110	75 - 124	3	15
o-Xylene	25.0	25.1		ug/L		100	76 - 122	0	16
Styrene	25.0	26.0		ug/L		104	80 - 120	1	20
Tetrachloroethene	25.0	27.8		ug/L		111	74 - 122	8	20
Toluene	25.0	25.4		ug/L		102	80 - 122	1	15
trans-1,2-Dichloroethene	25.0	28.3		ug/L		113	73 - 127	5	20
trans-1,3-Dichloropropene	25.0	27.0		ug/L		108	80 - 120	5	15
trans-1,4-Dichloro-2-butene	25.0	23.9		ug/L		96	41 - 131	9	20
Trichloroethene	25.0	27.7		ug/L		111	74 - 123	6	16
Trichlorofluoromethane	25.0	29.2		ug/L		117	62 - 150	6	20
Vinyl acetate	50.0	75.4	*+	ug/L		151	50 - 144	4	23
Vinyl chloride	25.0	22.2		ug/L		89	65 - 133	4	15

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Client: LAN Associates Inc Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
4-Bromofluorobenzene (Surr)	93		73 - 120
Toluene-d8 (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-639168/1-A

Matrix: Water

Analysis Batch: 639495

Client Sample ID: Method Blank **Prep Type: Total/NA**

Prep Batch: 639168

Job ID: 480-200962-1

7 min, 010 = 010 m	•								
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		08/26/22 09:20	08/29/22 00:51	1
Barium	ND		0.0020		mg/L		08/26/22 09:20	08/29/22 00:51	1
Boron	ND		0.020		mg/L		08/26/22 09:20	08/29/22 00:51	1
Chromium	ND		0.0040		mg/L		08/26/22 09:20	08/29/22 00:51	1
Lead	ND		0.010		mg/L		08/26/22 09:20	08/29/22 00:51	1
Manganese	ND		0.0030		mg/L		08/26/22 09:20	08/29/22 00:51	1
Potassium	ND		0.50		mg/L		08/26/22 09:20	08/29/22 00:51	1
Sodium	ND		1.0		mg/L		08/26/22 09:20	08/29/22 00:51	1
Selenium	ND		0.025		mg/L		08/26/22 09:20	08/29/22 00:51	1

Lab Sample ID: LCS 480-639168/2-A

Matrix: Water

Analysis Batch: 639495

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 639168

•	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	0.201	0.203		mg/L		101	80 - 120
Barium	0.200	0.206		mg/L		103	80 - 120
Boron	0.201	0.194		mg/L		97	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Lead	0.201	0.195		mg/L		97	80 - 120
Manganese	0.200	0.213		mg/L		107	80 - 120
Potassium	10.0	10.27		mg/L		103	80 - 120
Sodium	10.0	9.95		mg/L		99	80 - 120
Selenium	0.200	0.204		mg/L		102	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-639063/1-A

Matrix: Water

Analysis Batch: 639172

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 639063

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Mercury ND 0.00020 mg/L 08/25/22 10:05 08/25/22 14:20

Lab Sample ID: LCS 480-639063/2-A

Matrix: Water

Analysis Batch: 639172

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 639063

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Mercury 0.00667 0.00673 101 80 - 120 mg/L

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Client: LAN Associates Inc

Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-200962-1 MS

Matrix: Water

Analysis Batch: 639172

Client Sample ID: BR-1 Prep Type: Total/NA **Prep Batch: 639063** Sample Sample Spike MS MS %Rec

Result Qualifier Added Result Qualifier Unit D %Rec Limits Analyte 0.00667 Mercury ND 0.00672 mg/L 101 80 - 120

Lab Sample ID: 480-200962-1 MSD

Matrix: Water

Analyte

Mercury

Analysis Batch: 639172

Sample Sample Result Qualifier

ND

Spike Added 0.00667

0.00673

MSD MSD Result Qualifier

Unit D %Rec mg/L 101

Limits 80 - 120

%Rec

Client Sample ID: BR-1

Prep Type: Total/NA

Prep Batch: 639063

RPD Limit 0 20

RPD

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-640049/4

Matrix: Water

Analysis Batch: 640049

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/01/22 11:15	1
Chloride	ND		0.50		mg/L			09/01/22 11:15	1
Sulfate	ND		2.0		mg/L			09/01/22 11:15	1

Lab Sample ID: LCS 480-640049/5

Matrix: Water

Analysis Batch: 640049

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Analyzed

08/30/22 18:00

Prepared

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Dil Fac

Allalysis Batch. 040043	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Bromide	5.01	4.87		mg/L		97	90 - 110	
Chloride	50.1	49.81		mg/L		99	90 - 110	
Sulfate	50.0	49.97		mg/L		100	90 - 110	

RL

10.0

MDL Unit

mg/L

Method: 410.4 - COD

Lab Sample ID: MB 480-639758/51

Matrix: Water

Analysis Batch: 639758

MB MB

Result Qualifier Analyte Chemical Oxygen Demand ND

Lab Sample ID: LCS 480-639758/52 **Matrix: Water**

Analysis Batch: 639758

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chemical Oxygen Demand	25.0	24.09		mg/L		96	90 - 110

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Client: LAN Associates Inc

Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Method: 410.4 - COD (Continued)

Lab Sample ID: 480-200962-6 MS

Matrix: Water

Analysis Batch: 639758

Client Sample ID: Leachate Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Unit %Rec Limits Analyte Chemical Oxygen Demand 21.7 50.0 70.03 mg/L 97 75 - 125

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-639672/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 639672

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Prepared 10.0 **Total Dissolved Solids** ND mg/L 08/30/22 11:04

Lab Sample ID: LCS 480-639672/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 639672

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec Total Dissolved Solids 588 521.0 mg/L 89 85 - 115

Lab Sample ID: 480-200962-1 DU Client Sample ID: BR-1 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 639672

DU DU Sample Sample **RPD** RPD Analyte Result Qualifier Result Qualifier Unit D Limit Total Dissolved Solids 414 417.0 mg/L 0.7 10

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 480-638882/3 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 638882

MB MB

Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Cr (VI) ND 0.010 mg/L 08/24/22 10:47

Lab Sample ID: LCS 480-638882/4

Matrix: Water

Analysis Batch: 638882

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Cr (VI) 0.0500 0.0549 110 85 - 115 mg/L

Lab Sample ID: 480-200962-1 MS

Matrix: Water

Analysis Batch: 638882

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Limits Result Qualifier Unit %Rec Cr (VI) ND 0.0500 0.0524 85 - 115 mg/L 105

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Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: BR-1

Prep Type: Total/NA

Client: LAN Associates Inc

Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: 480-200962-1 MSD

Matrix: Water

Analysis Batch: 638882

Client Sample ID: BR-1 Prep Type: Total/NA RPD Sample Sample Spike MSD MSD %Rec

Result Qualifier Result Qualifier Added Unit %Rec Limits RPD Limit Analyte Cr (VI) ND 0.0500 0.0499 mg/L 100 85 - 115 5 15

Method: SM 5310C - TOC

Lab Sample ID: MB 480-639764/30 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 639764

MB MB

Result Qualifier RL **MDL** Unit D Analyzed Dil Fac Prepared 1.0 **Total Organic Carbon** ND mg/L 08/30/22 01:26

Lab Sample ID: MB 480-639764/6 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 639764

MB MB Result Qualifier RL **MDL** Unit D Dil Fac Analyte Prepared Analyzed **Total Organic Carbon** ND 1.0 mg/L 08/29/22 19:01

Lab Sample ID: LCS 480-639764/31 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 639764

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits **Total Organic Carbon** 60.0 103 90 - 110 61.71 mg/L

Lab Sample ID: LCS 480-639764/7 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 639764

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits Total Organic Carbon 60.0 62.06 103 90 - 110 mg/L

Lab Sample ID: 480-200962-2 MS Client Sample ID: MW-3R

Matrix: Water

Analysis Batch: 639764

Spike MS MS Sample Sample %Rec Result Qualifier Added %Rec Analyte Result Qualifier Unit Limits **Total Organic Carbon** 2.8 22.8 28.90 54 - 131 mg/L 115

Lab Sample ID: 480-200962-2 MSD Client Sample ID: MW-3R Prep Type: Total/NA

Matrix: Water

Analysis Batch: 639764

RPD Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit **Total Organic Carbon** 2.8 22.8 28.67 mg/L 114 54 - 131 20

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Prep Type: Total/NA

QC Association Summary

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

GC/MS VOA

Analysis Batch: 638802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	8260C	
480-200962-2	MW-3R	Total/NA	Water	8260C	
480-200962-3	MW-12	Total/NA	Water	8260C	
480-200962-4	MW-14N	Total/NA	Water	8260C	
480-200962-5	MW-5R	Total/NA	Water	8260C	
480-200962-6	Leachate	Total/NA	Water	8260C	
480-200962-7	Trip Blank	Total/NA	Water	8260C	
MB 480-638802/11	Method Blank	Total/NA	Water	8260C	
LCS 480-638802/8	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-638802/28	Lab Control Sample Dup	Total/NA	Water	8260C	

Metals

Prep Batch: 639063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	7470A	
480-200962-2	MW-3R	Total/NA	Water	7470A	
480-200962-3	MW-12	Total/NA	Water	7470A	
480-200962-4	MW-14N	Total/NA	Water	7470A	
480-200962-5	MW-5R	Total/NA	Water	7470A	
480-200962-6	Leachate	Total/NA	Water	7470A	
MB 480-639063/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-639063/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-200962-1 MS	BR-1	Total/NA	Water	7470A	
480-200962-1 MSD	BR-1	Total/NA	Water	7470A	

Prep Batch: 639168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	3005A	
480-200962-2	MW-3R	Total/NA	Water	3005A	
480-200962-3	MW-12	Total/NA	Water	3005A	
480-200962-4	MW-14N	Total/NA	Water	3005A	
480-200962-5	MW-5R	Total/NA	Water	3005A	
480-200962-6	Leachate	Total/NA	Water	3005A	
MB 480-639168/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-639168/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 639172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	7470A	639063
480-200962-2	MW-3R	Total/NA	Water	7470A	639063
480-200962-3	MW-12	Total/NA	Water	7470A	639063
480-200962-4	MW-14N	Total/NA	Water	7470A	639063
480-200962-5	MW-5R	Total/NA	Water	7470A	639063
480-200962-6	Leachate	Total/NA	Water	7470A	639063
MB 480-639063/1-A	Method Blank	Total/NA	Water	7470A	639063
LCS 480-639063/2-A	Lab Control Sample	Total/NA	Water	7470A	639063
480-200962-1 MS	BR-1	Total/NA	Water	7470A	639063
480-200962-1 MSD	BR-1	Total/NA	Water	7470A	639063

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QC Association Summary

Client: LAN Associates Inc Job ID: 480-200962-1 Project/Site: Witmer Road G/W

Metals

Analysis Batch: 639495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	6010C	639168
480-200962-2	MW-3R	Total/NA	Water	6010C	639168
480-200962-3	MW-12	Total/NA	Water	6010C	639168
480-200962-4	MW-14N	Total/NA	Water	6010C	639168
480-200962-5	MW-5R	Total/NA	Water	6010C	639168
480-200962-6	Leachate	Total/NA	Water	6010C	639168
MB 480-639168/1-A	Method Blank	Total/NA	Water	6010C	639168
LCS 480-639168/2-A	Lab Control Sample	Total/NA	Water	6010C	639168

General Chemistry

Analysis Batch: 638882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	SM 3500 CR B	-
480-200962-2	MW-3R	Total/NA	Water	SM 3500 CR B	
480-200962-3	MW-12	Total/NA	Water	SM 3500 CR B	
480-200962-4	MW-14N	Total/NA	Water	SM 3500 CR B	
480-200962-5	MW-5R	Total/NA	Water	SM 3500 CR B	
480-200962-6	Leachate	Total/NA	Water	SM 3500 CR B	
MB 480-638882/3	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 480-638882/4	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
480-200962-1 MS	BR-1	Total/NA	Water	SM 3500 CR B	
480-200962-1 MSD	BR-1	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 639672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	SM 2540C	
480-200962-2	MW-3R	Total/NA	Water	SM 2540C	
480-200962-3	MW-12	Total/NA	Water	SM 2540C	
480-200962-4	MW-14N	Total/NA	Water	SM 2540C	
480-200962-5	MW-5R	Total/NA	Water	SM 2540C	
480-200962-6	Leachate	Total/NA	Water	SM 2540C	
MB 480-639672/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-639672/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-200962-1 DU	BR-1	Total/NA	Water	SM 2540C	

Analysis Batch: 639758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	410.4	
480-200962-2	MW-3R	Total/NA	Water	410.4	
480-200962-3	MW-12	Total/NA	Water	410.4	
480-200962-4	MW-14N	Total/NA	Water	410.4	
480-200962-5	MW-5R	Total/NA	Water	410.4	
480-200962-6	Leachate	Total/NA	Water	410.4	
MB 480-639758/51	Method Blank	Total/NA	Water	410.4	
LCS 480-639758/52	Lab Control Sample	Total/NA	Water	410.4	
480-200962-6 MS	Leachate	Total/NA	Water	410.4	

Analysis Batch: 639764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	SM 5310C	

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Page 30 of 39

QC Association Summary

Client: LAN Associates Inc Job ID: 480-200962-1

Project/Site: Witmer Road G/W

General Chemistry (Continued)

Analysis Batch: 639764 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-2	MW-3R	Total/NA	Water	SM 5310C	
480-200962-3	MW-12	Total/NA	Water	SM 5310C	
480-200962-4	MW-14N	Total/NA	Water	SM 5310C	
480-200962-5	MW-5R	Total/NA	Water	SM 5310C	
480-200962-6	Leachate	Total/NA	Water	SM 5310C	
MB 480-639764/30	Method Blank	Total/NA	Water	SM 5310C	
MB 480-639764/6	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-639764/31	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-639764/7	Lab Control Sample	Total/NA	Water	SM 5310C	
480-200962-2 MS	MW-3R	Total/NA	Water	SM 5310C	
480-200962-2 MSD	MW-3R	Total/NA	Water	SM 5310C	

Analysis Batch: 640049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	300.0	
480-200962-2	MW-3R	Total/NA	Water	300.0	
480-200962-3	MW-12	Total/NA	Water	300.0	
480-200962-4	MW-14N	Total/NA	Water	300.0	
480-200962-5	MW-5R	Total/NA	Water	300.0	
480-200962-6	Leachate	Total/NA	Water	300.0	
MB 480-640049/4	Method Blank	Total/NA	Water	300.0	
LCS 480-640049/5	Lab Control Sample	Total/NA	Water	300.0	

Job ID: 480-200962-1

Client: LAN Associates Inc Project/Site: Witmer Road G/W

Date Received: 08/23/22 16:40

Client Sample ID: BR-1 Date Collected: 08/23/22 14:40 Lab Sample ID: 480-200962-1

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	638802	СВ	EET BUF	08/24/22 13:31
Total/NA	Prep	3005A			639168	NVK	EET BUF	08/26/22 09:20
Total/NA	Analysis	6010C		1	639495	BMB	EET BUF	08/29/22 01:07
Total/NA	Prep	7470A			639063	NVK	EET BUF	08/25/22 10:05
Total/NA	Analysis	7470A		1	639172	NVK	EET BUF	08/25/22 14:24
Total/NA	Analysis	300.0		5	640049	IMZ	EET BUF	09/01/22 16:50
Total/NA	Analysis	410.4		1	639758	CSS	EET BUF	08/30/22 18:00
Total/NA	Analysis	SM 2540C		1	639672	SAK	EET BUF	08/30/22 11:04
Total/NA	Analysis	SM 3500 CR B		1	638882	ARR	EET BUF	08/24/22 10:47
Total/NA	Analysis	SM 5310C		1	639764	KER	EET BUF	08/29/22 19:49

Client Sample ID: MW-3R

Date Collected: 08/23/22 15:20 Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-2

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	638802	СВ	EET BUF	08/24/22 13:56
Total/NA	Prep	3005A			639168	NVK	EET BUF	08/26/22 09:20
Total/NA	Analysis	6010C		1	639495	BMB	EET BUF	08/29/22 01:03
Total/NA	Prep	7470A			639063	NVK	EET BUF	08/25/22 10:05
Total/NA	Analysis	7470A		1	639172	NVK	EET BUF	08/25/22 14:29
Total/NA	Analysis	300.0		5	640049	IMZ	EET BUF	09/01/22 17:10
Total/NA	Analysis	410.4		1	639758	CSS	EET BUF	08/30/22 18:00
Total/NA	Analysis	SM 2540C		1	639672	SAK	EET BUF	08/30/22 11:04
Total/NA	Analysis	SM 3500 CR B		1	638882	ARR	EET BUF	08/24/22 10:47
Total/NA	Analysis	SM 5310C		1	639764	KER	EET BUF	08/29/22 20:36

Client Sample ID: MW-12 Date Collected: 08/23/22 13:47

Date Received: 08/23/22 16:40

Lab Sample ID	: 480-200962-3
---------------	----------------

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	638802	СВ	EET BUF	08/24/22 14:20
Total/NA	Prep	3005A			639168	NVK	EET BUF	08/26/22 09:20
Total/NA	Analysis	6010C		1	639495	BMB	EET BUF	08/29/22 01:26
Total/NA	Prep	7470A			639063	NVK	EET BUF	08/25/22 10:05
Total/NA	Analysis	7470A		1	639172	NVK	EET BUF	08/25/22 14:31
Total/NA	Analysis	300.0		5	640049	IMZ	EET BUF	09/01/22 17:29
Total/NA	Analysis	410.4		1	639758	CSS	EET BUF	08/30/22 18:00
Total/NA	Analysis	SM 2540C		1	639672	SAK	EET BUF	08/30/22 11:04
Total/NA	Analysis	SM 3500 CR B		1	638882	ARR	EET BUF	08/24/22 10:47
Total/NA	Analysis	SM 5310C		1	639764	KER	EET BUF	08/29/22 20:52

Eurofins Buffalo

Job ID: 480-200962-1

Client: LAN Associates Inc Project/Site: Witmer Road G/W

Client Sample ID: MW-14N

Lab Sample ID: 480-200962-4

Matrix: Water

Date Collected: 08/23/22 12:40 Date Received: 08/23/22 16:40

•	Dilution		Batch	Batch	
un Factor Number Analyst Lab or Analyzed	Factor	Run	Method	Type	Prep Type
1 638802 CB EET BUF 08/24/22 14:43	1		8260C	Analysis	Total/NA
639168 NVK EET BUF 08/26/22 09:20			3005A	Prep	Total/NA
1 639495 BMB EET BUF 08/29/22 01:22	1		6010C	Analysis	Total/NA
639063 NVK EET BUF 08/25/22 10:05			7470A	Prep	Total/NA
1 639172 NVK EET BUF 08/25/22 14:32	1		7470A	Analysis	Total/NA
5 640049 IMZ EET BUF 09/01/22 17:49	5		300.0	Analysis	Total/NA
1 639758 CSS EET BUF 08/30/22 18:00	1		410.4	Analysis	Total/NA
1 639672 SAK EET BUF 08/30/22 11:04	1		SM 2540C	Analysis	Total/NA
1 638882 ARR EET BUF 08/24/22 10:47	1		SM 3500 CR B	Analysis	Total/NA
1 639764 KER EET BUF 08/29/22 21:08	1		SM 5310C	Analysis	Total/NA
1 639172 NVK EET BUF 08/25/22 5 640049 IMZ EET BUF 09/01/22 1 639758 CSS EET BUF 08/30/22 1 639672 SAK EET BUF 08/30/22 1 638882 ARR EET BUF 08/24/22	5 1 1		7470A 300.0 410.4 SM 2540C SM 3500 CR B	Analysis Analysis Analysis Analysis Analysis	Total/NA Total/NA Total/NA Total/NA Total/NA

Client Sample ID: MW-5R

Date Collected: 08/23/22 11:20 Date Received: 08/23/22 16:40 Lab Sample ID: 480-200962-5

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	638802	СВ	EET BUF	08/24/22 15:07
Total/NA	Prep	3005A			639168	NVK	EET BUF	08/26/22 09:20
Total/NA	Analysis	6010C		1	639495	BMB	EET BUF	08/29/22 01:33
Total/NA	Prep	7470A			639063	NVK	EET BUF	08/25/22 10:05
Total/NA	Analysis	7470A		1	639172	NVK	EET BUF	08/25/22 14:55
Total/NA	Analysis	300.0		5	640049	IMZ	EET BUF	09/01/22 18:09
Total/NA	Analysis	410.4		1	639758	CSS	EET BUF	08/30/22 18:00
Total/NA	Analysis	SM 2540C		1	639672	SAK	EET BUF	08/30/22 11:04
Total/NA	Analysis	SM 3500 CR B		1	638882	ARR	EET BUF	08/24/22 10:47
Total/NA	Analysis	SM 5310C		1	639764	KER	EET BUF	08/29/22 21:24

Client Sample ID: Leachate

Date Collected: 08/23/22 12:22 Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-6

