

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



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Prepared for:

City of Newburgh
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May 2021

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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) 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 fifth PRR prepared for the Site since completion of the Remedial Action Program.

The annual 2020 sampling event was originally intended to be completed in the 4th quarter of 2020. However, delays with scheduling the late 2020 sampling event due to the COVID-19 pause resulted in the sampling event being performed in March of 2021. The 2021 annual sampling event is scheduled to return to the routine 4th quarter period of 2021, for the 2021 PRR.

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 2020, the site has continued to be used passively as a mowed public access area.

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 of 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 March 31, 2021 and is described in Section 2.1. Periodic sampling of groundwater also occurred on March 31, 2021 followed by confirmatory re-sampling of three monitoring wells on April 13, 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 March 31, 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 March 31, 2021. Two other wells, MW-05 and MW-10, were removed from the annual sampling program in September 2019 with the consent of NYSDEC.

Based on the results of the March 31, 2021 sampling event, wells MW-03, MW-07 and MW-08 were resampled for SVOCs and lead on April 13, 2021.

Prior to both sampling events, 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 0.03 to 0.07 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 VOCs and SVOCs were collected from MW-01.

Following receipt of sample results from the March 31 sampling event, wells MW-03, MW-07 and MW-08 were resampled for SVOCs and lead. Samples collected for Lead analysis were field filtered to distinguish between dissolved and total Lead. No QC/QA samples were collected during this confirmatory site sampling effort.

3.0 MONITORING RESULTS

3.1 WATER TABLE

The depths to water from the surveyed measuring point elevations for each well of March 31, 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	14.02	3.99
MW-02	13.99	11.17	2.82	12.49	1.50
MW-03	13.26	10.15	3.10	12.46	0.80
MW-04	11.74	8.77	2.98	10.59	1.15
MW-05	11.52	8.45	3.07	10.15	1.37
MW-06	10.50	7.84	2.66	8.90	1.60
MW-07	10.76	7.99	2.77	9.60	1.16
MW-08	10.85	8.14	2.71	9.44	1.41
MW-09	15.69	12.35	3.34	12.90	2.79
MW-10	11.13	8.47	2.66	9.68	1.45
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 March 31, 2021 was:

high tide:	2:19 am 3.58 ft
low tide:	9:11 am -0.42 ft
high tide:	2:45 pm 3.08 ft
low tide:	9:24 pm -0.25 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 two sampling events 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.

March 31, 2021 Sampling Event					
Well ID	Temp (°C)	pH	SC (µS/cm)	ORP (mV)	DO (mg/l)
MW-01	9.3	7.05	2,178	-116.0	0.43
MW-02	7.9	6.64	1,690	-125.6	0.34
MW-03	7.1	6.89	596.3	-62.9	1.34
MW-04	7.7	7.11	1,351	-113.0	0.22
MW-05	Exempt from Monitoring				
MW-06	8.0	7.59	818	-48.1	10.08
MW-07	7.2	7.14	1,070	-102.0	0.36
MW-08	6.1	7.00	613.5	-55.2	0.65
MW-09	11.7	7.22	1,576	-144.6	0.25
MW-10	Exempt from Monitoring				

April 13, 2021 Re-sampling Event					
Well ID	Temp (°C)	pH	SC (µS/cm)	ORP (mV)	DO (mg/l)
MW-03	7.7	6.82	729.4	-39.8	0.78
MW-07	7.4	7.29	1,040	-102.9	0.52
MW-08	6.2	7.09	742.0	21.8	0.40

The groundwater chemistry has been historically divided geographically into two groups of five monitoring wells, separated by the deep soil excavation area running east-west across the middle of the Site. Wells north of this zone include MW-1, MW-2, MW-5, MW-6 and MW-10 and wells south of this zone are MW-3, MW-4, MW-7, MW-8 and MW-9. In the March 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. MW-6 in particular was higher than in past events. This parameter will be observed further in future sampling events.

3.3 VOLATILE ORGANIC COMPOUNDS – March 31, 2021 Data

A “hit” summary table for VOCs is included below.

Sample ID	AWQS	MW-1		MW-2		MW-4		MW-7		MW-9	
Compound		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	
1,3,5-Trimethylbenzene	5	0.35	J	0.20	U	0.20	U	0.20	U	0.33	J
Benzene	1	2.0		0.20	U	0.20	U	0.20	U	0.20	U
Ethyl Benzene	5	32		0.20	U	0.20	U	0.20	U	0.20	U
Isopropylbenzene	5	6.9		0.20	U	0.20	U	0.20	U	0.20	U
MTBE	10	0.45	J	0.33	J	1.7		2.5		0.20	U
Naphthalene	10	11		0.20	U	0.20	U	0.20	U	0.20	U
n-Butylbenzene	5	1.9		0.20	U	0.20	U	0.20	U	0.20	U
n-Propylbenzene	5	17		0.20	U	0.20	U	0.20	U	0.20	U
Toluene	5	0.49	J	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 – March 31, 2021 Data

A “hit” summary table for SVOCs is included below.

Sample ID	AWQS	MW-1		MW-2		MW-3				MW-4	
Date		3/31/2021		3/31/2021		3/31/2021		4/13/2021		3/31/2021	
Compound		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	
Benzo(a)anthracene	0.002	0.0541	U	0.0541	U	0.0947		0.0973		0.0526	U
Benzo(a)pyrene	0.002	0.0541	U	0.0541	U	0.0842		0.0973		0.0526	U
Benzo(b)fluoranthene	0.002	0.0541	U	0.0541	U	0.0632		0.0757		0.0526	U
Benzo(k)fluoranthene	0.002	0.0541	U	0.0541	U	0.0737		0.0757		0.0526	U
Chrysene	0.002	0.0541	U	0.0541	U	0.0947		0.108		0.0526	U
Indeno(1,2,3-cd)pyrene	0.002	0.0541	U	0.0541	U	0.0526	J	0.0649		0.0526	U

Sample ID	AWQS	MW-6		MW-7				MW-8				MW-9	
Date		3/31/2021		3/31/2021		4/13/2021		3/31/2021		4/13/2021		3/31/2021	
Compound		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	
Benzo(a)anthracene	0.002	0.0541	U	0.562		0.0541	U	0.205		0.537		0.0526	U
Benzo(a)pyrene	0.002	0.0541	U	0.573		0.0541	U	0.184		0.505		0.0526	U
Benzo(b)fluoranthene	0.002	0.0541	U	0.454		0.0541	U	0.195		0.411		0.0526	U
Benzo(k)fluoranthene	0.002	0.0541	U	0.454		0.0541	U	0.195		0.432		0.0526	U
Chrysene	0.002	0.0541	U	0.628		0.0541	U	0.205		0.547		0.0526	U
Indeno(1,2,3-cd)pyrene	0.002	0.0541	U	0.324		0.0541	U	0.0649		0.316		0.0526	U

The table includes any SVOC compound detected at any concentration that exceeded the method detection limits, including estimated concentrations. Several of the samples listed above were non-

detectable for SVOCs, however, the laboratory method detection limit (MDL) of 0.0541 µg/l was greater than the applicable AWQS of 0.002 µg/l for the six noted polyaromatic hydrocarbons (PAHs).

SVOC results from MW-01, MW-02, MW-04, MW-06, and MW-09 were similar to findings from prior years. But SVOC concentrations in MW-03, MW-07, and MW-08 were higher than in the past, so these wells were resampled on April 13, 2021. The re-sampled results from wells MW-03 and MW-08 identified similar SVOC concentrations to the initial samples, while the re-sample from MW-07 was non-detectable for SVOCs.

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 four of the eight samples at concentrations exceeding the quantification limit of 1.11 µg/l, in MW-03, MW-06, MW-07, and MW-08. The results for two of those samples were less than the applicable standard but the samples collected from MW-03 and from well MW-08 were substantially over the standard of 25 µg/L.

Monitoring wells MW-03 and MW-08 resampled on April 13, 2021, requesting laboratory analysis for both total and dissolved lead. The re-sample results from MW-03 confirmed the general presence of Total Lead reported in March by identifying both total (57.6 ug/L) and dissolved lead (52.7 ug/L). The April sample result from MW-08 identified lower total lead (45.1 ug/L) and dissolved lead (39.5 ug/L), although still at concentrations exceeding the AWQS standard.

Arsenic was detected in well MW-02 at a concentration of 45.8 ug/L, nearly twice 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, however, the data has not been independently validated by a third-party chemist, nor is it required.

4.0 DATA REVIEW

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 specified monitoring wells was analyzed for the 2020 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 (June 2017, October 2018, May 2020 and March/April 2021) are compared in the following sections.

4.1 VOCs

Site monitoring well MW-01 is the only well exhibiting VOC presence. As shown in the table below and in **Table 1, Graph 1** (attached), the overall trend in BTEX concentrations since 2015 is decreasing, despite the spike noted in 2017-2018. Isopropylbenzene concentrations also spike in 2017-2018, but have returned to concentrations near the AWQS. The overall trend in concentration for this analyte since 2015 appears stable. The May 2020 and March 2021 VOC concentrations are nearing AWQS standards.

