Periodic Review Report

Former Consolidated Iron and Metal

EPA Site Number: NY0002455756
NYSDEC Site Number: 336055

Washington Avenue
City of Newburgh
Orange County, New York

THE Chazen COMPANIES®
Proud to be Employee Owned
Engineers
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Landscape Architects

Prepared for:

City of Newburgh
83 Broadway
Newburgh, NY 12550

December 2021

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Prepared by:

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1.0 INTRODUCTION

At the request of the City of Newburgh, Chazen Engineering, Land Surveying, Landscape Architecture & Geology Co., D.P.C. (Chazen), now a LaBella Associates company, has prepared this Periodic Review Report (PRR) for submission to the United States Environmental Protection Agency (EPA) and the New York State Department of Environmental Conservation (NYSDEC). The report was prepared for the Former Consolidated Iron and Metal Property (the "Site"), located at 1 Washington Street, City of Newburgh, Orange County, New York. A Site Location Map is included as Figure 1.

The PRR was prepared in compliance with NYSDEC DER-10 and the general requirements of the Site Management Plan (SMP) prepared by CT Male, Inc. as approved by the EPA on June 27, 2014. This is the sixth PRR prepared for the Site since completion of the Remedial Action Program.

The annual 2021 sampling event was conducted on the typical schedule, in the 4th quarter of the year. The PRR is submitted before the end of the year although not due until June 15, 2021 to accommodate the City's fiscal year for project budgeting.

The Site is an approximately 8.3-acre parcel of vacant land abutting the western shore of the Hudson River. It is bounded by an active marina to the north, CSX railway and Water Street to the west, and the City Sewer Treatment plant to the south. The site is relatively flat with a slight gentle slope from west to east and an 8-foot high steep embankment at the river's edge. During 2021, the site has continued to be used passively as a mowed public access area and provides a location for a fenced sanitary sewer pumping station at the southwest corner.

1.1 SITE HISTORY

An extensive history of Site operations, investigations, and remedial actions performed to date is included in the approved Site Management Plan. A brief summary is included below:

The Site was historically used as a shipyard from the early 1900s through the 1940s and then for scrap metal collection and reclamation until 1999. The scrap metal operation resulted in the on-site accumulation of hazardous compounds that included volatile and semi-volatile organic compounds, polychlorinated biphenyls, and EPA Priority Pollutant metals.

A number of investigations and removal actions were performed by EPA and NYSDEC between 1998 and 2013 resulting in the removal of above-grade waste and debris, and targeted excavation and off-site disposal of impacted soils from grade to six feet below grade or the water table.

A demarcation barrier-layer and protective clean soil cover system was placed across the site to restrict potential human contact with residually-impacted soils. Original soils remaining on site in areas where excavation was not required meets or is less than Restricted-Residential Use Soil Clean-up Objectives pf 6 NYCRR 375-6.8(b).

Residual groundwater impacts have remained at the Site that exceed ambient water quality standards. Groundwater in the area is not used for potable drinking water and there are no significant downgradient ecological resources.

Potential Soil Vapor Intrusion (SVI) was evaluated during the remedial investigations. There are no on-site buildings at this time. The potential for SVI to adversely impact off-site buildings was determined to be insignificant.

Based on the remedial work completed, the Site was reclassified in August 2014 from Class 2 to Class 4 in the New York State Registry of Inactive Hazardous Waste Sites. This indicates that remediation has been completed to the point where the site no longer poses an immediate threat to human health or the environment. Continued site management is required until all on-site media achieve the Remedial Action Objectives established in the ROD.

1.2 SITE MANAGEMENT

The detailed requirements for Site Management are specified in the SMP and summarized as follows:

- Periodic visual inspection of approved Engineering Controls and appropriate maintenance as warranted;
- Compliance with the approved Institutional Controls with appropriate notification and implementation of protective measures if site uses are altered;
- Periodic monitoring of environmental media to evaluate the continued effectiveness of the remedy; and,
- Periodic reporting

Based on the currently approved schedule included in the SMP, each of the above tasks is completed once annually.

2.0 ENGINEERING AND INSTITUTIONAL CONTROLS

A detailed description of the Engineering and Institutional Controls (EC/ICs) for the Site is included in the SMP and summarized below.

The ECs include:

- A soil cover system (including the shoreline erosion control blanket and drainage); and,
- A site perimeter fence to restrict site access.

The ICs include:

- An environmental easement that requires;
    - Periodic inspection and maintenance (as required) of the ECs,
    - Periodic monitoring of on-site media;
    - Restrictions on future Site development and uses;
    - Requirements for modifications to future site uses;
    - Requirements for notification and approval of modifications/disturbance to the ECs;
    - Requirements for evaluation of potential vapor impacts associated with future redevelopment of the Site; and,
- Periodic evaluation of the effectiveness of the remedy.

A visual assessment of ECs for the site was conducted by Chazen personnel on October 11, 2021 and is described in Section 2.1. Periodic sampling of groundwater also occurred on October 11, 2021. The sampling methods and procedures are described in Section 2.2. Laboratory analysis was provided by York Environmental Laboratories. The laboratory results are discussed in Section 3.

The required EC/IC certification is attached in **Appendix A**.

2.1 SITE INSPECTION

The site is rectangular vacant parcel approximately 450 feet wide (east to west) and 800 feet long (north to south) abutting the western shore of the Hudson River. It is a relatively planar site with a gentle dip from west to east. The site is mowed and has pedestrian trails allowing the property to be used as a low-impact public access area. There is a standard 96”-high perimeter security fence on the upland northern, western, and southern property boundary with access gates near the northwest and southwest corners. The shoreline along the river is open but not readily accessible (no landing, with a steep rip-rap embankment). A public access gate is located along the northern security fence.

Visual inspection of the site was performed by Chazen personnel on October 11, 2021. Commencing at the northwest corner of the site, the site perimeter was followed in a counter-clockwise direction to observe the condition of the perimeter fence and erosion control blanket along the river front.

Interior areas were inspected while traversing the site to access the monitoring wells for sampling. A site map with approximate locations of the traverses and photos are included in **Appendix B**.

The following observations were noted during the site walk:

- The perimeter fence appeared to be intact with no evidence of tampering or damage. Vegetation in some areas could damage the fence if allowed to continue to grow but has not yet caused an issue.

- The eastern boundary abutting the Hudson is steeply sloped with a heavy rip-rap erosion blanket approximately 25 feet wide. Based on the topographic survey, the rip-rap extends from an elevation 8 feet AMSL to approximately 0 feet AMSL. Accumulated driftwood parallel to the shoreline is present up to about 9 feet AMSL. No evidence was observed of any significant scouring or sloughing of the soils from surface drainage or development of surface drainage channels.

- The perimeter of the site is vegetated with small trees and shrubs along the fence line and top of bank along the riverfront. The interior is predominantly an open field with wild grass, flowers, and weeds with a few small scrub bushes. No heavy growth or deep rooting brush, thickets, or trees were observed in the field.

- A gravel walking path installed in 2017 extends from the northern fence line to the shore. Several picnic tables with grills and bleacher seats are located within open mowed areas. The footpaths show no adverse impact of the underlying soil cover system.

- There is a fenced sanitary sewer pumping station on the site near the southwest corner within the perimeter. Chazen understands this station was installed as part a municipal sewer system upgrade completed by the City of Newburgh in 2017.

No evidence of vermin, burrows, or warrens that could potentially damage the protective cover were observed on-site.

2.2 SITE MONITORING

One full round of groundwater samples was collected from eight existing on-site groundwater monitoring wells, consistent with the SMP on October 11, 2021. Two other wells, MW-05 and MW-10, were removed from the annual sampling program in September 2019 with the consent of NYSDEC.

Prior to the sampling event, wells were visually inspected for evidence of damage and/or tampering. They appeared to be intact with no evidence of damage and were secured with locks, locking caps, and friction caps in-place. The depths to water and depths to bottom were then measured with an electronic interface probe to the nearest 0.01 feet and recorded on the field sampling logs.

The depth to bottom measurements were compared to the 2010 construction logs prepared by Geologic. The data indicate no significant siltation in the wells.

Monitoring wells were sampled using low-flow methods using a peristaltic pump at pumping rates ranging from 0.05 to 0.08 gallons per minute, limiting drawdown and allowing sample collection upon documentation of stabilized field parameters. Dedicated sample tubing was used for purging and sample collection at each well.

During the low-flow sampling, the depths to water in the well and Water Quality Parameters (WQPs) were measured and recorded every five-minutes. The WQPs (temperature, pH, specific conductance, oxidation-reduction potential, and dissolved oxygen) were measured with an YSI Professional Plus multi-parameter water quality meter. Pumping continued until drawdown and the WQPs stabilized. The data were recorded on the sampling logs attached in **Appendix C**.

Groundwater samples were collected from the wells into laboratory supplied sample containers, recorded on the chain-of-custody, and placed in ice filled coolers, then transferred to a secure sample refrigerator. Samples were transported directly to the laboratory by courier service. The lab reported that all samples arrived at the lab within the specified holding time and at appropriate temperature.

The groundwater samples were submitted for laboratory analysis in compliance with the sampling and analysis plan included in the SMP. With the approval of NYSDEC effective September 2019 (and modified in 2020), the sampling parameters and methods required for monitoring were changed to include:

CP-51 list of VOCs by Method 8260C
CP-51 list of SVOCs by Method 8270D
Total lead
Total Arsenic (at MW-02 only)

Samples were analyzed using ASP methods with standard Class A deliverable data deliverables.

Quality Control/Quality Assurance samples were collected to evaluate data quality. One Trip Blank, a field duplicate, and a Matrix Spike and Matrix Spike Duplicate were collected during the sampling event.

A Trip Blank was included in each shipment of samples for VOC analysis.

A Field Duplicate and the MS/MSD samples for all analyses were collected from MW-01.

3.0 MONITORING RESULTS

3.1 WATER TABLE

The depths to water from the surveyed measuring point elevations for each well on October 11, 2021, were used to determine the water table elevation in each well. The results are included in the table below.

Water Table 31-March-21					
Well	**Measuring Point (ft AMSL)**	**Ground (Surface (ft AMSL)**	**Stick-Up (feet)**	**Depth To Water (ft)**	**Water Table Elevation**
MW-01	18.01	15.00	3.01	13.75	4.26
MW-02	13.99	11.17	2.82	11.86	2.13
MW-03	13.26	10.15	3.10	11.48	1.78
MW-04	11.74	8.77	2.98	9.77	1.97
MW-05	11.52	8.45	3.07	9.48	2.04
MW-06	10.50	7.84	2.66	9.10	1.40
MW-07	10.76	7.99	2.77	8.94	1.82
MW-08	10.85	8.14	2.71	9.10	1.75
MW-09	15.69	12.35	3.34	12.61	3.08
MW-10	11.13	8.47	2.66	9.32	1.82
Elevation in NAVD 88 AMSL = Above Mean Sea Level					

The data (shaded yellow) were plotted on the site survey map to show the distribution of water elevations across the site. A site survey is included as **Figure 2**.

Based on available Hudson River tidal data for Newburgh, NY the tidal range for October 11, 2021 was:

high tide:	4:10 am	2.9 ft
low tide:	10:35 am	0.2 ft
high tide:	4:37 pm	3.4 ft
low tide:	11:34 pm	0.2 ft

Tidal influences on water levels have not been evaluated. However, all groundwater elevations fall within the tidal range except for the upland-most well MW-01. This suggests net groundwater flow is consistently from west to east through the site towards the Hudson River. Figure 3 shows a site water table interpretation, confirming net groundwater gradients toward the tidal Hudson River.

3.2 WATER QUALITY PARAMETERS

Water quality parameters were collected multiple times at each sample location during the sampling event using a hand-held YSI multi-parameter water quality meter. The results are included on the sampling data sheets included in Appendix C.

The final WQPs collected at each well just prior to sampling are included in the table below.

October 11, 2021 Sampling Event						
Well ID	**Temp (°C)**	**pH**	**SC (µS/cm)**	**ORP (mV)**	**DO (mg/l)**	**Site Area**
MW-01	16.7	6.70	1880	-139.5	0.24	North Site Area
MW-02	16.8	6.37	1720	-106.0	0.19	
MW-05	Exempt from Monitoring					
MW-06	19.0	7.08	731	-37.6	3.36	
MW-10	Exempt from Monitoring					
MW-03	18.6	6.58	718	-219.4	0.12	South Site Area
MW-04	17.6	6.74	1127	-117.2	0.13	
MW-07	17.3	6.68	1054	-116.2	0.19	
MW-08	18.8	6.65	630	-86.0	0.18	
MW-09	15.7	6.97	1315	-153.8	0.29	

The groundwater chemistry has previously been noted to differentiate geographically into two areas, with five monitoring wells in each area and separated by the deep soil excavation area running east-west across the middle of the Site. Wells in the northern area include MW-1, MW-2, MW-5, MW-6 and MW-10 and wells in the southern area are MW-3, MW-4, MW-7, MW-8 and MW-9. In the October 2021 sampling event, the average WQPs in the north and south groups were very similar with the exception of the DO which was higher than during prior sampling years in the northern group, primarily in MW-6. This parameter can be observed further in future sampling events.

3.3 VOLATILE ORGANIC COMPOUNDS – October 11, 2021 Data

A "hit" summary table for VOCs is included below.

Sample ID	**AWQS**	**MW-1**		**MW-2**		**MW-3**		**MW-4**		**MW-7**		**MW-8**		**MW-9**	
Compound		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
CP-51 VOCs	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
1,2,4-Trimethylbenzene	5	0.46	J	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,3,5-Trimethylbenzene	5	1.4		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Benzene	1	**14**		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	**4.7**	
Ethyl Benzene	5	**100**		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Isopropylbenzene	5	**47**		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
MTBE	10	3.0		0.69		1.0		2.7		2.2		0.41	J	0.20	U
Naphthalene	10	**37**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

Sample ID	AWQS	MW-1		MW-2		MW-3		MW-4		MW-7		MW-8		MW-9	
Compound		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
CP-51 VOCs	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
n-Butylbenzene	5	**7.1**		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
n-Propylbenzene	5	**98**		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
o-Xylene	5	0.25	J	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
p- and m-Xylenes	5	4.0		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
p-Isoppropyltoluene	5	0.60		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Sec-Butylbenzene	5	**7.2**		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Tert-Butylbenzene	5	0.39		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Toluene	5	3.4		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U

The table includes any VOC compound detected at any concentration that exceeded the method detection limits, including estimated concentrations.

The laboratory results for all VOCs and qualifier descriptions are included in **Table 1**.

3.4 SEMI-VOLATILE ORGANIC COMPOUNDS – October 11, 2021 Data

A "hit" summary table for SVOCs is included below.

Sample ID	AWQS	MW-1		MW-8	
Date		10/11/2021		10/11/2021	
Compound		Result	Q	Result	Q
CP-51 SVOCs	ug/L	ug/L		ug/L	
Benzo(a)anthrancene	0.002	**0.0513**	U	**0.389**	
Benzo(a)pyrene	0.002	**0.0513**	U	**0.400**	
Benzo(b)fluoranthene	0.002	**0.0513**	U	**0.316**	
Benzo(k)fluoranthene	0.002	**0.0513**	U	**0.347**	
Chrysene	0.002	**0.0513**	U	**0.368**	
Indeno(1,2,3-cd)pyrene	0.002	**0.0513**	U	**0.116**	
Naphthalene	10	**19.2**		0.0526	J

The table includes any SVOC compound detected at any concentration that exceeded the applicable ambient water quality standard (AWQS). Each of the eight samples collected during this event were non-detectable for the six polyaromatic hydrocarbons (PAHs) shown above, however, the laboratory method detection limit (MDL) was greater than the applicable AWQS of 0.002 µg/l for these compounds.