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	638802	СВ	EET BUF	08/24/22 15:31
Total/NA	Prep	3005A			639168	NVK	EET BUF	08/26/22 09:20
Total/NA	Analysis	6010C		1	639495	BMB	EET BUF	08/29/22 01:30
Total/NA	Prep	7470A			639063	NVK	EET BUF	08/25/22 10:05
Total/NA	Analysis	7470A		1	639172	NVK	EET BUF	08/25/22 14:56
Total/NA	Analysis	300.0		5	640049	IMZ	EET BUF	09/01/22 18:28
Total/NA	Analysis	410.4		1	639758	CSS	EET BUF	08/30/22 18:00
Total/NA	Analysis	SM 2540C		1	639672	SAK	EET BUF	08/30/22 11:04
Total/NA	Analysis	SM 3500 CR B		1	638882	ARR	EET BUF	08/24/22 10:47
Total/NA	Analysis	SM 5310C		1	639764	KER	EET BUF	08/29/22 22:12

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Lab Chronicle

Client: LAN Associates Inc Job ID: 480-200962-1

Project/Site: Witmer Road G/W

Client Sample ID: Trip Blank Lab Sample ID: 480-200962-7 Date Collected: 08/23/22 00:00

Matrix: Water

Date Received: 08/23/22 16:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	638802	СВ	EET BUF	08/24/22 15:55

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LAN Associates Inc Project/Site: Witmer Road G/W Job ID: 480-200962-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority New York		rogram	Identification Number	Expiration Date
		ELAP	10026	03-31-23
The following analyte:	s are included in this rep	ort, but the laboratory is i	not certified by the governing authority.	This list may include analytes for wh
The following analyte the agency does not o	·	ort, but the laboratory is i	not certified by the governing authority.	This list may include analytes for wh
	·	ort, but the laboratory is Matrix	not certified by the governing authority. Analyte	This list may include analytes for wh

Method Summary

Client: LAN Associates Inc Project/Site: Witmer Road G/W Job ID: 480-200962-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
300.0	Anions, Ion Chromatography	MCAWW	EET BUF
110.4	COD	MCAWW	EET BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET BUF
SM 3500 CR B	Chromium, Hexavalent	SM	EET BUF
SM 5310C	TOC	SM	EET BUF
3005A	Preparation, Total Metals	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Eurofins Buffalo

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Sample Summary

Matrix

Water

Water

Water

Water

Water

Water

Water

Collected

Received

08/23/22 14:40 08/23/22 16:40

08/23/22 15:20 08/23/22 16:40

08/23/22 13:47 08/23/22 16:40

08/23/22 12:40 08/23/22 16:40

08/23/22 11:20 08/23/22 16:40 08/23/22 12:22 08/23/22 16:40

08/23/22 00:00 08/23/22 16:40

Client: LAN Associates Inc Project/Site: Witmer Road G/W

BR-1

MW-3R

MW-12

MW-14N

MW-5R

Leachate

Trip Blank

Lab Sample ID

480-200962-1

480-200962-2

480-200962-3

480-200962-4

480-200962-5

480-200962-6

480-200962-7

Client Sample ID

Job ID: 480-200962-1

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Client Information	Sampler:	174		Lab PM Hartm	ann, S	teve						Carrier Tr	acking N	o(s):			OC No: 180-175852-	34887.1		
hent Contact:		473-	SIEC	E-Mail:			4				\neg	State of C	Origin:			F	Page:	0.1007.1		
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ddress: PO BOX 217	Due Date Requeste	STE	>		1.												Preservation A - HCL	M - He		
aly: Calvert City	TAT Requested (da	ys):												Ι,	_		B - NaOH	N - No O - As		
tate, Zip:	Compliance Project	1: A Yes	^ No									,	1111111							
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104-343-3087(Tel) 904-824-0726(Fax)	Purchase Order Wo#:	not require	d		or No)		_			Solids	pH,Cond,Temp,Turb		1111						cahyo	drate
joiner@ccmetals.com					20 05		Demand			S pe	ond,		480-	20096	2 Cha	in of	Custody			
Project Name: Nitmer Road G/W/ Event Desc: Witmer Road G/W	Project #: 48003429				e (Yes	4	e De		4.2	Issolv	pH,C	1	1 1						aify)	
Site:	SSOW#:				d O	CI, SO4	Oxygen		OLM0	tal Die	- (MOD)	5				of cor	Other:			
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab) B		Field Filtered S	300.0_28D - Br, C	410.4 - Chemical	O 6010C, 7470A	8260C - T	1	Z FieldSampling - (Z 3500_CR_B - Cr (VI)				X Total Number o	Speci	al Instruct	ions/Note	Đ:
BR-1	8-57-55	111110		Water	\sim	X	N,	VA	A	N	N -	X								
MW-3R	3-070	1500		Water		Y	9		1	17	-		-			10				
		1520				٨	<u> </u>	XX	()	(X	-	X	+-	\vdash	-	4				
MW-12		1347		Water		X	K	K	(K	. 1	-	X	\perp	1	-	10				
MW-14N		1240		Water		x	X	(1		X				0				
MW-5R		1/20		Water		X	X	K !	1	< X	1-	X				10				
Leachate	4	1222	4	Water		X	X	X	7	r/ t	-	*				0				
SW-1				Water			-	-	_				-		-		> DRY	100 50	mole	
Trip Blank		_	_	Water		_	-	-	-)	X ·						4				
				Water																
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)	Poison B Unk	nown	Radiological		l	\square_R	eturn	To Couctions	lient		A	Disposa					ed longer th		th) lonths	
Empty Kit Relinquished by:		Date:			Time:						,	N	lethod of	Shipme	ent:					
Relinquished by:	Date/Time:	22/16	40	B+4 Company			ived b	1	1	1	多		>	Date/	7	13	3/22	Ka Com	pany	
Relinquished by: Custody Seals Intact: Custody Seal No.: Δ Yes Δ No	Date/Time:			Company			er Ten	nperatu	re(s) °(C and C	Mhas F) amada		Date/			T#1		ipany	

Client: LAN Associates Inc Job Number: 480-200962-1

List Source: Eurofins Buffalo

List Number: 1

Creator: Stopa, Erik S

Login Number: 200962

Creator: Stopa, Erik S		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	B+L
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

2023 Laboratory Analytical Report

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Chris L. Callegari LAN Associates Inc 200 Malaga Street Suite 3 St. Augustine, Florida 32084 Generated 8/4/2023 11:00:26 AM

JOB DESCRIPTION

Witmer Road G/W

JOB NUMBER

480-210992-1

Eurofins Buffalo 10 Hazelwood Drive Amherst NY 14228-2298



Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

Generated 8/4/2023 11:00:26 AM

Authorized for release by Judy Stone, Senior Project Manager Judy.Stone@et.eurofinsus.com Designee for

Brian Fischer, Manager of Project Management Brian.Fischer@et.eurofinsus.com

(716)504-9835

Laboratory Job ID: 480-210992-1

Client: LAN Associates Inc Project/Site: Witmer Road G/W

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Definitions/Glossary

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Qualifiers

GC/MS VOA Qualifier **Qualifier Description**

*+ LCS and/or LCSD is outside acceptance limits, high biased.

*1 LCS/LCSD RPD exceeds control limits.

Metals

Qualifier **Qualifier Description**

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

General Chemistry

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid **CFU** Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Buffalo

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Case Narrative

Client: LAN Associates Inc Project/Site: Witmer Road G/W Job ID: 480-210992-1

Job ID: 480-210992-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-210992-1

Receipt

The samples were received on 7/19/2023 3:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.4° C.

GC/MS VOA

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 480-677048 recovered outside control limits for the following analytes: Bromoform and trans-1,4-Dichloro-2-butene.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-677048 recovered above the upper cont limit for 2-Butanone (MEK), Acetonitrile, Chloromethane, Methylene Chloride, Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted MW-BR-1 (480-210992-1), MW-3R (480-210992-2), MW-12 (480-210992-3), MW-14N (480-210992-4), MW-5R (480-210992-5) LS-1 (480-210992-6) and Trip Blank (480-210992-7).

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-677048 recovered outside control limits for the following analytes: cis-1,3-Dichloropropene, Chloromethane and 1,1-Dichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone and 2-Chloro-1,3-butadiene with Vinyl acetate in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 677048. The following samples were affected: MW-BR-1 (480-210992-1), MW-3R (480-210992-2), MW-12 (480-210992-3), MW-14N (480-210992-4), MW-5R (480-210992-5), LS-1 (480-210992-6) and Trip Blar (480-210992-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-BR-1 (480-210992-1), MW-3R (480-210992-2), MW-12 (480-210992-3), MW-14N (480-210992-4), MW-5R (480-210992-5) LS-1 (480-210992-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Client: LAN Associates Inc Job ID: 480-210992-1
Project/Site: Witmer Road G/W

Client Sample ID: MW-BR-1

Lab Sample ID: 480-210992-1

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.0	1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	3.4	1.0		ug/L	1		8260C	Total/NA
Barium	0.11	0.0020		mg/L	1		6010C	Total/NA
Boron	0.11	0.020		mg/L	1		6010C	Total/NA
Manganese	0.20	0.0030		mg/L	1		6010C	Total/NA
Potassium	5.1	0.50		mg/L	1		6010C	Total/NA
Sodium	99.2	1.0		mg/L	1		6010C	Total/NA
Chloride	162	2.5		mg/L	5		300.0	Total/NA
Sulfate	90.9	10.0		mg/L	5		300.0	Total/NA
Total Dissolved Solids	777	10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	3.3	1.0		mg/L	1		SM 5310C	Total/NA
Field EH/ORP	-126			millivolts	1		Field Sampling	Total/NA
pH, Field	7.52			SU	1		Field Sampling	Total/NA
Specific Conductance	1281			umhos/cm	1		Field Sampling	Total/NA
Temperature, Field (C)	56.1			Degrees F	1		Field Sampling	Total/NA
Turbidity, Field	2.17			NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-3R

Lab Sample ID: 480-210992-2

Analyte	Result C	Qualifier RL	MDL Unit	Dil Fac	D	Method	Prep Type
Barium	0.037	0.0020	mg/L	1		6010C	Total/NA
Boron	0.14	0.020	mg/L	1		6010C	Total/NA
Manganese	0.089	0.0030	mg/L	1		6010C	Total/NA
Potassium	0.83	0.50	mg/L	. 1		6010C	Total/NA
Sodium	47.1	1.0	mg/L	1		6010C	Total/NA
Chloride	72.7	2.5	mg/L	. 5		300.0	Total/NA
Sulfate	162	10.0	mg/L	5		300.0	Total/NA
Total Dissolved Solids	896	10.0	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.9	1.0	mg/L	1		SM 5310C	Total/NA
Field EH/ORP	27		milliv	olts 1		Field Sampling	Total/NA
pH, Field	8.90		SU	1		Field Sampling	Total/NA
Specific Conductance	1300		umho	os/cm 1		Field Sampling	Total/NA
Temperature, Field (C)	59.5		Degr	ees F 1		Field Sampling	Total/NA
Turbidity, Field	2.34		NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 480-210992-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.1		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	18		1.0		ug/L	1		8260C	Total/NA
Barium	0.048		0.0020		mg/L	1		6010C	Total/NA
Boron	0.16		0.020		mg/L	1		6010C	Total/NA
Manganese	0.22		0.0030		mg/L	1		6010C	Total/NA
Potassium	4.1		0.50		mg/L	1		6010C	Total/NA
Sodium	82.6		1.0		mg/L	1		6010C	Total/NA
Chloride	126		2.5		mg/L	5		300.0	Total/NA
Sulfate	109		10.0		mg/L	5		300.0	Total/NA
Total Dissolved Solids	869		10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	3.0		1.0		mg/L	1		SM 5310C	Total/NA
Field EH/ORP	77				millivolts	1		Field Sampling	Total/NA
pH, Field	8.08				SU	1		Field Sampling	Total/NA
Specific Conductance	1307				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: LAN Associates Inc Project/Site: Witmer Road G/W

Client Sample ID: MW-12 (Continued)

Lab Sample ID: 480-210992-3

Job ID: 480-210992-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Temperature, Field (C)	56.3				Degrees F	1		Field Sampling	Total/NA
Turbidity, Field	10.40				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-14N

Lab Sample ID: 480-210992-4

Analyte	Result	Qualifier RL	MDL Unit	Dil Fac I	O Method	Prep Type
cis-1,2-Dichloroethene	21	1.0	ug/L	1	8260C	Total/NA
Vinyl chloride	3.6	1.0	ug/L	1	8260C	Total/NA
Barium	0.12	0.0020	mg/L	1	6010C	Total/NA
Boron	0.11	0.020	mg/L	1	6010C	Total/NA
Manganese	0.16	0.0030	mg/L	1	6010C	Total/NA
Potassium	2.6	0.50	mg/L	1	6010C	Total/NA
Sodium	83.0	1.0	mg/L	1	6010C	Total/NA
Chloride	121	2.5	mg/L	5	300.0	Total/NA
Sulfate	214	10.0	mg/L	5	300.0	Total/NA
Total Dissolved Solids	1110	10.0	mg/L	1	SM 2540C	Total/NA
Total Organic Carbon	3.2	1.0	mg/L	1	SM 5310C	Total/NA
Field EH/ORP	-16		millivolts	1	Field Sampling	Total/NA
pH, Field	7.53		SU	1	Field Sampling	Total/NA
Specific Conductance	1488		umhos/cm	1	Field Sampling	Total/NA
Temperature, Field (C)	57.2		Degrees F	1	Field Sampling	Total/NA
Turbidity, Field	6.40		NTU	1	Field Sampling	Total/NA

Client Sample ID: MW-5R

Lab Sample ID: 480-210992-5

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac I	O Method	Prep Type
Vinyl chloride	1.1	1.0	ug/L	1	8260C	Total/NA
Barium	0.083	0.0020	mg/L	1	6010C	Total/NA
Boron	0.19	0.020	mg/L	1	6010C	Total/NA
Manganese	0.12	0.0030	mg/L	1	6010C	Total/NA
Potassium	22.2	0.50	mg/L	1	6010C	Total/NA
Sodium	71.9	1.0	mg/L	1	6010C	Total/NA
Bromide	1.1	1.0	mg/L	5	300.0	Total/NA
Chloride	89.4	2.5	mg/L	5	300.0	Total/NA
Sulfate	155	10.0	mg/L	5	300.0	Total/NA
Chemical Oxygen Demand	17.4	10.0	mg/L	1	410.4	Total/NA
Total Dissolved Solids	664	10.0	mg/L	1	SM 2540C	Total/NA
Total Organic Carbon	6.7	1.0	mg/L	1	SM 5310C	Total/NA
Field EH/ORP	67		millivolts	1	Field Sampling	Total/NA
pH, Field	9.10		SU	1	Field Sampling	Total/NA
Specific Conductance	957		umhos/cm	1	Field Sampling	Total/NA
Temperature, Field (C)	56.6		Degrees F	1	Field Sampling	Total/NA
Turbidity, Field	4.20		NTU	1	Field Sampling	Total/NA

Client Sample ID: LS-1

Lab Sample ID: 480-210992-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.069		0.0020		mg/L	1		6010C	Total/NA
Boron	0.44		0.020		mg/L	1		6010C	Total/NA
Chromium	0.041		0.0040		mg/L	1		6010C	Total/NA
Potassium	91.7		0.50		mg/L	1		6010C	Total/NA
Sodium	74.1		1.0		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Client Sample ID: LS-1 (Continued)

Lab Sample ID: 480-210992-6

Analyte	Result Qual	lifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromide	2.0	1.0		mg/L	5		300.0	Total/NA
Chloride	122	2.5		mg/L	5		300.0	Total/NA
Sulfate	165	10.0		mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	29.3	10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	869	10.0		mg/L	1		SM 2540C	Total/NA
Cr (VI)	0.031	0.010		mg/L	1		SM 3500 CR B	Total/NA
Total Organic Carbon	9.0	1.0		mg/L	1		SM 5310C	Total/NA
Field EH/ORP	126			millivolts	1		Field Sampling	Total/NA
pH, Field	9.13			SU	1		Field Sampling	Total/NA
Specific Conductance	1297			umhos/cm	1		Field Sampling	Total/NA
Temperature, Field (C)	62.9			Degrees F	1		Field Sampling	Total/NA
Turbidity, Field	2.76			NTU	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank

No Detections.

Lab Sample ID: 480-210992-7

This Detection Summary does not include radiochemical test results.

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-BR-1 Lab Sample ID: 480-210992-1

. Matrix: Water

Date Collected: 07/19/23 11:48 Date Received: 07/19/23 15:15

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND ND	1.0	ug/L			07/20/23 12:36	
1,1,1-Trichloroethane	ND	1.0	ug/L			07/20/23 12:36	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L			07/20/23 12:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L			07/20/23 12:36	
1,1,2-Trichloroethane	ND	1.0	ug/L			07/20/23 12:36	
1,1-Dichloroethane	ND *+	1.0	ug/L			07/20/23 12:36	
1,1-Dichloroethene	ND 1	1.0	ug/L			07/20/23 12:36	
1,2,3-Trichloropropane	ND	1.0	ug/L			07/20/23 12:36	
	ND		_			07/20/23 12:36	
1,2,4-Trichlorobenzene	ND ND	1.0	ug/L			07/20/23 12:36	
1,2-Dibromo-3-Chloropropane		1.0	ug/L				
1,2-Dibromoethane	ND	1.0	ug/L			07/20/23 12:36	
1,2-Dichlorobenzene	ND	1.0	ug/L			07/20/23 12:36	
1,2-Dichloroethane	ND	1.0	ug/L			07/20/23 12:36	
1,2-Dichloropropane	ND	1.0	ug/L			07/20/23 12:36	
1,3-Dichlorobenzene	ND	1.0	ug/L			07/20/23 12:36	
1,4-Dichlorobenzene	ND	1.0	ug/L			07/20/23 12:36	
2-Butanone (MEK)	ND *+	10	ug/L			07/20/23 12:36	
2-Hexanone	ND	5.0	ug/L			07/20/23 12:36	
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L			07/20/23 12:36	
Acetone	ND	10	ug/L			07/20/23 12:36	
Acetonitrile	ND	15	ug/L			07/20/23 12:36	
Benzene	ND	1.0	ug/L			07/20/23 12:36	
Bromochloromethane	ND	1.0	ug/L			07/20/23 12:36	
Bromodichloromethane	ND	1.0	ug/L			07/20/23 12:36	
Bromoform	ND *1	1.0	ug/L			07/20/23 12:36	
Bromomethane	ND	1.0	ug/L			07/20/23 12:36	
Carbon disulfide	ND	1.0	ug/L			07/20/23 12:36	
Carbon tetrachloride	ND	1.0	ug/L			07/20/23 12:36	
Chlorobenzene	ND	1.0	ug/L			07/20/23 12:36	
Chloroethane	ND	1.0	ug/L			07/20/23 12:36	
Chloroform	ND	1.0	ug/L			07/20/23 12:36	
Chloromethane	ND *+	1.0	ug/L			07/20/23 12:36	
	1.0	1.0	_			07/20/23 12:36	
cis-1,2-Dichloroethene cis-1,3-Dichloropropene	ND *+	1.0	ug/L			07/20/23 12:36	
• •	ND +		ug/L				
Cyclohexane Dibromochloromethane		1.0	ug/L			07/20/23 12:36	
	ND	1.0	ug/L			07/20/23 12:36	
Dibromomethane	ND	1.0	ug/L			07/20/23 12:36	
Dichlorodifluoromethane	ND	1.0	ug/L			07/20/23 12:36	
Ethylbenzene	ND	1.0	ug/L			07/20/23 12:36	
odomethane	ND	1.0	ug/L			07/20/23 12:36	
sopropylbenzene	ND	1.0	ug/L			07/20/23 12:36	
n,p-Xylene	ND	2.0	ug/L			07/20/23 12:36	
Methyl acetate	ND	2.5	ug/L			07/20/23 12:36	
Methylcyclohexane	ND	1.0	ug/L			07/20/23 12:36	
Methylene Chloride	ND	1.0	ug/L			07/20/23 12:36	
o-Xylene	ND	1.0	ug/L			07/20/23 12:36	
Styrene	ND	1.0	ug/L			07/20/23 12:36	
Tetrachloroethene	ND	1.0	ug/L			07/20/23 12:36	
Toluene	ND	1.0	ug/L			07/20/23 12:36	

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Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-BR-1

Lab Sample ID: 480-210992-1 Date Collected: 07/19/23 11:48

Date Received: 07/19/23 15:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/20/23 12:36	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/20/23 12:36	1
trans-1,4-Dichloro-2-butene	ND	*1	1.0		ug/L			07/20/23 12:36	1
Trichloroethene	ND		1.0		ug/L			07/20/23 12:36	1
Trichlorofluoromethane	ND		1.0		ug/L			07/20/23 12:36	1
Vinyl acetate	ND	*+	5.0		ug/L			07/20/23 12:36	1
Vinyl chloride	3.4		1.0		ug/L			07/20/23 12:36	1
Xylenes, Total	ND		2.0		ug/L			07/20/23 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					07/20/23 12:36	1
4-Bromofluorobenzene (Surr)	82		73 - 120					07/20/23 12:36	1
Toluene-d8 (Surr)	85		80 - 120					07/20/23 12:36	1
Dibromofluoromethane (Surr)	98		75 - 123					07/20/23 12:36	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		07/21/23 08:33	07/21/23 21:51	1
Barium	0.11		0.0020		mg/L		07/21/23 08:33	07/21/23 21:51	1
Boron	0.11		0.020		mg/L		07/21/23 08:33	07/21/23 21:51	1
Chromium	ND		0.0040		mg/L		07/21/23 08:33	07/21/23 21:51	1
Lead	ND		0.010		mg/L		07/21/23 08:33	07/21/23 21:51	1
Manganese	0.20		0.0030		mg/L		07/21/23 08:33	07/21/23 21:51	1
Potassium	5.1		0.50		mg/L		07/21/23 08:33	07/21/23 21:51	1
Sodium	99.2		1.0		mg/L		07/21/23 08:33	07/21/23 21:51	1
Selenium	ND		0.025		mg/L		07/21/23 08:33	07/21/23 21:51	1