Monitoring Well ID Sampling Date Compound	AWQS (µg/L)	MW-01							
		6/14/2017		10/2/2018		5/12/2020		3/31/2021	
		Result	Q	Result	Q	Result	Q	Result	Q
Benzene	1	17	D	26		2.1		2.0	
Ethyl Benzene	5	210	D	400	D	23		32	
Isopropylbenzene	5	41	D	110		5.8		6.9	
p- & m- Xylenes	5	12	U	9.2		0.60	U	0.50	U
Toluene	5	5	U	6.2		0.42	J	0.49	J

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	AWQS (µg/L)	MW-03 (µg/L)	MW-07 (µg/L)
6/13/2017	10	8.2	6.9
10/2/2018		1.7	5.9
5/12/2020		1.1	3.9
3/31/2021		< 0.20	2.5

4.2 SVOCs

PAHs were reported at trace (< 1 ug/L) to ultra-trace (< 0.1 µg/L) concentrations in samples collected from MW-03, MW-07 and MW-08 and at concentrations greater than their applicable

standards during the March 2021 sampling event. These three wells were re-sampled in April 2021 and while results from well MW-07 were non-detect for these PAHs, results from wells MW-03 and MW-08 were consistent with the results noted in the March 2021 samples. The results from MW-03 are the highest noted since 2015. The results from MW-08 are slightly higher than previous highest results in 2017. These results are unexpected and further observation of these locations in subsequent PRR reviews is recommended since there have been no changes in site activities or condition of the engineered controls.

Naphthalene, a gasoline-range SVOC, was reported at 4.57 µg/L in 2021 in the sample collected from MW-01. This result is lower than the prior events but within the same order of magnitude—an indication of seasonal/temporal variability. 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 is occurring.

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	Nov 2015		Jun 2017		Oct 2018		May 2020		March 2021		April 2021	
MW-01	8		3	U	2.380		1.11	U	1.11	U	NS	
MW-02	3	U	3	U	1.11	U	1.11	U	1.11	U	NS	
MW-03	5		9	B	23.8		4.51		50.9		57.6	
											52.7	Di
MW-04	47		5	B	53.3		5.37		1.11	U	NS	
MW-05	4		3	U	1.49		NS		NS		NS	
MW-06	17		29	B	99.6		3.37		3.07		NS	
MW-07	15		3	U	13.3		4.75		17.2		NS	
MW-08	45		43	B	32.1		54.0		742		45.1	
											39.5	Di
MW-09	3	U	3	U	1.11	U	1.45		1.11	U	NS	
MW-10	3	U	3	U	1.11	U	NS		NS		NS	
Hits	2		2		3		1		2		2	
Total	141		86		226		73		815		102.7	
Average	20		22		32		12		136		51.35	

The 2021 results for lead indicate that concentrations of total lead are stable or declining in all locations except at MW-03. Based on the results of the April 2021 sampling event, total lead sample results in MW-08 are consistent with concentrations noted since 2015.

Re-sampling of MW-03 confirmed an elevated presence of total lead not detected in prior years. These results do appear anomalous and further observation of this location is recommended.

Arsenic analysis was resumed at MW-02 during the March 2021 sampling event. Arsenic was detected at 45.8 ug/L. This concentration is lower than the 2018 result of 86.0 ug/L, but higher than the 2015 and 2017 results. Data suggest that slightly elevated Arsenic is present in the location of MW-02, and further observation is recommended.

Other metals that are not site contaminants of concern that had consistently been reported at levels exceeding AWQs 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 2018, 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. MTBE concentrations in wells MW-03 and MW-07 have been steadily decreasing, and suggest that natural attenuation is occurring at the site with no evidence of a sustaining source.

E SVOCs (specifically PAHs) were noted in wells MW-03 and MW-08 in concentrations comparable to detections in 2015 and 2017. Both had demonstrated declining SVOC concentrations since then. The recent results may be anomalous and further observation of these locations is recommended as part of ongoing annual PRR submittals.

Elevated lead was noted in two (MW-03 and MW-08) of the eight on-site wells. The results from MW-03 appear anomalous and further monitoring is recommended. The MW-08 sample suggested no significant change from prior years after analysis of a field-filtered sample.

Arsenic monitoring was resumed at MW-02 during this monitoring event. The result was slightly elevated above the AWQS and appears consistent with past results.

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 AWQs 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

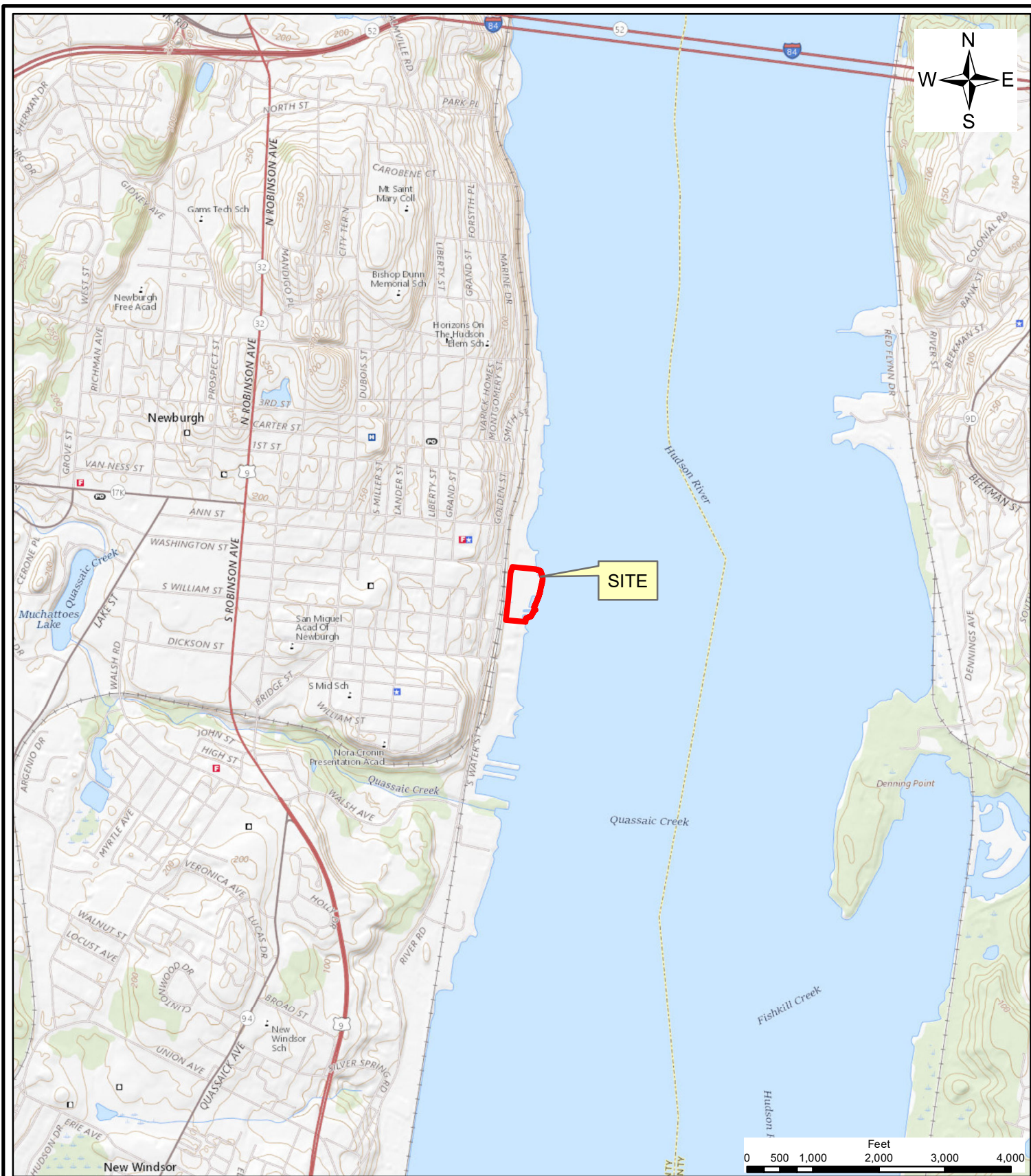
Significant modifications to the SMP were recommended in the 2018 PRR and approved in September 2019. Resumed analysis of arsenic at MW-02 was proposed in May 2020 and approved later in 2020.

Chazen recommends continuing the analytical program, as modified, and also continuing annual site inspections. Samples intended for metals analysis from MW-03 and MW-08 will be field filtered.