The laboratory results for all SVOCs and qualifier descriptions are included in **Table 2**.

3.5 LEAD AND ARSENIC

The laboratory results for metals and qualifier descriptions are included in **Table 3**.

Total Lead was detected in seven of the eight samples at concentrations exceeding the quantification limit of 1.11 µg/l. The results for six of those samples were less than the applicable standard but the samples collected from MW-07 was slightly over the standard of 25 µg/L.

Arsenic was detected in well MW-02 at a concentration of 89.6 ug/L, over the standard of 25 ug/L.

3.6 PCBS & PESTICIDES

Sample analysis for PCBS and/or pesticides was not performed nor required. These parameters were removed from the monitoring program in September 2019 with NYSDEC's approval.

3.7 QA/QC Sampling Results

No VOCs were reported in the Trip Blank,

The results for the field duplicate (CIM-MW-FD) and the parent sample (CIM-MW-01) were very similar, generally within approximately 10% of one another. The only exception was for Naphthalene, which exhibited a difference of 40%.

Analysis of MS/MSD samples indicated good recoveries and comparable results.

The data appears to be representative of actual groundwater conditions on the date of the sampling event. The data have not been independently validated by a third-party chemist, nor is it required.

4.0 DATA REVEIW

The site compounds of concern specified in the SMP include BTEX and MTBE, SVOCs, PCBs, lead and cadmium. The three prior annual sampling events therefore included analyses for TCL-VOCs, TCL-SVOCs, and TAL-Metals, and PCBs. On the basis of monitoring relief approved following the 2019 PRR submittal, the well network of 8 speciified monitoring wells was analyzed for the 2021 PRR for the CP-51 lists of VOCs and SVOCs, and Lead. Arsenic was also included in the analysis in well MW-02.

Results for the last four sampling events (October 2018, May 2020, March/April 2021 and October 2021) are compared in the following sections.

4.1 VOCS

Site monitoring well MW-01 is the only well exhibiting a consistent VOC presence over many years. The analyte detections in October of 2021 were below levels detected in 2018 although over those of 2020 and March 2021, and generally consistent with or modestly declining relative to data collected since 2015.

Monitoring Well ID / Sampling Date / Compound	AWQS (µg/L)	MW-01							
		10/2/2018		5/12/2020		3/31/2021		10/11/2021	
		Result	Q	Result	Q	Result	Q	Result	Q
Benzene	1	**26**		**2.1**		**2.0**		**14**	
Ethyl Benzene	5	**400**	**D**	**23**		**32**		**100**	
Isopropylbenzene	5	**110**		**5.8**		**6.9**		**47**	
p- & m- Xylenes	5	**9.2**		0.60	U	0.50	U	4.0	
Toluene	5	**6.2**		0.42	J	0.49	J	3.4	

The MTBE historically detected in wells MW-03 and MW-07 at concentrations greater than the applicable standard 10 µg/l have been less the AWQS standard since 2015 as summarized below. The MTBE concentrations in these two locations continue to decrease.

Date Summary of MTBE detections	AWQS (µg/L)	MW-03 (µg/L)	MW-07 (µg/L)
10/2/2018	10	1.7	5.9
5/12/2020		1.1	3.9
3/31/2021		< 0.20	2.5
10/11/2021		1.0	2.2

Benzene was detected in MW-09 during the October 2021 sampling eventat a concentration of 4.7 µg/L. Benzene has only periodically been detected in this well.

4.2 SVOCS

PAHs were reported at trace (< 1 ug/L) to ultra-trace (< 0.1 µg/L) concentrations in samples collected from MW-01, MW-07 and MW-08 and at concentrations greater than their applicable standards (MW-08 only) during the October 2021 sampling event. Wells MW-03 and MW-07, which exhibited somewhat elevated PAH concentrations in March 2021, returned to non-detectable in October 2021. The results from MW-08 remained somewhat elevated and continue to be higher than previous highest results in 2017. These results for MW-08 are unexpected and further observation of this locations in subsequent PRR reviews is recommended since there have been no changes in site activities of condition of the engineered controls.

Naphthalene, a gasoline-range SVOC, was reported at 19.2 µg/L in 2021 in the sample collected from MW-01. This result is within the same order of magnitude as the historical record. Naphthalene, along with associated BTEX (benzene, toluene, ethyl benzene, xylenes) compounds, have consistently remained below standards in on-site wells located downgradient from MW-01, suggesting controlled natural attenuation of organic compounds.

4.3 Lead and Arsenic

The concentrations of lead from the last five consecutive sampling events are included below. The lead is compared to the AWQS of 25 µg/L with concentrations in excess of the standard highlighted. Concentrations marked with a "B" flag were identified at trace concentrations in the analytical method blank.

LEAD: AWQS = 25 µg/L												
Monitoring Well	**Jun 2017**		**Oct 2018**		**May 2020**		**March 2021**		**April 2021**		**Oct 2021**	
MW-01	3	U	2.380		1.11	U	1.11	U	NS		1.50	
MW-02	3	U	1.11	U	1.11	U	1.11	U	NS		1.11	U
MW-03	9	B	23.8		4.51		**50.9**		**57.6** **52.7**	Di	3.94	
MW-04	5	B	**53.3**		5.37		1.11	U	NS		2.43	
MW-05	3	U	1.49		NS		NS		NS		NS	
MW-06	**29**	**B**	**99.6**		3.37		3.07		NS		7.39	
MW-07	3	U	13.3		4.75		17.2		NS		**45.4**	
MW-08	**43**	**B**	**32.1**		**54.0**		**742**		**45.1** **39.5**	Di	8.78 6.19	Di
MW-09	3	U	1.11	U	1.45		1.11	U	NS		7.72	
MW-10	3	U	1.11	U	NS		NS		NS		NS	
Hits	2		3		1		2		2		1	
Total	86		226		73		815		102.7		76	
Average	22		32		12		136		51.35		13	

The 2021 results for lead are below concentrations previously recorded in most locations with the exception of well MW-07which may be anomalous and should be assessed again in future PRR periods.

Arsenic analysis was resumed at MW-02 during the March 2021 sampling event and again the the October 2021 sample. Arsenic was detected at 89.6 ug/L in October 2021, similar to the 2018 result of 86.0 ug/L, and higher than the 2015 and 2017 results. Data suggest that slightly elevated Arsenic is present in the location of MW-02, and ongoing monitoring is warranted.

Other metals that are not site contaminants of concern that had consistently been reported at levels exceeding AWQSs include magnesium, manganese, and sodium. The source of these metals has not been confirmed; however, they were generally considered benign and have been removed from the monitoring requirements for the Site.

5.0 SITE EVALUATION

5.1 CONCLUSIONS

The Remedial Action Objective for the site is to reduce or eliminate the potential threat to human health and the environment from direct contact with impacted soils and to protect groundwater and surface water from the migration of dissolved site related COCs.

The ECs/ICs implemented appear to be functioning as anticipated.

The soil cover system remains in-place with no evidence of excess erosion, the erosion blanket along the river is intact with no observable evidence of failure or excess erosion. Since the last PRR was completed in 2020, no evidence of soil disturbance was observed within a fenced-in area.

Overall groundwater quality with respect to site related compounds of concern has remained generally stable since the remedy was completed.

There are no active remediation units or systems on site that require evaluation, modification, or maintenance.

The lack of detection of BTEX compounds downgradient from upgradient perimeter wells MW-01 and MW-09 suggests that the standards will be achieved site-wide for BTEX once they are achieved at these wells.

MTBE has not been detected or has remained below the groundwater standard in all site wells since 2015, suggesting that natural attenuation of MTBE is occurring at the.

SVOCs (specifically PAHs) persist in MW-8 near the shoreline and in upgradient well MW-1 and are otherwise below standards across the site.

Elevated lead was noted in one (MW-07) of the eight on-site wells in October of 2021 and arsenic persists in MW-02.

The existing ICs for the site prohibit the use of on-site groundwater as potable water. Additionally, the immediately downgradient receptor of groundwater discharge is the Hudson River. Consequently, site-wide groundwater impacts that exceed applicable AWQSs do not pose a potential threat to human health from potential contact or consumption.

There are no known/previously identified sensitive ecological resources downgradient of the site that could be impacted by the migration of the groundwater. Consequently, site-wide groundwater impacts that exceed applicable AWQSs do not pose a potential threat to the environment.

Based on the data and known site conditions, the EC/ICs for the site are protective and effective at meeting the Remedial Action Goals for the Site. Continued monitoring to document stable or improving conditions is warranted and sufficient.

5.2 RECOMMENDATIONS

Significant modifications to the SMP were recommended in the 2018 PRR and approved in September 2019. Resumed analysis of arsenic at MW-02 was proposed in May 2020 and approved later in 2020.

Chazen recommends continuing the analytical program, as modified, and also continuing annual site inspections. Samples intended for metals analysis where field turbidity readings exceed 50 NTU will continue to be field filtered.

FIGURES

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Westchester County Office:
1 North Broadway, Suite 803, White Plains, NY 10601

www.chazencompanies.com Phone: (888) 539-9073

Consolidated Iron and Metal Site

Figure 1: Site Location Map

Washington Avenue
City of Newburgh, Orange County, New York

Source: USGS The National Map topographic and political data (server based), accessed 11/18/2021; Orange County Office of Real Property Services 2016 tax parcel data.

Drawn:	EJO
Date:	11/18/2021
Scale:	1:24,000
Project:	41548.21
Figure:	01

Document Path: Z:\projects\41500-41599\41548.00 Newburgh Consolidated Iron site\GIS\Maps\2021 Figures\F1_Site Location_11 2021.mxd

Drawing Name: X:\41500-41599\41548.00 Newburgh Consolidated Iron site\SVY\Dwg\06_SVY_41548-00_TOPO.dwg
Last Saved By: JSMN
Date Printed: Dec 08, 2015, 11:36am

SOUTH WATER STREET

RAILROAD TRACKS

CONC. MONUMENT FOUND

SEE MAP REFERENCE #3 FOR DISTANCE

WASHINGTON STREET (60' WIDE)

BENCHMARK XCUT EB HYD ELEV.=17.35

BENCHMARK RR SPIKE 24"COTTONWOOD ELEV.=8.15

POINT OF BEGINNING

S85°13'06"E 817.61'

327.00'

405.43'

78.43'

N17°26'54"E 722.73'

N84°24'02"W 297.92'

N07°25'24"E

S71°07'35"W 820.77'TIE COURSE

APPROX. WATER GRANT LINE

Lands Formerly of ISAAC STANTON & JAS. H. MALLERY Letters Patent granted January 16, 1855

Lands Formerly of WASHINGTON IRON WORKS Letters Patent granted June 28, 1865

Lands Formerly of HOMER RAMSDELL Letters Patent granted OCTOBER 18, 1882

Lands Now or Formerly of NEW YORK CENTRAL LINES LLC Liber 5154 Page 183 Section 40 , Block 3, Lot 2

SOUTH WILLIAM STREET (50' WIDE)

"OTHER AREAS ZONE X"

"OTHER FLOOD AREAS ZONE X"

"FLOOD ZONE AE"

FLOOD LINE "OTHER FLOOD AREAS ZONE X" (SCALED)

FLOOD LINE "FLOOD ZONE AE" (EL7)

LIMITS OF CHAZEN NOV. 2015 TOPO

WATERS EDGE

RIP RAP

HUDSON RIVER

DISTANCE ALONG SHORELINE APPROX. 1023'

NYS PLANE EAST ZONE

MW#01 TOP PVC:18.01
MW#02 TOP PVC:13.99
MW#03 TOP PVC:13.26
MW#04 TOP PVC:11.74
MW#05 TOP PVC:11.52
MW#06 TOP PVC:10.50
MW#07 TOP PVC:10.76
MW#08 TOP PVC:10.85
MW#09 TOP PVC:15.69
MW#10 TOP PVC:11.13

PROPERTY CORNER WITHIN 8" SPRUCE

IRON ROD SET

IRON ROD FOUND SOUTH 0.7'

IRON ROD SET ON LINE

#88305

#44034

#40516B

UP CHGE #47395

UP CHGE #47380

UP CP# 23452 & TEL PEDISTAL

DMH INVERTS IN AND OUT ARE UNOBTAINABLE (RECESSED) BOTTOM OF CHAMBER ELEV.=0.2

DMH INVERTS IN AND OUT ARE UNOBTAINABLE (RECESSED) BOTTOM OF CHAMBER ELEV.=-3.1'

24" CIP INVERT =-1.6

75" CIP INVERT =-5.1

LEGEND:

- NO PHYSICAL BOUNDS
- ADJACENT PROPERTY LINE
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING OVERHEAD WIRES
- EXISTING WATER LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SPOT GRADE
- EXISTING EDGE OF WATER
- EXISTING TREE W/ WIRE
- EXISTING UNKNOWN MANHOLE
- EXISTING UTILITY POLE
- EXISTING GUY WIRE
- EXISTING HYDRANT
- EXISTING IRON ROD
- EXISTING LIGHT POLE
- EXISTING MONUMENT
- EXISTING SANITARY MANHOLE
- EXISTING WATER VALVE
- EXISTING SIGN
- EXISTING MONITORING WELL

MAP REFERENCES:

1. REFERENCE IS HEREBY MADE TO A MAP ENTITLED "LANDS OF THE CITY OF NEWBURG TAX LOT 4 IN SECTION 37 BLOCK 4", PREPARED BY GREVAS AND HILDRETH, P.C., DATED JULY 17, 1989 AND ON FILE IN THE CITY OF NEWBURGH OFFICE OF MAP ARCHIVES.

2. REFERENCE IS HEREBY MADE TO A MAP ENTITLED "PLAT PLAN OF SURVEY FOR REAL ESTATE ACQUISITION BY CITY OF NEWBURGH, NEW YORK", PREPARED BY HERBERT L. KARTIGANER P.E., L.S., DATED MARCH 20, 1961 AND ON FILE IN THE CITY OF NEWBURGH OFFICE OF MAP ARCHIVES.

3. REFERENCE IS HEREBY MADE TO A MAP ENTITLED "CONSOLIDATED IRON", MAP 61-13-29. DATED 1898 AND ON FILE IN THE CITY OF NEWBURGH OFFICE OF MAP ARCHIVES.

4. REFERENCE IS HEREBY MADE TO A MAP ENTITLED "CONSOLIDATED IRON", DEPICTING WATER GRANT PARCELS BEING A MAP OBTAINED FROM THE NYS OFFICE OF GENERAL SERVICES AND ON FILE IN THE CITY OF NEWBURGH OFFICE OF MAP ARCHIVES.

5. REFERENCE IS HEREBY MADE TO A MAP ENTITLED "STATION MAP-TRACK & STRUCTURES, ERIE RAILROAD COMPANY, NEW YORK DIVISION, NEWBURGH BRANCH", DATED OCT 17, 1960.