Method: SW846 7470A - Me	ercury (CVAA)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	0.00020		mg/L		07/20/23 11:32	07/20/23 15:21	1
General Chemistry								

General Chemistry								
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		1.0	mg/l	_		07/25/23 21:58	5
Chloride (EPA 300.0)	162		2.5	mg/l	_		07/25/23 21:58	5
Sulfate (EPA 300.0)	90.9		10.0	mg/l	_		07/25/23 21:58	5
Chemical Oxygen Demand (EPA 410.4)	ND		10.0	mg/l	_		07/26/23 02:14	1
Total Dissolved Solids (SM 2540C)	777		10.0	mg/l	_		07/24/23 16:28	1
Cr (VI) (SM 3500 CR B)	ND		0.010	mg/l	_		07/19/23 15:43	1
Total Organic Carbon (SM 5310C)	3.3		1.0	mg/l	_		07/25/23 07:37	1

Method: EPA Field Samplin Analyte	Result Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	-126			millivolts			07/19/23 11:48	1
pH, Field	7.52			SU			07/19/23 11:48	1
Specific Conductance	1281			umhos/cm			07/19/23 11:48	1
Temperature, Field (C)	56.1			Degrees F			07/19/23 11:48	1
Turbidity, Field	2.17			NTU			07/19/23 11:48	1

Matrix: Water

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-3R Lab Sample ID: 480-210992-2 Date Collected: 07/19/23 13:55

Matrix: Water

Date Received: 07/19/23 15:15

Analyte	e Organic Compou Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND The state of th	1.0	ug/L		,	07/20/23 13:00	
I,1,1-Trichloroethane	ND	1.0	ug/L			07/20/23 13:00	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L			07/20/23 13:00	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L			07/20/23 13:00	
1,1,2-Trichloroethane	ND	1.0	ug/L			07/20/23 13:00	
I,1-Dichloroethane	ND *+	1.0	ug/L			07/20/23 13:00	
I,1-Dichloroethene	ND	1.0	ug/L			07/20/23 13:00	
I,2,3-Trichloropropane	ND	1.0	ug/L			07/20/23 13:00	
1,2,4-Trichlorobenzene	ND	1.0	ug/L			07/20/23 13:00	
I,2-Dibromo-3-Chloropropane	ND	1.0	ug/L			07/20/23 13:00	
• •							
I,2-Dibromoethane	ND	1.0	ug/L			07/20/23 13:00	
I,2-Dichlorobenzene	ND	1.0	ug/L			07/20/23 13:00	
I,2-Dichloroethane	ND	1.0	ug/L			07/20/23 13:00	
I,2-Dichloropropane	ND	1.0	ug/L			07/20/23 13:00	
1,3-Dichlorobenzene	ND	1.0	ug/L			07/20/23 13:00	
I,4-Dichlorobenzene	ND	1.0	ug/L			07/20/23 13:00	
2-Butanone (MEK)	ND *+	10	ug/L			07/20/23 13:00	
2-Hexanone	ND	5.0	ug/L			07/20/23 13:00	
I-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L			07/20/23 13:00	
Acetone	ND	10	ug/L			07/20/23 13:00	
Acetonitrile	ND	15	ug/L			07/20/23 13:00	
Benzene	ND	1.0	ug/L			07/20/23 13:00	
Bromochloromethane	ND	1.0	ug/L			07/20/23 13:00	
Bromodichloromethane	ND	1.0	ug/L			07/20/23 13:00	
Bromoform	ND *1	1.0	ug/L			07/20/23 13:00	
Bromomethane	ND	1.0	ug/L			07/20/23 13:00	
Carbon disulfide	ND	1.0	ug/L			07/20/23 13:00	
Carbon tetrachloride	ND	1.0	ug/L			07/20/23 13:00	
Chlorobenzene	ND	1.0	ug/L			07/20/23 13:00	
Chloroethane	ND	1.0	ug/L			07/20/23 13:00	
Chloroform	ND	1.0	ug/L			07/20/23 13:00	
Chloromethane	ND *+	1.0	ug/L			07/20/23 13:00	
cis-1,2-Dichloroethene	ND	1.0	ug/L			07/20/23 13:00	
sis-1,3-Dichloropropene	ND *+	1.0	ug/L			07/20/23 13:00	
Cyclohexane	ND	1.0	ug/L			07/20/23 13:00	
Dibromochloromethane	ND	1.0	ug/L			07/20/23 13:00	
Dibromomethane	ND	1.0	ug/L			07/20/23 13:00	
Dichlorodifluoromethane	ND	1.0	ug/L			07/20/23 13:00	
	ND ND	1.0	-			07/20/23 13:00	
Ethylbenzene odomethane	ND ND	1.0	ug/L			07/20/23 13:00	
			ug/L				
sopropylbenzene	ND	1.0	ug/L			07/20/23 13:00	
n,p-Xylene	ND	2.0	ug/L			07/20/23 13:00	
Methyl acetate	ND	2.5	ug/L			07/20/23 13:00	
Methylcyclohexane	ND	1.0	ug/L			07/20/23 13:00	
Methylene Chloride	ND	1.0	ug/L			07/20/23 13:00	
p-Xylene	ND	1.0	ug/L			07/20/23 13:00	
Styrene	ND	1.0	ug/L			07/20/23 13:00	
Tetrachloroethene	ND	1.0	ug/L			07/20/23 13:00	

Eurofins Buffalo

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-3R Lab Sample ID: 480-210992-2 Date Collected: 07/19/23 13:55 **Matrix: Water**

Date Received: 07/19/23 15:15

Turbidity, Field

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/20/23 13:00	
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/20/23 13:00	•
trans-1,4-Dichloro-2-butene	ND	*1	1.0		ug/L			07/20/23 13:00	
Trichloroethene	ND		1.0		ug/L			07/20/23 13:00	
Trichlorofluoromethane	ND		1.0		ug/L			07/20/23 13:00	
Vinyl acetate	ND	*+	5.0		ug/L			07/20/23 13:00	
Vinyl chloride	ND		1.0		ug/L			07/20/23 13:00	
Xylenes, Total	ND		2.0		ug/L			07/20/23 13:00	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					07/20/23 13:00	
4-Bromofluorobenzene (Surr)	82		73 - 120					07/20/23 13:00	
Toluene-d8 (Surr)	86		80 - 120					07/20/23 13:00	
Dibromofluoromethane (Surr)	96		75 - 123					07/20/23 13:00	
Method: SW846 6010C - Metals	(ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Arsenic	ND		0.015		mg/L		07/21/23 08:33	07/21/23 22:21	
Barium	0.037		0.0020		mg/L		07/21/23 08:33	07/21/23 22:21	
Boron	0.14		0.020		mg/L		07/21/23 08:33	07/21/23 22:21	
Chromium	ND		0.0040		mg/L		07/21/23 08:33	07/21/23 22:21	
Lead	ND		0.010		mg/L		07/21/23 08:33	07/21/23 22:21	
Manganese	0.089		0.0030		mg/L		07/21/23 08:33	07/21/23 22:21	
Potassium	0.83		0.50		mg/L		07/21/23 08:33	07/21/23 22:21	
Sodium	47.1		1.0		mg/L		07/21/23 08:33	07/21/23 22:21	
Selenium	ND		0.025		mg/L		07/21/23 08:33	07/21/23 22:21	
Method: SW846 7470A - Mercur	y (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	ND		0.00020		mg/L		07/20/23 11:32	07/20/23 15:23	•
General Chemistry									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Bromide (EPA 300.0)	ND		1.0		mg/L			07/25/23 23:56	
Chloride (EPA 300.0)	72.7		2.5		mg/L			07/25/23 23:56	
Sulfate (EPA 300.0)	162		10.0		mg/L			07/25/23 23:56	,
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			07/26/23 02:17	
Total Dissolved Solids (SM 2540C)	896		10.0		mg/L			07/24/23 16:28	
Cr (VI) (SM 3500 CR B)	ND		0.010		mg/L			07/19/23 15:43	
Total Organic Carbon (SM 5310C)	2.9		1.0		mg/L			07/25/23 08:36	
Method: EPA Field Sampling - F		_							
Analyte		Qualifier	NONE	NONE		D	Prepared	Analyzed	Dil Fa
Field EH/ORP	27				millivolts			07/19/23 13:55	
pH, Field	8.90				SU			07/19/23 13:55	•
Specific Conductance	1300				umhos/cm			07/19/23 13:55	•
Temperature, Field (C)	59.5				Degrees F			07/19/23 13:55	•

07/19/23 13:55

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NTU

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Date Received: 07/19/23 15:15

Lab Sample ID: 480-210992-3 Client Sample ID: MW-12 Date Collected: 07/19/23 11:37

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS Result Qualifier **MDL** Unit D Dil Fac Analyte Prepared Analyzed 07/20/23 13:24 1,1,1,2-Tetrachloroethane ND 1.0 ug/L ND 07/20/23 13:24 1,1,1-Trichloroethane 1.0 ug/L 1,1,2,2-Tetrachloroethane ND 1.0 ug/L 07/20/23 13:24 1,1,2-Trichloro-1,2,2-trifluoroethane ND 07/20/23 13:24 1.0 ug/L 1.1.2-Trichloroethane ND 1.0 ug/L 07/20/23 13:24 1,1-Dichloroethane ND *+ 1.0 ug/L 07/20/23 13:24 1,1-Dichloroethene ND 1.0 ug/L 07/20/23 13:24 1,2,3-Trichloropropane ND 1.0 ug/L 07/20/23 13:24 1,2,4-Trichlorobenzene ND 1.0 ug/L 07/20/23 13:24 1,2-Dibromo-3-Chloropropane ND 1.0 ug/L 07/20/23 13:24 1,2-Dibromoethane ND 1.0 ug/L 07/20/23 13:24 1.2-Dichlorobenzene ND 1.0 ug/L 07/20/23 13:24 1 1,2-Dichloroethane ND 1.0 ug/L 07/20/23 13:24 1,2-Dichloropropane ND 1.0 ug/L 07/20/23 13:24 ND 1,3-Dichlorobenzene 1.0 ug/L 07/20/23 13:24 1,4-Dichlorobenzene ND 1.0 ug/L 07/20/23 13:24 2-Butanone (MEK) ND 10 ug/L 07/20/23 13:24 2-Hexanone ND 5.0 ug/L 07/20/23 13:24 4-Methyl-2-pentanone (MIBK) ND 5.0 ug/L 07/20/23 13:24 Acetone ND 10 ug/L 07/20/23 13:24 Acetonitrile ND 15 ug/L 07/20/23 13:24 Benzene ND 1.0 ug/L 07/20/23 13:24 1 Bromochloromethane ND 1.0 ug/L 07/20/23 13:24 Bromodichloromethane ND 1.0 ug/L 07/20/23 13:24 Bromoform ND 1.0 ug/L 07/20/23 13:24 Bromomethane ND ug/L 1.0 07/20/23 13:24 Carbon disulfide ND 1.0 ug/L 07/20/23 13:24 Carbon tetrachloride ND ug/L 07/20/23 13:24 1.0 Chlorobenzene ND ug/L 07/20/23 13:24 1.0 Chloroethane ND 1.0 ug/L 07/20/23 13:24 Chloroform ND 1.0 ug/L 07/20/23 13:24 Chloromethane ND 1.0 ug/L 07/20/23 13:24 cis-1,2-Dichloroethene 3.1 1.0 ug/L 07/20/23 13:24 07/20/23 13:24 cis-1,3-Dichloropropene NΠ 10 ug/L Cyclohexane ND 1.0 ug/L 07/20/23 13:24 Dibromochloromethane ND 1.0 ug/L 07/20/23 13:24 Dibromomethane ND 1.0 ug/L 07/20/23 13:24 Dichlorodifluoromethane ND 1.0 ug/L 07/20/23 13:24 Ethylbenzene ND ug/L 07/20/23 13:24 1.0 Iodomethane ND 1.0 ug/L 07/20/23 13:24 Isopropylbenzene ND 1.0 ug/L 07/20/23 13:24 m,p-Xylene ND 2.0 ug/L 07/20/23 13:24 ND 2.5 07/20/23 13:24 Methyl acetate ug/L Methylcyclohexane ND ug/L 07/20/23 13:24 1.0 Methylene Chloride ND ug/L 07/20/23 13:24 1.0 o-Xylene ND 1.0 ug/L 07/20/23 13:24 Styrene ND 1.0 ug/L 07/20/23 13:24 Tetrachloroethene ND 1.0 ug/L 07/20/23 13:24 Toluene ND 1.0 ug/L 07/20/23 13:24

Eurofins Buffalo

8/4/2023

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-12
Date Collected: 07/19/23 11:37

Lab Sample ID: 480-210992-3
Matrix: Water

Date Received: 07/19/23 15:15

Turbidity, Field

Method: SW846 8260C - Volati Analyte	_	Qualifier	RL	•	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/20/23 13:24	
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/20/23 13:24	1
trans-1,4-Dichloro-2-butene	ND	*1	1.0		ug/L			07/20/23 13:24	1
Trichloroethene	ND		1.0		ug/L			07/20/23 13:24	1
Trichlorofluoromethane	ND		1.0		ug/L			07/20/23 13:24	1
Vinyl acetate	ND	*+	5.0		ug/L			07/20/23 13:24	1
Vinyl chloride	18		1.0		ug/L			07/20/23 13:24	1
Xylenes, Total	ND		2.0		ug/L			07/20/23 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					07/20/23 13:24	1
4-Bromofluorobenzene (Surr)	82		73 - 120					07/20/23 13:24	1
Toluene-d8 (Surr)	85		80 - 120					07/20/23 13:24	1
Dibromofluoromethane (Surr)	98		75 - 123					07/20/23 13:24	1
Method: SW846 6010C - Metals	s (ICP)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		07/21/23 08:33	07/21/23 22:25	1
Barium	0.048		0.0020		mg/L		07/21/23 08:33	07/21/23 22:25	1
Boron	0.16		0.020		mg/L		07/21/23 08:33	07/21/23 22:25	1
Chromium	ND		0.0040		mg/L		07/21/23 08:33	07/21/23 22:25	1
Lead	ND		0.010		mg/L		07/21/23 08:33	07/21/23 22:25	1
Manganese	0.22		0.0030		mg/L		07/21/23 08:33	07/21/23 22:25	1
Potassium	4.1		0.50		mg/L		07/21/23 08:33	07/21/23 22:25	1
Sodium	82.6		1.0		mg/L		07/21/23 08:33	07/21/23 22:25	1
Selenium	ND		0.025		mg/L		07/21/23 08:33	07/21/23 22:25	1
Method: SW846 7470A - Mercu	ıry (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		07/20/23 11:32	07/20/23 15:24	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		1.0		mg/L			07/26/23 00:16	5
Chloride (EPA 300.0)	126		2.5		mg/L			07/26/23 00:16	5
Sulfate (EPA 300.0)	109		10.0		mg/L			07/26/23 00:16	5
Chemical Oxygen Demand (EPA 410.4)	ND	F1	10.0		mg/L			07/27/23 14:12	1
Total Dissolved Solids (SM 2540C)	869		10.0		mg/L			07/24/23 16:28	1
Cr (VI) (SM 3500 CR B)	ND		0.010		mg/L			07/19/23 15:43	1
Total Organic Carbon (SM 5310C)	3.0		1.0		mg/L			07/25/23 09:05	1
Method: EPA Field Sampling -	Field Samı	oling							
Analyte		Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	77				millivolts			07/19/23 11:37	1
pH, Field	8.08				SU			07/19/23 11:37	1
Specific Conductance	1307				umhos/cm			07/19/23 11:37	1
Temperature, Field (C)	56.3				Degrees F			07/19/23 11:37	1

Eurofins Buffalo

07/19/23 11:37

10.40

NTU

Client: LAN Associates Inc Job ID: 480-210992-1 Project/Site: Witmer Road G/W

Client Sample ID: MW-14N

Lab Sample ID: 480-210992-4

Date Collected: 07/19/23 13:04 **Matrix: Water** Date Received: 07/19/23 15:15

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		07/20/23 13:48	
1,1,1-Trichloroethane	ND	1.0	ug/L		07/20/23 13:48	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		07/20/23 13:48	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		07/20/23 13:48	
1,1,2-Trichloroethane	ND	1.0	ug/L		07/20/23 13:48	
1,1-Dichloroethane	ND *+	1.0	ug/L		07/20/23 13:48	
1,1-Dichloroethene	ND	1.0	ug/L		07/20/23 13:48	
1,2,3-Trichloropropane	ND	1.0	ug/L		07/20/23 13:48	
1,2,4-Trichlorobenzene	ND	1.0	ug/L		07/20/23 13:48	
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		07/20/23 13:48	
1,2-Dibromoethane	ND	1.0	ug/L		07/20/23 13:48	
1,2-Dichlorobenzene	ND	1.0	ug/L		07/20/23 13:48	
1,2-Dichloroethane	ND	1.0	ug/L		07/20/23 13:48	
1,2-Dichloropropane	ND	1.0	ug/L		07/20/23 13:48	
1,3-Dichlorobenzene	ND	1.0	ug/L		07/20/23 13:48	
1,4-Dichlorobenzene	ND SE	1.0	ug/L		07/20/23 13:48	
2-Butanone (MEK)	ND *+	10	ug/L		07/20/23 13:48	
2-Hexanone	ND	5.0	ug/L		07/20/23 13:48	
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		07/20/23 13:48	
Acetone	ND	10	ug/L		07/20/23 13:48	
Acetonitrile	ND	15	ug/L		07/20/23 13:48	
Benzene	ND	1.0	ug/L		07/20/23 13:48	
Bromochloromethane	ND	1.0			07/20/23 13:48	
Bromodichloromethane	ND ND	1.0	ug/L		07/20/23 13:48	
Bromoform	ND *1	1.0	ug/L		07/20/23 13:48	
	ND 1	1.0	ug/L		07/20/23 13:48	
Bromomethane			ug/L			
Carbon disulfide	ND	1.0	ug/L		07/20/23 13:48	
Carbon tetrachloride	ND	1.0	ug/L		07/20/23 13:48	
Chlorobenzene	ND	1.0	ug/L		07/20/23 13:48	
Chloroethane	ND	1.0	ug/L		07/20/23 13:48	
Chloroform	ND	1.0	ug/L		07/20/23 13:48	
Chloromethane	ND *+	1.0	ug/L		07/20/23 13:48	
cis-1,2-Dichloroethene	21	1.0	ug/L		07/20/23 13:48	
cis-1,3-Dichloropropene	ND *+	1.0	ug/L		07/20/23 13:48	
Cyclohexane	ND	1.0	ug/L		07/20/23 13:48	
Dibromochloromethane	ND	1.0	ug/L		07/20/23 13:48	
Dibromomethane	ND	1.0	ug/L		07/20/23 13:48	
Dichlorodifluoromethane	ND	1.0	ug/L		07/20/23 13:48	
Ethylbenzene	ND	1.0	ug/L		07/20/23 13:48	
lodomethane	ND	1.0	ug/L		07/20/23 13:48	
Isopropylbenzene	ND	1.0	ug/L		07/20/23 13:48	
m,p-Xylene	ND	2.0	ug/L		07/20/23 13:48	
Methyl acetate	ND	2.5	ug/L		07/20/23 13:48	
Methylcyclohexane	ND	1.0	ug/L		07/20/23 13:48	
Methylene Chloride	ND	1.0	ug/L		07/20/23 13:48	
p-Xylene	ND	1.0	ug/L		07/20/23 13:48	
Styrene	ND	1.0	ug/L		07/20/23 13:48	
Tetrachloroethene	ND	1.0	ug/L		07/20/23 13:48	
Toluene	ND	1.0	ug/L		07/20/23 13:48	

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Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-14N

Date Collected: 07/19/23 13:04

Lab Sample ID: 480-210992-4

Matrix: Water

Date Received: 07/19/23 15:15

Temperature, Field (C)