No additional changes are recommended at this time except,

1. Prepare and submit an updated/modified SMP for final approval prior to the November 2021 scheduled sampling event.

FIGURES



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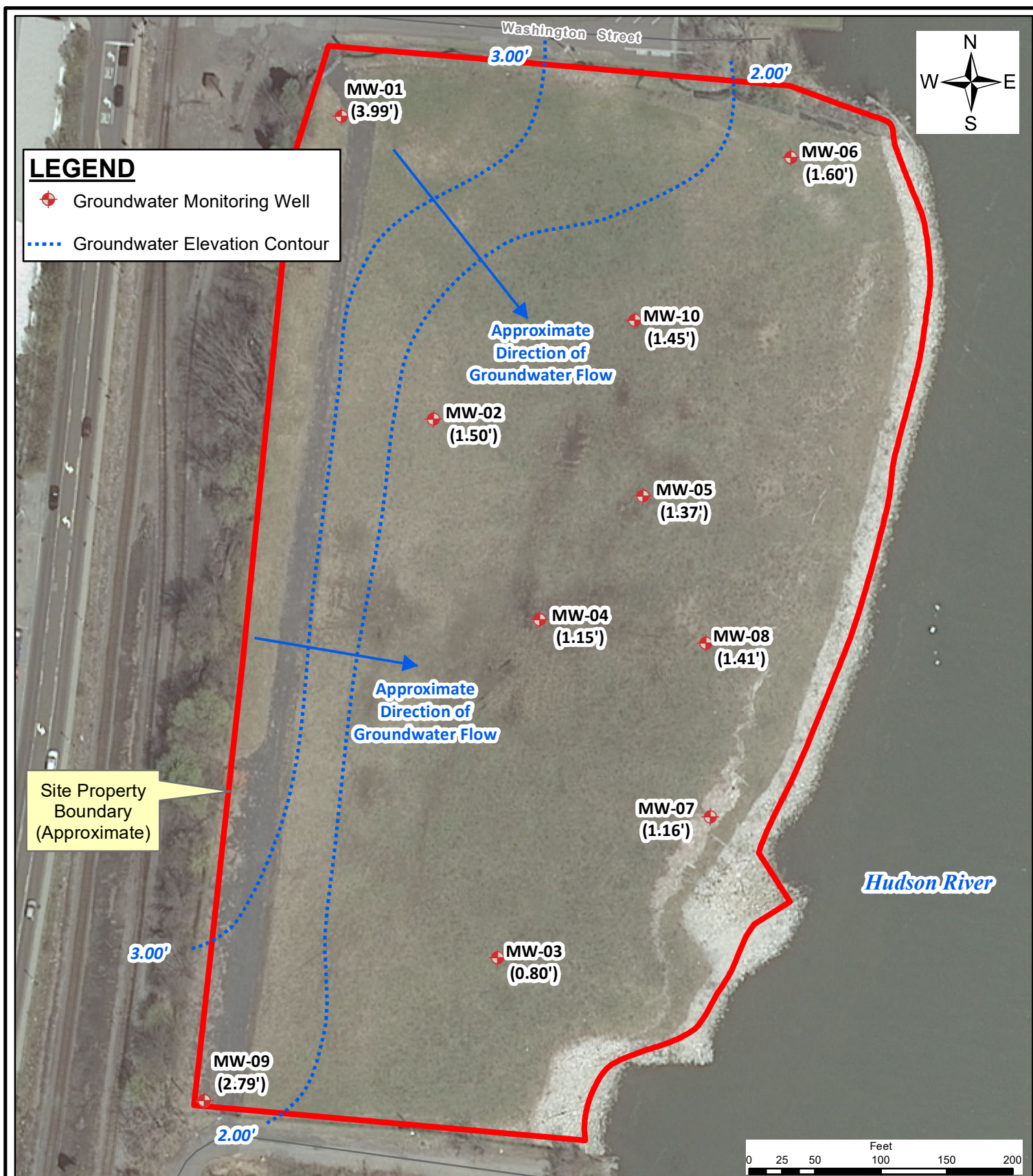
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Consolidated Iron and Metal Site
Figure 1: Site Location Map

Washington Avenue
City of Newburgh, Orange County, New York

Source: USGS The National Map topographic and political data (server based), accessed 05/05/2021;
Orange County Office of Real Property Services 2016 tax parcel data.

Drawn:	EJO
Date:	05/05/2021
Scale:	1:24,000
Project:	41548.00
Figure:	01



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 05/07/2021;
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:	05/07/2021
Scale:	1:1,200
Project:	41548.00
Figure:	03

TABLES

TABLE 1 CP-51 VOC RESULTS

Sample ID York ID Sampling Date Client Matrix		AWQS *	MW-01 21D0004-01 31-Mar-21 Water		MW-02 21D0004-02 31-Mar-21 Water		MW-03 21D0004-03 31-Mar-21 Water		MW-04 21D0004-04 31-Mar-21 Water		MW-06 21D0004-05 31-Mar-21 Water		MW-07 21D0004-06 31-Mar-21 Water		MW-08 21D0004-07 31-Mar-21 Water		MW-09 21D0004-08 31-Mar-21 Water		FD-01 (DUP) 21D0004-09 31-Mar-21 Water		Trip Blank 21D0004-10 31-Mar-21 Water	
Compound	AS Number		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	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,3,5-Trimethylbenzene	108-67-8	5	0.35	J	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.34	J	0.20	U
Benzene	71-43-2	1	2.0		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.33	J	2.0		0.20	U
Ethyl Benzene	100-41-4	5	32		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	32		0.20	U
Isopropylbenzene	98-82-8	5	6.9		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	6.7		0.20	U
MTBE	1634-04-4	10	0.45	J	0.33	J	0.20	U	1.7		0.20	U	2.5		0.20	U	0.20	U	0.20	U	0.20	U
Naphthalene	91-20-3	10	11		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	11		1.0	U
n-Butylbenzene	104-51-8	5	1.9		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.9		0.20	U
n-Propylbenzene	103-65-1	5	17		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	17		0.20	U
o-Xylene	95-47-6	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
p- & m- Xylenes	79601-23-	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
p-Isopropyltoluene	99-87-6	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
sec-Butylbenzene	135-98-8	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
tert-Butylbenzene	98-06-6	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Toluene	108-88-3	5	0.49	J	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.49	J	0.20	U
Xylenes, Total	1330-20-7	5	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U	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