6. REFERENCE IS HEREBY MADE TO A MAP ENTITLED " RIGHT OF WAY MAP, WEST SHORE RAILROAD:, DATED JUNE 17, 1917.

7. REFERENCE IS HEREBY MADE TO A MAP ENTITLED " TOPOGRAPHIC SURVEY CONSOLIDATED IRON AND METAL SITE" COMPLETED BY LARSEN ENGINEERS IN 2004. TOPOGRAPHY FOR THE SPIT OF LAND JUTTING IN TO THE HUDSON RIVER WAS TAKEN FROM THIS MAP.

FLOOD ZONE NOTE:

PORTIONS OF SUBJECT PARCEL ARE LOCATED IN
1. FLOOD ZONE AE (EL7)
2. OTHER FLOOD AREAS ZONE X &
3. OTHER AREAS ZONE X
AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FLOOD INSURANCE RATE MAP (FIRM) ORANGE COUNTY, CITY OF NEWBURGH COMMUNITY NUMBER 360626, MAP NUMBER 36071C0332E, EFFECTIVE DATE AUGUST 3, 2009.

NOTES:

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S INKED SEAL OR HIS EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

THE CONTRACTOR SHALL COMPLY WITH NEW YORK STATE INDUSTRIAL CODE RULE 53 – 48 HOURS PRIOR TO DIGGING CALL DIG SAFE NEW YORK 1-800-962-7962 TO HAVE PUBLIC UTILITY LOCATIONS PAINTED.

UNDERGROUND WATERLINE AND ELECTRIC FACILITIES SHOWN HEREON WERE TAKEN FROM DATA OBTAINED FROM UTILITY MARKOUT OF UNKNOWN SOURCE. ALL ABOVE GROUND STRUCTURES AND SURFACE FEATURES SHOWN HEREON ARE THE RESULT OF A FIELD SURVEY UNLESS OTHERWISE NOTED.

THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN OR CERTIFIED BY THE UNDERSIGNED. SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES. THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION MUST BE NOTIFIED PRIOR TO CONDUCTING TEST BORINGS, EXCAVATION AND CONSTRUCTION.

TOPOGRAPHY SHOWN HEREON WITHIN THE LIMIT LIMIT LINE "LIMITS OF CHAZEN NOV. 2015 TOPO" IS A RESULT OF A FIELD SURVEY COMPLETED BY THE CHAZEN COMPANIES ON NOVEMBER 12, 2015, TOPOGRAPHY OUTSIDE THOSE LIMITS ALSO COMPLETED BY THE CHAZEN COMPANIES ON MARCH 17, 2008. CONTOUR INTERVAL IS ONE FOOT. VERTICAL DATUM IS NAVD88. (CONVERSION TO NGVD 29 VERTICAL DATUM IS +0.91 FEET.)

DEED REFERENCE:

CITY OF NEWBURGH, (TAX SALE)
TO
CITY OF NEWBURGH
APRIL 12, 2005
LIBER 11808 PAGE 1648

TAX PARCEL NUMBER:

CITY OF NEWBURGH, ORANGE COUNTY, NEW YORK
SECTION 40, BLOCK 3, LOT 3

AREA:

8.33 ACRES

CERTIFICATIONS:

TO:
CITY OF NEWBURGH

DRAFT

drawn	CJS
checked	SJA
date	12/02/15
scale	1"=30'
project no.	41548.00
sheet no.	SV1
	1 OF 1

FORMER CONSOLIDATED IRON AND METAL CO. FACILITY

MAP OF TOPOGRAPHIC SURVEY PREPARED FOR CITY OF NEWBURGH

CITY OF NEWBURGH, ORANGE COUNTY, NEW YORK

rev.	date	description

CHAZEN ENGINEERING, LAND SURVEYING & LANDSCAPE ARCHITECTURE CO., D.P.C.

Office Locations:

Dutchess County Office:
21 Fox Street
Poughkeepsie, New York 12601
Phone: (845) 454-3980

Capital District Office:
547 River Street
Troy, New York 12180
Phone: (518) 273-0055

North Country Office:
375 Bay Road
Queensbury, New York 12804
Phone: (518) 812-0513

I HEREBY CERTIFY THAT THIS SURVEY MAP IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED NOV. 12, 2015 AND THAT THIS SURVEY MAP WAS MADE BY ME OR UNDER MY DIRECTION, AND CONFORMS WITH THE MINIMUM STANDARD OF PRACTICE ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS.

FIGURE 2

STEVEN J ALEX, L.S. #50016

6155

THE Chazen COMPANIES®
Proud to Be Employee Owned
Engineers
Land Surveyors
Planners
Environmental & Safety Professionals
Landscape Architects

Hudson Valley Office:
21 Fox Street, Poughkeepsie, NY 12601
Capital District Office:
4 British American Boulevard, Latham, NY 12110
North Country Office:
20 Elm Street, Suite 110, Glens Falls, NY 12801
Westchester County Office:
1 North Broadway, Suite 803, White Plains, NY 10601
www.chazencompanies.com Phone: (888) 539-9073

Consolidated Iron and Metal Site

Figure 3: Groundwater Elevation Contour Map

Washington Avenue
City of Newburgh, Orange County, New York

Source: i-Cubed Nationwide Prime orthoimagery data (server based), accessed 11/18/2021;
Orange County Office of Real Property Services 2016 tax parcel data;
other site features drawn by Chazen based on field research conducted 2015-2021.

Drawn:	EJO
Date:	11/18/2021
Scale:	1:1,200
Project:	41548.21
Figure:	03

Document Path: Z:\projects\41500-41599\41548.00 Newburgh Consolidated Iron site\GIS\Maps\2021 Figures\F3_GW Elevations_11 2021.mxd

TABLES

TABLE 1 CP-51 VOC RESULTS

Sample ID		AWQS *	MW-01		MW-02		MW-03		MW-04		MW-06		MW-07		MW-08		MW-09		FD-01 (DUP)		Trip Blank	
York ID			21J0506-01		21J0506-02		21J0506-03		21J0506-04		21J0506-05		21J0506-06		21J0506-07		21J0506-08		21J0506-09		21J0506-10	
Sampling Date			11-Oct-21		11-Oct-21		11-Oct-21		11-Oct-21		11-Oct-21		11-Oct-21		11-Oct-21		11-Oct-21		11-Oct-21		8-Oct-21	
Client Matrix			Water		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Compound	**CAS Numbe**		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
CP-51 VOCS		ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Dilution Factor			1		1		1		1		1		1		1		1		1		1	
1,2,4-Trimethylbenzene	95-63-6	5	0.46	J	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.45	J	0.20	U
1,3,5-Trimethylbenzene	108-67-8	5	1.4		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.3		0.20	U
Benzene	71-43-2	1	**14**		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	**4.7**		**13**		0.20	U
Ethyl Benzene	100-41-4	5	**100**		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	**93**		0.20	U
Isopropylbenzene	98-82-8	5	**47**		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	**46**		0.20	U
MTBE	1634-04-4	10	3.0		0.69		1.0		2.7		0.20	U	2.2		0.41	J	0.20	U	3.0		0.20	U
Naphthalene	91-20-3	10	**37**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**37**		1.0	U
n-Butylbenzene	104-51-8	5	**7.1**		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	**5.4**		0.20	U
n-Propylbenzene	103-65-1	5	**98**		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	**86**		0.20	U
o-Xylene	95-47-6	5	0.25	J	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.23	J	0.20	U
p- & m- Xylenes	79601-23-	5	4.0		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	3.8		0.50	U
p-Isopropyltoluene	99-87-6	5	0.60		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.57		0.20	U
sec-Butylbenzene	135-98-8	5	**7.2**		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	**7.0**		0.20	U
tert-Butylbenzene	98-06-6	5	0.39	J	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.38	J	0.20	U
Toluene	108-88-3	5	3.4		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	3.4		0.20	U
Xylenes, Total	1330-20-7	5	4.3		0.60	U	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U	4.1		0.60	U

NOTES:

Any Regulatory Exceedences are color coded by Regulation

AWQS* = ambient Water Quality standards, Togs v 1.1.1

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

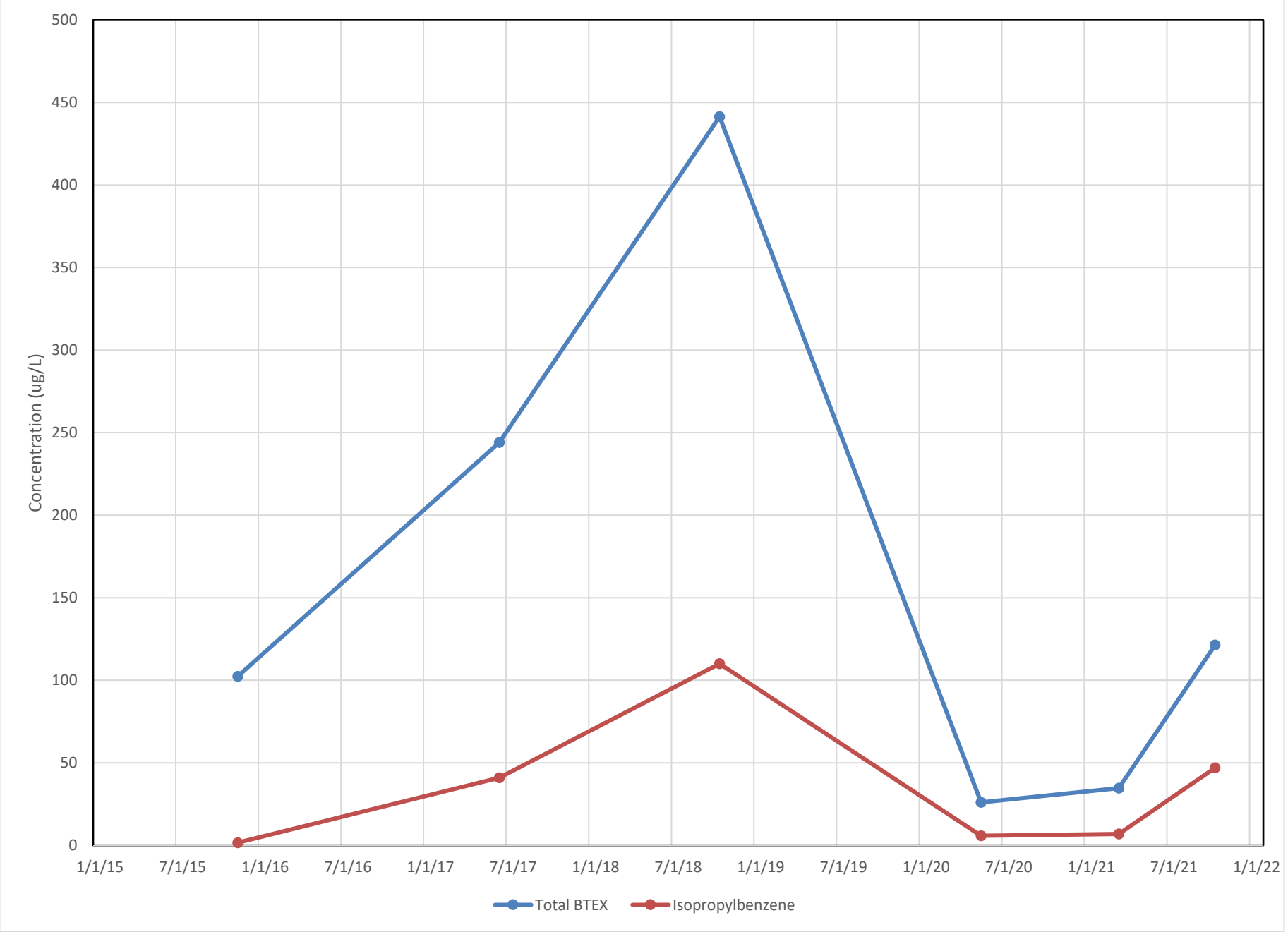
B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

Table 1, Graph 1: Select VOC Concentrations in Well MW-01
Consolidate Iron and Metal Site, Washington Avenue, City of Newburgh, Orange County, New York



The Chazen Companies
December 2021

TABLE 2 CP-51 SVOC Results

Sample ID		AWQS	MW-01		DUP (MW-01)		MW-02		MW-03		MW-04		MW-06		MW-07		MW-08		MW-09	
York ID			21J0506-01		21J0506-09		21J0506-02		21J0506-03		21J0506-04		21J0506-05		21J0506-06		21J0506-07		21J0506-08	
Sampling Date			10/11/2021		10/11/2021		10/11/2021		10/11/2021		10/11/2021		10/11/2021		10/11/2021		10/11/2021		10/11/2021	
Compound	**CAS**		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
CP-51 SVOCs		ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Acenaphthene	83-32-9	20	0.185		0.195		0.0513	U	0.0541	U	0.0541	U	0.0513	U	1.02		0.147		0.0541	U
Acenaphthylene	208-96-8	~	0.0513	U	0.0541	U	0.0513	U	0.0541	U	0.0541	U	0.0513	U	0.0526	U	0.0526	J	0.0541	U
Anthracene	120-12-7	50	0.0513	U	0.0541	J	0.0513	U	0.0541	U	0.0541	U	0.0513	U	0.200		0.147		0.0541	U
Benzo(a)anthracene	56-55-3	0.002	0.0513	U	0.0541	U	0.0513	U	0.0541	U	0.0541	U	0.0513	U	0.0526	U	**0.389**		0.0541	U
Benzo(a)pyrene	50-32-8	0.002	0.0513	U	0.0541	U	0.0513	U	0.0541	U	0.0541	U	0.0513	U	0.0526	U	**0.400**		0.0541	U
Benzo(b)fluoranthene	205-99-2	0.002	0.0513	U	0.0541	U	0.0513	U	0.0541	U	0.0541	U	0.0513	U	0.0526	U	**0.316**		0.0541	U
Benzo(g,h,i)perylene	191-24-2	~	0.0513	U	0.0541	U	0.0513	U	0.0541	U	0.0541	U	0.0513	U	0.0526	U	0.0947		0.0541	U
Benzo(k)fluoranthene	207-08-9	0.002	0.0513	U	0.0541	U	0.0513	U	0.0541	U	0.0541	U	0.0513	U	0.0526	U	**0.347**		0.0541	U
Chrysene	218-01-9	0.002	0.0513	U	0.0541	U	0.0513	U	0.0541	U	0.0541	U	0.0513	U	0.0526	U	**0.368**		0.0541	U
Dibenzo(a,h)anthracene	53-70-3	~	0.0513	U	0.0541	U	0.0513	U	0.0541	U	0.0541	U	0.0513	U	0.0526	U	0.0526	J	0.0541	U
Fluoranthene	206-44-0	50	0.0513	J	0.0649		0.0513	U	0.0541	U	0.0541	U	0.0513	U	0.558		0.937		0.0541	U
Fluorene	86-73-7	50	0.103		0.119		0.0513	U	0.0541	U	0.0541	U	0.0513	U	0.537		0.105		0.0541	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	0.0513	U	0.0541	U	0.0513	U	0.0541	U	0.0541	U	0.0513	U	0.0526	U	**0.116**		0.0541	U
Naphthalene	91-20-3	10	**19.2**		**17.8**		0.0513	U	0.0541	U	0.0541	U	0.0513	U	0.0526	J	0.0526	J	0.0541	U
Phenanthrene	85-01-8	50	0.123		0.151		0.0513	U	0.0541	U	0.0541	U	0.0513	U	1.48		0.526		0.0541	U
Pyrene	129-00-0	50	0.0513	U	0.0541	J	0.0513	U	0.0541	U	0.0541	U	0.0513	U	0.453		0.726		0.0541	U

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

~=this indicates that no regulatory limit has been established for this analyte

TABLE 3 Results for Metals

Sample Date	11-Oct-21	
Lead by EPA 6020		
AWQS	25	µg/L

Well ID	R	Q
MW-01	1.50	
Dup (MW-01)	1.39	
MW-02	1.11	U
MW-03	3.94	
MW-04	2.43	
MW-05	NS	
MW-06	7.39	
MW-07	**45.4**	
MW-08	8.78 (6.19 dissolved)	
MW-09	7.72	
MW-10	NS	

Sample Date	31-Mar-21	
Arsenic by EPA 6020		
AWQS	25	µg/L

Well ID	R	Q
MW-02	**89.6**	

NOTES:
Regulatory Exceedences bold and shaded
NS = No sample

Q is the Qualifier Column with definitions as follows:
U=analyte not detected at or above the level indicated

APPENDICES

Appendix A

EC/IC Certification Letter

THE Chazen COMPANIES
Civil Engineers
Land Surveyors
Planners
Environmental & Safety Professionals
Landscape Architects
Transportation Planners & Engineers
Proud to be Employee Owned

HUDSON VALLEY OFFICE
21 Fox Street
Poughkeepsie, NY 12601
P: 845.454.3980 or 888.539.9073
www.chazencompanies.com

December 3, 2021

Jason C. Morris, PE
City Engineer
83 Broadway
Newburgh, New York 12550

Re: Former Consolidated Iron & Metal Site
EPA Site Number: NY0002455756
NYSDEC Site Number: 336055

EC/IC Certification – December 2021
Chazen Project No. 41548.21

Dear Mr. Morris;

The following certification is required by NYSDEC for the EC/ICs for the above referenced site. As there are no active remedial systems requiring engineering oversight or review, certification is provided by me, as a Qualified Environmental Professional and NYS Professional Geologist.