Turbidity, Field

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/20/23 13:48	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/20/23 13:48	1
trans-1,4-Dichloro-2-butene	ND	*1	1.0		ug/L			07/20/23 13:48	1
Trichloroethene	ND		1.0		ug/L			07/20/23 13:48	1
Trichlorofluoromethane	ND		1.0		ug/L			07/20/23 13:48	1
Vinyl acetate	ND	*+	5.0		ug/L			07/20/23 13:48	1
Vinyl chloride	3.6		1.0		ug/L			07/20/23 13:48	1
Xylenes, Total	ND		2.0		ug/L			07/20/23 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					07/20/23 13:48	1
4-Bromofluorobenzene (Surr)	83		73 - 120					07/20/23 13:48	1
Toluene-d8 (Surr)	86		80 - 120					07/20/23 13:48	1
Dibromofluoromethane (Surr)	99		75 - 123					07/20/23 13:48	1
Method: SW846 6010C - Metals	s (ICP)								
Analyte	. ,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		07/21/23 08:33	07/21/23 22:28	1
Barium	0.12		0.0020		mg/L		07/21/23 08:33	07/21/23 22:28	1
Boron	0.11		0.020		mg/L		07/21/23 08:33	07/21/23 22:28	1
Chromium	ND		0.0040		mg/L		07/21/23 08:33	07/21/23 22:28	1
Lead	ND		0.010		mg/L		07/21/23 08:33	07/21/23 22:28	1
Manganese	0.16		0.0030		mg/L		07/21/23 08:33	07/21/23 22:28	1
Potassium	2.6		0.50		mg/L		07/21/23 08:33	07/21/23 22:28	1
Sodium	83.0		1.0		mg/L		07/21/23 08:33	07/21/23 22:28	1
Selenium	ND		0.025		mg/L		07/21/23 08:33	07/21/23 22:28	1
Method: SW846 7470A - Mercu	ıry (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		07/20/23 11:32	07/20/23 15:25	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		1.0		mg/L			07/26/23 00:35	5
Chloride (EPA 300.0)	121		2.5		mg/L			07/26/23 00:35	5
Sulfate (EPA 300.0)	214		10.0		mg/L			07/26/23 00:35	5
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			07/27/23 14:12	1
Total Dissolved Solids (SM 2540C)	1110		10.0		mg/L			07/24/23 16:28	1
Cr (VI) (SM 3500 CR B)	ND		0.010		mg/L			07/19/23 15:43	1
Total Organic Carbon (SM 5310C)	3.2		1.0		mg/L			07/25/23 09:34	1
Method: EPA Field Sampling -	Field Samp	oling							
Analyte		Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	-16				millivolts			07/19/23 13:04	1
pH, Field	7.53				SU			07/19/23 13:04	1
Specific Conductance	1488				umhos/cm			07/19/23 13:04	1
								07/40/00 40 04	

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07/19/23 13:04

07/19/23 13:04

57.2

6.40

Degrees F

NTU

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-5R

Lab Sample ID: 480-210992-5

Date Collected: 07/19/23 12:46 Matrix: Water Date Received: 07/19/23 15:15

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		07/20/23 14:13	
1,1,1-Trichloroethane	ND	1.0	ug/L		07/20/23 14:13	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		07/20/23 14:13	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		07/20/23 14:13	
1,1,2-Trichloroethane	ND	1.0	ug/L		07/20/23 14:13	
1,1-Dichloroethane	ND *+	1.0	ug/L		07/20/23 14:13	
1,1-Dichloroethene	ND	1.0	ug/L		07/20/23 14:13	
1,2,3-Trichloropropane	ND	1.0	ug/L		07/20/23 14:13	
1,2,4-Trichlorobenzene	ND	1.0	ug/L		07/20/23 14:13	
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		07/20/23 14:13	
1,2-Dibromoethane	ND	1.0	ug/L		07/20/23 14:13	
1,2-Dichlorobenzene	ND	1.0	ug/L		07/20/23 14:13	
1,2-Dichloroethane	ND	1.0	ug/L		07/20/23 14:13	
1,2-Dichloropropane	ND	1.0	ug/L		07/20/23 14:13	
1,3-Dichlorobenzene	ND	1.0	ug/L		07/20/23 14:13	
1,4-Dichlorobenzene	ND	1.0	ug/L		07/20/23 14:13	
2-Butanone (MEK)	ND *+	10	ug/L		07/20/23 14:13	
2-Hexanone	ND	5.0	ug/L		07/20/23 14:13	
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		07/20/23 14:13	
Acetone	ND	10	ug/L		07/20/23 14:13	
Acetonitrile	ND	15	ug/L		07/20/23 14:13	
Benzene	ND	1.0	ug/L		07/20/23 14:13	
Bromochloromethane	ND	1.0	ug/L		07/20/23 14:13	
Bromodichloromethane	ND	1.0	ug/L		07/20/23 14:13	
Bromoform	ND *1	1.0	ug/L		07/20/23 14:13	
Bromomethane	ND	1.0	ug/L		07/20/23 14:13	
Carbon disulfide	ND	1.0	ug/L		07/20/23 14:13	
Carbon tetrachloride	ND	1.0	ug/L		07/20/23 14:13	
Chlorobenzene	ND	1.0	ug/L		07/20/23 14:13	
Chloroethane	ND	1.0	ug/L		07/20/23 14:13	
Chloroform	ND	1.0	ug/L		07/20/23 14:13	
Chloromethane	ND *+	1.0	ug/L		07/20/23 14:13	
cis-1,2-Dichloroethene	ND 1	1.0	ug/L		07/20/23 14:13	
cis-1,3-Dichloropropene	ND *+	1.0	ug/L		07/20/23 14:13	
Cyclohexane	ND +	1.0	ug/L		07/20/23 14:13	
Dibromochloromethane	ND	1.0			07/20/23 14:13	
	ND	1.0	ug/L		07/20/23 14:13	
Dibromomethane			ug/L			
Dichlorodifluoromethane	ND	1.0	ug/L		07/20/23 14:13	
Ethylbenzene	ND	1.0	ug/L		07/20/23 14:13	
lodomethane	ND	1.0	ug/L		07/20/23 14:13	
Isopropylbenzene	ND	1.0	ug/L		07/20/23 14:13	
m,p-Xylene	ND	2.0	ug/L		07/20/23 14:13	
Methyl acetate	ND	2.5	ug/L		07/20/23 14:13	
Methylcyclohexane	ND	1.0	ug/L		07/20/23 14:13	
Methylene Chloride	ND	1.0	ug/L		07/20/23 14:13	
o-Xylene	ND	1.0	ug/L		07/20/23 14:13	
Styrene	ND	1.0	ug/L		07/20/23 14:13	
Tetrachloroethene	ND	1.0	ug/L		07/20/23 14:13	

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8/4/2023

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Client Sample ID: MW-5R Lab Sample ID: 480-210992-5

Date Collected: 07/19/23 12:46

Date Received: 07/19/23 15:15

Matrix: Water

Method: SW846 8260C - Volat	_	-	•	•	•	_	D	A II	D:: =
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
rans-1,2-Dichloroethene	ND		1.0		ug/L			07/20/23 14:13	
rans-1,3-Dichloropropene	ND	**	1.0		ug/L			07/20/23 14:13	
rans-1,4-Dichloro-2-butene	ND	*1	1.0		ug/L			07/20/23 14:13	
richloroethene	ND		1.0		ug/L			07/20/23 14:13	
richlorofluoromethane	ND		1.0		ug/L			07/20/23 14:13	
/inyl acetate	ND	*+	5.0		ug/L			07/20/23 14:13	
/inyl chloride	1.1		1.0		ug/L			07/20/23 14:13	
(ylenes, Total	ND		2.0		ug/L			07/20/23 14:13	
urrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
,2-Dichloroethane-d4 (Surr)	103		77 - 120					07/20/23 14:13	
-Bromofluorobenzene (Surr)	82		73 - 120					07/20/23 14:13	
oluene-d8 (Surr)	85		80 - 120					07/20/23 14:13	
Dibromofluoromethane (Surr)	99		75 - 123					07/20/23 14:13	
Method: SW846 6010C - Metal	ls (ICP)								
nalyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
rsenic	ND		0.015		mg/L		07/21/23 08:33	07/21/23 22:32	
Barium	0.083		0.0020		mg/L		07/21/23 08:33	07/21/23 22:32	
Soron	0.19		0.020		mg/L		07/21/23 08:33	07/21/23 22:32	
hromium	ND		0.0040		mg/L		07/21/23 08:33	07/21/23 22:32	
ead	ND		0.010		mg/L		07/21/23 08:33	07/21/23 22:32	
langanese	0.12		0.0030		mg/L		07/21/23 08:33	07/21/23 22:32	
otassium	22.2		0.50		mg/L		07/21/23 08:33	07/21/23 22:32	
Sodium	71.9		1.0		mg/L		07/21/23 08:33	07/21/23 22:32	
Selenium	ND		0.025		mg/L		07/21/23 08:33	07/21/23 22:32	
Method: SW846 7470A - Merc	ury (CVAA)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	ND		0.00020		mg/L		07/20/23 11:32	07/20/23 15:27	
General Chemistry									
nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
romide (EPA 300.0)	1.1		1.0		mg/L			07/26/23 00:55	
hloride (EPA 300.0)	89.4		2.5		mg/L			07/26/23 00:55	
ulfate (EPA 300.0)	155		10.0		mg/L			07/26/23 00:55	
hemical Oxygen Demand (EPA 10.4)	17.4		10.0		mg/L			07/27/23 14:12	
otal Dissolved Solids (SM 2540C)	664		10.0		mg/L			07/24/23 16:28	
r (VI) (SM 3500 CR B)	ND		0.010		mg/L			07/19/23 15:43	
otal Organic Carbon (SM 5310C)	6.7		1.0		mg/L			07/25/23 10:03	
Method: EPA Field Sampling -	· Field Samı	olina							
nalyte		Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil F
ield EH/ORP	67				millivolts			07/19/23 12:46	
H, Field	9.10				SU			07/19/23 12:46	
pecific Conductance	957				umhos/cm			07/19/23 12:46	
•									
emperature, Field (C)	56.6				Degrees F			07/19/23 12:46	

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Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Client Sample ID: LS-1

Date Collected: 07/19/23 14:13

Lab Sample ID: 480-210992-6

Matrix: Water

Date Received: 07/19/23 15:15

Analyte	Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L			07/20/23 14:37	
1,1,1-Trichloroethane	ND	1.0		ug/L			07/20/23 14:37	
1,1,2,2-Tetrachloroethane	ND	1.0		ug/L			07/20/23 14:37	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0		ug/L			07/20/23 14:37	
1,1,2-Trichloroethane	ND	1.0		ug/L			07/20/23 14:37	
1.1-Dichloroethane	ND '			ug/L			07/20/23 14:37	
1,1-Dichloroethene	ND	1.0		ug/L			07/20/23 14:37	
1,2,3-Trichloropropane	ND	1.0		ug/L ug/L			07/20/23 14:37	
	ND ND			_			07/20/23 14:37	
1,2,4-Trichlorobenzene	ND ND	1.0		ug/L			07/20/23 14:37	
1,2-Dibromo-3-Chloropropane		1.0		ug/L				
1,2-Dibromoethane	ND	1.0		ug/L			07/20/23 14:37	
1,2-Dichlorobenzene	ND	1.0		ug/L			07/20/23 14:37	
1,2-Dichloroethane	ND	1.0		ug/L			07/20/23 14:37	
1,2-Dichloropropane	ND	1.0		ug/L			07/20/23 14:37	
1,3-Dichlorobenzene	ND	1.0		ug/L			07/20/23 14:37	
1,4-Dichlorobenzene	ND	1.0		ug/L			07/20/23 14:37	
2-Butanone (MEK)	ND ³	*+ 10		ug/L			07/20/23 14:37	
2-Hexanone	ND	5.0		ug/L			07/20/23 14:37	
4-Methyl-2-pentanone (MIBK)	ND	5.0		ug/L			07/20/23 14:37	
Acetone	ND	10		ug/L			07/20/23 14:37	
Acetonitrile	ND	15		ug/L			07/20/23 14:37	
Benzene	ND	1.0		ug/L			07/20/23 14:37	
Bromochloromethane	ND	1.0		ug/L			07/20/23 14:37	
Bromodichloromethane	ND	1.0		ug/L			07/20/23 14:37	
Bromoform	ND ³	*1 1.0		ug/L			07/20/23 14:37	
Bromomethane	ND	1.0		ug/L			07/20/23 14:37	
Carbon disulfide	ND	1.0		ug/L			07/20/23 14:37	
Carbon tetrachloride	ND	1.0		ug/L			07/20/23 14:37	
Chlorobenzene	ND	1.0		ug/L			07/20/23 14:37	
Chloroethane	ND	1.0		ug/L			07/20/23 14:37	
Chloroform	ND	1.0		ug/L			07/20/23 14:37	
Chloromethane	ND '			ug/L			07/20/23 14:37	
cis-1,2-Dichloroethene	ND	1.0		ug/L			07/20/23 14:37	
cis-1,3-Dichloropropene	ND '			ug/L			07/20/23 14:37	
Cyclohexane	ND	1.0		ug/L ug/L			07/20/23 14:37	
Dibromochloromethane	ND ND	1.0					07/20/23 14:37	
				ug/L				
Dibromomethane	ND	1.0		ug/L			07/20/23 14:37	
Dichlorodifluoromethane	ND	1.0		ug/L			07/20/23 14:37	
Ethylbenzene	ND	1.0		ug/L			07/20/23 14:37	
odomethane	ND	1.0		ug/L			07/20/23 14:37	
sopropylbenzene	ND	1.0		ug/L			07/20/23 14:37	
n,p-Xylene	ND	2.0		ug/L			07/20/23 14:37	
Methyl acetate	ND	2.5		ug/L			07/20/23 14:37	
Methylcyclohexane	ND	1.0		ug/L			07/20/23 14:37	
Methylene Chloride	ND	1.0		ug/L			07/20/23 14:37	
o-Xylene	ND	1.0		ug/L			07/20/23 14:37	
Styrene	ND	1.0		ug/L			07/20/23 14:37	
Tetrachloroethene	ND	1.0		ug/L			07/20/23 14:37	
Toluene	ND	1.0		ug/L			07/20/23 14:37	

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Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Client Sample ID: LS-1 Lab Sample ID: 480-210992-6

Date Collected: 07/19/23 14:13 **Matrix: Water** Date Received: 07/19/23 15:15

Method: SW846 8260C - Vola	_	-	•	•		_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
rans-1,2-Dichloroethene	ND		1.0		ug/L			07/20/23 14:37	
rans-1,3-Dichloropropene	ND		1.0		ug/L			07/20/23 14:37	
rans-1,4-Dichloro-2-butene	ND	*1	1.0		ug/L			07/20/23 14:37	
Trichloroethene	ND		1.0		ug/L			07/20/23 14:37	
richlorofluoromethane	ND		1.0		ug/L			07/20/23 14:37	
/inyl acetate	ND	*+	5.0		ug/L			07/20/23 14:37	
/inyl chloride	ND		1.0		ug/L			07/20/23 14:37	
(ylenes, Total	ND		2.0		ug/L			07/20/23 14:37	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
,2-Dichloroethane-d4 (Surr)	101		77 - 120					07/20/23 14:37	
-Bromofluorobenzene (Surr)	82		73 - 120					07/20/23 14:37	
oluene-d8 (Surr)	85		80 - 120					07/20/23 14:37	
Dibromofluoromethane (Surr)	98		75 - 123					07/20/23 14:37	
// //ethod: SW846 6010C - Met	als (ICP)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
rsenic	ND		0.015		mg/L		07/21/23 08:33	07/21/23 22:36	
arium	0.069		0.0020		mg/L		07/21/23 08:33	07/21/23 22:36	
oron	0.44		0.020		mg/L		07/21/23 08:33	07/21/23 22:36	
hromium	0.041		0.0040		mg/L		07/21/23 08:33	07/21/23 22:36	
ead	ND		0.010		mg/L		07/21/23 08:33	07/21/23 22:36	
langanese	ND		0.0030		mg/L		07/21/23 08:33	07/21/23 22:36	
otassium	91.7		0.50		mg/L		07/21/23 08:33	07/21/23 22:36	
Sodium	74.1		1.0		mg/L		07/21/23 08:33	07/21/23 22:36	
Selenium	ND		0.025		mg/L		07/21/23 08:33	07/21/23 22:36	
Method: SW846 7470A - Mer	cury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	ND		0.00020		mg/L		07/20/23 11:32	07/20/23 15:28	
General Chemistry									
nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
romide (EPA 300.0)	2.0		1.0		mg/L			07/26/23 01:14	
hloride (EPA 300.0)	122		2.5		mg/L			07/26/23 01:14	
ulfate (EPA 300.0)	165		10.0		mg/L			07/26/23 01:14	
themical Oxygen Demand (EPA	29.3		10.0		mg/L			07/27/23 14:12	
10.4) otal Dissolved Solids (SM 25400	869		10.0		mg/L			07/24/23 16:28	
cr (VI) (SM 3500 CR B)	0.031		0.010		mg/L			07/19/23 15:43	
otal Organic Carbon (SM 5310C	9.0		1.0		mg/L			07/25/23 10:32	
Method: EPA Field Sampling	g - Field Samı	oling							
Analyte		Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil F
ield EH/ORP	126				millivolts			07/19/23 14:13	
H, Field	9.13				SU			07/19/23 14:13	
specific Conductance	1297				umhos/cm			07/19/23 14:13	
emperature, Field (C)	62.9				Degrees F			07/19/23 14:13	

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Client: LAN Associates Inc Job ID: 480-210992-1 Project/Site: Witmer Road G/W

Lab Sample ID: 480-210992-7 **Client Sample ID: Trip Blank** Date Collected: 07/19/23 00:00

Matrix: Water

Date Received: 07/19/23 15:15

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L		07/20/23 15:01	
1,1,1-Trichloroethane	ND	1.0	ug/L		07/20/23 15:01	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		07/20/23 15:01	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L		07/20/23 15:01	
1,1,2-Trichloroethane	ND	1.0	ug/L		07/20/23 15:01	
1,1-Dichloroethane	ND *+	1.0	ug/L		07/20/23 15:01	
1,1-Dichloroethene	ND	1.0	ug/L		07/20/23 15:01	
1,2,3-Trichloropropane	ND	1.0	ug/L		07/20/23 15:01	
1,2,4-Trichlorobenzene	ND	1.0	ug/L		07/20/23 15:01	
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		07/20/23 15:01	
1,2-Dibromoethane	ND	1.0	ug/L		07/20/23 15:01	
1,2-Dichlorobenzene	ND	1.0	ug/L		07/20/23 15:01	
1,2-Dichloroethane	ND	1.0	ug/L		07/20/23 15:01	
1,2-Dichloropropane	ND	1.0	ug/L		07/20/23 15:01	
1,3-Dichlorobenzene	ND	1.0	ug/L		07/20/23 15:01	
1,4-Dichlorobenzene	ND SE	1.0	ug/L		07/20/23 15:01	
2-Butanone (MEK)	ND *+	10	ug/L		07/20/23 15:01	
2-Hexanone	ND	5.0	ug/L		07/20/23 15:01	
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L		07/20/23 15:01	
Acetone	ND	10	ug/L		07/20/23 15:01	
Acetonitrile	ND	15	ug/L		07/20/23 15:01	
Benzene	ND	1.0	ug/L		07/20/23 15:01	
Bromochloromethane	ND	1.0			07/20/23 15:01	
Bromodichloromethane	ND ND	1.0	ug/L		07/20/23 15:01	
Bromoform	ND *1	1.0	ug/L		07/20/23 15:01	
	ND 1	1.0	ug/L		07/20/23 15:01	
Bromomethane			ug/L			
Carbon disulfide	ND	1.0	ug/L		07/20/23 15:01	
Carbon tetrachloride	ND	1.0	ug/L		07/20/23 15:01	
Chlorobenzene	ND	1.0	ug/L		07/20/23 15:01	
Chloroethane	ND	1.0	ug/L		07/20/23 15:01	
Chloroform	ND	1.0	ug/L		07/20/23 15:01	
Chloromethane	ND *+	1.0	ug/L		07/20/23 15:01	
cis-1,2-Dichloroethene	ND	1.0	ug/L		07/20/23 15:01	
cis-1,3-Dichloropropene	ND *+	1.0	ug/L		07/20/23 15:01	
Cyclohexane	ND	1.0	ug/L		07/20/23 15:01	
Dibromochloromethane	ND	1.0	ug/L		07/20/23 15:01	
Dibromomethane	ND	1.0	ug/L		07/20/23 15:01	
Dichlorodifluoromethane	ND	1.0	ug/L		07/20/23 15:01	
Ethylbenzene	ND	1.0	ug/L		07/20/23 15:01	
lodomethane	ND	1.0	ug/L		07/20/23 15:01	
sopropylbenzene	ND	1.0	ug/L		07/20/23 15:01	
m,p-Xylene	ND	2.0	ug/L		07/20/23 15:01	
Methyl acetate	ND	2.5	ug/L		07/20/23 15:01	
Methylcyclohexane	ND	1.0	ug/L		07/20/23 15:01	
Methylene Chloride	ND	1.0	ug/L		07/20/23 15:01	
p-Xylene	ND	1.0	ug/L		07/20/23 15:01	
Styrene	ND	1.0	ug/L		07/20/23 15:01	
Tetrachloroethene	ND	1.0	ug/L		07/20/23 15:01	
Toluene	ND	1.0	ug/L		07/20/23 15:01	

Eurofins Buffalo

8/4/2023

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Client Sample ID: Trip Blank