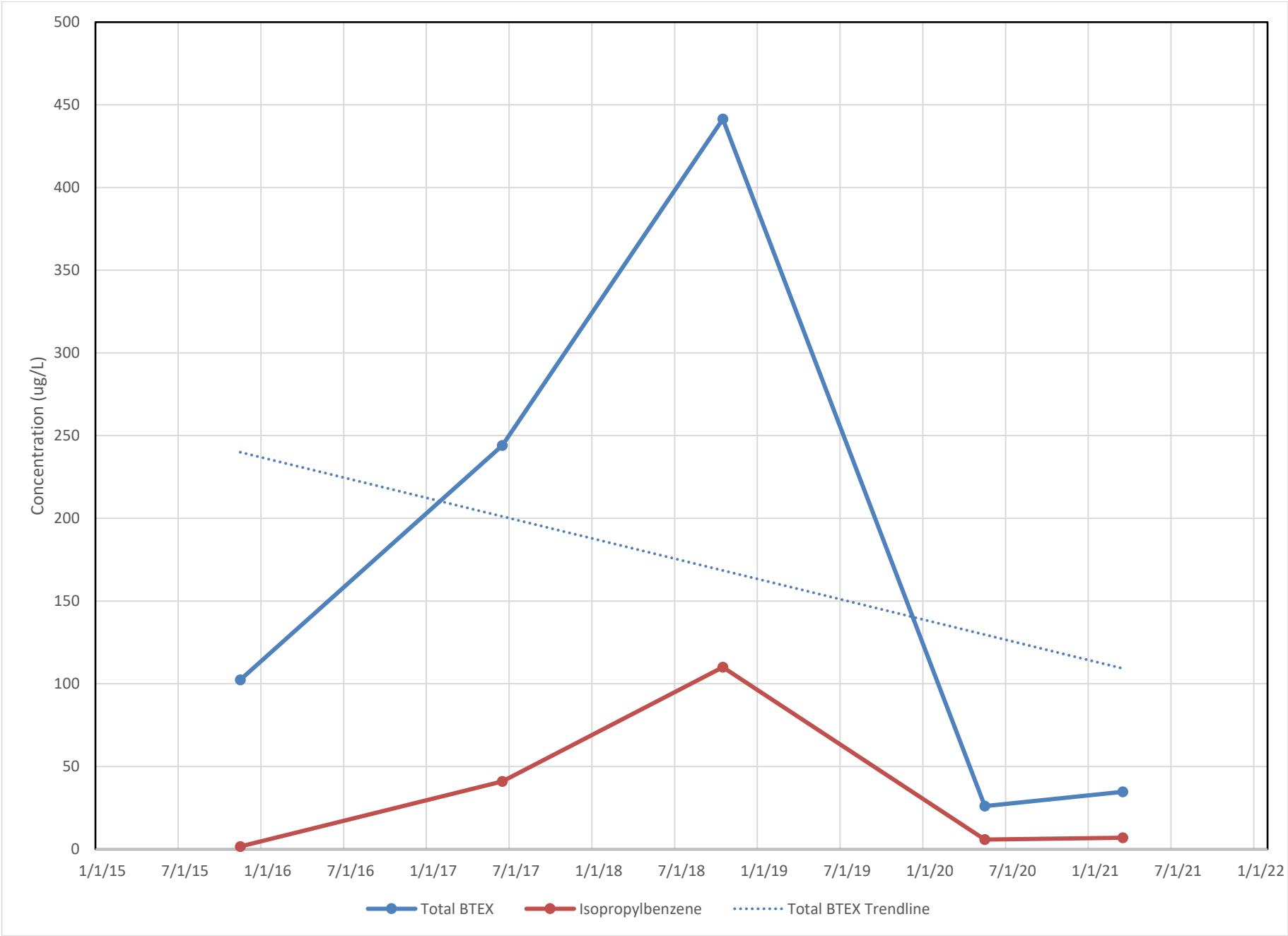


TABLE 2 CP-51 SVOC Results

Sample ID		AWQS	MW-01		DUP (MW-01)		MW-02		MW-03				MW-04		MW-06		MW-07				MW-08				MW-09	
York ID			21D0004-01		21D0004-09		21D0004-02		21D0004-03		21D0697-01		21D0004-04		21D0004-05		21D0004-06		21D0697-02		21D0004-07		21D0697-03		21D0004-08	
Sampling Date			3/31/2021		3/31/2021		3/31/2021		3/31/2021		4/13/2021		3/31/2021		3/31/2021		3/31/2021		4/13/2021		3/31/2021		4/13/2021		3/31/2021	
Compound	CAS	Result	Q	Result	Q	Result	Q	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		ug/L		ug/L		
Acenaphthene	83-32-9	20	0.0541	U	0.0541	U	0.0541	U	0.0526	U	0.0541	J	0.0526	U	0.0541	U	0.562	0.454	0.0541	U	0.0737		0.0526	U		
Acenaphthylene	208-96-8	~	0.0541	U	0.0541	U	0.0541	U	0.0526	U	0.0541	U	0.0526	U	0.0541	U	0.0797	0.0541	U	0.0541	U	0.0842	0.0526	U		
Anthracene	120-12-7	50	0.0541	U	0.0541	U	0.0541	U	0.0526	U	0.0541	J	0.0526	U	0.0541	U	0.292	0.0973		0.0757		0.200	0.0526	U		
Benzo(a)anthracene	56-55-3	0.002	0.0541	U	0.0541	U	0.0541	U	0.0947		0.0973		0.0526	U	0.0541	U	0.562	0.0541	U	0.205	0.537	0.0526	U			
Benzo(a)pyrene	50-32-8	0.002	0.0541	U	0.0541	U	0.0541	U	0.0842		0.0973		0.0526	U	0.0541	U	0.573	0.0541	U	0.184	0.505	0.0526	U			
Benzo(b)fluoranthene	205-99-2	0.002	0.0541	U	0.0541	U	0.0541	U	0.0632		0.0757		0.0526	U	0.0541	U	0.454	0.0541	U	0.195	0.411	0.0526	U			
Benzo(g,h,i)perylene	191-24-2	~	0.0541	U	0.0541	U	0.0541	U	0.0526	J	0.0757		0.0526	U	0.0541	U	0.378	0.0541	U	0.0757	0.368	0.0526	U			
Benzo(k)fluoranthene	207-08-9	0.002	0.0541	U	0.0541	U	0.0541	U	0.0737		0.0757		0.0526	U	0.0541	U	0.454	0.0541	U	0.195	0.432	0.0526	U			
Chrysene	218-01-9	0.002	0.0541	U	0.0541	U	0.0541	U	0.0947		0.108		0.0526	U	0.0541	U	0.608	0.0541	U	0.205	0.547	0.0526	U			
Dibenzo(a,h)anthracene	53-70-3	~	0.0541	U	0.0541	U	0.0541	U	0.0526	U	0.0541	U	0.0526	U	0.0541	U	0.108	0.0541	U	0.0541	U	0.0842	0.0526	U		
Fluoranthene	206-44-0	50	0.0541	U	0.0541	U	0.0541	U	0.211		0.216		0.0526	U	0.0541	U	1.38	0.270		0.454	1.20	0.0526	U			
Fluorene	86-73-7	50	0.0541	U	0.0541	U	0.0541	U	0.0526	J	0.0757		0.0526	U	0.0541	U	0.389	0.314		0.0541	U	0.105	0.0526	U		
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	0.0541	U	0.0541	U	0.0541	U	0.0526	J	0.0649		0.0526	U	0.0541	U	0.324	0.0541	U	0.0649	0.316	0.0526	U			
Naphthalene	91-20-3	10	4.57		3.25		0.0541	U	0.0526	U	0.0541	U	0.0526	U	0.0541	U	0.0865	0.0541	U	0.0541	U	0.0526	U	0.0526	U	
Phenanthrene	85-01-8	50	0.0541	J	0.0541	U	0.0541	U	0.126		0.184		0.0526	U	0.0541	U	1.28	0.692		0.324	0.789	0.0526	U			
Pyrene	129-00-0	50	0.0541	U	0.0541	U	0.0541	U	0.200		0.205		0.0526	U	0.0541	U	1.22	0.249		0.476	0.958	0.0526	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
Lead by EPA 6020
AWQS

31-Mar-21

25

µg/L

13-Apr-21

25

µg/L

Well ID	R	Q	R	Q
MW-01	1.11	U		
Dup (MW-01)	1.11	U		
MW-02	1.11	U		
MW-03	50.9		57.6 (52.7 Dissolved)	
MW-04	1.11	U		
MW-05	NS			
MW-06	3.07			
MW-07	17.2			
MW-08	742		45.1 (39.5 Dissolved)	
MW-09	1.11	U		
MW-10	NS			

Sample Date
Arsenic by EPA 6020
AWQS

31-Mar-21

25

µg/L

Well ID	R	Q
MW-02	45.8	

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 Form

May 21, 2021

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

Re: Former Consolidated & Metals Site
EPA Site Number: NY0002455756
NYSDEC Site Number: 336055

EC/IC Certification
Chazen Project No. 41548.00

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,

A handwritten signature in black ink, appearing to read "Russell Urban-Mead", written in a cursive style.

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



Photo #1

Description: View facing northwest - Northwest site access gate.



Photo #2

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



Photo #3

Description: View of gravel walking path, western site area, facing south.



Photo #4

Description: View of sewer pumping station near southwestern corner, facing south. Note monitoring well MW-09 and groundwater sampling setup (near image center).



Photo #5

Description: View of site field area, facing south toward southern end of Site.



Photo #6

Description: View of northeastern site corner and monitoring well MW-06, facing southeast.



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 northern Site area, facing north-northwest.

**CONSOLIDATED IRON AND METAL SITE
SITE MANAGEMENT PLAN SITE WIDE INSPECTION FORM
3/31/2021**

Page 1 of 4

Date: 3/31/2021

Inspection Personnel: Eric J. Orlowski, PG, Chazen

Weather Conditions: 50s - 60s degrees F, overcast, afternoon rain, breezy to windy

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**

Page 2 of 4

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 or unstable)? 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**

Page 3 of 4

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 the necessary provisions for ensuring that the easement covenant remains in place and is effective? Yes No X
If Yes, list and/or identify

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

Page 4 of 4

Are there any changes to site operations and maintenance requirements for the components of the remedy? Yes____ No X

If Yes, please describe

Appendix C

Site Sampling Logs

Project Number: 41548.00

** Also sampled for Total Arsenic

FIELD DATA SHEET**SAMPLE INFORMATION:**

Sample ID: GM-MW-01 0321
 Well ID: MW-01
 Project Name: Consolidated Iron
 Sample Location: Newburgh, NY

Sample Time: 0927
 Sample Date: 3/31/2021
 Sample Tech(s): FJC
 Project and Task #: 91548.00
 Project Manager: KM

Sample Matrix (circle):
☒ Groundwater
☐ Soil
☐ Air
☐ Other:

WELL INFORMATION:Well Condition: GoodLock Type: MasterKey #: 3303**PURGE DATA:**

Measuring Point: TOC-PVC (B)
 Depth to Bottom: 22.46
 Depth to Water: 14.02
 Water Column Height: (A) 8.44
 (depth to bottom - depth to water)
 # of Volumes to be Purged: (C) 1
 Gal. to be Purged: (AxBxC) 1

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: Peristaltic - Low Flow
 Start Date: 3/31/2021
 Start Time: 0851
 Stop Time: 0926
 Purge Rate (gpm): ~0.040
 Elapsed Time (min): 35
 Well Vol. Purged (#): <1
 Purge Vol. (gal): 1.4
 Well went dry? ☒ No ☐ Yes
 Conditions: ☒ No Odor ☐ Odor
☒ Clear ☐ Slightly-Turbid ☐ Turbid

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond mS/cm	Cond. mS/cm	turbidity NTU	TDS g/L	color	DO mg/L	pH	ORP mV
	0851	14.02	9.1	2178	1517	82.53	1.4170	sulfur	3.34	6.99	-135.4
	0856	14.10	9.1	2183	1521	7.88	1.4170	sulfur	1.58	7.06	-128.0
	0901	14.10	9.2	2184	1523	3.49	1.4170	slight sulfur	0.92	7.07	-124.1
	0906	14.10	9.2	2182	1524	2.41	1.4170	slight sulfur	0.66	7.06	-122.8
	0911	14.10	9.3	2180	1525	2.09	1.4170	slight sulfur	0.56	7.06	-121.3
	0916	14.10	9.3	2180	1526	3.44	1.4170	slight sulfur	0.48	7.07	-119.9
	0921	14.10	9.3	2180	1526	2.07	1.4170	slight sulfur	0.44	7.07	-118.6
	0926	14.10	9.3	2178	1524	1.72	1.4170	slight sulfur	0.43	7.05	-116.0