For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- The inspection of the site and sampling data appears to confirm the effectiveness of the institutional and engineering controls required by the remedial program. The inspections conducted during the recent sampling events were performed under my direction;
- The institutional control and/or engineering control employed at this site appear unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has otherwise occurred that would have the obvious potential to impair the ability of the engineering control to protect the public health and environment;
- Nothing has occurred to my knowledge that would constitute a violation or failure to comply with any site management plan for this control;
- The City has indicated that 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;
- Use of the site appears compliant with the environmental easement;
- The sampling data suggest the engineering control systems are performing as designed and are effective;

- 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,

- The information presented in this report is accurate and complete.

I certify that all information and statements in this certification form 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, Russell Urban-Mead of The Chazen Companies, am certifying as Remedial Party's Designated Site Representative. I have been authorized and designated by all site owners/remedial parties to sign this certification for the site.

Sincerely,

Russell Urban-Mead, NYS Professional Geologist No. 412
Senior Hydrogeologist and VP Chazen Environmental Services

cc: Kevin P. McGrath, PG, Chazen

Appendix B

Visual Inspection Logs

CONSOLIDATED IRON AND METAL SITE
SITE MANAGEMENT PLAN SITE WIDE INSPECTION FORM

Date: 10/11/2021

Inspection Personnel: Eric J. Orlowski, PG

Weather Conditions: Mostly sunny, low to mid 70s, breezy (5 to 10 mph from the NE)

Subsurface soils are contaminated by cadmium, lead, total PCBs and VOCs (BTEX-MTBE) at levels exceeding restricted residential Soil Cleanup Objectives (SCOs). Currently, protection of public health and the environment to contaminated media is provided by an engineered cover system consisting of between 3.5 and more than 10 feet of clean fill underlain by a demarcation barrier. The location of the cover system is depicted on Figure 1 of the Site Management Plan (SMP). Shoreline stabilization measures have been employed to limit the potential for erosion.

Cover System Inspection

Has the overall condition of the cover system changed from the previous inspection (if first inspection, respond with N/A)? Yes____ No_X_

If Yes, provide detail and identify on Site Plan

Is soil cover system adequately vegetated to prevent erosion? Yes_X_ No___

If No, identify locations and provide detail on attached Site Plan

CONSOLIDATED IRON AND METAL SITE
SITE MANAGEMENT PLAN SITE WIDE INSPECTION FORM

Is there evidence that the soil cover system has been eroded by wind, water and/or planned or unplanned construction activities? Yes____ No_X_

If Yes, identify locations and provide detail on attached Site Plan

Is there evidence that the soil cover system has been breached (i.e., areas where surface appears patched, signs of excavation) Yes____ No_X_

If Yes, identify locations and provide detail on attached Site Plan

Is there evidence that the soil cover system has been breached intentionally by planned site activities? Yes____ No_X_
(i.e., areas where surface appears patched, signs of excavation)

If Yes, identify locations and provide detail on attached Site Plan

Is there evidence that the shoreline stabilization measures have been breached (i.e., areas where shoreline appears to be eroded our unstabile)? Yes____ No_X_

If Yes, identify locations and provide detail on attached Site Plan

CONSOLIDATED IRON AND METAL SITE
SITE MANAGEMENT PLAN SITE WIDE INSPECTION FORM

Have photographs been taken of the cover system and shoreline for inclusion in the site inspection report. Yes_X_ No___

If No, give reason

Are the existing groundwater monitoring wells intact and accessible? Yes_X_ No___
If No, please describe the condition

Were the groundwater monitoring wells sampled during this inspection? Yes_X_ No___
If No, why and when is the next scheduled monitoring well sampling event?

Are there any violations of the use restrictions observed Yes____ No_X_
(e.g., non-community vegetable gardens)?Are the remedy components post-construction, such as institutional controls, and that shall also

Has there been any change in the use restrictions on the site or Yes____ No_X_
the necessary provisions for ensuring that the easement covenant remains in place and is effective?
If Yes, list and/or identify

CONSOLIDATED IRON AND METAL SITE
SITE MANAGEMENT PLAN SITE WIDE INSPECTION FORM

Are there any changes to site operations and maintenance requirements for the components of the remedy? Yes____ No_X_

If Yes, please describe

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Consolidated Iron and Metal Site

Figure B-1: Site Photo Location Map

Washington Avenue
City of Newburgh, Orange County, New York

Source: i-Cubed Nationwide Prime orthoimagery program data, server-based, accessed 11/29/2021; Orange County Office of Real Property Services 2016 tax parcel data.

Drawn:	EJO
Date:	11/29/2021
Scale:	1:1,200
Project:	41548.21
Figure:	B-1

Document Path: Z:\projects\41500-41599\41548.00 Newburgh Consolidated Iron site\GIS\Maps\2021 Figures\B-1_Photo Location_11 2021.mxd

Photo #1
Description: View of northern field area of Site, facing east from NW entrance.

Photo #2
Description: View of gravel walking path, western Site area and monitoring well MW-1, facing south.

Photo #3
Description: View of monitoring well MW-09 in sewer pumping station, facing south.

Photo #4
Description: View of site field area, facing southeast toward southern end of site.

Photo #5
Description: View of well MW-06 at northeast corner of site, with groundwater sampling apparatus in place.

Photo #6
Description: View of northern site area, facing west-northwest.

Photo #7
Description: View of eastern Site area, facing southeast, and rip-rap erosion blanket installed along Hudson River frontage.

Photo #8
Description: View of northwestern Site area and secured site access gate.

Appendix C

Site Sampling Logs

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	CIM-MW-01 1021	Sample Time:	11:42	Sample Matrix *(circle)* :	
Well ID:	MW-01	Sample Date:	10/11/2021	***Groundwater***	Soil
Project Name:	Consolidated Iron	Sample Tech(s):	Orlowski	Surface Water	Air
Sample Location:	Newburgh, NY	Project and Task #:	41548.00	Drinking Water	Other:
		Project Manager:	KM/RUM		

WELL INFORMATION:

Well Condition: Good

Lock Type: Master Key #: 3303

PURGE DATA:

Measuring Point: TOC-PVC ***(B)***

Depth to Bottom: 22.46

Depth to Water: 13.76

Water Column Height: ***(A)*** 8.70

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)***

NA

Gal. to be Purged: ***(AxBxC)***

NA

Pipe Width	Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	**0.653**
6.0"	1.469
8.0"	2.611

Purge Method: Low Flow - Peristaltic

Start Date: 10/11/2021

Start Time: 11:16

Stop Time: 11:41

Purge Rate (gpm): 0.075

Elapsed Time (min): 25

Well Vol. Purged (#): 0.33

Purge Vol. (gal): 1.88

Well went dry? **No** Yes

Conditions: No Odor **Odor**

Clear Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm^c	uS/cm	NTU	g/L		mg/L		mV	
0	11:16	13.76	16.9	2030	1715	4.16	1.3260	None	3.13	6.90	-123.0	
0.38	11:21	13.82	16.3	2049	1708	3.31	1.3325	None	0.70	6.84	-118.2	
0.75	11:26	13.82	16.5	2032	1702	4.42	1.3195	Slight Petroleum	0.37	6.79	-120.0	
1.13	11:31	13.82	16.5	1999	1674	1.94	1.3000	Slight Petroleum	0.27	6.76	-125.0	
1.50	11:36	13.82	16.6	1936	1626	1.62	1.2545	Slight Petroleum	0.25	6.72	-132.4	
1.88	11:41	13.82	16.7	1880	1583	2.30	1.2222	Slight Petroleum	0.24	6.70	-139.5	

SAMPLE INFORMATION:

Sample Method: Peristaltic *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth(ft):

Weather: Partly Sunny

Barometric Pres.:

Wind: Breezy (5-10 mph from NE)

Air Temp.(^{o}F): mid 70s

Notes: MS/MSD set also collected here.

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
York Analytical	CP-51 VOCs	Standard
	CP-51 SVOCs	
	Total Lead	

QA/QC: **Duplicate** Equip. Blank Field Blank **Trip Blank**

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	CIM-MW-02 1021	Sample Time:	12:46	Sample Matrix *(circle)* :	
Well ID:	MW-02	Sample Date:	10/11/2021	***Groundwater***	Soil
Project Name:	Consolidated Iron	Sample Tech(s):	Orlowski	Surface Water	Air
Sample Location:	Newburgh, NY	Project and Task #:	41548.00	Drinking Water	Other:
		Project Manager:	KM/RUM		

WELL INFORMATION:

Well Condition: Good

Lock Type: Master Key #: 3303

PURGE DATA:

Measuring Point: TOC-PVC ***(B)***

Depth to Bottom: 19.63

Depth to Water: 11.99

Water Column Height: ***(A)*** 7.64

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)***

NA

Gal. to be Purged: ***(AxBxC)***

NA

Pipe Width	Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	**0.653**
6.0"	1.469
8.0"	2.611

Purge Method: Low Flow - Peristaltic

Start Date: 10/11/2021

Start Time: 12:25

Stop Time: 12:45

Purge Rate (gpm): 0.077

Elapsed Time (min): 20

Well Vol. Purged (#): 0.31

Purge Vol. (gal): 1.55

Well went dry? **No** Yes

Conditions: No Odor **Odor**

Clear Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm^c	uS/cm	NTU	g/L		mg/L		mV	
0	12:25	11.99	16.8	1729	1457	Moderate	1.1245	Sulfur	1.34	6.36	-99.6	
0.39	12:30	12.18	16.7	1722	1449	6.42	1.1180	Sulfur	0.31	6.37	-104.7	
0.77	12:35	12.18	16.8	1721	1453	0.41	1.1180	Sulfur	0.21	6.37	-105.5	
1.16	12:40	12.18	16.8	1719	1451	0.02	1.1180	Slight Sulfur	0.19	6.37	-105.6	
1.55	12:45	12.18	16.8	1720	1452	0.02	1.1180	Slight Sulfur	0.19	6.37	-106.0	

SAMPLE INFORMATION:

Sample Method: Peristaltic *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth(ft):

Weather: Partly Sunny

Barometric Pres.:

Wind: Breezy (5-10 mph from NE)

Air Temp.(^{o}F): mid 70s

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
York Analytical	CP-51 VOCs	Standard
	CP-51 SVOCs	
	Total Lead, Total Arsenic	

QA/QC: Duplicate Equip. Blank Field Blank **Trip Blank**

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	CIM-MW-03 1021	Sample Time:	14:15	Sample Matrix *(circle)* :	
Well ID:	MW-03	Sample Date:	10/11/2021	***Groundwater***	Soil
Project Name:	Consolidated Iron	Sample Tech(s):	Orlowski	Surface Water	Air
Sample Location:	Newburgh, NY	Project and Task #:	41548.00	Drinking Water	Other:
		Project Manager:	KM/RUM		

WELL INFORMATION:

Well Condition: Good

Lock Type: Master Key #: 3303

PURGE DATA:

Measuring Point: TOC-PVC ***(B)***

Depth to Bottom: 19.50

Depth to Water: 11.66

Water Column Height: ***(A)*** 7.84

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)*** NA

Gal. to be Purged: ***(AxBxC)*** NA

Pipe Width	Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	**0.653**
6.0"	1.469
8.0"	2.611

Purge Method: Low Flow - Peristaltic

Start Date: 10/11/2021

Start Time: 13:39

Stop Time: 14:14

Purge Rate (gpm): 0.082

Elapsed Time (min): 35

Well Vol. Purged (#): 0.56

Purge Vol. (gal): 2.88

Well went dry? **No** Yes

Conditions: **No Odor** Odor; **Clear** Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	NTU	g/L		mg/L		mV	
0	13:39	11.66	18.2	963	838	6.52	0.6240	None	1.71	6.61	-114.3	
0.41	13:44	11.92	17.9	958	827	2.47	0.6240	None	0.39	6.43	-121.2	
0.82	13:49	11.90	18.0	925	800	2.35	0.5980	None	0.22	6.48	-139.7	
1.23	13:54	11.90	18.1	860	744	2.41	0.5590	None	0.16	6.56	-164.7	
1.65	13:59	11.90	18.0	787	682	2.39	0.5135	None	0.14	6.60	-186.9	
2.06	14:04	11.90	18.4	746	652	2.42	0.4810	None	0.13	6.59	-201.6	
2.47	14:09	11.89	18.5	722	632	2.39	0.4680	None	0.12	6.58	-211.2	
2.88	14:14	11.89	18.6	718	631	3.08	0.4680	None	0.12	6.58	-219.4	

SAMPLE INFORMATION:

Sample Method: Peristaltic *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth(ft):

Weather: Partly Sunny

Barometric Pres.:

Wind: Breezy (5-10 mph from NE)

Air Temp.(^{o}F): mid 70s

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
York Analytical	CP-51 VOCs	Standard
	CP-51 SVOCs	
	Total Lead	

QA/QC: Duplicate Equip. Blank Field Blank **Trip Blank**

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	CIM-MW-04 1021	Sample Time:	16:44	Sample Matrix *(circle)* :	
Well ID:	MW-04	Sample Date:	10/11/2021	***Groundwater***	Soil
Project Name:	Consolidated Iron	Sample Tech(s):	Orlowski	Surface Water	Air
Sample Location:	Newburgh, NY	Project and Task #:	41548.00	Drinking Water	Other:
		Project Manager:	KM/RUM		

WELL INFORMATION:

Well Condition: Good

Lock Type: Master Key #: 3303

PURGE DATA:

Measuring Point: TOC-PVC ***(B)***

Depth to Bottom: 18.45

Depth to Water: 9.83

Water Column Height: ***(A)*** 8.62

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)*** NA

Gal. to be Purged: ***(AxBxC)*** NA

Pipe Width	Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	**0.653**
6.0"	1.469
8.0"	2.611

Purge Method: Low Flow - Peristaltic

Start Date: 10/11/2021

Start Time: 16:18

Stop Time: 16:43

Purge Rate (gpm): 0.076

Elapsed Time (min): 25

Well Vol. Purged (#): 0.34

Purge Vol. (gal): 1.90

Well went dry? **No** Yes

Conditions: **No Odor** Odor

Clear Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	NTU	g/L		mg/L		mV	
0	16:18	9.83	18.0	1191	1029	Moderate	0.7735	None	2.55	6.63	-129.6	
0.38	16:23	10.05	17.9	1143	990	49.26	0.7475	None	0.39	6.62	-127.7	
0.76	16:28	10.05	17.8	1133	977	21.17	0.7345	None	0.20	6.65	-116.7	
1.14	16:33	10.05	17.7	1144	984	9.12	0.7410	None	0.15	6.66	-115.6	
1.52	16:38	10.04	17.6	1136	975	4.06	0.7345	None	0.14	6.70	-116.2	
1.90	16:43	10.04	17.6	1127	967	2.78	0.7345	None	0.13	6.74	-117.1	

SAMPLE INFORMATION:

Sample Method: Peristaltic *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth(ft):

Weather: Partly Sunny

Barometric Pres.:

Wind: Breezy (5-10 mph from NE)

Air Temp.(^{o}F): mid 70s

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
York Analytical	CP-51 VOCs	Standard
	CP-51 SVOCs	
	Total Lead	

QA/QC: Duplicate Equip. Blank Field Blank **Trip Blank**

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	CIM-MW-06 1021	Sample Time:	17:35	Sample Matrix *(circle)* :	
Well ID:	MW-06	Sample Date:	10/11/2021	***Groundwater***	Soil
Project Name:	Consolidated Iron	Sample Tech(s):	Orlowski	Surface Water	Air
Sample Location:	Newburgh, NY	Project and Task #:	41548.00	Drinking Water	Other:
		Project Manager:	KM/RUM		

WELL INFORMATION:

Well Condition: Good

Lock Type: Master Key #: 3303

PURGE DATA:

Measuring Point: TOC-PVC ***(B)***

Depth to Bottom: 16.90

Depth to Water: 7.41

Water Column Height: ***(A)*** 9.49

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)***

NA

Gal. to be Purged: ***(AxBxC)***

NA

Pipe Width	Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	**0.653**
6.0"	1.469
8.0"	2.611

Purge Method: Low Flow - Peristaltic

Start Date: 10/11/2021

Start Time: 17:19

Stop Time: 17:34

Purge Rate (gpm): 0.050

Elapsed Time (min): 15

Well Vol. Purged (#): 0.12

Purge Vol. (gal): 0.75

Well went dry? **No** Yes

Conditions: No Odor **Odor**

Clear Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	NTU	g/L		mg/L		mV	
0	17:19	7.41	20.1	661	597	3.44	0.4355	Sulfur	7.25	7.15	34.2	
0.25	17:24	7.56	19.3	727	648	0.02	0.4745	Sulfur	3.53	7.11	31.0	
0.50	17:29	7.63	19.2	731	649	0.02	0.4745	Sulfur	3.30	7.08	36.0	
0.75	17:34	7.73	19.0	731	647	0.02	0.4745	Sulfur	3.36	7.08	37.6	

SAMPLE INFORMATION:

Sample Method: Peristaltic *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth(ft):

Weather: Partly Sunny

Barometric Pres.:

Wind: Breezy (5-10 mph from NE)

Air Temp.(^{o}F): mid 70s

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
York Analytical	CP-51 VOCs	Standard
	CP-51 SVOCs	
	Total Lead	

QA/QC: Duplicate Equip. Blank Field Blank **Trip Blank**

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	CIM-MW-07 1021	Sample Time:	14:53	Sample Matrix *(circle)* :	
Well ID:	MW-07	Sample Date:	10/11/2021	***Groundwater***	Soil
Project Name:	Consolidated Iron	Sample Tech(s):	Orlowski	Surface Water	Air
Sample Location:	Newburgh, NY	Project and Task #:	41548.00	Drinking Water	Other:
		Project Manager:	KM/RUM		

WELL INFORMATION:

Well Condition: Good

Lock Type: Master Key #: 3303

PURGE DATA:

Measuring Point: TOC-PVC ***(B)***

Depth to Bottom: 18.52

Depth to Water: 8.89

Water Column Height: ***(A)*** 9.63

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)*** NA

Gal. to be Purged: ***(AxBxC)*** NA

Pipe Width	Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	**0.653**
6.0"	1.469
8.0"	2.611

Purge Method: Low Flow - Peristaltic

Start Date: 10/11/2021

Start Time: 14:27

Stop Time: 14:52

Purge Rate (gpm): 0.064

Elapsed Time (min): 25

Well Vol. Purged (#): 0.25

Purge Vol. (gal): 1.60

Well went dry? **No** Yes

Conditions: No Odor **Odor**

Clear Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	NTU	g/L		mg/L		mV	
0	14:27	8.89	17.8	1088	936	104.9	0.7085	Slight Sulfur	1.65	6.87	-124.4	
0.32	14:32	9.21	17.2	1089	928	23.38	0.7085	Slight Sulfur	0.51	6.73	-117.6	
0.64	14:37	9.25	17.2	1083	921	14.6	0.7020	Slight Sulfur	0.30	6.68	-115.9	
0.96	14:42	9.21	17.3	1073	914	16.98	0.6955	Slight Sulfur	0.23	6.68	-114.8	
1.28	14:47	9.20	17.3	1066	909	9.08	0.6890	Slight Sulfur	0.21	6.67	-115.8	
1.60	14:52	9.19	17.3	1054	898	11.32	0.6825	Slight Sulfur	0.19	6.68	-116.2	

SAMPLE INFORMATION:

Sample Method: Peristaltic *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth(ft):

Weather: Partly Sunny

Barometric Pres.:

Wind: Breezy (5-10 mph from NE)

Air Temp.(^{o}F): mid 70s

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
York Analytical	CP-51 VOCs	Standard
	CP-51 SVOCs	
	Total Lead	

QA/QC: Duplicate Equip. Blank Field Blank **Trip Blank**

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	CIM-MW-08 1021	Sample Time:	15:55	Sample Matrix *(circle)* :	
Well ID:	MW-08	Sample Date:	10/11/2021	***Groundwater***	Soil
Project Name:	Consolidated Iron	Sample Tech(s):	Orlowski	Surface Water	Air
Sample Location:	Newburgh, NY	Project and Task #:	41548.00	Drinking Water	Other:
		Project Manager:	KM/RUM		

WELL INFORMATION:

Well Condition: Good

Lock Type: Master Key #: 3303

PURGE DATA:

Measuring Point: TOC-PVC ***(B)***

Depth to Bottom: 17.60

Depth to Water: 8.87

Water Column Height: ***(A)*** 8.73

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)*** NA

Gal. to be Purged: ***(AxBxC)*** NA

Pipe Width	Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	**0.653**
6.0"	1.469
8.0"	2.611

Purge Method: Low Flow - Peristaltic

Start Date: 10/11/2021

Start Time: 15:29

Stop Time: 15:54

Purge Rate (gpm): 0.076

Elapsed Time (min): 25

Well Vol. Purged (#): 0.33

Purge Vol. (gal): 1.90

Well went dry? **No** Yes

Conditions: No Odor **Odor**

Clear **Slightly-Turbid** Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	NTU	g/L		mg/L		mV	
0	15:29	8.87	19.0	634	560	Moderate	0.4095	Slight Sulfur	2.56	6.88	-72.4	
0.38	15:34	9.13	18.8	631	557	94.26	0.4095	Slight Sulfur	0.51	6.56	-73.4	
0.76	15:39	9.12	18.8	630	556	72.61	0.4095	Slight Sulfur	0.28	6.59	-78.8	
1.14	15:44	9.09	18.8	630	555	64.69	0.4095	Slight Sulfur	0.21	6.61	-82.9	
1.52	15:49	9.06	18.8	630	555	62.11	0.4095	Slight Sulfur	0.20	6.62	-85.1	
1.90	15:54	9.05	18.8	630	556	58.09	0.4095	Slight Sulfur	0.18	6.65	-86.0	

SAMPLE INFORMATION:

Sample Method: Peristaltic *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth(ft):

Weather: Partly Sunny

Barometric Pres.:

Wind: Breezy (5-10 mph from NE)

Air Temp.(^{o}F): mid 70s

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
York Analytical	CP-51 VOCs	Standard
	CP-51 SVOCs	
	Total Lead	

QA/QC: Duplicate Equip. Blank Field Blank **Trip Blank**

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	CIM-MW-09 1021	Sample Time:	10:18	Sample Matrix *(circle)* :	
Well ID:	MW-09	Sample Date:	10/11/2021	***Groundwater***	Soil
Project Name:	Consolidated Iron	Sample Tech(s):	Orlowski	Surface Water	Air
Sample Location:	Newburgh, NY	Project and Task #:	41548.00	Drinking Water	Other:
		Project Manager:	KM/RUM		

WELL INFORMATION:

Well Condition: Good

Lock Type: Master Key #: 3303

PURGE DATA:

Measuring Point: TOC-PVC ***(B)***

Depth to Bottom: 20.88

Depth to Water: 12.65

Water Column Height: ***(A)*** 8.23

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)***

NA

Gal. to be Purged: ***(AxBxC)***

NA

Pipe Width	Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	**0.653**
6.0"	1.469
8.0"	2.611

Purge Method: Low Flow - Peristaltic

Start Date: 10/11/2021

Start Time: 9:52

Stop Time: 10:17

Purge Rate (gpm): 0.068

Elapsed Time (min): 25

Well Vol. Purged (#): 0.32

Purge Vol. (gal): 1.70

Well went dry? **No** Yes

Conditions: No Odor **Odor**

Clear Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	NTU	g/L		mg/L		mV	
0	9:52	12.65	15.7	1917	1577	23.36	1.2415	Sulfur/ Decay	4.88	6.32	-185.1	
0.34	9:57	12.81	15.6	1451	1190	1.98	0.9425	Sulfur/ Decay	2.13	6.76	-189.5	
0.68	10:02	12.81	15.6	1348	1107	4.13	0.8775	Slight Sulfur	0.58	6.89	-168.2	
1.02	10:07	12.81	15.6	1324	1087	3.22	0.8580	Slight Sulfur	0.33	6.94	-160.2	
1.36	10:12	12.81	15.6	1320	1083	3.41	0.8580	Slight Sulfur	0.31	6.95	-157.0	
1.70	10:17	12.81	15.7	1315	1080	1.09	0.8515	Slight Sulfur	0.29	6.97	-153.8	

SAMPLE INFORMATION:

Sample Method: Peristaltic *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth(ft):

Weather: Partly Sunny

Barometric Pres.:

Wind: Breezy (5-10 mph from NE)

Air Temp.(^{o}F): mid 70s

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
York Analytical	CP-51 VOCs	Standard
	CP-51 SVOCs	
	Total Lead	

QA/QC: Duplicate Equip. Blank Field Blank **Trip Blank**

Appendix D

October 2021 Laboratory Report

Technical Report

prepared for:

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Eric Orlowski

Report Date: 10/20/2021
Client Project ID: 41548.21 CONSOLIDATED IRON
York Project (SDG) No.: 21J0506

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 10/20/2021
Client Project ID: 41548.21 CONSOLIDATED IRON
York Project (SDG) No.: 21J0506

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Eric Orlowski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 12, 2021 and listed below. The project was identified as your project: **41548.21 CONSOLIDATED IRON**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
21J0506-01	CIM-MW-01 1021	Water	10/11/2021	10/12/2021
21J0506-02	CIM-MW-02 1021	Water	10/11/2021	10/12/2021
21J0506-03	CIM-MW-03 1021	Water	10/11/2021	10/12/2021
21J0506-04	CIM-MW-04 1021	Water	10/11/2021	10/12/2021
21J0506-05	CIM-MW-06 1021	Water	10/11/2021	10/12/2021
21J0506-06	CIM-MW-07 1021	Water	10/11/2021	10/12/2021
21J0506-07	CIM-MW-08 1021	Water	10/11/2021	10/12/2021
21J0506-08	CIM-MW-09 1021	Water	10/11/2021	10/12/2021
21J0506-09	CIM-FD-001 1021	Water	10/11/2021	10/12/2021
21J0506-10	TRIP BLANK 1021	Water	10/11/2021	10/12/2021

General Notes for York Project (SDG) No.: 21J0506

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:  **Date:** 10/20/2021

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: CIM-MW-01 1021 **York Sample ID:** 21J0506-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 11:42 am	10/12/2021

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	**1,2,4-Trimethylbenzene**	**0.46**	J	ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 13:56	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	**1,3,5-Trimethylbenzene**	**1.4**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 13:56	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	**Benzene**	**14**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 13:56	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	**Ethyl Benzene**	**100**		ug/L	2.0	5.0	10	EPA 8260C	10/13/2021 09:00	10/13/2021 17:43	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	**Isopropylbenzene**	**47**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 13:56	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**3.0**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 13:56	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
91-20-3	**Naphthalene**	**37**		ug/L	1.0	2.0	1	EPA 8260C	10/13/2021 09:00	10/13/2021 13:56	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	**n-Butylbenzene**	**7.1**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 13:56	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	**n-Propylbenzene**	**98**		ug/L	2.0	5.0	10	EPA 8260C	10/13/2021 09:00	10/13/2021 17:43	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	**o-Xylene**	**0.25**	J	ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 13:56	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	**p- & m- Xylenes**	**4.0**		ug/L	0.50	1.0	1	EPA 8260C	10/13/2021 09:00	10/13/2021 13:56	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	**p-Isopropyltoluene**	**0.60**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 13:56	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	**sec-Butylbenzene**	**7.2**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 13:56	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	**tert-Butylbenzene**	**0.39**	J	ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 13:56	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	**Toluene**	**3.4**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 13:56	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	**Xylenes, Total**	**4.3**		ug/L	0.60	1.5	1	EPA 8260C	10/13/2021 09:00	10/13/2021 13:56	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*83.4 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*90.7 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.9 %*	*79-122*

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: CIM-MW-01 1021 **York Sample ID:** 21J0506-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 11:42 am	10/12/2021

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**0.185**		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**0.0513**	J	ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	**Fluorene**	**0.103**		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	**Naphthalene**	**19.2**		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	**Phenanthrene**	**0.123**		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
129-00-0	Pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/15/2021 13:06	10/19/2021 11:12	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*93.8 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*86.5 %*	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*77.2 %*	*30.7-106*

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.50**		ug/L	1.11	1	EPA 6020B	10/19/2021 09:56	10/19/2021 18:35	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CIM-MW-02 1021 **York Sample ID:** 21J0506-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 12:46 pm	10/12/2021

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 12:12	PD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 12:12	PD
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 12:12	PD
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 12:12	PD
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 12:12	PD
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**0.69**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 12:12	PD
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	10/14/2021 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 12:12	PD
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 12:12	PD
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 12:12	PD
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/14/2021 12:12	PD
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/14/2021 12:12	PD
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 12:12	PD
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 12:12	PD
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 12:12	PD
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 12:12	PD
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/14/2021 12:12	PD