Date Collected: 07/19/23 00:00 Date Received: 07/19/23 15:15

Lab Sample ID: 480-210992-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/20/23 15:01	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/20/23 15:01	1
trans-1,4-Dichloro-2-butene	ND	*1	1.0		ug/L			07/20/23 15:01	1
Trichloroethene	ND		1.0		ug/L			07/20/23 15:01	1
Trichlorofluoromethane	ND		1.0		ug/L			07/20/23 15:01	1
Vinyl acetate	ND	*+	5.0		ug/L			07/20/23 15:01	1
Vinyl chloride	ND		1.0		ug/L			07/20/23 15:01	1
Xylenes, Total	ND		2.0		ug/L			07/20/23 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					07/20/23 15:01	1
4-Bromofluorobenzene (Surr)	83		73 - 120					07/20/23 15:01	1
Toluene-d8 (Surr)	87		80 - 120					07/20/23 15:01	1
Dibromofluoromethane (Surr)	99		75 - 123					07/20/23 15:01	1

Surrogate Summary

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance L				
		DCA	BFB	TOL	DBFM	
ab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)	
80-210992-1	MW-BR-1	105	82	85	98	
30-210992-2	MW-3R	103	82	86	96	
0-210992-3	MW-12	106	82	85	98	
30-210992-4	MW-14N	105	83	86	99	
80-210992-5	MW-5R	103	82	85	99	
80-210992-6	LS-1	101	82	85	98	
80-210992-7	Trip Blank	104	83	87	99	
CS 480-677048/6	Lab Control Sample	105	85	84	106	
CSD 480-677048/32	Lab Control Sample Dup	105	80	82	104	
MB 480-677048/8	Method Blank	104	84	86	99	

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-210992-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-677048/8 Matrix: Water

Analysis Batch: 677048

Client Sample ID: Method Blank Prep Type: Total/NA

Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
					1
					1
					1
		-			1
					1
	1.0	ug/L		07/20/23 10:47	1
		ug/L			1
ND	1.0	ug/L		07/20/23 10:47	1
ND	1.0	ug/L		07/20/23 10:47	1
ND	1.0	ug/L		07/20/23 10:47	1
ND	1.0	ug/L		07/20/23 10:47	1
ND	1.0	ug/L		07/20/23 10:47	1
ND	1.0	ug/L		07/20/23 10:47	1
ND	1.0	ug/L		07/20/23 10:47	1
ND	1.0	ug/L		07/20/23 10:47	1
ND	1.0	ug/L		07/20/23 10:47	1
ND	10	ug/L		07/20/23 10:47	1
ND	5.0	ug/L		07/20/23 10:47	1
ND	5.0	ug/L		07/20/23 10:47	1
ND	10			07/20/23 10:47	1
ND	15			07/20/23 10:47	1
ND	1.0			07/20/23 10:47	1
ND	1.0			07/20/23 10:47	1
ND	1.0			07/20/23 10:47	1
ND	1.0	ug/L		07/20/23 10:47	1
ND	1.0	ug/L		07/20/23 10:47	1
ND	1.0	-		07/20/23 10:47	1
ND	1.0			07/20/23 10:47	1
	1.0			07/20/23 10:47	1
		-			1
				07/20/23 10:47	1
		-		07/20/23 10:47	1
					1
					1
					1
					1
					1
					1
					1
					1
					1
					1
					1 1
					1
					1
ND	1.0	ug/L		07/20/23 10:47	1
	ND N	ND 1.0 ND	ND 1.0 ug/L ND 1.0 ug/L	ND	ND 1.0 ug/L 07/20/23 10.47 ND 5.0 ug/L 07/20/23 10.47 ND 1.0 ug/L 07/20/23

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Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-677048/8

Matrix: Water

Analysis Batch: 677048

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB MB						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND	1.0	ug/L			07/20/23 10:47	1
trans-1,2-Dichloroethene	ND	1.0	ug/L			07/20/23 10:47	1
trans-1,3-Dichloropropene	ND	1.0	ug/L			07/20/23 10:47	1
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L			07/20/23 10:47	1
Trichloroethene	ND	1.0	ug/L			07/20/23 10:47	1
Trichlorofluoromethane	ND	1.0	ug/L			07/20/23 10:47	1
Vinyl acetate	ND	5.0	ug/L			07/20/23 10:47	1
Vinyl chloride	ND	1.0	ug/L			07/20/23 10:47	1
Xylenes, Total	ND	2.0	ug/L			07/20/23 10:47	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120	07/20/23 10:47	1
4-Bromofluorobenzene (Surr)	84		73 - 120	07/20/23 10:47	1
Toluene-d8 (Surr)	86		80 - 120	07/20/23 10:47	1
Dibromofluoromethane (Surr)	99		75 ₋ 123	07/20/23 10:47	1

Lab Sample ID: LCS 480-677048/6

Matrix: Water

Carbon disulfide

Analysis Batch: 677048

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits Analyte 25.0 99 80 - 120 1,1,1,2-Tetrachloroethane 24.8 ug/L 1,1,1-Trichloroethane 25.0 27.1 ug/L 108 73 - 126 1,1,2,2-Tetrachloroethane 25.0 23.7 95 76 - 120 ug/L 25.0 61 - 148 1,1,2-Trichloro-1,2,2-trifluoroetha 21.5 ug/L 86 25.0 101 76 - 122 1,1,2-Trichloroethane 25.2 ug/L 1,1-Dichloroethane 25.0 31.2 *+ ug/L 125 77 - 120 1.1-Dichloroethene 25.0 26.1 ug/L 104 66 - 127 1,2,3-Trichloropropane 25.0 22.9 ug/L 92 68 - 122 1,2,4-Trichlorobenzene 25.0 23.0 ug/L 92 79 - 122 1,2-Dibromo-3-Chloropropane 25.0 23.9 ug/L 96 56 - 134 1,2-Dibromoethane 25.0 24.1 96 77 - 120 ug/L 1,2-Dichlorobenzene 25.0 23.2 ug/L 93 80 - 124 1,2-Dichloroethane 25.0 28.1 ug/L 112 75 - 120 25.0 29.8 76 - 120 1,2-Dichloropropane ug/L 119 1,3-Dichlorobenzene 25.0 23.4 ug/L 93 77 - 12025.0 92 1,4-Dichlorobenzene 22.9 ug/L 80 - 120 2-Butanone (MEK) 125 267 *+ 214 57 - 140 ug/L 125 123 98 65 - 127 2-Hexanone ug/L 4-Methyl-2-pentanone (MIBK) 125 123 98 71 - 125 ug/L 125 126 Acetone 158 ug/L 56 - 142 Acetonitrile 250 273 ug/L 109 65 - 129Benzene 118 71 - 124 25.0 29.5 ug/L Bromochloromethane 25.0 28.9 ug/L 116 72 - 130 Bromodichloromethane 25.0 28.5 ug/L 114 80 - 122 Bromoform 25.0 24.3 ug/L 97 61 - 132 25.0 55 - 144 Bromomethane 29.0 ug/L 116

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25.7

ug/L

103

59 - 134

25.0

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-677048/6

Matrix: Water

Analysis Batch: 677048

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit I		%Rec	Limits
Carbon tetrachloride	25.0	23.3		ug/L		93	72 - 134
Chlorobenzene	25.0	24.1		ug/L		96	80 - 120
Chloroethane	25.0	30.0		ug/L		120	69 - 136
Chloroform	25.0	29.0		ug/L		116	73 - 127
Chloromethane	25.0	31.8	*+	ug/L		127	68 - 124
cis-1,2-Dichloroethene	25.0	29.8		ug/L		119	74 - 124
cis-1,3-Dichloropropene	25.0	31.6	*+	ug/L		126	74 - 124
Cyclohexane	25.0	26.1		ug/L		105	59 - 135
Dibromochloromethane	25.0	24.8		ug/L		99	75 - 125
Dibromomethane	25.0	29.0		ug/L		116	76 - 127
Dichlorodifluoromethane	25.0	28.7		ug/L		115	59 - 135
Ethylbenzene	25.0	23.8		ug/L		95	77 - 123
Iodomethane	25.0	30.5		ug/L		122	78 - 123
Isopropylbenzene	25.0	23.3		ug/L		93	77 - 122
m,p-Xylene	25.0	24.1		ug/L		96	76 - 122
Methyl acetate	50.0	59.0		ug/L		118	74 - 133
Methylcyclohexane	25.0	25.6		ug/L		102	68 - 134
Methylene Chloride	25.0	30.9		ug/L		123	75 - 124
o-Xylene	25.0	24.0		ug/L		96	76 - 122
Styrene	25.0	24.1		ug/L		96	80 - 120
Tetrachloroethene	25.0	24.3		ug/L		97	74 - 122
Toluene	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	29.2		ug/L		117	73 - 127
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	80 - 120
trans-1,4-Dichloro-2-butene	25.0	20.1		ug/L		80	41 - 131
Trichloroethene	25.0	29.1		ug/L		116	74 - 123
Trichlorofluoromethane	25.0	29.6		ug/L		118	62 - 150
Vinyl acetate	50.0	95.8	*+	ug/L		192	50 - 144
Vinyl chloride	25.0	29.5		ug/L		118	65 - 133

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	85		73 - 120
Toluene-d8 (Surr)	84		80 - 120
Dibromofluoromethane (Surr)	106		75 - 123

Lab Sample ID: LCSD 480-677048/32

Matrix: Water

Analysis Batch: 677048

Client Sample ID: Lab	Control Sample Dup
	Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,1,2-Tetrachloroethane	25.0	22.2		ug/L		89	80 - 120	11	20
1,1,1-Trichloroethane	25.0	24.9		ug/L		100	73 - 126	8	15
1,1,2,2-Tetrachloroethane	25.0	22.2		ug/L		89	76 - 120	6	15
1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	20.3		ug/L		81	61 - 148	6	20
ne									
1,1,2-Trichloroethane	25.0	24.1		ug/L		97	76 - 122	4	15
1,1-Dichloroethane	25.0	29.6		ug/L		118	77 - 120	5	20
1,1-Dichloroethene	25.0	24.6		ug/L		98	66 - 127	6	16

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Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-677048/32

Matrix: Water

Analysis Batch: 677048

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added		LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,3-Trichloropropane	25.0	20.9		ug/L		84	68 - 122	9	14
1,2,4-Trichlorobenzene	25.0	20.6		ug/L		82	79 - 122	11	20
1,2-Dibromo-3-Chloropropane	25.0	20.6		ug/L		82	56 - 134	15	15
1,2-Dibromoethane	25.0	22.2		ug/L		89	77 - 120	8	15
1,2-Dichlorobenzene	25.0	21.1		ug/L		84	80 - 124	9	20
1,2-Dichloroethane	25.0	26.9		ug/L		107	75 - 120	4	20
1,2-Dichloropropane	25.0	28.1		ug/L		112	76 - 120	6	20
1,3-Dichlorobenzene	25.0	20.9		ug/L		84	77 - 120	11	20
1,4-Dichlorobenzene	25.0	20.7		ug/L		83	80 - 120	10	20
2-Butanone (MEK)	125	254	*+	ug/L		203	57 - 140	5	20
2-Hexanone	125	115		ug/L		92	65 - 127	7	15
4-Methyl-2-pentanone (MIBK)	125	116		ug/L		93	71 - 125	6	35
Acetone	125	144		ug/L		115	56 - 142	9	15
Acetonitrile	250	270		ug/L		108	65 - 129	1	20
Benzene	25.0	27.5		ug/L		110	71 - 124	7	13
Bromochloromethane	25.0	27.8		ug/L		111	72 - 130	4	15
Bromodichloromethane	25.0	26.0		ug/L		104	80 - 122	9	15
Bromoform	25.0	20.2	*1	ug/L		81	61 - 132	18	15
Bromomethane	25.0	26.7		ug/L		107	55 - 144	8	15
Carbon disulfide	25.0	22.5		ug/L		90	59 - 134	13	15
Carbon tetrachloride	25.0	21.2		ug/L		85	72 - 134	10	15
Chlorobenzene	25.0	22.3		ug/L		89	80 - 120	8	25
Chloroethane	25.0	28.3		ug/L		113	69 - 136	6	15
Chloroform	25.0	27.4		ug/L		110	73 - 127	6	20
Chloromethane	25.0	30.0		ug/L		120	68 - 124	6	15
cis-1,2-Dichloroethene	25.0	27.7		ug/L		111	74 - 124	7	15
cis-1,3-Dichloropropene	25.0	27.9		ug/L		112	74 - 124	12	15
Cyclohexane	25.0	25.2		ug/L ug/L		101	59 ₋ 135	4	20
Dibromochloromethane	25.0	21.8		ug/L ug/L		87	75 ₋ 125	13	15
Dibromomethane	25.0	27.5		ug/L		110	76 - 127	5	15
Dichlorodifluoromethane	25.0	24.9		ug/L ug/L		99	59 ₋ 135	14	20
Ethylbenzene	25.0	22.2		ug/L ug/L		89	77 - 123	7	15
Iodomethane	25.0	27.5		ug/L ug/L		110	78 - 123	10	20
Isopropylbenzene	25.0	21.1		ug/L ug/L		85	76 - 123 77 - 122	10	20
m,p-Xylene	25.0	22.1		_		88	76 - 122	9	16
				ug/L				9 5	20
Methyl acetate	50.0	55.9		ug/L		112	74 - 133	·	
Methylcyclohexane	25.0	24.4		ug/L		98	68 - 134	5	20
Methylene Chloride	25.0	29.0		ug/L		116	75 - 124	6	15
o-Xylene	25.0	22.1		ug/L		88	76 - 122	8	16
Styrene	25.0	22.1		ug/L		88	80 - 120	8	20
Tetrachloroethene	25.0	23.0		ug/L		92	74 - 122	5	20
Toluene	25.0	22.4		ug/L		89	80 - 122	8	15
trans-1,2-Dichloroethene	25.0	27.1		ug/L		108	73 - 127	7	20
trans-1,3-Dichloropropene	25.0	21.9		ug/L		87	80 - 120	15	15
trans-1,4-Dichloro-2-butene	25.0	14.0	*1	ug/L		56	41 - 131	35	20
Trichloroethene	25.0	27.2		ug/L		109	74 - 123	7	16
Trichlorofluoromethane	25.0	26.9		ug/L		108	62 - 150	9	20
Vinyl acetate	50.0	76.2	*+	ug/L		152	50 - 144	23	23
Vinyl chloride	25.0	27.1		ug/L		109	65 - 133	8	15

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Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	80		73 - 120
Toluene-d8 (Surr)	82		80 - 120
Dibromofluoromethane (Surr)	104		75 - 123

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-677170/1-A

Matrix: Water

Analysis Batch: 677394

Client Sample ID: Me	thod Blank
Prep Typ	e: Total/NA

Prep Batch: 677170

	MB	MB						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		07/21/23 08:33	07/21/23 21:44	1
Barium	ND		0.0020		mg/L		07/21/23 08:33	07/21/23 21:44	1
Boron	ND		0.020		mg/L		07/21/23 08:33	07/21/23 21:44	1
Chromium	ND		0.0040		mg/L		07/21/23 08:33	07/21/23 21:44	1
Lead	ND		0.010		mg/L		07/21/23 08:33	07/21/23 21:44	1
Manganese	ND		0.0030		mg/L		07/21/23 08:33	07/21/23 21:44	1
Potassium	ND		0.50		mg/L		07/21/23 08:33	07/21/23 21:44	1
Sodium	ND		1.0		mg/L		07/21/23 08:33	07/21/23 21:44	1
Selenium	ND		0.025		mg/L		07/21/23 08:33	07/21/23 21:44	1

Lab Sample ID: LCS 480-677170/2-A

Matrix: Water

Analysis Batch: 677394

Client Samp	le ID:	Lab	Control	Sample

Prep Type: Total/NA

Prep Batch: 677170

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	0.200	0.201		mg/L		100	80 - 120	
Barium	0.200	0.209		mg/L		105	80 - 120	
Boron	0.201	0.203		mg/L		101	80 - 120	
Chromium	0.201	0.201		mg/L		100	80 - 120	
Lead	0.200	0.192		mg/L		96	80 - 120	
Manganese	0.200	0.204		mg/L		102	80 - 120	
Potassium	10.0	10.31		mg/L		103	80 - 120	
Sodium	10.0	10.19		mg/L		102	80 - 120	
Selenium	0.200	0.201		mg/L		100	80 - 120	

Lab Sample ID: 480-210992-1 MS

Matrix: Water

Analysis Batch: 677394

Client Sample	ID: MW-BR-1
Dron Ti	mar Tatal/NIA

Prep Batch: 677170

7 maryolo Batom 077004	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	•	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	ND		0.200	0.208		mg/L		104	75 - 125	
Barium	0.11		0.200	0.313		mg/L		102	75 - 125	
Boron	0.11		0.201	0.308		mg/L		98	75 - 125	
Chromium	ND		0.201	0.203		mg/L		101	75 - 125	
Lead	ND		0.200	0.197		mg/L		99	75 - 125	
Manganese	0.20		0.200	0.398		mg/L		101	75 - 125	
Potassium	5.1		10.0	15.47		mg/L		104	75 - 125	
Sodium	99.2		10.0	109.7	4	mg/L		104	75 - 125	
Selenium	ND		0.200	0.200		mg/L		100	75 - 125	

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Prep Type: Total/NA

8/4/2023

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-210992-1 MSD Client Sample ID: MW-BR-1 **Matrix: Water** Prep Type: Total/NA Analysis Batch: 677394 **Prep Batch: 677170**

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		0.200	0.207		mg/L		104	75 - 125	1	20
Barium	0.11		0.200	0.312		mg/L		101	75 - 125	1	20
Boron	0.11		0.201	0.308		mg/L		98	75 - 125	0	20
Chromium	ND		0.201	0.200		mg/L		100	75 - 125	2	20
Lead	ND		0.200	0.196		mg/L		98	75 - 125	0	20
Manganese	0.20		0.200	0.392		mg/L		98	75 - 125	1	20
Potassium	5.1		10.0	15.39		mg/L		103	75 - 125	1	20
Sodium	99.2		10.0	109.1	4	mg/L		98	75 - 125	1	20
Selenium	ND		0.200	0.198		mg/L		99	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-677109/1-A

Matrix: Water

Analysis Batch: 677192

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.00020 07/20/23 11:32 07/20/23 14:57 Mercury 0.000528 mg/L

Lab Sample ID: LCS 480-677109/2-A

Matrix: Water

Analyte

Mercury

Analysis Batch: 677192

Prep Batch: 677109 Spike LCS LCS %Rec Added Result Qualifier Limits Unit D %Rec 0.00669 80 - 120 0.00599 mg/L 89

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-677662/28 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 677662

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			07/25/23 23:17	1
Chloride	ND		0.50		mg/L			07/25/23 23:17	1
Sulfate	ND		2.0		mg/L			07/25/23 23:17	1

Lab Sample ID: MB 480-677662/4

Matrix: Water

Analysis Batch: 677662

Client Sample ID: Method Blank Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 677109

Prep Type: Total/NA

	INIB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			07/25/23 15:26	1
Chloride	ND		0.50		mg/L			07/25/23 15:26	1
Sulfate	ND		2.0		mg/L			07/25/23 15:26	1

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Client: LAN Associates Inc

Project/Site: Witmer Road G/W

Job ID: 480-210992-1

Prep Type: Total/NA

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-677662/29

Matrix: Water

Analysis Batch: 677662

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits **Bromide** 5.01 4.86 mg/L 97 90 - 110 Chloride 50.1 47.32 mg/L 95 90 - 110

47.61

mg/L

50.1

Lab Sample ID: LCS 480-677662/5

Matrix: Water

Sulfate

Analysis Batch: 677662

Client Sample ID: Lab Control Sample Prep Type: Total/NA

95

90 - 110

Client Sample ID: MW-BR-1

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Bromide	5.01	4.87		mg/L		97	90 - 110	
Chloride	50.1	47.32		mg/L		95	90 - 110	
Sulfate	50.1	47.63		mg/L		95	90 - 110	

Lab Sample ID: 480-210992-1 MS

Matrix: Water

Analysis Batch: 677662

Alialysis Datcil. 011002										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Bromide	ND		25.0	24.01		mg/L		94	80 - 120	
Chloride	162		250	387.8		mg/L		90	81 - 120	
Sulfate	90.9		250	320.2		mg/L		92	80 - 120	

Method: 410.4 - COD

Lab Sample ID: MB 480-677830/28

Matrix: Water

Analysis Batch: 677830

	MB I	MB						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	mg/L			07/25/23 21:35	1

Analysis Batch: 677830

Lab Sample ID: MB 480-677830/52	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA

мв мв Analyte Result Qualifier RL Dil Fac MDL Unit Prepared Analyzed Chemical Oxygen Demand ND 10.0 mg/L 07/26/23 01:53

Lab Sample ID: LCS 480-677830/29

Matrix: Water

Analysis Batch: 677830

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chemical Oxygen Demand	25.0	27.14		mg/L		109	90 - 110	

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Client: LAN Associates Inc

Project/Site: Witmer Road G/W

Job ID: 480-210992-1

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-677830/53 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 677830

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits Analyte D Chemical Oxygen Demand 25.0 26.02 mg/L 104 90 - 110

Client Sample ID: Method Blank Lab Sample ID: MB 480-678013/3 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 678013

MB MB Dil Fac Result Qualifier RL **MDL** Unit D Prepared Analyzed Analyte 10.0 Chemical Oxygen Demand ND mg/L 07/27/23 14:12

Lab Sample ID: MB 480-678013/75 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 678013

MB MB

Result Qualifier RL **MDL** Unit Analyte D Prepared Analyzed Dil Fac Chemical Oxygen Demand ND 10.0 07/27/23 14:12 mg/L