SAMPLE INFORMATION:Sample Method: Peristaltic (Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)Sample Type: Grab CompositeWeather: overcast

Sample Depth: _____

Barometric Pres.: _____

Air Temp. (°F): _____

Wind: breezy

Notes: _____

LAB REQUESTS:Laboratory Name: ORV

Analysis/Method: _____

Turn Around Time: _____

CP-57 VOC
 CP-57 SVOC
 Total Lead

QA/QC:

Duplicate

Equip. Blank

Field Blank

Trip Blank

MS/MSD - 1007

FIELD DATA SHEET**SAMPLE INFORMATION:**

Sample ID: CIM-NW-02 0324
 Well ID: HW-02
 Project Name: Consolidated Iron
 Sample Location: Newburgh, NY

Sample Time: 1102
 Sample Date: 3/31/2024
 Sample Tech(s): EJO
 Project and Task #: 41543.00
 Project Manager: KM

Sample Matrix (circle):
☒ Groundwater
☐ Surface Water
☐ Drinking Water
☐ Soil
☐ Air
☐ Other:

WELL INFORMATION:Well Condition: GoodLock Type: MasterKey #: 3303**PURGE DATA:**Measuring Point: TDC-PVCDepth to Bottom: 19.63Depth to Water: 12.49Water Column Height: (A) 7.14

(depth to bottom - depth to water)

of Volumes to be Purged: (C) /

Gal. to be Purged: (AxBxC)

(B)	
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: Peristaltic/Low FlowStart Date: 3/31/2024Start Time: 1031Stop Time: 1101Purge Rate (gpm): ~0.068Elapsed Time (min): 30Well Vol. Purged (#): <1Purge Vol. (gal): ~2.05Well went dry? ☒ No ☐ YesConditions: ☒ No Odor ☐ Odor☐ Slightly-Turbid ☐ Turbid**FIELD RESULTS:**

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond mS/cm ^c	Cond. mS/cm	hardness NTU	TDS g/L	odor	DO mg/L	pH	ORP mV
	1031	12.49	7.7	1550	1039	96.39	1.0075	slight swampy	3.35	6.61	-110.8
	1036	12.67	8.0	1574	1061	4.94	1.0270	slight swampy	1.05	6.55	-113.2
	1041	12.66	7.9	1602	1079	1.79	1.0400	slight swampy	0.67	6.59	-118.1
	1046	12.63	8.0	1630	1100	1.61	1.0595	slight swampy	0.52	6.61	-120.9
	1051	12.64	7.9	1652	1112	1.47	1.0725	slight swampy	0.40	6.63	-123.5
	1056	12.65	8.0	1675	1129	1.38	1.0920	slight swampy	0.36	6.64	-125.7
	1101	12.66	7.9	1690	1139	1.53	1.0985	slight swampy	0.34	6.64	-125.6

SAMPLE INFORMATION:Sample Method: Peristaltic (Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)Sample Type: ☒ Grab ☐ CompositeWeather: overcast

Sample Depth: _____

Barometric Pres.: _____

Wind: windyAir Temp.(°F): 50.5

Notes: _____

LAB REQUESTS:Laboratory Name: YorkAnalysis/Method: CP-SI VOCsTurn Around Time: stdCP-SI SVOCs
Total Lead, Arsenic

QA/QC: Duplicate

Equip. Blank

Field Blank

☒ Trip Blank

FIELD DATA SHEET**SAMPLE INFORMATION:**

Sample ID: CM-MW-03 0321
 Well ID: MW-03
 Project Name: Consolidated Iron
 Sample Location: Newburgh, NY

Sample Time: 1147
 Sample Date: 3/31/2021
 Sample Tech(s): EJO
 Project and Task #: 41548.00
 Project Manager: KM

Sample Matrix (circle):
☒ Groundwater
☐ Surface Water
☐ Drinking Water
☐ Soil
☐ Air
☐ Other:

WELL INFORMATION:Well Condition: GoodLock Type: MasterKey #: 3303**PURGE DATA:**

Measuring Point: TDC-PVC
 Depth to Bottom: 19.50 (B)
 Depth to Water: 12.46
 Water Column Height: (A) 7.04
 (depth to bottom - depth to water)
 # of Volumes to be Purged: (C)
 Gal. to be Purged: (AxBxC)

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: Peristaltic Low Flow
 Start Date: 3/31/2021
 Start Time: 1126
 Stop Time: 1146
 Purge Rate (gpm): ~0.050
 Elapsed Time (min): 20
 Well Vol. Purged (#): 21
 Purge Vol. (gal): ~1.0
 Well went dry? ☒ No ☐ Yes
 Conditions: ☒ No Odor ☐ Odor
☒ Clear ☐ Slightly-Turbid ☐ Turbid

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond mS/cm ^c	Cond. mS/cm	turbidity NTU	TDS g/L	Odor	DO mg/L	pH	ORP mV	
	1126	12.46	7.1	622.7	410.5	83.69	0.4017	slight sulfur	5.26	7.06	-59.6	
	1131	12.58	7.2	602.1	397.9	10.55	0.3907	slight sulfur	1.89	6.84	-49.5	
	1136	12.55	7.1	597.6	393.7	8.69	0.3887	none	1.59	6.86	-49.1	
	1141	12.54	6.9	596.5	390.6	5.04	0.3874	none	1.45	6.89	-56.1	
	1146	12.53	7.1	596.3	392.7	8.32	0.3874	none	1.34	6.89	-62.9	

SAMPLE INFORMATION:

Sample Method: Peristaltic (Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)
 Sample Type: Grab Composite
 Weather: Overcast
 Sample Depth: _____
 Barometric Pres.: _____
 Air Temp. (°F): hi 50s
 Wind: windy

Notes:

LAB REQUESTS:

Laboratory Name: York
 Analysis/Method: CP-S1 VOLs
CP-S1 SVOLs
Total Lead
 Turn Around Time: Std

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

FIELD DATA SHEET**SAMPLE INFORMATION:**

Sample ID: C14-MW-04 0321
 Well ID: MW-04
 Project Name: Consolidated Iron
 Sample Location: Newburgh, NY

Sample Time: 1526
 Sample Date: 3/31/2021
 Sample Tech(s): EJO
 Project and Task #: 41548.00
 Project Manager: KM

Sample Matrix (circle):
☒ Groundwater
☐ Surface Water
☐ Drinking Water
☐ Soil
☐ Air
☐ Other:

WELL INFORMATION:

Well Condition: Good
 Lock Type: Master Key #: 3303

PURGE DATA:

Measuring Point: TDC-PVC
 Depth to Bottom: 18.45
 Depth to Water: 10.59
 Water Column Height: (A) 7.86
 (depth to bottom - depth to water)
 # of Volumes to be Purged: (C) /
 Gal. to be Purged: (AxBxC) /

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: Peristaltic - Low Flow
 Start Date: 3/31/2021
 Start Time: 1455
 Stop Time: 1525
 Purge Rate (gpm): ~0.057
 Elapsed Time (min): 30
 Well Vol. Purged (#): 21
 Purge Vol. (gal): ~1.7
 Well went dry? ☒ No ☐ Yes
 Conditions: ☒ No Odor ☐ Odor
☒ Slightly-Turbid ☐ Turbid

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond mS/cm ²	Cond. mS/cm	turbidity	TDS g/L	odor	DO mg/L	pH	ORP mV
	1455	10.59	7.7	1320	884	moderate	0.8515	slight swampy	2.34	6.99	-118.2
	1500	10.82	7.9	1306	878	69.71	0.8450	slight swampy	0.90	6.91	-116.1
	1505	10.81	7.8	1325	889	26.62	0.8580	slight swampy	0.38	6.96	-104.1
	1510	10.80	7.6	1327	886	8.89	0.8645	slight swampy	0.30	7.02	-108.7
	1515	10.79	7.7	1350	903	7.03	0.8775	slight swampy	0.26	7.06	-113.5
	1520	10.75	7.6	1351	903	4.16	0.8775	slight swampy	0.24	7.09	-112.6
	1525	10.73	7.7	1351	904	2.90	0.8775	slight swampy	0.22	7.11	-113.0

SAMPLE INFORMATION:

Sample Method: Peristaltic (Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)
 Sample Type: ☒ Grab ☐ Composite
 Sample Depth: _____
 Weather: overcast, lt rain
 Barometric Pres.: _____
 Air Temp. (°F): low 60s
 Wind: windy/breezy

Notes: _____

LAB REQUESTS:

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

QA/QC: Duplicate

Equip. Blank

Field Blank

☒ Trip Blank

FIELD DATA SHEET**SAMPLE INFORMATION:**

Sample ID: CIM-MW-06
 Well ID: MW-06
 Project Name: Consolidated Iron
 Sample Location: Newburgh, NY

Sample Time: 1731
 Sample Date: 3/31/2021
 Sample Tech(s): EJO
 Project and Task #: 41548.00
 Project Manager: KM

Sample Matrix (circle):
☒ Groundwater
☐ Surface Water
☐ Drinking Water
☐ Soil
☐ Air
☐ Other:

WELL INFORMATION:Well Condition: GoodLock Type: MasterKey #: 3303**PURGE DATA:**

Measuring Point: TOC-PVC
 Depth to Bottom: 16.90
 Depth to Water: 8.90
 Water Column Height: (A) 8.00
 (depth to bottom - depth to water)
 # of Volumes to be Purged: (C) /
 Gal. to be Purged: (AxBxC) /

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"	0.657
6.0"	1.469
8.0"	2.611

Purge Method: Peristaltic-Low Flow
 Start Date: 3/31/2021
 Start Time: 1710
 Stop Time: 1730
 Purge Rate (gpm): ~0.040
 Elapsed Time (min): 20
 Well Vol. Purged (#): 21
 Purge Vol. (gal): ~0.8
 Well went dry? No
 Conditions: No Odor
Clear

Odor
 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	mS/cm ²	mS/cm	NTU	g/L		mg/L		mV	
	1710	8.90	8.5	784	537	18.64	0.5335	none	13.23	7.68	-43.5	
	1715	9.19	8.1	811	549	3.64	0.5265	none	10.41	7.49	-33.8	
	1720	9.25	8.2	816	555	3.96	0.5330	none	10.17	7.54	-48.9	
	1725	9.34	8.2	817	554	7.58	0.5380	none	9.71	7.57	-43.4	
	1730	9.43	8.0	818	552	3.02	0.5330	none	10.08	7.59	-48.1	

SAMPLE INFORMATION:Sample Method: Peristaltic (Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)Sample Type: Grab CompositeWeather: overcast, lt rain

Sample Depth: _____

Barometric Pres.: _____

Wind: breezyAir Temp. (°F): 60ish

Notes: _____

LAB REQUESTS:Laboratory Name: YorkAnalysis/Method: CP-51 VOCsTurn Around Time: std
CP-51 SVOCs
Total Lead

QA/QC: Duplicate

Equip. Blank

Field Blank

Trip Blank

FIELD DATA SHEET**SAMPLE INFORMATION:**

Sample ID: C1H-MW-07 0321
 Well ID: MW-07
 Project Name: Consolidated Iron
 Sample Location: Newburgh, NY

Sample Time: 1415
 Sample Date: 3/31/2021
 Sample Tech(s): ESD
 Project and Task #: 41548.00
 Project Manager: KM

Sample Matrix (circle):
☒ Groundwater ☐ Soil
☐ Surface Water ☐ Air
☐ Drinking Water ☐ Other:

WELL INFORMATION:Well Condition: GoodLock Type: MasterKey #: 3303**PURGE DATA:**Measuring Point: TOC-PVCDepth to Bottom: 18.52Depth to Water: 9.60Water Column Height: (A) 8.92

(depth to bottom - depth to water)

of Volumes to be Purged: (C)

Gal. to be Purged: (Ax BxC)

(B)	
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"	0.659
6.0"	1.469
8.0"	2.611

Purge Method: Peristaltic-Low FlowStart Date: 3/31/2021Start Time: 1344Stop Time: 1414Purge Rate (gpm): ~0.31Elapsed Time (min): 30Well Vol. Purged (#): 21Purge Vol. (gal): ~0.95Well went dry? ☒ No ☐ YesConditions: ☒ No Odor ☐ Clear

Odor
☐ Slightly-Turbid ☐ Turbid

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond mS/cm	Cond. mS/cm	turbidity NTU	TDS g/L	odor	DO mg/L	pH	ORP mV	
	1344	9.60	7.7	1052	704	143.0	0.6825	slight sulfur	2.51	7.08	-97.0	
	1349	9.74	7.7	1061	710	117.1	0.6890	slight sulfur	1.15	7.06	-95.8	
	1354	9.75	7.5	1064	708	58.55	0.6890	none	0.73	7.09	-114.4	
	1359	9.76	7.1	1064	701	42.85	0.6890	none	0.52	7.10	-107.3	
	1404	9.76	7.1	1067	703	19.46	0.6955	none	0.43	7.14	-106.7	
	1409	9.76	7.2	1068	705	13.01	0.6955	none	0.39	7.12	-101.4	
	1414	9.76	7.2	1070	706	10.06	0.6955	none	0.36	7.14	-102.0	

SAMPLE INFORMATION:Sample Method: Peristaltic (Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)Sample Type: Grab CompositeWeather: overcast, lt rain

Sample Depth: _____

Barometric Pres.: _____

Wind: windyAir Temp. (°F): low 60s

Notes: _____

LAB REQUESTS:Laboratory Name: YorkAnalysis/Method: CP-51 VOCsTurn Around Time: 56

QA/QC: Duplicate

Equip. Blank

Field Blank

Trip Blank

FIELD DATA SHEET**SAMPLE INFORMATION:**

Sample ID: CIM-MW-08 0321
 Well ID: MW-08
 Project Name: Consolidated Iron
 Sample Location: Newburgh, NY

Sample Time: 1619
 Sample Date: 5/31/2021
 Sample Tech(s): EJD
 Project and Task #: 41548.00
 Project Manager: AKM

Sample Matrix (circle):
☒ Groundwater
☐ Surface Water
☐ Drinking Water
☐ Soil
☐ Air
☐ Other:

WELL INFORMATION:Well Condition: GoodLock Type: MasterKey #: 3303**PURGE DATA:**

Measuring Point: TCE-PVC
 Depth to Bottom: 17.60
 Depth to Water: 9.44
 Water Column Height: (A) 8.16
 (depth to bottom - depth to water)
 # of Volumes to be Purged: (C)
 Gal. to be Purged: (AxBxC)

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: Peristaltic-Low Flow
 Start Date: 3/31/2021
 Start Time: 1553
 Stop Time: 1618
 Purge Rate (gpm): ~0.046
 Elapsed Time (min): 25
 Well Vol. Purged (#): 21
 Purge Vol. (gal): ~1.15
 Well went dry? ☒ No ☐ Yes
 Conditions: ☒ No Odor ☐ Odor
☒ Clear ☐ Slightly-Turbid ☐ Turbid

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond mS/cm ^c	Cond. mS/cm	turbidity NTU	TDS g/L	odor	DO mg/L	pH	ORP mV	
	1553	9.44				turbid						
	1558	9.53	6.1	603.4	385.7	moderate	0.3919	none	4.28	6.97	-55.9	
	1603	9.53	6.4	608.2	392.2	321.9	0.3959	none	1.05	6.89	-61.3	
	1608	9.53	6.3	608.1	394.1	137.0	0.3965	none	0.69	6.96	-66.9	
	1613	9.53	6.1	613.2	391.1	94.08	0.3978	none	0.66	7.00	-60.0	
	1618	9.53	6.1	613.5	392.3	83.66	0.3981	none	0.65	7.00	-55.2	

SAMPLE INFORMATION:Sample Method: Peristaltic (Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)Sample Type: ☒ Grab ☐ CompositeWeather: overcast, H. rain

Sample Depth: _____

Barometric Pres.: _____

Air Temp. (°F): low 60sWind: breezy

Notes: _____

LAB REQUESTS:Laboratory Name: YorkAnalysis/Method: CP-51 VOLSTurn Around Time: 5th
CP-51 SVOLS
Total Lead

QA/QC: Duplicate

Equip. Blank

Field Blank

☒ Trip Blank

FIELD DATA SHEET**SAMPLE INFORMATION:**

Sample ID: CH-MW-09 0321
 Well ID: MW-09
 Project Name: Consolidated Iron
 Sample Location: Newburgh, NY

Sample Time: 1245
 Sample Date: 3/31/2021
 Sample Tech(s): EJD
 Project and Task #: 41548.00
 Project Manager: KM

Sample Matrix (circle):
☒ Groundwater
☐ Surface Water
☐ Drinking Water
 Soil
 Air
 Other:

WELL INFORMATION:Well Condition: GoodLock Type: MasterKey #: 3303**PURGE DATA:**

Measuring Point: TOC-PVC (B)
 Depth to Bottom: 20.88
 Depth to Water: 12.90
 Water Column Height: (A) 7.98
 (depth to bottom - depth to water)
 # of Volumes to be Purged: (C)
 Gal. to be Purged: (AxBxC)

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: Peristaltic-Low Flow
 Start Date: 3/31/2021
 Start Time: 1219
 Stop Time: 1244
 Purge Rate (gpm): ~0.05
 Elapsed Time (min): 25
 Well Vol. Purged (#): <1
 Purge Vol. (gal): ~1.25
 Well went dry? ☒ No
 Conditions: ☒ No Odor
☒ Clear
 Odor: Slightly-Turbid
 Turbid:

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond mS/cm ^c	Cond. mS/cm	turbidity NTU	TDS g/L	odor	DO mg/L	pH	ORP mV
	12:19	12.90	11.4	1534	1140	1.13	1.0010	none	5.74	7.19	-122.0
	1224	12.96	11.6	1602	1191	0.71	1.0400	none	0.88	7.26	-131.5
	1229	12.96	11.6	1588	1163	0.89	1.0335	none	0.44	7.24	-127.1
	1234	12.96	11.7	1583	1181	1.33	1.0270	none	0.30	7.24	-131.8
	1239	12.96	11.7	1576	1176	1.22	1.0270	none	0.27	7.22	-138.3
	1244	12.95	11.7	1576	1176	1.31	1.0270	none	0.25	7.22	-144.6