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*89.8 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.9 %*	*79-122*

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: CIM-MW-02 1021 **York Sample ID:** 21J0506-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 12:46 pm	10/12/2021

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
206-44-0	Fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
85-01-8	Phenanthrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH
129-00-0	Pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 21:34	KH

	Surrogate Recoveries	Result	Acceptance Range
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*110 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*74.9 %*	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*55.0 %*	*30.7-106*

Arsenic by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**89.6**		ug/L	1.11	1	EPA 6020B Certifications:	10/18/2021 09:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 18:36	BML

Sample Information

Client Sample ID: CIM-MW-02 1021 **York Sample ID:** 21J0506-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 12:46 pm	10/12/2021

Lead by EPA 6020 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 09:13	10/18/2021 18:36	BML

Sample Information

Client Sample ID: CIM-MW-03 1021 **York Sample ID:** 21J0506-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 2:15 pm	10/12/2021

Volatile Organics, CP-51 (STARS) Low level **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**1.0**		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 09:00	10/14/2021 12:40	PD

Sample Information

Client Sample ID: CIM-MW-03 1021 **York Sample ID:** 21J0506-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 2:15 pm	10/12/2021

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/14/2021 12:40	PD

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*89.6 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.7 %*	*79-122*

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:06	KH

Sample Information

Client Sample ID: CIM-MW-03 1021 **York Sample ID:** 21J0506-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 2:15 pm	10/12/2021

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes: **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

	Surrogate Recoveries	Result	Acceptance Range
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*103 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*71.4 %*	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*55.8 %*	*30.7-106*

Lead by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**3.94**		ug/L	1.11	1	EPA 6020B	10/18/2021 09:13	10/18/2021 18:47	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CIM-MW-04 1021 **York Sample ID:** 21J0506-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 4:44 pm	10/12/2021

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 15:21	PD
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 15:21	PD
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 15:21	PD
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 15:21	PD
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 15:21	PD
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**2.7**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 15:21	PD
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	10/13/2021 09:00	10/13/2021 15:21	PD
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 15:21	PD
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 15:21	PD
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: CIM-MW-04 1021 **York Sample ID:** 21J0506-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 4:44 pm	10/12/2021

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/13/2021 15:21	PD
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/13/2021 15:21	PD
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:21	PD
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:21	PD
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:21	PD
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:21	PD
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/13/2021 15:21	PD

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*90.0 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.7 %*	*79-122*

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH

Sample Information

Client Sample ID: CIM-MW-04 1021 **York Sample ID:** 21J0506-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 4:44 pm	10/12/2021

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 22:39	KH

	Surrogate Recoveries	Result	Acceptance Range
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*91.2 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*65.5 %*	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*47.6 %*	*30.7-106*

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**2.43**		ug/L	1.11	1	EPA 6020B Certifications:	10/18/2021 09:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 18:50	BML

Sample Information

Client Sample ID: CIM-MW-06 1021 **York Sample ID:** 21J0506-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 5:35 pm	10/12/2021

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:49	PD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:49	PD
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:49	PD

Sample Information

Client Sample ID: CIM-MW-06 1021 **York Sample ID:** 21J0506-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 5:35 pm	10/12/2021

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:49	PD
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:49	PD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:49	PD
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	10/13/2021 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:49	PD
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:49	PD
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:49	PD
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/13/2021 15:49	PD
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/13/2021 15:49	PD
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:49	PD
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:49	PD
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:49	PD
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 15:49	PD
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/13/2021 15:49	PD

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*89.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.3 %*	*79-122*

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH

Sample Information

Client Sample ID: CIM-MW-06 1021 **York Sample ID:** 21J0506-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 5:35 pm	10/12/2021

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH
206-44-0	Fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH
85-01-8	Phenanthrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH
129-00-0	Pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 23:11	KH

	Surrogate Recoveries	Result	Acceptance Range
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*86.2 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*63.8 %*	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*49.9 %*	*30.7-106*

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**7.39**		ug/L	1.11	1	EPA 6020B Certifications:	10/18/2021 09:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/18/2021 18:54	BML

Sample Information

Client Sample ID: CIM-MW-07 1021 **York Sample ID:** 21J0506-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 2:53 pm	10/12/2021

Sample Information

Client Sample ID: CIM-MW-07 1021 **York Sample ID:** 21J0506-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 2:53 pm	10/12/2021

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 16:18	PD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 16:18	PD
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 16:18	PD
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 16:18	PD
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 16:18	PD
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**2.2**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 16:18	PD
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	10/13/2021 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 16:18	PD
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 16:18	PD
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 16:18	PD
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/13/2021 16:18	PD
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/13/2021 16:18	PD
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 16:18	PD
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 16:18	PD
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 16:18	PD
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 16:18	PD
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/13/2021 16:18	PD

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*89.4 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.1 %*	*79-122*

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **CIM-MW-07 1021** **York Sample ID:** **21J0506-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 2:53 pm	10/12/2021

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**1.02**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**0.200**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	Chrysene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**0.558**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	**Fluorene**	**0.537**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	**Naphthalene**	**0.0526**	J	ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	**Phenanthrene**	**1.48**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
129-00-0	**Pyrene**	**0.453**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/18/2021 23:44	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*89.9 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*64.2 %*	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*41.6 %*	*30.7-106*

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**45.4**		ug/L	1.11	1	EPA 6020B	10/19/2021 09:56	10/19/2021 18:53	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **CIM-MW-07 1021** **York Sample ID:** **21J0506-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 2:53 pm	10/12/2021

Sample Information

Client Sample ID: **CIM-MW-08 1021** **York Sample ID:** **21J0506-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 3:55 pm	10/12/2021

Volatile Organics, CP-51 (STARS) Low level **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**0.41**	J	ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	10/13/2021 09:00	10/13/2021 16:46	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*89.8 %*	*81-117*

Sample Information

Client Sample ID: CIM-MW-08 1021 **York Sample ID:** 21J0506-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 3:55 pm	10/12/2021

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.9 %*			*79-122*						

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**0.147**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	**Acenaphthylene**	**0.0526**	J	ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**0.147**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
56-55-3	**Benzo(a)anthracene**	**0.389**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	**Benzo(a)pyrene**	**0.400**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	**Benzo(b)fluoranthene**	**0.316**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	**Benzo(g,h,i)perylene**	**0.0947**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	**Benzo(k)fluoranthene**	**0.347**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	**Chrysene**	**0.368**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	**Dibenzo(a,h)anthracene**	**0.0526**	J	ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**0.937**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	**Fluorene**	**0.105**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.116**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	**Naphthalene**	**0.0526**	J	ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	**Phenanthrene**	**0.526**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
129-00-0	**Pyrene**	**0.726**		ug/L	0.0526	0.0526	1	EPA 8270D	10/15/2021 07:39	10/19/2021 00:16	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*80.5 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*62.2 %*	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*40.0 %*	*30.7-106*

Sample Information

Client Sample ID: CIM-MW-08 1021 **York Sample ID:** 21J0506-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 3:55 pm	10/12/2021

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**8.78**		ug/L	1.11	1	EPA 6020B	10/19/2021 09:56	10/19/2021 18:56	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Lead, Dissolved by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**6.19**		ug/L	1.11	1	EPA 6020B	10/18/2021 09:06	10/18/2021 17:14	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CIM-MW-09 1021 **York Sample ID:** 21J0506-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 10:18 am	10/12/2021

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/14/2021 09:00	10/14/2021 13:09	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/14/2021 09:00	10/14/2021 13:09	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	**Benzene**	**4.7**		ug/L	0.20	0.50	1	EPA 8260C	10/14/2021 09:00	10/14/2021 13:09	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/14/2021 09:00	10/14/2021 13:09	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/14/2021 09:00	10/14/2021 13:09	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/14/2021 09:00	10/14/2021 13:09	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	10/14/2021 09:00	10/14/2021 13:09	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/14/2021 09:00	10/14/2021 13:09	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/14/2021 09:00	10/14/2021 13:09	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/14/2021 09:00	10/14/2021 13:09	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		

Sample Information

Client Sample ID: CIM-MW-09 1021 **York Sample ID:** 21J0506-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 10:18 am	10/12/2021

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/14/2021 13:09	PD
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 13:09	PD
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 13:09	PD
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 13:09	PD
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/14/2021 13:09	PD
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	10/14/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/14/2021 13:09	PD

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*89.6 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.4 %*	*79-122*

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH

Sample Information

Client Sample ID: CIM-MW-09 1021 **York Sample ID:** 21J0506-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 10:18 am	10/12/2021

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications:	10/15/2021 07:39 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 00:49	KH

	Surrogate Recoveries	Result	Acceptance Range
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*82.4 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*60.2 %*	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*42.2 %*	*30.7-106*

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**7.72**		ug/L	1.11	1	EPA 6020B Certifications:	10/19/2021 09:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2021 19:00	BML

Sample Information

Client Sample ID: CIM-FD-001 1021 **York Sample ID:** 21J0506-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 3:00 pm	10/12/2021

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	**1,2,4-Trimethylbenzene**	**0.45**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 12:59	PD
108-67-8	**1,3,5-Trimethylbenzene**	**1.3**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 12:59	PD
71-43-2	**Benzene**	**13**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 12:59	PD
100-41-4	**Ethyl Benzene**	**93**		ug/L	2.0	5.0	10	EPA 8260C Certifications:	10/13/2021 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/13/2021 18:11	PD

Sample Information

Client Sample ID: CIM-FD-001 1021 **York Sample ID:** 21J0506-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 3:00 pm	10/12/2021

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	**Isopropylbenzene**	**46**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 12:59	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**3.0**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 12:59	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
91-20-3	**Naphthalene**	**37**		ug/L	1.0	2.0	1	EPA 8260C	10/13/2021 09:00	10/13/2021 12:59	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	**n-Butylbenzene**	**5.4**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 12:59	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	**n-Propylbenzene**	**86**		ug/L	2.0	5.0	10	EPA 8260C	10/13/2021 09:00	10/13/2021 18:11	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	**o-Xylene**	**0.23**	J	ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 12:59	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	**p- & m- Xylenes**	**3.8**		ug/L	0.50	1.0	1	EPA 8260C	10/13/2021 09:00	10/13/2021 12:59	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	**p-Isopropyltoluene**	**0.57**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 12:59	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	**sec-Butylbenzene**	**7.0**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 12:59	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	**tert-Butylbenzene**	**0.38**	J	ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 12:59	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	**Toluene**	**3.4**		ug/L	0.20	0.50	1	EPA 8260C	10/13/2021 09:00	10/13/2021 12:59	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	**Xylenes, Total**	**4.1**		ug/L	0.60	1.5	1	EPA 8260C	10/13/2021 09:00	10/13/2021 12:59	PD
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*80.7 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*91.2 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.6 %*	*79-122*

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**0.195**		ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**0.0541**	J	ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CIM-FD-001 1021 **York Sample ID:** 21J0506-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 3:00 pm	10/12/2021

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**0.0649**		ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	**Fluorene**	**0.119**		ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	**Naphthalene**	**17.8**		ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	**Phenanthrene**	**0.151**		ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
129-00-0	**Pyrene**	**0.0541**	J	ug/L	0.0541	0.0541	1	EPA 8270D	10/15/2021 07:39	10/19/2021 01:21	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*93.6 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*67.7 %*	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*53.4 %*	*30.7-106*

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.39**		ug/L	1.11	1	EPA 6020B	10/19/2021 09:56	10/19/2021 19:03	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: TRIP BLANK 1021 **York Sample ID:** 21J0506-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 10:00 am	10/12/2021

Sample Information

Client Sample ID: TRIP BLANK 1021 **York Sample ID:** 21J0506-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0506	41548.21 CONSOLIDATED IRON	Water	October 11, 2021 10:00 am	10/12/2021

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	PD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	PD
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	PD
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	PD
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	PD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	PD
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	PD
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	PD
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	PD
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	PD
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	PD
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	PD
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	PD
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	PD
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	PD
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	10/14/2021 09:00	10/14/2021 11:43 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	PD

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*108 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*89.3 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.5 %*	*79-122*

Analytical Batch Summary

Batch ID: BJ10729 **Preparation Method:** EPA 5030B **Prepared By:** PD

YORK Sample ID	Client Sample ID	Preparation Date
21J0506-01	CIM-MW-01 1021	10/13/21
21J0506-01RE1	CIM-MW-01 1021	10/13/21
21J0506-04	CIM-MW-04 1021	10/13/21
21J0506-05	CIM-MW-06 1021	10/13/21
21J0506-06	CIM-MW-07 1021	10/13/21
21J0506-07	CIM-MW-08 1021	10/13/21
21J0506-09	CIM-FD-001 1021	10/13/21
21J0506-09RE1	CIM-FD-001 1021	10/13/21
BJ10729-BLK1	Blank	10/13/21
BJ10729-BS1	LCS	10/13/21
BJ10729-BSD1	LCS Dup	10/13/21
BJ10729-MS1	Matrix Spike	10/13/21
BJ10729-MSD1	Matrix Spike Dup	10/13/21

Batch ID: BJ10817 **Preparation Method:** EPA 5030B **Prepared By:** PD

YORK Sample ID	Client Sample ID	Preparation Date
21J0506-02	CIM-MW-02 1021	10/14/21
21J0506-03	CIM-MW-03 1021	10/14/21
21J0506-08	CIM-MW-09 1021	10/14/21
21J0506-10	TRIP BLANK 1021	10/14/21
BJ10817-BLK1	Blank	10/14/21
BJ10817-BS1	LCS	10/14/21
BJ10817-BSD1	LCS Dup	10/14/21

Batch ID: BJ10876 **Preparation Method:** EPA 3510C **Prepared By:** MC

YORK Sample ID	Client Sample ID	Preparation Date
21J0506-02	CIM-MW-02 1021	10/15/21
21J0506-03	CIM-MW-03 1021	10/15/21
21J0506-04	CIM-MW-04 1021	10/15/21
21J0506-05	CIM-MW-06 1021	10/15/21
21J0506-06	CIM-MW-07 1021	10/15/21
21J0506-07	CIM-MW-08 1021	10/15/21
21J0506-08	CIM-MW-09 1021	10/15/21
21J0506-09	CIM-FD-001 1021	10/15/21
BJ10876-BLK1	Blank	10/15/21
BJ10876-BLK2	Blank	10/15/21
BJ10876-BS1	LCS	10/15/21
BJ10876-BS2	LCS	10/15/21
BJ10876-MS1	Matrix Spike	10/15/21
BJ10876-MSD1	Matrix Spike Dup	10/15/21

Batch ID: BJ10918 **Preparation Method:** EPA 3510C **Prepared By:** BMT

YORK Sample ID	Client Sample ID	Preparation Date
21J0506-01	CIM-MW-01 1021	10/15/21
BJ10918-BLK1	Blank	10/15/21
BJ10918-BLK2	Blank	10/15/21
BJ10918-BS1	LCS	10/15/21
BJ10918-BS2	LCS	10/15/21

Batch ID: BJ10979 **Preparation Method:** EPA 3015A **Prepared By:** BR

YORK Sample ID	Client Sample ID	Preparation Date
21J0506-07	CIM-MW-08 1021	10/18/21
BJ10979-BLK1	Blank	10/18/21
BJ10979-BS1	LCS	10/18/21
BJ10979-DUP1	Duplicate	10/18/21
BJ10979-MS1	Matrix Spike	10/18/21