Lab Sample ID: LCS 480-678013/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 678013

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chemical Oxygen Demand 25.0 27.29 mg/L 109 90 - 110

Lab Sample ID: LCS 480-678013/76 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 678013

LCS LCS Spike %Rec Added Unit Limits Analyte Result Qualifier %Rec 25.0 90 - 110 Chemical Oxygen Demand 25.93 mg/L 104

Lab Sample ID: 480-210992-3 MS

Matrix: Water

Analysis Batch: 678013

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec ND F1 Chemical Oxygen Demand 50.0 65.88 F1 mg/L 132 75 - 125

Method: SM 2540C - Solids, Total Dissolved (TDS)

Client Sample ID: Method Blank Lab Sample ID: MB 480-677541/1 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 677541 MR MR

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 10.0 Total Dissolved Solids ND mg/L 07/24/23 16:28

Client Sample ID: MW-12

Prep Type: Total/NA

Client: LAN Associates Inc

Project/Site: Witmer Road G/W

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 480-677541/2 **Matrix: Water**

Analysis Batch: 677541

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Job ID: 480-210992-1

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits Analyte **Total Dissolved Solids** 552 467.0 mg/L 85 85 - 115

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 480-677008/3 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 677008

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 0.010 Cr (VI) ND mg/L 07/19/23 15:43

Lab Sample ID: LCS 480-677008/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 677008

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit n %Rec Cr (VI) 0.0500 0.0505 mg/L 101 85 - 115

Lab Sample ID: 480-210992-2 MS Client Sample ID: MW-3R **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 677008

Sample Sample Spike MS MS %Rec %Rec Analyte Result Qualifier Added Result Qualifier Unit Limits Cr (VI) ND 0.0500 0.0455 91 85 - 115 mg/L

Lab Sample ID: 480-210992-6 MS Client Sample ID: LS-1 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 677008

MS MS %Rec Sample Sample Spike **Analyte** Result Qualifier Added Result Qualifier Unit %Rec Limits Cr (VI) 0.031 0.0500 0.0876 mg/L 114 85 - 115

Lab Sample ID: 480-210992-1 DU Client Sample ID: MW-BR-1 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 677008

DU DU RPD Sample Sample Result Qualifier Result Qualifier RPD Analyte Unit D Limit Cr (VI) ND ND NC mg/L

Lab Sample ID: 480-210992-6 DU Client Sample ID: LS-1 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 677008

DU DU **RPD** Sample Sample Analyte Result Qualifier Result Qualifier Unit D **RPD** Limit Cr (VI) 0.031 0.0307 mg/L

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Client: LAN Associates Inc

Project/Site: Witmer Road G/W

Job ID: 480-210992-1

Prep Type: Total/NA

Method: SM 5310C - TOC

Lab Sample ID: MB 480-677668/28

Matrix: Water

Analysis Batch: 677668

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB RL **MDL** Unit Dil Fac Analyte Result Qualifier D Prepared Analyzed **Total Organic Carbon** 1.0 07/25/23 00:48 ND mg/L

Lab Sample ID: LCS 480-677668/29 **Client Sample ID: Lab Control Sample**

Matrix: Water Prep Type: Total/NA

Analysis Batch: 677668

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits **Total Organic Carbon** 60.0 90 - 110 58.55 mg/L 98

Client Sample ID: MW-BR-1 Lab Sample ID: 480-210992-1 DU

Matrix: Water

Analysis Batch: 677668

Sample Sample DU DU RPD Result Qualifier RPD Analyte Result Qualifier D Limit Unit Total Organic Carbon 3.3 3.10 20 mg/L

QC Association Summary

Client: LAN Associates Inc Job ID: 480-210992-1 Project/Site: Witmer Road G/W

GC/MS VOA

Analysis Batch: 677048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210992-1	MW-BR-1	Total/NA	Water	8260C	
480-210992-2	MW-3R	Total/NA	Water	8260C	
480-210992-3	MW-12	Total/NA	Water	8260C	
480-210992-4	MW-14N	Total/NA	Water	8260C	
480-210992-5	MW-5R	Total/NA	Water	8260C	
480-210992-6	LS-1	Total/NA	Water	8260C	
480-210992-7	Trip Blank	Total/NA	Water	8260C	
MB 480-677048/8	Method Blank	Total/NA	Water	8260C	
LCS 480-677048/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-677048/32	Lab Control Sample Dup	Total/NA	Water	8260C	

Metals

Prep Batch: 677109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210992-1	MW-BR-1	Total/NA	Water	7470A	
480-210992-2	MW-3R	Total/NA	Water	7470A	
480-210992-3	MW-12	Total/NA	Water	7470A	
480-210992-4	MW-14N	Total/NA	Water	7470A	
480-210992-5	MW-5R	Total/NA	Water	7470A	
480-210992-6	LS-1	Total/NA	Water	7470A	
MB 480-677109/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-677109/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 677170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210992-1	MW-BR-1	Total/NA	Water	3005A	
480-210992-2	MW-3R	Total/NA	Water	3005A	
480-210992-3	MW-12	Total/NA	Water	3005A	
480-210992-4	MW-14N	Total/NA	Water	3005A	
480-210992-5	MW-5R	Total/NA	Water	3005A	
480-210992-6	LS-1	Total/NA	Water	3005A	
MB 480-677170/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-677170/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-210992-1 MS	MW-BR-1	Total/NA	Water	3005A	
480-210992-1 MSD	MW-BR-1	Total/NA	Water	3005A	

Analysis Batch: 677192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210992-1	MW-BR-1	Total/NA	Water	7470A	677109
480-210992-2	MW-3R	Total/NA	Water	7470A	677109
480-210992-3	MW-12	Total/NA	Water	7470A	677109
480-210992-4	MW-14N	Total/NA	Water	7470A	677109
480-210992-5	MW-5R	Total/NA	Water	7470A	677109
480-210992-6	LS-1	Total/NA	Water	7470A	677109
MB 480-677109/1-A	Method Blank	Total/NA	Water	7470A	677109
LCS 480-677109/2-A	Lab Control Sample	Total/NA	Water	7470A	677109

Analysis Batch: 677394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210992-1	MW-BR-1	Total/NA	Water	6010C	677170

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QC Association Summary

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-210992-1

Metals (Continued)

Analysis Batch: 677394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210992-2	MW-3R	Total/NA	Water	6010C	677170
480-210992-3	MW-12	Total/NA	Water	6010C	677170
480-210992-4	MW-14N	Total/NA	Water	6010C	677170
480-210992-5	MW-5R	Total/NA	Water	6010C	677170
480-210992-6	LS-1	Total/NA	Water	6010C	677170
MB 480-677170/1-A	Method Blank	Total/NA	Water	6010C	677170
LCS 480-677170/2-A	Lab Control Sample	Total/NA	Water	6010C	677170
480-210992-1 MS	MW-BR-1	Total/NA	Water	6010C	677170
480-210992-1 MSD	MW-BR-1	Total/NA	Water	6010C	677170

General Chemistry

Analysis Batch: 677008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210992-1	MW-BR-1	Total/NA	Water	SM 3500 CR B	
480-210992-2	MW-3R	Total/NA	Water	SM 3500 CR B	
480-210992-3	MW-12	Total/NA	Water	SM 3500 CR B	
480-210992-4	MW-14N	Total/NA	Water	SM 3500 CR B	
480-210992-5	MW-5R	Total/NA	Water	SM 3500 CR B	
480-210992-6	LS-1	Total/NA	Water	SM 3500 CR B	
MB 480-677008/3	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 480-677008/4	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
480-210992-2 MS	MW-3R	Total/NA	Water	SM 3500 CR B	
480-210992-6 MS	LS-1	Total/NA	Water	SM 3500 CR B	
480-210992-1 DU	MW-BR-1	Total/NA	Water	SM 3500 CR B	
480-210992-6 DU	LS-1	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 677541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210992-1	MW-BR-1	Total/NA	Water	SM 2540C	
480-210992-2	MW-3R	Total/NA	Water	SM 2540C	
480-210992-3	MW-12	Total/NA	Water	SM 2540C	
480-210992-4	MW-14N	Total/NA	Water	SM 2540C	
480-210992-5	MW-5R	Total/NA	Water	SM 2540C	
480-210992-6	LS-1	Total/NA	Water	SM 2540C	
MB 480-677541/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-677541/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 677662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210992-1	MW-BR-1	Total/NA	Water	300.0	
480-210992-2	MW-3R	Total/NA	Water	300.0	
480-210992-3	MW-12	Total/NA	Water	300.0	
480-210992-4	MW-14N	Total/NA	Water	300.0	
480-210992-5	MW-5R	Total/NA	Water	300.0	
480-210992-6	LS-1	Total/NA	Water	300.0	
MB 480-677662/28	Method Blank	Total/NA	Water	300.0	
MB 480-677662/4	Method Blank	Total/NA	Water	300.0	
LCS 480-677662/29	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-677662/5	Lab Control Sample	Total/NA	Water	300.0	
480-210992-1 MS	MW-BR-1	Total/NA	Water	300.0	

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QC Association Summary

Client: LAN Associates Inc Job ID: 480-210992-1 Project/Site: Witmer Road G/W

General Chemistry

Analysis Batch: 677668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210992-1	MW-BR-1	Total/NA	Water	SM 5310C	
480-210992-2	MW-3R	Total/NA	Water	SM 5310C	
480-210992-3	MW-12	Total/NA	Water	SM 5310C	
480-210992-4	MW-14N	Total/NA	Water	SM 5310C	
480-210992-5	MW-5R	Total/NA	Water	SM 5310C	
480-210992-6	LS-1	Total/NA	Water	SM 5310C	
MB 480-677668/28	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-677668/29	Lab Control Sample	Total/NA	Water	SM 5310C	
480-210992-1 DU	MW-BR-1	Total/NA	Water	SM 5310C	

Analysis Batch: 677830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210992-1	MW-BR-1	Total/NA	Water	410.4	
480-210992-2	MW-3R	Total/NA	Water	410.4	
MB 480-677830/28	Method Blank	Total/NA	Water	410.4	
MB 480-677830/52	Method Blank	Total/NA	Water	410.4	
LCS 480-677830/29	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-677830/53	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 678013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210992-3	MW-12	Total/NA	Water	410.4	
480-210992-4	MW-14N	Total/NA	Water	410.4	
480-210992-5	MW-5R	Total/NA	Water	410.4	
480-210992-6	LS-1	Total/NA	Water	410.4	
MB 480-678013/3	Method Blank	Total/NA	Water	410.4	
MB 480-678013/75	Method Blank	Total/NA	Water	410.4	
LCS 480-678013/4	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-678013/76	Lab Control Sample	Total/NA	Water	410.4	
480-210992-3 MS	MW-12	Total/NA	Water	410.4	

Field Service / Mobile Lab

Analysis Batch: 678915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210992-1	MW-BR-1	Total/NA	Water	Field Sampling	
480-210992-2	MW-3R	Total/NA	Water	Field Sampling	
480-210992-3	MW-12	Total/NA	Water	Field Sampling	
480-210992-4	MW-14N	Total/NA	Water	Field Sampling	
480-210992-5	MW-5R	Total/NA	Water	Field Sampling	
480-210992-6	LS-1	Total/NA	Water	Field Sampling	

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Job ID: 480-210992-1

Client: LAN Associates Inc Project/Site: Witmer Road G/W

Client Sample ID: MW-BR-1

Date Collected: 07/19/23 11:48
Date Received: 07/19/23 15:15

Lab Sample ID: 480-210992-1

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	677048	ZN	EET BUF	07/20/23 12:36
Total/NA	Prep	3005A			677170	MP	EET BUF	07/21/23 08:33
Total/NA	Analysis	6010C		1	677394	LMH	EET BUF	07/21/23 21:51
Total/NA	Prep	7470A			677109	NVK	EET BUF	07/20/23 11:32
Total/NA	Analysis	7470A		1	677192	NVK	EET BUF	07/20/23 15:21
Total/NA	Analysis	300.0		5	677662	AF	EET BUF	07/25/23 21:58
Total/NA	Analysis	410.4		1	677830	DLG	EET BUF	07/26/23 02:14
Total/NA	Analysis	SM 2540C		1	677541	SAK	EET BUF	07/24/23 16:28
Total/NA	Analysis	SM 3500 CR B		1	677008	GW	EET BUF	07/19/23 15:43
Total/NA	Analysis	SM 5310C		1	677668	AF	EET BUF	07/25/23 07:37
Total/NA	Analysis	Field Sampling		1	678915	J1B	EET BUF	07/19/23 11:48

Client Sample ID: MW-3R

Date Collected: 07/19/23 13:55

Date Received: 07/19/23 15:15

Lab Sample ID: 480-210992-2

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	677048	ZN	EET BUF	07/20/23 13:00
Total/NA	Prep	3005A			677170	MP	EET BUF	07/21/23 08:33
Total/NA	Analysis	6010C		1	677394	LMH	EET BUF	07/21/23 22:21
Total/NA	Prep	7470A			677109	NVK	EET BUF	07/20/23 11:32
Total/NA	Analysis	7470A		1	677192	NVK	EET BUF	07/20/23 15:23
Total/NA	Analysis	300.0		5	677662	AF	EET BUF	07/25/23 23:56
Total/NA	Analysis	410.4		1	677830	DLG	EET BUF	07/26/23 02:17
Total/NA	Analysis	SM 2540C		1	677541	SAK	EET BUF	07/24/23 16:28
Total/NA	Analysis	SM 3500 CR B		1	677008	GW	EET BUF	07/19/23 15:43
Total/NA	Analysis	SM 5310C		1	677668	AF	EET BUF	07/25/23 08:36
Total/NA	Analysis	Field Sampling		1	678915	J1B	EET BUF	07/19/23 13:55

Client Sample ID: MW-12

Date Collected: 07/19/23 11:37

Date Received: 07/19/23 15:15

Lab Sample	ID: 480-210992-3
------------	------------------

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	677048	ZN	EET BUF	07/20/23 13:24
Total/NA	Prep	3005A			677170	MP	EET BUF	07/21/23 08:33
Total/NA	Analysis	6010C		1	677394	LMH	EET BUF	07/21/23 22:25
Total/NA	Prep	7470A			677109	NVK	EET BUF	07/20/23 11:32
Total/NA	Analysis	7470A		1	677192	NVK	EET BUF	07/20/23 15:24
Total/NA	Analysis	300.0		5	677662	AF	EET BUF	07/26/23 00:16
Total/NA	Analysis	410.4		1	678013	DLG	EET BUF	07/27/23 14:12
Total/NA	Analysis	SM 2540C		1	677541	SAK	EET BUF	07/24/23 16:28
Total/NA	Analysis	SM 3500 CR B		1	677008	GW	EET BUF	07/19/23 15:43

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Client: LAN Associates Inc Project/Site: Witmer Road G/W

Lab Sample ID: 480-210992-3

Matrix: Water

Job ID: 480-210992-1

Client Sample ID: MW-12 Date Collected: 07/19/23 11:37

Date Received: 07/19/23 15:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	SM 5310C		1	677668	AF	EET BUF	07/25/23 09:05
Total/NA	Analysis	Field Sampling		1	678915	J1B	EET BUF	07/19/23 11:37

Lab Sample ID: 480-210992-4

Matrix: Water

Client Sample ID: MW-14N Date Collected: 07/19/23 13:04 Date Received: 07/19/23 15:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	677048	ZN	EET BUF	07/20/23 13:48
Total/NA	Prep	3005A			677170	MP	EET BUF	07/21/23 08:33
Total/NA	Analysis	6010C		1	677394	LMH	EET BUF	07/21/23 22:28
Total/NA	Prep	7470A			677109	NVK	EET BUF	07/20/23 11:32
Total/NA	Analysis	7470A		1	677192	NVK	EET BUF	07/20/23 15:25
Total/NA	Analysis	300.0		5	677662	AF	EET BUF	07/26/23 00:35
Total/NA	Analysis	410.4		1	678013	DLG	EET BUF	07/27/23 14:12
Total/NA	Analysis	SM 2540C		1	677541	SAK	EET BUF	07/24/23 16:28
Total/NA	Analysis	SM 3500 CR B		1	677008	GW	EET BUF	07/19/23 15:43
Total/NA	Analysis	SM 5310C		1	677668	AF	EET BUF	07/25/23 09:34
Total/NA	Analysis	Field Sampling		1	678915	J1B	EET BUF	07/19/23 13:04

Client Sample ID: MW-5R

Date Collected: 07/19/23 12:46

Date Received: 07/19/23 15:15

Lab Sample ID: 480-210992-5

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	677048	ZN	EET BUF	07/20/23 14:13
Total/NA	Prep	3005A			677170	MP	EET BUF	07/21/23 08:33
Total/NA	Analysis	6010C		1	677394	LMH	EET BUF	07/21/23 22:32
Total/NA	Prep	7470A			677109	NVK	EET BUF	07/20/23 11:32
Total/NA	Analysis	7470A		1	677192	NVK	EET BUF	07/20/23 15:27
Total/NA	Analysis	300.0		5	677662	AF	EET BUF	07/26/23 00:55
Total/NA	Analysis	410.4		1	678013	DLG	EET BUF	07/27/23 14:12
Total/NA	Analysis	SM 2540C		1	677541	SAK	EET BUF	07/24/23 16:28
Total/NA	Analysis	SM 3500 CR B		1	677008	GW	EET BUF	07/19/23 15:43
Total/NA	Analysis	SM 5310C		1	677668	AF	EET BUF	07/25/23 10:03
Total/NA	Analysis	Field Sampling		1	678915	J1B	EET BUF	07/19/23 12:46

Client Sample ID: LS-1

Date Collected: 07/19/23 14:13

Date Received: 07/19/23 15:15

Lab Sample I	D: 480-210992-6
	Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	677048	ZN	EET BUF	07/20/23 14:37

Page 38 of 54

Eurofins Buffalo

Lab Chronicle

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Client Sample ID: LS-1 Lab Sample ID: 480-210992-6 Date Collected: 07/19/23 14:13

Matrix: Water Date Received: 07/19/23 15:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	3005A			677170	MP	EET BUF	07/21/23 08:33
Total/NA	Analysis	6010C		1	677394	LMH	EET BUF	07/21/23 22:36
Total/NA	Prep	7470A			677109	NVK	EET BUF	07/20/23 11:32
Total/NA	Analysis	7470A		1	677192	NVK	EET BUF	07/20/23 15:28
Total/NA	Analysis	300.0		5	677662	AF	EET BUF	07/26/23 01:14
Total/NA	Analysis	410.4		1	678013	DLG	EET BUF	07/27/23 14:12
Total/NA	Analysis	SM 2540C		1	677541	SAK	EET BUF	07/24/23 16:28
Total/NA	Analysis	SM 3500 CR B		1	677008	GW	EET BUF	07/19/23 15:43
Total/NA	Analysis	SM 5310C		1	677668	AF	EET BUF	07/25/23 10:32
Total/NA	Analysis	Field Sampling		1	678915	J1B	EET BUF	07/19/23 14:13

Client Sample ID: Trip Blank

Lab Sample ID: 480-210992-7 Date Collected: 07/19/23 00:00 **Matrix: Water**

Date Received: 07/19/23 15:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number /	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	677048	ZN	EET BUF	07/20/23 15:01

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LAN Associates Inc Job ID: 480-210992-1

Project/Site: Witmer Road G/W

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date
New York		NELAP	10026	03-31-24
The following analytes the agency does not do		report, but the laboratory is	s not certified by the governing authority.	This list may include analytes for whic
Analysis Method	Prep Method	Matrix	Analyte	
300.0		Water	Bromide	
Field Sampling		Water	Field EH/ORP	
Field Sampling		Water	pH, Field	
Field Sampling		Water	Specific Conductance	
Field Sampling		Water	Temperature, Field (C)	

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Method Summary

Client: LAN Associates Inc Project/Site: Witmer Road G/W Job ID: 480-210992-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
300.0	Anions, Ion Chromatography	EPA	EET BUF
410.4	COD	EPA	EET BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET BUF
SM 3500 CR B	Chromium, Hexavalent	SM	EET BUF
SM 5310C	TOC	SM	EET BUF
Field Sampling	Field Sampling	EPA	EET BUF
3005A	Preparation, Total Metals	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: LAN Associates Inc Project/Site: Witmer Road G/W Job ID: 480-210992-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-210992-1	MW-BR-1	Water	07/19/23 11:48	07/19/23 15:15
480-210992-2	MW-3R	Water	07/19/23 13:55	07/19/23 15:15
480-210992-3	MW-12	Water	07/19/23 11:37	07/19/23 15:15
480-210992-4	MW-14N	Water	07/19/23 13:04	07/19/23 15:15
480-210992-5	MW-5R	Water	07/19/23 12:46	07/19/23 15:15
480-210992-6	LS-1	Water	07/19/23 14:13	07/19/23 15:15
480-210992-7	Trip Blank	Water	07/19/23 00:00	07/19/23 15:15