SAMPLE INFORMATION:

Sample Method: Peristaltic (Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)
 Sample Type: Grab Composite
 Weather: overcast
 Sample Depth: _____
 Barometric Pres.: _____
 Air Temp. (°F): 60°F
 Wind: windy

Notes: _____

LAB REQUESTS:

Laboratory Name: York
 Analysis/Method: CP-SI VOCs
CP-SI SVOCs
Total Lead
 Turn Around Time: Std

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

FIELD DATA SHEET**SAMPLE INFORMATION:**

Sample ID: CIM-MW-03 0421
 Well ID: MW-03
 Project Name: Consolidated Hwy
 Sample Location: Newburgh, NY

Sample Time: 9:30
 Sample Date: 4/13/2021
 Sample Tech(s): EJO
 Project and Task #: 41543.00
 Project Manager: KM

Sample Matrix (circle):

Groundwater

Surface Water

Drinking Water

Soil

Air

Other:

WELL INFORMATION:Well Condition: GoodLock Type: MaskerKey #: 3303**PURGE DATA:**

Measuring Point: TOC-PVC (B)
 Depth to Bottom: 14.50
 Depth to Water: 12.14
 Water Column Height: (A) 2.36
 (depth to bottom - depth to water)
 # of Volumes to be Purged: (C)
 Gal. to be Purged: (AxBxC)

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: Peristaltic-Low FlowStart Date: 4/13/2021Start Time: 9:09Stop Time: 9:29Purge Rate (gpm): ~0.035Elapsed Time (min): 20Well Vol. Purged (#): 21Purge Vol. (gal): ~0.7Well went dry? NoConditions: No Odor

Yes
Clear

Odor

Slightly-Turbid

Turbid

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond uS/cm ²	Cond. uS/cm	turbidity	TDS g/L	odor	DO mg/L	pH	ORP mV	
	9:09	12.14	7.8	728.7	483.3	clear	0.4738	none	2.37	6.72	-46.1	
	9:14	12.24	7.6	729.5	486.8	clear	0.4745	none	1.36	6.68	-58.4	
	9:19	12.30	7.6	730.4	482.1	clear	0.4745	none	0.92	6.72	-31.8	
	9:24	12.31	7.7	729.5	489.1	clear	0.4745	none	0.84	6.76	-29.7	
	9:29	12.32	7.7	729.4	488.9	clear	0.4738	none	0.78	6.82	-29.8	

SAMPLE INFORMATION:Sample Method: Peristaltic (Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)Sample Type: Grab CompositeWeather: mostly cloudy

Sample Depth(ft):

Barometric Pres.:

Air Temp.(°F):

Wind:

50ish

Notes:

LAB REQUESTS:Laboratory Name: York

Analysis/Method:

CP-51 SVOCsLead - Tot. / A.S.S.

Turn Around Time:

Std

QA/QC: Duplicate

Equip. Blank

Field Blank

Trip Blank

FIELD DATA SHEET**SAMPLE INFORMATION:**

Sample ID: C1W-NW-07 0421
 Well ID: NW-07
 Project Name: Consolidated Lpn
 Sample Location: Newburgh, NY

Sample Time: 1014
 Sample Date: 4/13/2021
 Sample Tech(s): ETD
 Project and Task #: 91548.00
 Project Manager: KM

Sample Matrix (circle):
☒ Groundwater
☐ Surface Water
☐ Drinking Water
 Soil
 Air
 Other:

WELL INFORMATION:

Well Condition: Good

Lock Type: Marker

Key #: 3303

PURGE DATA:

Measuring Point: TDL-PVC
 Depth to Bottom: 18.52 ~~9.64~~ (B)
 Depth to Water: 9.64
 Water Column Height: (A) 8.88
 (depth to bottom - depth to water)
 # of Volumes to be Purged: (C) /
 Gal. to be Purged: (AxBxC)

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: Peristaltic-Low Flow
 Start Date: 4/13/2021
 Start Time: 0958
 Stop Time: 1013
 Purge Rate (gpm): 20.05
 Elapsed Time (min): 15
 Well Vol. Purged (#): 21
 Purge Vol. (gal): 20.75
 Well went dry? No
 Conditions: No Odor
 Clear

Odor
 Slightly-Turbid
 Turbid

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond uS/cm	Cond. uS/cm	turbidity	TDS g/L	odor	DO mg/L	pH	ORP mV	
	0958	9.64	7.9	1039	700	clear	0.6760	slight sulfur	5.00	7.28	-103.8	
	1003	9.94	7.5	1033	687	clear	0.6695	slight sulfur	1.20	7.15	-97.3	
	1008	9.96	7.5	1041	691	clear	0.6760	none	0.69	7.25	-101.3	
	1013	9.96	7.4	1040	691	clear	0.6760	none	0.52	7.29	-102.9	

SAMPLE INFORMATION:

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

Sample Type: Grab Composite

Weather: partly sunny

Sample Depth(ft):

Barometric Pres.:

Air Temp.(°F): 57.5

Wind: breezy

Notes:

LAB REQUESTS:

Laboratory Name: York

Analysis/Method: CP-57 SVOCs

Turn Around Time: Std

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

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID: CM-HW-08 0421
 Well ID: MW-08
 Project Name: Consolidated Iron
 Sample Location: Newburgh, NY

Sample Time: 1101
 Sample Date: 4/13/2021
 Sample Tech(s): ESTO
 Project and Task #: 41548.00
 Project Manager: KM

Sample Matrix (circle):
☒ Groundwater
☐ Surface Water
☐ Drinking Water
 Soil
 Air
 Other:

WELL INFORMATION:

Well Condition: GoodLock Type: MasterKey #: 3303

PURGE DATA:

Measuring Point: TOC-PVCDepth to Bottom: 17.60Depth to Water: 9.67Water Column Height: (A) 7.93

(depth to bottom - depth to water)

of Volumes to be Purged: (C)

Gal. to be Purged: (AxBxC)

(B)	
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: Peristaltic - Lys FlowStart Date: 4/13/2021Start Time: 1035Stop Time: 1100

Purge Rate (gpm):

Elapsed Time (min):

Well Vol. Purged (#): <1

Purge Vol. (gal):

Well went dry? ☒ No

Yes

Conditions: ☒ No Odor☒ Clear

Odor

Slightly-Turbid

Turbid

FIELD RESULTS:

Gal purged gal.	Date & Time	Depth to Water ft	Temp deg. C	SpCond us/cm ^c	Cond. us/cm	turbidity	TDS g/L	odor	DO mg/L	pH	ORP mV	
	1035	9.67	7.1	726.0	478.9	moderate	0.4719	none	6.19	6.80	-18.3	
	1040	9.73	6.7	733.2	476.2	clear	0.4764	none	1.24	6.90	0.3	
	1045	9.73	6.4	734.2	475.1	clear	0.4791	none	0.64	7.01	13.9	
	1050	9.73	6.3	739.2	474.8	clear	0.4804	none	0.51	7.05	20.6	
	1055	9.73	6.3	739.0	475.1	clear	0.4810	none	0.44	7.09	24.1	
	1100	9.72	6.2	742.0	475.8	clear	0.4823	none	0.40	7.09	21.8	

SAMPLE INFORMATION:

Sample Method: Peristaltic (Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)Sample Type: Grab CompositeWeather: partly sunny

Sample Depth(ft):

Barometric Pres.:

Wind: breezyAir Temp.(°F): high 50s

Notes:

LAB REQUESTS:

Laboratory Name: LCR

Analysis/Method:

Turn Around Time:

QA/QC: Duplicate

Equip. Blank

Field Blank

Trip Blank

Appendix D

March/April 2021 Laboratory Reports

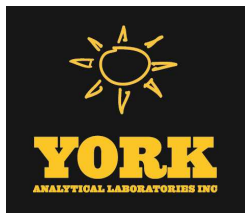
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Technical Report

prepared for:

Chazen Environmental Services (Poughkeepsie)

21 Fox Street

Poughkeepsie NY, 12601

Attention: Eric Orlowski

Report Date: 04/26/2021

Client Project ID: 41548.00 CONSOLIDATED IRON

York Project (SDG) No.: 21D0004

Revision No. 1.0

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 04/26/2021
Client Project ID: 41548.00 CONSOLIDATED IRON
York Project (SDG) No.: 21D0004

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 April 01, 2021 and listed below. The project was identified as your project: **41548.00 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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21D0004-01	CIM-MW-01 0321	Water	03/31/2021	04/01/2021
21D0004-02	CIM-MW-02 0321	Water	03/31/2021	04/01/2021
21D0004-03	CIM-MW-03 0321	Water	03/31/2021	04/01/2021
21D0004-04	CIM-MW-04 0321	Water	03/31/2021	04/01/2021
21D0004-05	CIM-MW-06 0321	Water	03/31/2021	04/01/2021
21D0004-06	CIM-MW-07 0321	Water	03/31/2021	04/01/2021
21D0004-07	CIM-MW-08 0321	Water	03/31/2021	04/01/2021
21D0004-08	CIM-MW-09 0321	Water	03/31/2021	04/01/2021
21D0004-09	CIM-FD-01 0321	Water	03/31/2021	04/01/2021
21D0004-10	TRIP BLANK 0321	Water	03/31/2021	04/01/2021