Batch ID: BJ10981 **Preparation Method:** EPA 3015A **Prepared By:** BR

YORK Sample ID	Client Sample ID	Preparation Date
21J0506-02	CIM-MW-02 1021	10/18/21
21J0506-03	CIM-MW-03 1021	10/18/21
21J0506-04	CIM-MW-04 1021	10/18/21
21J0506-05	CIM-MW-06 1021	10/18/21
BJ10981-BLK1	Blank	10/18/21
BJ10981-BS1	LCS	10/18/21
BJ10981-DUP1	Duplicate	10/18/21
BJ10981-MS1	Matrix Spike	10/18/21

Batch ID: BJ11072 **Preparation Method:** EPA 3015A **Prepared By:** BR

YORK Sample ID	Client Sample ID	Preparation Date
21J0506-01	CIM-MW-01 1021	10/19/21
21J0506-06	CIM-MW-07 1021	10/19/21
21J0506-07	CIM-MW-08 1021	10/19/21
21J0506-08	CIM-MW-09 1021	10/19/21
21J0506-09	CIM-FD-001 1021	10/19/21
BJ11072-BLK1	Blank	10/19/21
BJ11072-BS1	LCS	10/19/21
BJ11072-DUP1	Duplicate	10/19/21
BJ11072-DUP2	Duplicate	10/19/21
BJ11072-MS1	Matrix Spike	10/19/21
BJ11072-MS2	Matrix Spike	10/19/21

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10729 - EPA 5030B											
Blank (BJ10729-BLK1)								Prepared & Analyzed: 10/13/2021			
1,2,4-Trimethylbenzene	ND	0.50	ug/L								
1,3,5-Trimethylbenzene	ND	0.50	"								
Benzene	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Toluene	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.7*		*"*	*10.0*		*107*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.09*		*"*	*10.0*		*90.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.97*		*"*	*10.0*		*99.7*	*79-122*				
LCS (BJ10729-BS1)								Prepared & Analyzed: 10/13/2021			
1,2,4-Trimethylbenzene	9.1		ug/L	10.0		90.6	82-132				
1,3,5-Trimethylbenzene	8.9		"	10.0		88.8	80-131				
Benzene	11		"	10.0		114	85-126				
Ethyl Benzene	9.5		"	10.0		95.3	80-131				
Isopropylbenzene	9.2		"	10.0		92.1	76-140				
Methyl tert-butyl ether (MTBE)	11		"	10.0		110	76-135				
Naphthalene	9.1		"	10.0		90.9	70-147				
n-Butylbenzene	8.9		"	10.0		89.1	79-132				
n-Propylbenzene	9.0		"	10.0		90.4	78-133				
o-Xylene	9.7		"	10.0		97.2	78-130				
p- & m- Xylenes	19		"	20.0		96.3	77-133				
p-Isopropyltoluene	9.0		"	10.0		89.5	81-136				
sec-Butylbenzene	8.9		"	10.0		89.2	79-137				
tert-Butylbenzene	9.0		"	10.0		89.9	77-138				
Toluene	9.5		"	10.0		95.3	80-127				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.10*		*"*	*10.0*		*91.0*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.88*		*"*	*10.0*		*98.8*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10729 - EPA 5030B											
LCS Dup (BJ10729-BSD1)								Prepared & Analyzed: 10/13/2021			
1,2,4-Trimethylbenzene	9.2		ug/L	10.0		92.0	82-132		1.53	30	
1,3,5-Trimethylbenzene	8.9		"	10.0		89.3	80-131		0.561	30	
Benzene	11		"	10.0		115	85-126		0.964	30	
Ethyl Benzene	9.6		"	10.0		95.8	80-131		0.523	30	
Isopropylbenzene	9.3		"	10.0		92.6	76-140		0.541	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		112	76-135		1.89	30	
Naphthalene	9.3		"	10.0		93.3	70-147		2.61	30	
n-Butylbenzene	9.1		"	10.0		91.2	79-132		2.33	30	
n-Propylbenzene	9.0		"	10.0		90.3	78-133		0.111	30	
o-Xylene	9.8		"	10.0		97.6	78-130		0.411	30	
p- & m- Xylenes	19		"	20.0		96.2	77-133		0.156	30	
p-Isopropyltoluene	9.1		"	10.0		91.2	81-136		1.88	30	
sec-Butylbenzene	9.0		"	10.0		90.1	79-137		1.00	30	
tert-Butylbenzene	9.1		"	10.0		90.9	77-138		1.11	30	
Toluene	9.5		"	10.0		95.0	80-127		0.315	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.17*		*"*	*10.0*		*91.7*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.89*		*"*	*10.0*		*98.9*	*79-122*				
Matrix Spike (BJ10729-MS1)	*Source sample: 21J0506-01 (CIM-MW-01 1021)							Prepared & Analyzed: 10/13/2021			
1,2,4-Trimethylbenzene	12		ug/L	10.0	0.46	111	72-129				
1,3,5-Trimethylbenzene	12		"	10.0	1.4	108	69-126				
Benzene	26		"	10.0	14	125	38-155				
Ethyl Benzene	110		"	10.0	100	88.8	72-128				
Isopropylbenzene	58		"	10.0	47	108	66-139				
Methyl tert-butyl ether (MTBE)	14		"	10.0	3.0	111	75-128				
Naphthalene	49		"	10.0	37	117	39-158				
n-Butylbenzene	16		"	10.0	7.1	88.9	61-138				
n-Propylbenzene	110		"	10.0	99	94.7	66-134				
o-Xylene	12		"	10.0	0.25	119	69-126				
p- & m- Xylenes	28		"	20.0	4.0	120	67-130				
p-Isopropyltoluene	12		"	10.0	0.60	111	64-137				
sec-Butylbenzene	18		"	10.0	7.2	110	53-155				
tert-Butylbenzene	12		"	10.0	0.39	113	65-139				
Toluene	15		"	10.0	3.4	116	76-123				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.28*		*"*	*10.0*		*92.8*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.12*		*"*	*10.0*		*91.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.96*		*"*	*10.0*		*99.6*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10729 - EPA 5030B											
Matrix Spike Dup (BJ10729-MSD1)	*Source sample: 21J0506-01 (CIM-MW-01 1021)							Prepared & Analyzed: 10/13/2021			
1,2,4-Trimethylbenzene	11		ug/L	10.0	0.46	108	72-129		2.56	30	
1,3,5-Trimethylbenzene	12		"	10.0	1.4	106	69-126		2.05	30	
Benzene	26		"	10.0	14	124	38-155		0.642	30	
Ethyl Benzene	110		"	10.0	100	88.7	72-128		0.113	30	
Isopropylbenzene	57		"	10.0	47	105	66-139		2.35	30	
Methyl tert-butyl ether (MTBE)	14		"	10.0	3.0	110	75-128		0.817	30	
Naphthalene	50		"	10.0	37	124	39-158		6.39	30	
n-Butylbenzene	16		"	10.0	7.1	86.1	61-138		3.20	30	
n-Propylbenzene	110		"	10.0	99	89.0	66-134		6.21	30	
o-Xylene	12		"	10.0	0.25	116	69-126		2.98	30	
p- & m- Xylenes	27		"	20.0	4.0	117	67-130		2.58	30	
p-Isopropyltoluene	11		"	10.0	0.60	108	64-137		2.93	30	
sec-Butylbenzene	18		"	10.0	7.2	107	53-155		3.04	30	
tert-Butylbenzene	11		"	10.0	0.39	110	65-139		2.88	30	
Toluene	15		"	10.0	3.4	116	76-123		0.00	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.23*		*"*	*10.0*		*92.3*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.07*		*"*	*10.0*		*90.7*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.81*		*"*	*10.0*		*98.1*	*79-122*				
Batch BJ10817 - EPA 5030B											
Blank (BJ10817-BLK1)								Prepared & Analyzed: 10/14/2021			
1,2,4-Trimethylbenzene	ND	0.50	ug/L								
1,3,5-Trimethylbenzene	ND	0.50	"								
Benzene	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Toluene	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*8.92*		*"*	*10.0*		*89.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.77*		*"*	*10.0*		*97.7*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10817 - EPA 5030B											
LCS (BJ10817-BS1)								Prepared & Analyzed: 10/14/2021			
1,2,4-Trimethylbenzene	9.4		ug/L	10.0		94.4	82-132				
1,3,5-Trimethylbenzene	9.3		"	10.0		92.9	80-131				
Benzene	12		"	10.0		123	85-126				
Ethyl Benzene	10		"	10.0		101	80-131				
Isopropylbenzene	9.7		"	10.0		97.1	76-140				
Methyl tert-butyl ether (MTBE)	12		"	10.0		119	76-135				
Naphthalene	9.5		"	10.0		95.3	70-147				
n-Butylbenzene	9.0		"	10.0		89.7	79-132				
n-Propylbenzene	9.5		"	10.0		94.7	78-133				
o-Xylene	10		"	10.0		103	78-130				
p- & m- Xylenes	20		"	20.0		102	77-133				
p-Isopropyltoluene	9.3		"	10.0		92.7	81-136				
sec-Butylbenzene	9.2		"	10.0		92.2	79-137				
tert-Butylbenzene	9.4		"	10.0		93.7	77-138				
Toluene	10		"	10.0		101	80-127				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.06*		*"*	*10.0*		*90.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.96*		*"*	*10.0*		*99.6*	*79-122*				
LCS Dup (BJ10817-BSD1)								Prepared & Analyzed: 10/14/2021			
1,2,4-Trimethylbenzene	9.5		ug/L	10.0		95.4	82-132		1.05	30	
1,3,5-Trimethylbenzene	9.4		"	10.0		94.0	80-131		1.18	30	
Benzene	12		"	10.0		122	85-126		0.572	30	
Ethyl Benzene	10		"	10.0		100	80-131		0.497	30	
Isopropylbenzene	9.8		"	10.0		97.5	76-140		0.411	30	
Methyl tert-butyl ether (MTBE)	12		"	10.0		121	76-135		1.67	30	
Naphthalene	9.6		"	10.0		96.3	70-147		1.04	30	
n-Butylbenzene	9.5		"	10.0		95.4	79-132		6.16	30	
n-Propylbenzene	9.5		"	10.0		95.4	78-133		0.736	30	
o-Xylene	10		"	10.0		103	78-130		0.0974	30	
p- & m- Xylenes	20		"	20.0		102	77-133		0.686	30	
p-Isopropyltoluene	9.5		"	10.0		95.2	81-136		2.66	30	
sec-Butylbenzene	9.5		"	10.0		95.3	79-137		3.31	30	
tert-Butylbenzene	9.6		"	10.0		96.2	77-138		2.63	30	
Toluene	9.9		"	10.0		99.1	80-127		2.00	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*8.96*		*"*	*10.0*		*89.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.82*		*"*	*10.0*		*98.2*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10876 - EPA 3510C											
Blank (BJ10876-BLK1)											Prepared: 10/15/2021 Analyzed: 10/18/2021
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								
Surrogate: SURR: Nitrobenzene-d5	*19.8*		*"*	*25.0*		*79.2*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*18.0*		*"*	*25.0*		*71.9*	*39.9-105*				
Surrogate: SURR: Terphenyl-d14	*28.4*		*"*	*25.0*		*113*	*30.7-106*				
Blank (BJ10876-BLK2)											Prepared: 10/15/2021 Analyzed: 10/18/2021
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								
Surrogate: SURR: Nitrobenzene-d5	*0.00*		*"*	*25.0*			*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.00*		*"*	*25.0*			*39.9-105*				
Surrogate: SURR: Terphenyl-d14	*0.00*		*"*	*25.0*			*30.7-106*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10876 - EPA 3510C											
LCS (BJ10876-BS1)									Prepared: 10/15/2021 Analyzed: 10/18/2021		
Acenaphthene	18.5	0.0500	ug/L	25.0		74.1	24-114				
Acenaphthylene	18.8	0.0500	"	25.0		75.4	26-112				
Anthracene	20.5	0.0500	"	25.0		82.1	35-114				
Benzo(a)anthracene	20.5	0.0500	"	25.0		82.0	38-127				
Benzo(a)pyrene	18.6	0.0500	"	25.0		74.4	30-146				
Benzo(b)fluoranthene	18.5	0.0500	"	25.0		74.2	36-145				
Benzo(g,h,i)perylene	20.0	0.0500	"	25.0		80.0	10-163				
Benzo(k)fluoranthene	18.1	0.0500	"	25.0		72.6	16-149				
Chrysene	19.8	0.0500	"	25.0		79.2	33-120				
Dibenzo(a,h)anthracene	21.8	0.0500	"	25.0		87.3	10-149				
Fluoranthene	21.2	0.0500	"	25.0		85.0	33-126				
Fluorene	19.8	0.0500	"	25.0		79.2	28-117				
Indeno(1,2,3-cd)pyrene	19.9	0.0500	"	25.0		79.8	10-150				
Naphthalene	18.1	0.0500	"	25.0		72.3	30-99				
Phenanthrene	19.2	0.0500	"	25.0		77.0	31-112				
Pyrene	20.4	0.0500	"	25.0		81.8	42-125				
Surrogate: SURR: Nitrobenzene-d5	*19.6*		*"*	*25.0*		*78.5*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*18.3*		*"*	*25.0*		*73.2*	*39.9-105*				
Surrogate: SURR: Terphenyl-d14	*24.0*		*"*	*25.0*		*95.8*	*30.7-106*				
LCS (BJ10876-BS2)									Prepared: 10/15/2021 Analyzed: 10/18/2021		
Acenaphthene	0.770	0.0500	ug/L				24-114				
Acenaphthylene	0.830	0.0500	"				26-112				
Anthracene	0.580	0.0500	"				35-114				
Benzo(a)anthracene	0.910	0.0500	"				38-127				
Benzo(a)pyrene	0.660	0.0500	"				30-146				
Benzo(b)fluoranthene	0.940	0.0500	"				36-145				
Benzo(g,h,i)perylene	1.05	0.0500	"				10-163				
Benzo(k)fluoranthene	0.880	0.0500	"				16-149				
Chrysene	0.950	0.0500	"				33-120				
Dibenzo(a,h)anthracene	1.05	0.0500	"				10-149				
Fluoranthene	0.950	0.0500	"				33-126				
Fluorene	0.840	0.0500	"				28-117				
Indeno(1,2,3-cd)pyrene	1.04	0.0500	"				10-150				
Naphthalene	0.850	0.0500	"				30-99				
Phenanthrene	0.880	0.0500	"				31-112				
Pyrene	0.900	0.0500	"				42-125				
Surrogate: SURR: Nitrobenzene-d5	*0.00*		*"*	*25.0*			*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.00*		*"*	*25.0*			*39.9-105*				
Surrogate: SURR: Terphenyl-d14	*0.00*		*"*	*25.0*			*30.7-106*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10876 - EPA 3510C											
Matrix Spike (BJ10876-MS1)	*Source sample: 21J0487-01 (Matrix Spike)								Prepared: 10/15/2021 Analyzed: 10/18/2021		
Acenaphthene	10.6	0.0500	ug/L	25.0	0.278	41.2	17-132				
Acenaphthylene	10.0	0.0500	"	25.0	ND	40.0	13-124				
Anthracene	10.8	0.0500	"	25.0	ND	43.3	40-105				
Benzo(a)anthracene	11.6	0.0500	"	25.0	ND	46.4	23-141				
Benzo(a)pyrene	12.0	0.0500	"	25.0	ND	47.9	46-118				
Benzo(b)fluoranthene	11.5	0.0500	"	25.0	ND	46.0	22-133				
Benzo(g,h,i)perylene	12.0	0.0500	"	25.0	ND	48.0	10-126				
Benzo(k)fluoranthene	12.1	0.0500	"	25.0	ND	48.4	18-152				
Chrysene	10.9	0.0500	"	25.0	ND	43.6	30-127				
Dibenzo(a,h)anthracene	12.5	0.0500	"	25.0	ND	49.8	10-131				
Fluoranthene	11.6	0.0500	"	25.0	ND	46.6	29-123				
Fluorene	10.8	0.0500	"	25.0	ND	43.0	20-133				
Indeno(1,2,3-cd)pyrene	11.5	0.0500	"	25.0	ND	46.0	10-130				
Naphthalene	10.7	0.0500	"	25.0	1.91	35.2	26-104				
Phenanthrene	11.2	0.0500	"	25.0	0.278	43.6	29-121				
Pyrene	11.3	0.0500	"	25.0	ND	45.0	34-129				
Surrogate: SURR: Nitrobenzene-d5	*11.2*		*"*	*25.0*		*44.8*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*9.36*		*"*	*25.0*		*37.4*	*39.9-105*				
Surrogate: SURR: Terphenyl-d14	*10.2*		*"*	*25.0*		*40.6*	*30.7-106*				
Matrix Spike Dup (BJ10876-MSD1)	*Source sample: 21J0487-01 (Matrix Spike Dup)								Prepared: 10/15/2021 Analyzed: 10/18/2021		
Acenaphthene	11.3	0.0526	ug/L	26.3	0.278	41.9	17-132		6.44	20	
Acenaphthylene	10.7	0.0526	"	26.3	ND	40.6	13-124		6.52	20	
Anthracene	12.1	0.0526	"	26.3	ND	46.1	40-105		11.4	20	
Benzo(a)anthracene	12.1	0.0526	"	26.3	ND	46.1	23-141		4.52	20	
Benzo(a)pyrene	13.1	0.0526	"	26.3	ND	49.6	46-118		8.57	20	
Benzo(b)fluoranthene	12.7	0.0526	"	26.3	ND	48.3	22-133		10.0	20	
Benzo(g,h,i)perylene	12.7	0.0526	"	26.3	ND	48.1	10-126		5.46	20	
Benzo(k)fluoranthene	12.3	0.0526	"	26.3	ND	46.6	18-152		1.34	20	
Chrysene	11.6	0.0526	"	26.3	ND	44.1	30-127		6.31	20	
Dibenzo(a,h)anthracene	13.1	0.0526	"	26.3	ND	49.7	10-131		4.89	20	
Fluoranthene	12.7	0.0526	"	26.3	ND	48.2	29-123		8.59	20	
Fluorene	11.5	0.0526	"	26.3	ND	43.8	20-133		6.97	20	
Indeno(1,2,3-cd)pyrene	12.5	0.0526	"	26.3	ND	47.6	10-130		8.71	20	
Naphthalene	12.0	0.0526	"	26.3	1.91	38.2	26-104		11.1	20	
Phenanthrene	11.9	0.0526	"	26.3	0.278	44.2	29-121		6.37	20	
Pyrene	12.2	0.0526	"	26.3	ND	46.2	34-129		7.75	20	
Surrogate: SURR: Nitrobenzene-d5	*12.4*		*"*	*26.3*		*47.0*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*10.2*		*"*	*26.3*		*38.9*	*39.9-105*				
Surrogate: SURR: Terphenyl-d14	*11.8*		*"*	*26.3*		*44.8*	*30.7-106*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10918 - EPA 3510C											
Blank (BJ10918-BLK1)											Prepared: 10/15/2021 Analyzed: 10/19/2021
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								
Surrogate: SURR: Nitrobenzene-d5	*22.4*		*"*	*25.0*		*89.6*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*21.2*		*"*	*25.0*		*85.0*	*39.9-105*				
Surrogate: SURR: Terphenyl-d14	*23.7*		*"*	*25.0*		*94.8*	*30.7-106*				
Blank (BJ10918-BLK2)											Prepared: 10/15/2021 Analyzed: 10/19/2021
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								
Surrogate: SURR: Nitrobenzene-d5	*0.00*		*"*	*25.0*			*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.00*		*"*	*25.0*			*39.9-105*				
Surrogate: SURR: Terphenyl-d14	*0.00*		*"*	*25.0*			*30.7-106*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10918 - EPA 3510C											
LCS (BJ10918-BS1)									Prepared: 10/15/2021 Analyzed: 10/19/2021		
Acenaphthene	18.7	0.0500	ug/L	25.0		74.8	24-114				
Acenaphthylene	18.5	0.0500	"	25.0		73.9	26-112				
Anthracene	22.3	0.0500	"	25.0		89.4	35-114				
Benzo(a)anthracene	23.8	0.0500	"	25.0		95.2	38-127				
Benzo(a)pyrene	24.6	0.0500	"	25.0		98.5	30-146				
Benzo(b)fluoranthene	24.4	0.0500	"	25.0		97.5	36-145				
Benzo(g,h,i)perylene	23.6	0.0500	"	25.0		94.3	10-163				
Benzo(k)fluoranthene	23.4	0.0500	"	25.0		93.6	16-149				
Chrysene	22.8	0.0500	"	25.0		91.3	33-120				
Dibenzo(a,h)anthracene	27.3	0.0500	"	25.0		109	10-149				
Fluoranthene	23.5	0.0500	"	25.0		94.2	33-126				
Fluorene	20.5	0.0500	"	25.0		82.1	28-117				
Indeno(1,2,3-cd)pyrene	25.9	0.0500	"	25.0		103	10-150				
Naphthalene	17.7	0.0500	"	25.0		70.8	30-99				
Phenanthrene	21.2	0.0500	"	25.0		84.8	31-112				
Pyrene	23.6	0.0500	"	25.0		94.5	42-125				
Surrogate: SURR: Nitrobenzene-d5	*20.4*		*"*	*25.0*		*81.4*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*19.2*		*"*	*25.0*		*76.7*	*39.9-105*				
Surrogate: SURR: Terphenyl-d14	*25.6*		*"*	*25.0*		*102*	*30.7-106*				
LCS (BJ10918-BS2)									Prepared: 10/15/2021 Analyzed: 10/19/2021		
Acenaphthene	0.760	0.0500	ug/L	1.00		76.0	24-114				
Acenaphthylene	0.830	0.0500	"	1.00		83.0	26-112				
Anthracene	0.560	0.0500	"	1.00		56.0	35-114				
Benzo(a)anthracene	0.840	0.0500	"	1.00		84.0	38-127				
Benzo(a)pyrene	0.620	0.0500	"	1.00		62.0	30-146				
Benzo(b)fluoranthene	1.00	0.0500	"	1.00		100	36-145				
Benzo(g,h,i)perylene	0.400	0.0500	"	1.00		40.0	10-163				
Benzo(k)fluoranthene	0.930	0.0500	"	1.00		93.0	16-149				
Chrysene	0.870	0.0500	"	1.00		87.0	33-120				
Dibenzo(a,h)anthracene	0.510	0.0500	"	1.00		51.0	10-149				
Fluoranthene	0.920	0.0500	"	1.00		92.0	33-126				
Fluorene	0.840	0.0500	"	1.00		84.0	28-117				
Indeno(1,2,3-cd)pyrene	0.490	0.0500	"	1.00		49.0	10-150				
Naphthalene	0.840	0.0500	"	1.00		84.0	30-99				
Phenanthrene	0.830	0.0500	"	1.00		83.0	31-112				
Pyrene	0.880	0.0500	"	1.00		88.0	42-125				
Surrogate: SURR: Nitrobenzene-d5	*0.00*		*"*	*25.0*			*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.00*		*"*	*25.0*			*39.9-105*				
Surrogate: SURR: Terphenyl-d14	*0.00*		*"*	*25.0*			*30.7-106*				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10979 - EPA 3015A											
Blank (BJ10979-BLK1)								Prepared & Analyzed: 10/18/2021			
Lead - Dissolved	ND	1.11	ug/L								
LCS (BJ10979-BS1)								Prepared & Analyzed: 10/18/2021			
Lead - Dissolved	51.4		ug/L	50.0		103	80-120				
Duplicate (BJ10979-DUP1)	*Source sample: 21J0487-01 (Duplicate)							Prepared & Analyzed: 10/18/2021			
Lead - Dissolved	31.4	1.11	ug/L		2.29				173	20	Non-dir.
Matrix Spike (BJ10979-MS1)	*Source sample: 21J0487-01 (Matrix Spike)							Prepared & Analyzed: 10/18/2021			
Lead - Dissolved	58.1		ug/L	50.0	2.06	112	75-125				
Batch BJ10981 - EPA 3015A											
Blank (BJ10981-BLK1)								Prepared & Analyzed: 10/18/2021			
Arsenic	ND	1.11	ug/L								
Lead	ND	1.11	"								
LCS (BJ10981-BS1)								Prepared & Analyzed: 10/18/2021			
Arsenic	50.3		ug/L	50.0		101	80-120				
Lead	49.6		"	50.0		99.3	80-120				
Duplicate (BJ10981-DUP1)	*Source sample: 21J0487-01 (Duplicate)							Prepared & Analyzed: 10/18/2021			
Arsenic	7.32	1.11	ug/L		7.13				2.71	20	
Lead	ND	1.11	"		ND					20	
Matrix Spike (BJ10981-MS1)	*Source sample: 21J0487-01 (Matrix Spike)							Prepared & Analyzed: 10/18/2021			
Arsenic	59.6		ug/L	50.0	6.42	106	75-125				
Lead	49.2		"	50.0	0.183	98.0	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ11072 - EPA 3015A											
Blank (BJ11072-BLK1)								Prepared & Analyzed: 10/19/2021			
Lead	ND	1.11	ug/L								
LCS (BJ11072-BS1)								Prepared & Analyzed: 10/19/2021			
Lead	51.8		ug/L	50.0		104	80-120				
Duplicate (BJ11072-DUP1)	*Source sample: 21J0501-01 (Duplicate)							Prepared & Analyzed: 10/19/2021			
Lead	ND	1.11	ug/L		ND					20	
Duplicate (BJ11072-DUP2)	*Source sample: 21J0506-01 (CIM-MW-01 1021)							Prepared & Analyzed: 10/19/2021			
Lead	1.38	1.00	ug/L		1.50				8.67	20	
Matrix Spike (BJ11072-MS1)	*Source sample: 21J0501-01 (Matrix Spike)							Prepared & Analyzed: 10/19/2021			
Lead	50.8		ug/L	50.0	0.045	101	75-125				
Matrix Spike (BJ11072-MS2)	*Source sample: 21J0506-01 (CIM-MW-01 1021)							Prepared & Analyzed: 10/19/2021			
Lead	52.7		ug/L	50.0	1.50	102	75-125				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21J0506-01	CIM-MW-01 1021	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21J0506-02	CIM-MW-02 1021	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21J0506-03	CIM-MW-03 1021	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21J0506-04	CIM-MW-04 1021	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21J0506-05	CIM-MW-06 1021	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21J0506-06	CIM-MW-07 1021	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21J0506-07	CIM-MW-08 1021	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21J0506-08	CIM-MW-09 1021	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21J0506-09	CIM-FD-001 1021	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21J0506-10	TRIP BLANK 1021	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-09	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect confirmed by re-extraction and re-analysis of the sample.
S-08	The recovery of this surrogate was outside of QC limits.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
M-CRL	The RL check for this element recovered outside of control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
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Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 21S0506