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Amherst, NY 14228-2298

Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Cu	ıv	11	11	2

Environment Testing

Page 43 of 54

8/4/2023

Client Information					Lab Fis	PM: scher	, Bria	an J						0	Carrier Tracking No(s):			COC 480-	No: -186036-3	34887	7.1				
lient Contact:	Phone:	20	- 290	0.51	E-M	Aail:			Lour	ofinsu	6.00			7	State	of Origin:			_	Page);				7
eary Joiner ompany:		0	-18	PWSID:	Bil	all.F	ISCHE	-iwei	eur				_	_				_	_	Job #	e 1 of 1				\dashv
C Metals and Alloys LLC	Due Det	Requeste	vd:			+			_		An	alys	is f	₹eq	ues	ted			_	Pen	servation	Code			4
ddress: PO BOX 217							3													A - H			M - Hexane		
ity: Calvert City	TAT Req	uested (da	ys): 57]	 5.		10	Allest.													B-N	NaOH Zn Acetate	(N - None D - AsNaO2 P - Na2O4S		
itate, Zip:	Complia	nce Projec	t: A Yes			-11	1														Nitric Acid NaHSO4	(Q - Na2SO3		
(Y, 42029 Phone:	PO#:	nice Projec		. 140		-11	78.				1		먑							F-N	MeOH Amchlor	:	R - Na2S2O: S - H2SO4		
004-343-3087(Tel) 904-824-0726(Fax)	Purcha Wo#:	se Order	not require	d		- <u> </u>	100					Solids	ешр,								Ascorbic Ac	cia (T - TSP Dod U - Acetone	ecahydrate	
mail: gjoiner@ccmetals.com						20.0	No)		Demand			og pe	T,bnd,T			24.2	1	1		1	NI NATARA	,	V - MCAA		
Project Name: Nitmer Road G/W/ Event Desc; Witmer Road G/W	Project #: 48003429					(Yes or			n Der		4.2	otal Dissolved Solids (MOD) pH,Cond,Temp,Turb	pH,Co		Method	OLM									
Site:	SSOW#:		<u>:</u>				Perform MS/MSD (Yes	804	Oxygen		- TCL list OLM04.2	tal Die	(gov	9	cal Me	- (MOD) TCL list OLM04.2									
	-		ı		1	- Sp	IW.	gr, CI			listo	7 1		. Cr (VI)	(MOD) Local	2									
				Sample Type	Matrix (wowster,		II. IN	8D -	Chemical	7470A	TCL	Calcd	FieldSampling	CR_B	(MO	(MO		480	-210	992 (Chain of	Custo	ody		
			Sample	(C=Comp	S=nolid.	15	rfor	300.0_2	410.4 - (6010C,	8260C -	2540C_	IdSa	3500 C	5310C -	8260C -		- 1	11-6	31					
Sample Identification	Samp	ole Date	Time		BT=Tissue, A=		*	7		_			-					-	Tot	+	Specia	al Ins	tructions	/Note:	_
ANN PD 4	1	1	11116	-	vation Code		¥?	N	S	D	A Y	Z V	N_	7	s	A		+	1	1					
MW-BR-1	17/19	12023		6	Water	-	4/2	X	_	^	^	\wedge	-	~	7	1	+-	+	/	0					_
MW-3R		-	1355		Water		Ш	1	Ц	Ш	1	Ш	1	1	1	11	\bot	_	-						
MW-12			1137		Water				Ш						Ц				1						
MW-14N			1304		Water																				
MW-5R			1246		Water			П	П		T			П											
LS-1		V	1413	V	Water		14	10	d	~	d	J	V	N	1	V			9						
SW-1				-	vvater		-	\vdash	-					Ľ	Ľ			\Box	_	X Z	XY-	N	o Sar	nole	
Trip Blank	2/1	9/23			Water	_	$^{+}$	T	-	1	(1)				\vdash	(X)	\Box	\top		2					_
TIP WENT	71.	1/63	1		Water	, 1		+	十	+	7		-		+-	1		1							_
	+-		 			+	+	+-	\vdash	+	_	-	-	+-	+	++	++	1	-						_
	-		 		-	+	-	+	+	+	_	-	-	+-	+	++	+	\dashv	-+	+					_
							1		- 0		1/4		<u></u>							inad	longer th	han 4	monthl		_
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Po	oison P	☐ µµ	,now,n	Radiologi	ical		3			m To			may	TX.	Nier	osal By	sampie Lah	s are	\neg	rchive		ian i	Month	.5	
Deliverable Requested: I, II, III, IV, Other (specify)	JISON B	OTH	TOWIT	Radiologi	Cai		S			tructio			equi	reme	ents:	osar by	Lab_			Crite	1 0/		Month	-	_
Empty Kit Relinquished by:	-		Date:	-		T	Time):	_		_	_	_	-	-	Method	of Shipm	ent:	_	-					-
Relinquished by:	Date/T	ime: /			Company	_			eived	by.	_		_	_	_		Date/	Time:					Company		-
Shit fory	7/19/2023@ 1515 BH				16		Per	minus -	4 have							Data	/Time:							_	
Relinquished by	Date/1	ime:			Company			Rec	eived	by:							Date/	Time:	í				Company		
Relinquished by:	Date/T	ime:			Company			Red	ceived	Jan S	_						Date/	/Time:	2/2	3)	151	1	Company		_
Custody Seals Intact: Custody Seal No.:							_	Cod	oler T	empera	ture	s) °C a	ind O	ther R	Remai	rks:		7/15	1.						-
Δ Yes Δ No												,								8.	4	#			_
																							Ver: 06/0	08/2021	









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	Sar '	inn					FIELD S	AMPLING	DATA SH	IEET
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Ŏ		guid	ice							
SITE:		CCMA - Witn			SAMPLE LO	OCATION:			MW-BR1	
CLIENT:	: Conditions;	LAN Associa	one inc		JOB #: Temperature	a·			2341.001.0 20	
			D Port Ly		•				•	
SAMPLE	: ITPE:	Groundwater Sediment		×	Surface Wat Leachate	er	믐		Other (specify	():
					reactiate					
-	LEVEL DATA			()	95	TO 1 5		/:	47 →	7
	Vater Level (fl ed Well Dept				.95	Sample D		1148	9/23	_
	sing Diamete				2	Sampled		1	KIGJY	-
		Well Casing	(gal.):	3.8	L	Purge Me			istaltic	
	olume Purgeo			1.2	_, <u>,</u>					_
Depth to	water when	sampled (fee		12		J				
			X.	3=11:3	5 Zgan	/		Stabilizat	ion Criteria:	
				-	_				рH	± 0.1 unit
									SP. Cond.	± 3%
									Turbidity	± 10%
									DO	± 0.3 mg/L
									ORP	± 10 mV
						7	0 m//	/		
Purge w	ater stabilizat	ion readings:	Acc.	P	umping Rate:		1	T	Pressure (psi)	
	Time	SWL (ft.)	Volume (gal.)	pH (std.)	Temp. (F)	Sp. Cond. (uS)	Turbidity (NTU)	DO (mg/L)	Orp (mV)	Appearance and Odor
1	1010	12-7		754	55.0	603	1.85		88	Clear ludorless
2	1027 10	12.3	10.75	7.03	56.2		2.21		-132	CLEAR/SULFURY
3	1132	12.5	11.0	7.5	56.1	1278	2.62		~ 13:7	CLEAR SULFULY
4	1137	12.5	11.5	7.56	56.3	1268	1.99		-134	CLEAN/SULFULA
5	1142	12.5	11.75	7.52	56,1	1281	2.17		-176	CLEAR/SULFULY
6										
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11						<u> </u>				
12				****						
`		.1			<u> </u>		1	1	<u> </u>	
	Information:	12 -	11-	7	، اسم	1000	717		0/26	(/2 / /5 / 2 /
	// 7 5 _	12.5	11.75	4.52	76.1	1281	2.17	,	2/00	No Sediment
S2							<u></u>		<u></u>	NO SE SIMENT
Samples	s Collected (N	lumber/Type)		Site specific	parameters- 1	0 Bottles				
Samples	s Deivered to	Eurofir	ns Test Amer	ica	Date:		Time:			
COMME	NTS:		· · -				200	mL/mi	'n	
*			<u></u>					mujmi		
										
Rev. 05/13	(ACTIV)									

) .				<u> </u>		TELD 0	A DEDI INIO	DATACI		
	bari	[OM]					-IELD S	AMPLING	DATA SH	IEEI	
8	Sari	uld	ice								
SITE:		CCMA - Witr	ner Rd		SAMPLE LO	CATION:			MW-3R		
CLIENT:	Conditions:	LAN Associa	ates Inc		JOB #: Temperature	. ,			2341.001.0		
			201119	<u> </u>	•						
SAMPLE	: TABE:	Groundwater Sediment		×	Surface Wat Leachate	er	H		Other (specify	/);	
		Sediment			Leachale						
	LEVEL DATA	TOD),		I	4.98	Comple D	oto:	7/19	/2 2	1	
	/ater Level (ft ed Well Depth			11	- 7, 7 () 1.94	Sample D Sample Ti			355	-	
	sing Diamete			1	2	Sampled I			(CIX)		
	ed Volume in		(gal.):		1.13	Purge Me	hod:	Per	istaltic		
	lume Purged			/ . \$		-					
Depin to	water when	sampled:		, (e.54	1		Stabilizati	ion Criteria:		
									рН	± 0.1 unit	
									SP. Cond.	± 3%	
									Turbidity	± 10%	
									DO	± 0.3 mg/L	
									ORP	± 10 mV	
Purge wa	ater stabilizat	ion readings:	Acc.	P	umping Rate:	ì	1	I	Pressure (psi)):	
	Time	SWL (ft.)	Volume (gal.)	pH (std.)	Temp. (F)	Sp. Cond. (uS)	Turbidity (NTU)	DO (mg/L)	Orp (mV)	Appearance and Odor	
1	1332	4.98		8.65	63.4	1449	10.90		-27	Gear / Suffer	
2	1335	5.91	0125	9.10	59.4	1411	4.78	-	-46	clear Super	
3	(338	6.18	0.50	9.08	59.8	1395	3.28		-45	c/oc/sulfur	
4	1341	6.33	0.75	8.87	60.5	1346	2.91		3	dear/suther	
5	1344	6.43	1.0	8.89	59.3	1323	2.52		15	Clar Sviter	
6	1347	6.48	1-1	8.90	39.0	1308	276		19	dew/surhor	
7	1350	6.53	1.25	892	54.7	1298	264		28	Class Sulky	
8	1353	6.54	1.5	8.90		1300	234	ــــــــــــــــــــــــــــــــــــــ	27	Clas Suites	
9											
10											
11											
12				,							
Sample	Information:										
	1355	6.54	1.5	8.90	59.5	1300	2.34		27	cler/suffrode	5-
\$2										No Sediment	
Samples Collected (Number/Type): Site specific parameters- 10 Bottles											
Samples	Deivered to:	Eurofi	ns Test Amer	ica	Date:		Time:				
COMME	NTS:										
											_
											_
										<u>.</u>	-
Rev. 05/13	(MJK)										

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Bar	ion					FIELD S	AMPLING	DATA SH	EET	
Bar & 108	juid	ice								
SITE: CLIENT:	CCMA - With			SAMPLE LO				MW-5R 2341,001.0	23	
Weather Conditions:		Sunny		Temperature	r.			70.5		
SAMPLE TYPE:	Groundwater		X	Surface Wat	er			Other (specify) <u>:</u>	
	Sediment			Leachale						
WATER LEVEL DATA							,		***************************************	
Static Water Level (fl			-	7-52	Sample D		7/19	3/23		
Measured Well Depti				.85	Sample T			1246		
Well Casing Diamete		/anl li		2.0	Sampled I		T	(EIY)		
Calculated Volume in Total Volume Purged		(yai.).	2-25		Purge Me	nivu.	, Per	istaltic	J	
Depth to water when	·····		166		1					
	L	****		£	•		Stabilizati	ion Criteria:		
								рН	± 0.1 unit	
								SP. Cond.	± 3%	
								Turbidity	± 10%	
								DO	± 0.3 mg/L	
								ORP	± 10 mV	
					-		,			
Purge water stabilizat	ion readings:		Р	umping Rate:	30	10 mil	min	Pressure (psi):		
Time	SWL (ft.)	Acc. Volume (gal.)	pH (std.)	Temp. (F)	Sp. Cond. (uS)	Turbidity (NTU)	DO (mg/L)	Orp (mV)	Appearance and Odor	
1 1217	8102	_	858	545	950	5.14		120	cleur/odorloss	
2/225	11.65	0175	-	56.4	949	3.83		121	clear lo docless	
3 /230	13.12	1.0	9,03	56.6	945	3.86	_	43		
4/233	14.24	1.25	9.00	58.2	947	3.67	_	98		
5 1236	15.02	1.5	9,07	56.5	946	4.42		83		
61239	15.67	1.75	9.11	54.3		3.97		77		
71242	16.30	2.0	9.12	56.1	452	4,45		72		
	16-66	225	9.10	56.6	957					
	16,400	200	1 /(~	V6.0	137	4.60	,-	67		
9										
10										
11										
12		<u>. </u>			L					
Sample Information:										
S1 1246	Hocleb	2.15	9.10	86.6	957	4.20	_	67	Clear/oderless	
S2									No Sediment	
Samples Collected (Number/Type): Site specific parameters- 10 Bottles Samples Deivered to: Eurofins Test America Date: Time:										
COMMENTS:										
									· · · · · · · · · · · · · · · · · · ·	
Rev 05/13 (M/K)							*********			

Plan	itom.				ı	IELD S	AMPLING	DATA SH	EET		
		©									
Bar & Og	ZUIO	.ICE									
SITE:	CCMA - Witn	nor Dd		SAMPLE LO	CATION:			MW-12			
CLIENT:	LAN Associa			JOB #:	CATION.			2341.001.0	23		
Weather Conditions:		vnny		Temperature) :			70-s	>		
SAMPLE TYPE:	Groundwater	,	X	Surface Wat	er			Other (specify	r) <u>:</u>		
	Sediment			Leachate							
WATER LEVEL DAT					7				•		
Static Water Level				9.28	Sample D		2/	19/2023			
Measured Well Dep				0.12	Sample Ti		/	1/37			
Well Casing Diame		/1 \.	7.1	e 4	Sampled I			(GIY)			
Calculated Volume		(gai.):		7-5	Purge Me	noa:	Per	istaltic	J		
Total Volume Purged (gal.): 7-7-5 Depth to water when sampled: //3-7-											
					•		Stabilizati	ion Criteria:			
								рĦ	± 0,1 unit		
					į.			SP. Cond.	± 3%		
								Turbidity	± 10%		
								DO	± 0.3 mg/L		
								ORP	± 10 mV		
urge water stabiliz	ation readings:		Р	umping Rate:	1	Γ		Pressure (psi)			
Time	SWL (ft.)	Acc. Volume (gal.)	pH (std.)	Temp. (F)	Sp. Cond. (uS)	Turbidity (NTU)	DO (mg/L)	Orp (mV)	Appearance and Odor		
1 1042	122	2.0	7.77	53-6	1314	657		145	Clear dorlass		
2 1106	16.95	510	7.90	53.8	1317	7.13		111	clear odorless		
3 1115	18-31	6.5	8.12	545	1319	7.43	-	104	cheurl o dorloss		
4 1120	18-85	7.0	8.16	55.6	1310	7.19	-	86	Clear lodosloss		
5 1125	19.28	7.25	8.15	55-5	1308	10.6		89	Clear-SI. Haze		
6 1130	19.56	7.5	8.10	56-7	1309	13.10	_	83	St. Haze / odorloss		
7 1135		7-75			1307		_	77	SI-HOZE/NO		
8	1,,,,,	7 3	0.0 0	æ 5	1301	10.10			Odor		
9							. ,				
10				,01							
12					***************************************						
		1									
Sample Information			~ ~								
S1 1137	19.70	775	8.08	563	1307	10.40		77	NO FINES		
S2				<u> </u>					NO FINES		
Samples Collected (Number/Type): Site specific parameters- 10 Bottles											
Samples Deivered t	0: Fumfir	ns Test Amer	ica	Date:		Time:					
	Zuiolli	, , , , , , , , , , , , , , ,				THITO.					
COMMENTS:											

Rev. 05/13 (MJK)

		ton					IELD S	AMPLING	DATA SH	EET
8		ion Suid	ice	<u> </u>						
TE:		CCMA - Witn			SAMPLE LO	CATION:			MW-14N	
.IENT: eather Co	onditions:	LAN Associa	tes Inc	14	JOB #: Temperature	2;		7100	2341.001.0	23
MPLE T	YPE:	Groundwater		X	Surface Wat	er			Other (specify	v):
		Sediment			Leachale					
TER LE	VEL DATA									
	er Level (fl			1	35	Sample D		7/19/]
	Well Depti ng Diamete			1).43 2	Sample To Sampled I		1300	/ (/GJY	1
		Well Casing	(gal.):		۶)	Purge Me		1	istaltic	
	me Purged			4.32	5					_
oth to w	vater when	sampled:		9.5		J		Stabilizati	on Criteria:	
			X	3 = 5.	42				На	± 0.1 unit
									SP. Cond.	± 3%
									Turbidity	± 10%
									Turbidity DO	
									7	± 10% ± 0.3 mg/L ± 10 mV
									DO	± 0.3 mg/L
ge wate	er stabilizat	tion readings:		P	umping Rate:	1			DO	± 0.3 mg/L ± 10 mV
ge wate	<i>er stabilizat</i> Time	SWL (ft.)	Acc. Volume (gal.)	pH (std.)	umping Rate:	Sp. Cond. (uS)	Turbidity (NTU)	DO (mg/L)	DO ORP	± 0.3 mg/L ± 10 mV
1 /	Time	SWL (ft.)	Volume (gal.)	pH (std.)	Temp. (F)	Sp. Cond. (uS)	(NTU)	DO (mg/L)	DO ORP Pressure (psi) Orp (mV)	± 0.3 mg/L ± 10 mV Appearance and Odor
1 /	Time 227 744	SWL (ft.) 9,4 9.6	Volume	pH (std.) 6.94 7.79	Temp. (F) 57 56 6	Sp. Cond. (uS) 1465 1470	(NTU) 15.4 5.88		DO ORP Pressure (psi) Orp (mV)	± 0.3 mg/L ± 10 mV : Appearance and Odor CEAR/Chocks CEAR/Chocks
1 / 2 / 3 /	Time 227 244 244	SWL (ft.) 9.4 9.6 9.5	Volume (gal.) — 2.5	pH (std.) 6.94 7.79 7.51	Temp. (F) 57 56 6 56 .8	Sp. Cond. (uS) 1465 1470 1490	(NTU) 15.4 5.88 5.65		DO ORP Pressure (psi) Orp (mV)	± 0.3 mg/L ± 10 mV Appearance and Odor CLEAR/ODORLES CLEAR/ODORLES CLEAR/ODORLES
1	Time 227 244 244 1254	9,4 9,6 9,5 9,5	Volume (gal.)	pH (std.) 6.94 7.79 7.51 7.53	Temp. (F) 57 56 6 56 7 57	Sp. Cond. (US) 1465 1470 1490	(NTU) 15.4 5.88 5.65 5.65		DO ORP Pressure (psi) Orp (mV) -12 -13 -21	± 0.3 mg/L ± 10 mV Appearance and Odor CEAR/COCLES CLEAR/COCLES CLEAR/COCLES CLEAR/COCLES CLEAR/COCLES
1	Time 227 244 244	SWL (ft.) 9.4 9.6 9.5	Volume (gal.) — 2.5	pH (std.) 6.94 7.79 7.51	Temp. (F) 57 56 6 56 7 57	Sp. Cond. (uS) 1465 1470 1490	(NTU) 15.4 5.88 5.65		DO ORP Pressure (psi) Orp (mV) -12 -13	± 0.3 mg/L ± 10 mV Appearance and Odor CLEAR/ODORLES CLEAR/ODORLES CLEAR/ODORLES
1	Time 227 244 244 1254	9,4 9,6 9,5 9,5	Volume (gal.)	pH (std.) 6.94 7.79 7.51 7.53	Temp. (F) 57 56 6 56 7 57	Sp. Cond. (US) 1465 1470 1490	(NTU) 15.4 5.88 5.65 5.65		DO ORP Pressure (psi) Orp (mV) -12 -13 -21	± 0.3 mg/L ± 10 mV Appearance and Odor CEAR/ODORES CEAR/ODORES CIFAR/ODORES CIFAR/ODORES CIFAR/ODORES
1 1 2 3 1 3 1 4 1 5 1	Time 227 244 244 1254	9,4 9,6 9,5 9,5	Volume (gal.)	pH (std.) 6.94 7.79 7.51 7.53	Temp. (F) 57 56 6 56 7 57	Sp. Cond. (US) 1465 1470 1490	(NTU) 15.4 5.88 5.65 5.65		DO ORP Pressure (psi) Orp (mV) -12 -13 -21	± 0.3 mg/L ± 10 mV Appearance and Odor CEAR/ODORES CEAR/ODORES CIFAR/ODORES CIFAR/ODORES CIFAR/ODORES
1 1 2 3 1 3 1 5 1 6	Time 227 244 244 1254	9,4 9,6 9,5 9,5	Volume (gal.)	pH (std.) 6.94 7.79 7.51 7.53	Temp. (F) 57 56 6 56 7 57	Sp. Cond. (US) 1465 1470 1490	(NTU) 15.4 5.88 5.65 5.65		DO ORP Pressure (psi) Orp (mV) -12 -13 -21	± 0.3 mg/L ± 10 mV Appearance and Odor CEAR/COCLES CLEAR/COCLES CLEAR/COCLES CLEAR/COCLES CLEAR/COCLES
1	Time 227 244 244 1254	9,4 9,6 9,5 9,5	Volume (gal.)	pH (std.) 6.94 7.79 7.51 7.53	Temp. (F) 57 56 6 56 7 57	Sp. Cond. (US) 1465 1470 1490	(NTU) 15.4 5.88 5.65 5.65		DO ORP Pressure (psi) Orp (mV) -12 -13 -21	± 0.3 mg/L ± 10 mV Appearance and Odor CEAR/COCCES CEAR/COCCES CLEAR/COCCES CLEAR/COCCES CLEAR/COCCES
1	Time 227 244 244 1254	9,4 9,6 9,5 9,5	Volume (gal.)	pH (std.) 6.94 7.79 7.51 7.53	Temp. (F) 57 56 6 56 7 57	Sp. Cond. (US) 1465 1470 1490	(NTU) 15.4 5.88 5.65 5.65		DO ORP Pressure (psi) Orp (mV) -12 -13 -21	± 0.3 mg/L ± 10 mV Appearance and Odor CEAR/ODORES CEAR/ODORES CIFAR/ODORES CIFAR/ODORES CIFAR/ODORES
1	Time 227 244 244 1254	9,4 9,6 9,5 9,5	Volume (gal.)	pH (std.) 6.94 7.79 7.51 7.53	Temp. (F) 57 56 6 56 7 57	Sp. Cond. (US) 1465 1470 1490	(NTU) 15.4 5.88 5.65 5.65		DO ORP Pressure (psi) Orp (mV) -12 -13 -21	± 0.3 mg/L ± 10 mV Appearance and Odor CEAR/COCLES CLEAR/COCLES CLEAR/COCLES CLEAR/COCLES CLEAR/COCLES
1	Time 227 244 244 1254	9,4 9,6 9,5 9,5	Volume (gal.)	pH (std.) 6.94 7.79 7.51 7.53	Temp. (F) 57 56 6 56 7 57	Sp. Cond. (US) 1465 1470 1490	(NTU) 15.4 5.88 5.65 5.65		DO ORP Pressure (psi) Orp (mV) -12 -13 -21	± 0.3 mg/L ± 10 mV Appearance and Odor CEAR/COCLES CLEAR/COCLES CLEAR/COCLES CLEAR/COCLES CLEAR/COCLES

Samples Collected (Number/Type): Si	ite specific parameters- 10 Bottles
-------------------------------------	-------------------------------------

Samples Deivered to:	Eurofins Test America	Date:	Time:	

COMMENTS:	@350 mL/min
Rev. 03/13 (MJK)	

Bart			FIELD SAMPLING DATA SHEET				
	on uidice						
SITE:	CCMA - Witmer	Rd	SAMPLE LOCATION:	•	SW-1		
CLIENT: Weather Conditions:	LAN Associates		JOB #: Temperature:		2341.001.023		
SAMPLE TYPE:	Groundwater Sediment		Surface Water Leachate	X	Other (specify):		
WATER LEVEL DATA							
Static Water Level (feet)*:					Measuring Point:		
Measured Well Depth (fee					Measured by: Date:		
Well Casing Diameter (inc Calculated Volume in Wel	il Casino (gallons):				Time:		
	measuring point	l	······································				
PURGING METHOD							
Equipment:	Bailer		Submersible Pump		Air Lift System		
	Non-dedicated		Foot Valve		Peristaltic Pump		
	Dedicated		Bladder Pump		Grab		
	Water To Be Purged (gallons ume of Water Purged (gallons					_	
	Did well purge dry?	No	Yes				
	Did well recover?	No [Yes		Recovery Time:	\rightarrow	
SAMPLING METHOD							
Equipment:	Bailer	\Box	Submersible Pump		Air Lift System		
	Non-dedicated		Foot Valve		Peristaltic Pump		
	Dedicated		Bladder Pump		Sample Bottle	X	
Sampled by: JDK/GJY	Tim	ne:	∖ Date:				
SAMPLING DATA							
Sample Appearance							
Color:			Sediment:				
Odor;			- \				
Field Measured Paramete	rs						
pH (Standard Units)			Sp. Conductivity (umhos Eh-Redox Potential (m/	s/cm)			
Temperature (F) Turbidity (NTU)			Dissolved Oxygen (mg/l	/) L)			
			\			······································	
Samples Collected (Numb	per/Typel:	_	\				
Site specific parameters-		<u> </u>					
(
Samples Delivered to:	Eurofins Test America		Time:	_ Date:			
COMMENTS:	,						
Sample	location DRY	1-NO F	low/water -	NO S	andale		
						· · · · · · · · · · · · · · · · · · ·	
Rev. 3/14 (MPS)							

Bart	on uidice	FIELD SAMPI	LING DATA SHEET
& <u>log</u>	uidice		
SITE: CLIENT: Weather Conditions:	CCMA - Witmer Rd LAN Associates Inc Sレルルツ	SAMPLE LOCATION: JOB #: Temperature:	LS-1 2341.001.023 80-5
SAMPLE TYPE:	Groundwater	Surface Water Leachate X	Other (specify):
WATER LEVEL DATA			
Static Water Level (feet) Measured Well Depth (fe Well Casing Diameter (ir Calculated Volume in We *depth from	eet)*: Tches):		Measuring Point: Measured by: Date: Time:
PURGING METHOD Equipment:	Bailer Non-dedicated Dedicated	Submersible Pump Foot Valve Bladder Pump	Air Lift System Peristaltic Pump Grab
	f Water To Be Purged (gallons): ume of Water Purged (gallons):		
Actual Voj	Did well recover? No	Yes	Recovery Time:
SAMPLING METHOD Equipment:	Bailer X Non-dedicated X Dedicated X	Submersible Pump Foot Valve Bladder Pump	Air Lift System Peristaltic Pump Sample Bottle
Sampled by: JDK/GJY	Time: <u>(413</u>	Date: 7/19/23	
SAMPLING DATA Sample Appearance Color:	None	Sediment: <u>S. Hlable</u>	50/1.1 s
Field Measured Paramet pH (Standard Units) Temperature (F) Turbidity (NTU)	ers 9,13 62.9 2.76	Sp. Conductivity (umhos/cm) Eh-Redox Potential (mV) Dissolved Oxygen (mg/L)	1297
Samples Collected (Num Site specific parameters-	- ,		
Samples Delivered to:	Eurofins Test America	Time:Dat	e:
COMMENTS: Last +	talled New bailer + Sta New String each	ring, Client populated time Sampling	New bailer
Rev. 3/14 (MPS)			

Barton & Ioguidice

Calibration Record

Project No:
Calibrated By:
pH Instrumen
Standard
p⊢
p⊢
рН

2341 001,023

Date: $\frac{7/19/23}{}$

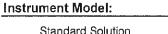
TJB

Time: <u>0945</u>



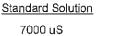
Standard Solution	<u>(</u>	Calibration Reading	Acceptable Range
pH 4:	4,145	> 4.00	(+/- 1.0 pH, pH 3.0 - 5.0)
рН 7:	701-	~> 7.0°	(+/- 1.5 pH, pH 5.5 - 8.5)
pH 10:	9.900	10.00	(+/- 1.0 pH, ph 9.0 - 11.0)

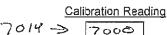
Sp.Conductivity





Myron 6P

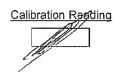




Acceptable Range (+/- 1.0 % Error)

ORP instrument Model:

Standard Solution



Acceptable Range
Myron 6p ORP

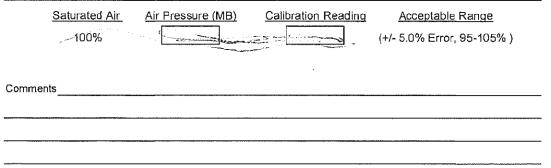
Myron 6p ORP calibration is calculated by pH and SPC values

Turbidimeter Model:

Lamotte 2020t

Standard Solution	Calibration Reading	Acceptable Range
0.0	Blank	Blank 0,0 NTU
1.0	0,56,0,85	(0.5-1.5 NTU)
10.0	10.77 100	(8-12 NTU)

Dissolved Oxygen Meter Model: YSI EcoSense



Barton & Toguidice

Calibration Record

		i i
Project No:	2341.001.023	Date: <u>7/19/2</u> 3
Calibrated By:	634	Time: 0945
	1	
pH Instrument Model:	Myron 6P	
Standard Solution	Calibration Readir	ng Acceptable Range
pH 4;	412- 400	(+/- 1.0 pH, pH 3.0 - 5.0)
pH 7:	6.650 200	(+/- 1.5 pH, pH 5.5 - 8.5)
pH 10:	4.12 - 4.00 6.65 - 2.00 10.10 - 10.00	(+/- 1.0 pH, ph 9.0 - 11.0)
Sp.Conductivity		
Instrument Model:	Myron 6P	
Standard Solution	Calibration Readir	ng Acceptable Range
7000 uS	7013- 7000	(+/- 1.0 % Error)
ORP Instrument Model	: Myron 6P	
Standard Solution	Calibration Readir	ng Acceptable Range
		Myron 6p ORP
		calibration is calculated by pH and
		SPC values
Turbidimeter Model:	Lamotte 2020t	
Standard Solution	<u>Calibration Readin</u>	g Acceptable Range
0.0	Blank	Blank 0.0 NTU
1.0	1.450 1.00	(0.5-1.5 NTU)
10.0	10.02 - 10.00	(8-12 NTU)
Dissolved Oxygen Mete	er Medel: YSI EcoSense—	
Saturated Air	Air Pressure (MB) Calibration Readin	ng Acceptable Range
100%		(#/- 5.0% Error, 95-105%)
Comments		

10 Hazelwood Drive

Amherst, NY 14228-2298

Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

🔆 eurofins

Environment Testing

Client Information	Phone: 585 298 05/1 Briar					w: ner, Brian J							ľ	Carrier Tracking No(s);						COC No: 480-186036-34887.1				
lient Contact: Bary Joiner	Phone:	586	298	0511	E-A	fail: ian.Fi			eur	ofinsu	s co	ım		1	State o	of Orig	in:				Pag	ge 1 of 1		
ompany: CC Metals and Alloys LLC		ي و	-70	PWSID:		ian.r	SCITE	i we	eur	JIII ISU		alys	is F	i Regi	rest	ted					Job			
	Due Date	Requeste	d:									Ī										eservation Codes	: I - Hexane	
ity: Calvert City	TAT Requested (days):																				В.	NaOH C	l - None) - AsNaO2	
state, Zip: KY, 42029	Complia	nce Project	ン / Δ E Δ Yes Δ			4															D.	- Nitric Acid	- Na2O4S 2 - Na2SO3	
Phone:	PO#:												Turb,								G	- Amchior S	R - Na2S2O3 6 - H2SO4 7 - TSP Dodeca	ahvdrate
004-343-3087(Tel) 904-824-0726(Fax) mail: gjoiner@ccmetals.com	WO#.	se Order	not required			Or No)	(O)		Demand			sd Solids	nd,Tem			14.2				2	1-	lce -Di Waler	J - Acelone / - MCAA W - pH 4-5	anyurate
ProjectName: Witmer Road G/W/ Event Desc; Witmer Road G/W	Project # 480034) (Xe	Section		on Der		2	ssolve	pH,Cc		Method	OFWG		-		talne	L	- EDIA	r - Trizma Z - olher (speci	ity)
Site:	SSOW#:					amp	3D (Y	CI, SO.	Охудеп		OLM0	otal D	(MOD)	<u>Ş</u>	ocal M	CL list				ofcor	Ot	her:		
Sample Identification	Samr	ole Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W-water, Sesolid, Ownestable	aid Elité	Perform MS/MSD (Yes or No)	300.0_28D - Br, C	410,4 - Chemical	6010C, 7470A	8260C - TCL (ist OLM04.2	2540C_Calcd - Total Dissolved	FieldSampling - (MOD) pH,Cond,Temp,Turb	3500_CR_B - Cr	5310C - (MOD) Local	8260C - (MOD) TCL list OLMO				Total Number of containers		Special Ins	tructions/N	Inte:
Complete Identification				Preserva			∇		s	4.100mmter	acctored to	- Wieneste	_		S	A				垓	1	Special IIIs		O(c)
MW-BR-1	7/19	boz3	1148	6	Water		N	X	X	X	X	X	•	X	X	X				1	Ø			
MW-3R			1355	1	Water						1	1		ŀ	1	1				1				
MW-12			1137		Water																			
MW-14N			1304		Water	-	П	П				П		Π	П	1								
MW-5R			1246		Water	٠	\prod	П			П	П		П	П	\prod			\top					
LS-1			1413	V	Wate	۲ .	1	9	a	1	d	J	V	1	V	W				A.	X8039			
SW-1					Vvate	-	F			-	-	-		Ľ		_	_				N.	DRY-N.	o San	ple.
Trip Blank	7/1	9/23			Wate	r										K	>			7				
					Wate	r														E.				
																				100				
																				M.				
Possible Hazard Identification	ison B	□ _{Unk}	nown 🗀	Radiologica	ai											ssec osal	l if sa By La	imple ib	s are	retai 	inec chiv	i longer than 1 re For	month) Months	
Deliverable Requested: I, II, III, IV, Other (specify)							Sp	ecia	i Inst	ructio	ns/C	QC R	equi	reme	nts:									
Empty Kit Relinquished by:			Date:				Time									Met	hod of	Shipm						
Relinquished by Jut Jamp	Date/Ti	1/9/20	236	1515	Company	46			ceived								Date/Time;						Company	
Relinquished by:	Date/T	ime:			Company			Rec	ceived	by:								Date/Time:					Company	
Refinquished by:	Date/T	нте:			Company			Re	ceived	3			-					Date	Tirle:	2 /a	1)	1515	Company	
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No								Co	oler T	empera	sture(s)°C	and O	ther R	emar	ks;		/	11	1				
																							Ver: 06/08/	/2021

Login Sample Receipt Checklist

Client: LAN Associates Inc Job Number: 480-210992-1

Login Number: 210992 List Source: Eurofins Buffalo

List Number: 1 Creator: Stopa, Erik S

Creator: Stopa, Erik S		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	B+L
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Eurofins Buffalo

APPENDIX 7

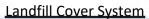
Photographic Documentation 2020 - 2023

2020 Photographic Documentation



2020 Photographic Documentation

Witmer Road Annual Inspection Post Mowing & Maintenance





From the top of road on to cell 1 looking SW

10/26/20 NWP



On top of cell 1 looking SE

10/26/20 NWP





From road on top of cell 2 looking North

10/26/20 NWP



Northwest field looking East at cell 1

10/26/20 NWP



Stormwater Conveyance System.

North West Culverts:



Stormwater drainage plastic culvert, minor damage, no standing water

10/26/20 NWP

South Central/South East Culverts:







Large plastic stormwater conveyance culvert, undamaged

10/26/20 NWP



Surface water drainage culvert SW-1, undamaged

10/26/20 NWP



Sump Collection Tank



Sump Collection Tank (LS-1)

10/26/20 NWP

Monitoring Wells



MW-5R

10/26/20 NWP





MW-BR1

10/26/20 NWP



MW-14N

10/26/20 NWP













Rusty lock that won't close on well outer casing

10/26/20 NWP

Fencing



Southeast corner fencing, good condition





Northeast corner fencing, good condition 10/26/20 NWP



Northwest corner fencing, good condition 10/26/20 NWP





New barbed-wire along northern portion of Witmer Rd. fence, good condition

10/26/20 NWP

Witmer Road Annual Landfill Inspection



MW BR-1



MW BR-1 broken pad, needs to be repaired





MW-5R MW-14N



Sump Collection Tank (LS-1)



MW-3R



Western fence line along adjacent plant property



Low-lying stormwater drainage area



Culvert inlet and drainage swale



Southern fence line

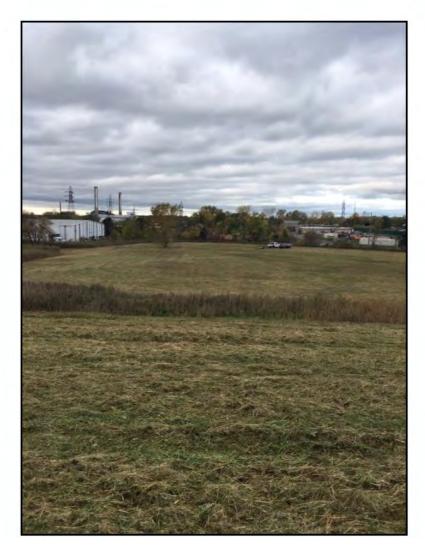




On top of landfill



Divide between the landfills





View of cattails from top of landfill, looking towards Witmer Road

Cattails require mowing/control



View of cattails to the west of adjacent plant



View of cattails at base of landfill

Cattails require mowing/control



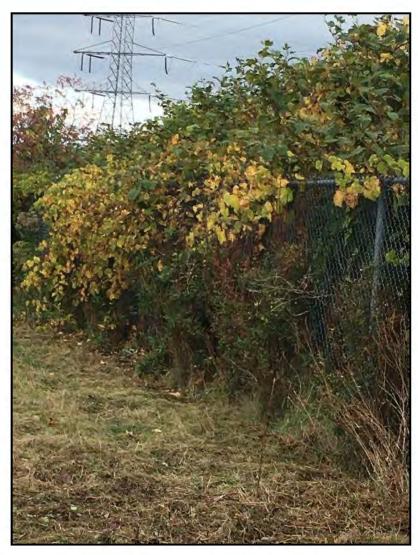
Trees on northeast corner of landfill to be removed



Trees on northeast corner of landfill to be removed



Northern fence line



Vegetation growing on fence, apply herbicide

Witmer Road Annual Landfill Inspection

Monitoring Wells:



MW-BR1 with new surface seal



MW-3R near northern fence line



MW-14N in central south field

MW-12 with broken lock

Monitoring Wells Continued



MW-5R near central southern field

Leachate







Broken mechanical component, may not need repair

Surface Water Sample Location



SW-1 in southwestern corner

Willow Tree Removal



Dead willow tree removed



Dead willow removed view from front

Tree Cluster Removal from Landfill Slope



Trees removed from northeast corner of Cell 1



Cell 1 cluster from further away



Trees removed from northern slope of Cell 2



Tree cluster on cell 2 from above

Large Willow Tree Trimming



Two branches removed that were touching top of fence and trailer on adjacent property



Clearance above northern fence and trailer

Fencing and Gates



Main gate and fence



Old gate no longer used to facility is locked



Open gate to the facility at the western fence

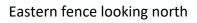


Sapling to be removed in southwest corner

Fencing and Gates Continued



Vegetation on other side of southern fence





Northeast corner, note herbicide killing vines



Northern fence

Plastic Culverts

Below group of photos of stormwater culverts. Most had minor damage to plastic but were clear and were functioning as designed. See Corrective Actions Map for culvert locations.



Top of the landfill



Rebar sticking out of landfill slope



Gas vent on top of landfill Cell 1



Top of landfill looking southwest



Gas vent on top of landfill cell 1



On landfill looking South



On the landfill looking Northeast



On top of the landfill looking north



On top of landfill looking east





Gas vent on top of landfill cell 2

On top of the landfill looking west toward entrance



Landfill Prior to Mowing



Landfill Prior to Mowing



Landfill Prior to Mowing



Landfill Prior to Mowing



Landfill Prior to Mowing



Mowed Site Overview Photos



Atop The Landfill Looking South



Atop The Landfill Looking North



Atop The Landfill Looking East



Atop The Landfill Looking West



Mowed Adjacent Areas to The Landfill



Recently Mowed Landfill



Recently Mowed Landfill



Recently Mowed Landfill



Recently Mowed Landfill



Wells & Leachate Slump & SW-1







MW-5R



SW-1



MW-5R



Wells & Leachate Slump & SW-1



Leachate Sump



MW-14 N



MW-14 N



MW-3R



Wells & Leachate Sump & SW-1



Sampling MW-BR1



Sampling MW-BR1



Leachate Tank w/ Liquid



Sampling MW-12



Wells & Leachate Sump & SW-1



Sampling MW-12



Sampling MW-12



B & L Sample Truck & Equipment



Fencing



Main Gate Off Witmer Road



West Fence Looking W to SE



West Fence Gate



Fencing



South Fence Looking West to East



Fence S to N along SE Property Line



Fence Along East Property Line



Fencing



Fence Along The East Property Line



Fence Along North Property Line E to W



Drainage/Culvert



Drainage Culvert in Stormwater System



Drainage Culvert in Stormwater System





#1 Willow Tree Overhanging N Fence



#1 Willow Tree Overhanging N Fence



#1 Dead Tree & Willow Tree Overhanging N Fence





#2 Need to Prune Tree Along Fence



#2 Need to Prune Tree Along Fence





#3 Remove Tree Limbs Overhanging Fence



#3 SW Remove Tree Limbs Overhanging Fence





#4 Remove Undergrowth & Branches in Landfill Cell



#4 Remove Undergrowth & Branches in Landfill Cell





#5 Remove Trees Growing Into Landfill Cell



#5 Remove Trees Growing Into Landfill Cell





#6 Place Stakes To Mark Pipe Ends & Clean-Out Vegetation



#6 Place Stakes To Mark Pipe Ends & Clean-Out Vegetation