YOUR Information	Report To:	Invoice To:
Company: CHAZEN	Company: CHAZEN	Company: CHAZEN
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact: ERIC ORLOWSKI	Contact: ERIC ORLOWSKI	Contact: ACCOUNTS PAYABLE
E-mail:	E-mail:	E-mail:

YOUR Project Number: 41548.21

YOUR Project Name: CONSOLIDATED IRON

YOUR PO#: 09207

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
ERIC ORLOWSKI

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York ✓
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report (circled) | QA Report | NY ASP A Package | NY ASP B Package
CT RCP | CT RCP DQA/DUE | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD (circled) | EQuIS (Standard) (circled) | NYSDEC EQuIS | NJDEP SRP HazSite | Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)
TOGS 1.1.1

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CIM-MW-01 1021	GW	10/11/2021 1142	CP-51 VOCs, CP-51 SVOCs, Total Pb	1x1L, 1x250mL, 3x40mL
CIM-MW-01-MS 1021	↓	1146	↓	↓
CIM-MW-01-MSD 1021		1150		
CIM-MW-02 1021		1246	, Total As	
CIM-MW-03 1021		1415		
CIM-MW-04 1021		1644		
CIM-MW-06 1021		1735		
CIM-MW-07 1021		1453		↓
CIM-MW-08 1021		1555	, Dissolved Pb	2x250mL
CIM-MW-09 1021	↓	1018	↓	↓, 1x250mL

Comments:

Preservation: (check all that apply)
HCl ✓ MeOH ___ HNO3 ✓ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: 4°C

Special Instruction
Field Filtered ✓
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
EOrlowski / CHAZEN	10/11/2021 2000	SECURE FRIDGE @ CHAZEN	10-12-21 11:00	Chris C York	10-12-21 15:46
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Chris C York	10-12-21 11:00				
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				Michael Rosato	10/12/21 15:46

Temp. Received at Lab: 2.9 Degrees C

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Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 2150506

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: CHAZEN	Company: CHAZEN	Company: CHAZEN	41548.21	RUSH - Next Day
Address:	Address:	Address:	YOUR Project Name: CONSOLIDATED IRON	RUSH - Two Day
Phone.:	Phone.:	Phone.:		RUSH - Three Day
Contact: ERIC ORLOWSKI	Contact: ERIC ORLOWSKI	Contact: ACCOUNTS PAYABLE		RUSH - Four Day
E-mail:	E-mail:	E-mail:	YOUR PO#: 09207	Standard (5-7 Day) ✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

ERIC ORLOWSKI

Samples Collected by: (print your name above and sign below)

E Orlowski

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil ⋮ Other

Samples From
New York ✓
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report (circled) | CT RCP | Standard Excel EDD (circled)
QA Report | CT RCP DQA/DUE | EQuIS (Standard) (circled)
NY ASP A Package | NJDEP Reduced Deliverables | NYSDEC EQuIS
NY ASP B Package | NJDKQP | NJDEP SRP HazSite
Other: | | Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)
TOGS 1.1.1

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CIM-FD-001 1021	GW	10/11/2021 XX:XX	CP-51 VOCs, CP-51 SVOCs, Total Pb	1x1L, 1x250mL, 3x40mL
TRIP BLANK 1021	DI	10/8/2021 1000	CP-51 VOCs	3x40mL

Comments:

Preservation: (check all that apply)
HCl ✓ MeOH ___ HNO3 ✓ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: 4°C

Special Instruction
Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
E Orlowski / CHAZEN	10/11/2021 2000	SECURE FRIDGE @ CHAZEN	10-12-21 11:00	Eric York	10-12-21 15:46
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Eric York	10-12-21 11:00				
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				Michael Reynolds	10/12/21 15:46 / 2.9 Degrees C