General Notes for York Project (SDG) No.: 21D0004

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:



Benjamin Gulizia
Laboratory Director

Date: 04/26/2021





Sample Information

Client Sample ID: CIM-MW-01 0321

York Sample ID: 21D0004-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0004

41548.00 CONSOLIDATED IRON

Water

March 31, 2021 9:47 am

04/01/2021

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	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP				
108-67-8	1,3,5-Trimethylbenzene	0.35	J	ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP				
71-43-2	Benzene	2.0		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP				
100-41-4	Ethyl Benzene	32		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP				
98-82-8	Isopropylbenzene	6.9		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP				
1634-04-4	Methyl tert-butyl ether (MTBE)	0.45	J	ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP				
91-20-3	Naphthalene	11		ug/L	1.0	2.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP				
104-51-8	n-Butylbenzene	1.9		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP				
103-65-1	n-Propylbenzene	17		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP				
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP				
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP				
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP				
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP				
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP				
108-88-3	Toluene	0.49	J	ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP				
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:32	NRT	
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP				
Surrogate Recoveries		Result	Acceptance Range									
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	100 %	69-130									
2037-26-5	Surrogate: SURR: Toluene-d8	109 %	81-117									
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	97.5 %	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	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP				



Sample Information

Client Sample ID: CIM-MW-01 0321

York Sample ID: 21D0004-01

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 9:47 am

Date Received
04/01/2021

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
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							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	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	Naphthalene	4.57		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	Phenanthrene	0.0541	J	ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:19	CD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	78.4 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	64.6 %	39.9-105								
1718-51-0	Surrogate: SURR: Terphenyl-d14	68.2 %	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	ND		ug/L	1.11	1	EPA 6020B	04/02/2021 09:03	04/07/2021 14:18	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			



Sample Information

Client Sample ID: CIM-MW-02 0321

York Sample ID: 21D0004-02

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 11:02 am

Date Received
04/01/2021

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	04/02/2021 09:00	04/02/2021 11:58	NRT
								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	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	0.33	J	ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/02/2021 09:00	04/02/2021 11:58	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	105 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	107 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %	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	04/05/2021 08:06	04/06/2021 17:51	CD
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 17:51	CD
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			



Sample Information

Client Sample ID: CIM-MW-02 0321

York Sample ID: 21D0004-02

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 11:02 am

Date Received
04/01/2021

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
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 17:51	CD
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 17:51	CD
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 17:51	CD
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 17:51	CD
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 17:51	CD
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 17:51	CD
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 17:51	CD
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 17:51	CD
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 17:51	CD
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 17:51	CD
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 17:51	CD
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 17:51	CD
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 17:51	CD
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 17:51	CD
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	85.9 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	71.4 %	39.9-105								
1718-51-0	Surrogate: SURR: Terphenyl-d14	81.1 %	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	45.8		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2021 09:03	04/07/2021 14:28	BML

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	04/02/2021 09:03	04/07/2021 14:28	BML



Sample Information

Client Sample ID: CIM-MW-02 0321

York Sample ID: 21D0004-02

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 11:02 am

Date Received
04/01/2021

Sample Information

Client Sample ID: CIM-MW-03 0321

York Sample ID: 21D0004-03

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 11:47 am

Date Received
04/01/2021

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	04/02/2021 09:00	04/02/2021 12:52	NRT
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	04/02/2021 09:00	04/02/2021 12:52	NRT
Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP											
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 12:52	NRT
Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP											
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 12:52	NRT
Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP											
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 12:52	NRT
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	04/02/2021 09:00	04/02/2021 12:52	NRT
Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP											
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 12:52	NRT
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP											
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 12:52	NRT
Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP											
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 12:52	NRT
Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP											
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 12:52	NRT
Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP											
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 12:52	NRT
Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP											
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 12:52	NRT
Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP											
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 12:52	NRT
Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP											
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 12:52	NRT
Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP											
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 12:52	NRT
Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP											
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/02/2021 09:00	04/02/2021 12:52	NRT
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	108 %	81-117
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	103 %	79-122



Sample Information

Client Sample ID: CIM-MW-03 0321

York Sample ID: 21D0004-03

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 11:47 am

Date Received
04/01/2021

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
83-32-9	Acenaphthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
208-96-8	Acenaphthylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
120-12-7	Anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
56-55-3	Benzo(a)anthracene	0.0947		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
50-32-8	Benzo(a)pyrene	0.0842		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
205-99-2	Benzo(b)fluoranthene	0.0632		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
191-24-2	Benzo(g,h,i)perylene	0.0526	J	ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
207-08-9	Benzo(k)fluoranthene	0.0737		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
218-01-9	Chrysene	0.0947		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
206-44-0	Fluoranthene	0.211		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
86-73-7	Fluorene	0.0526	J	ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
193-39-5	Indeno(1,2,3-cd)pyrene	0.0526	J	ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
91-20-3	Naphthalene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
85-01-8	Phenanthrene	0.126		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
129-00-0	Pyrene	0.200		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:23	CD
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	61.8 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	47.1 %	39.9-105								
1718-51-0	Surrogate: SURR: Terphenyl-d14	60.8 %	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	50.9		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2021 09:03	04/07/2021 14:32	BML



Sample Information

Client Sample ID: CIM-MW-04 0321

York Sample ID: 21D0004-04

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 3:26 pm

Date Received
04/01/2021

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	04/02/2021 09:00	04/02/2021 13:18	NRT
								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	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	1.7		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:18	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	108 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	106 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %	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	0.0526	0.0526	1	EPA 8270D	04/05/2021 08:06	04/06/2021 18:56	CD
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
208-96-8	Acenaphthylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	04/05/2021 08:06	04/06/2021 18:56	CD
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			



Sample Information

Client Sample ID: CIM-MW-04 0321

York Sample ID: 21D0004-04

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 3:26 pm

Date Received
04/01/2021

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
120-12-7	Anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:56	CD
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:56	CD
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:56	CD
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:56	CD
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:56	CD
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:56	CD
218-01-9	Chrysene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:56	CD
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:56	CD
206-44-0	Fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:56	CD
86-73-7	Fluorene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:56	CD
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:56	CD
91-20-3	Naphthalene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:56	CD
85-01-8	Phenanthrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:56	CD
129-00-0	Pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 18:56	CD
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	64.5 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	53.9 %	39.9-105								
1718-51-0	Surrogate: SURR: Terphenyl-d14	52.2 %	30.7-106								

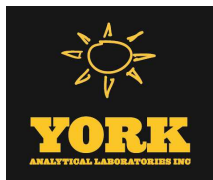
Lead by EPA 6020

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	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2021 09:03	04/07/2021 14:35	BML



Sample Information

Client Sample ID: CIM-MW-06 0321

York Sample ID: 21D0004-05

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 5:31 pm

Date Received
04/01/2021

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	04/02/2021 09:00	04/02/2021 13:45	NRT
							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	04/02/2021 09:00	04/02/2021 13:45	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:45	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:45	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:45	NRT
							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	04/02/2021 09:00	04/02/2021 13:45	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:45	NRT
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:45	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:45	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:45	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:45	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:45	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:45	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:45	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:45	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/02/2021 09:00	04/02/2021 13:45	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
	Surrogate Recoveries	Result		Acceptance Range							
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	107 %		69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	108 %		81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	104 %		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	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 19:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 19:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		



Sample Information

Client Sample ID: CIM-MW-06 0321

York Sample ID: 21D0004-05

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 5:31 pm

Date Received
04/01/2021

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
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 19:29	CD
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 19:29	CD
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 19:29	CD
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 19:29	CD
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 19:29	CD
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 19:29	CD
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 19:29	CD
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 19:29	CD
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 19:29	CD
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 19:29	CD
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 19:29	CD
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 19:29	CD
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 19:29	CD
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 19:29	CD
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	63.7 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	51.5 %	39.9-105								
1718-51-0	Surrogate: SURR: Terphenyl-d14	67.6 %	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	3.07		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2021 09:03	04/07/2021 14:39	BML



Sample Information

Client Sample ID: CIM-MW-07 0321

York Sample ID: 21D0004-06

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 2:15 pm

Date Received
04/01/2021

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	04/02/2021 09:00	04/02/2021 14:12	NRT
							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	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	2.5		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/02/2021 09:00	04/02/2021 14:12	NRT
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	108 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	107 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	105 %	79-122								

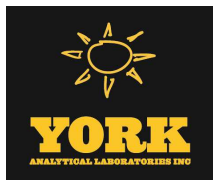
Semi-Volatiles, CP-51 (formerly STARS)-Low Level

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	0.562		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 20:02	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	0.0757		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/06/2021 20:02	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		



Sample Information

Client Sample ID: CIM-MW-07 0321

York Sample ID: 21D0004-06

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 2:15 pm

Date Received
04/01/2021

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
120-12-7	Anthracene	0.292		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 20:02	CD
56-55-3	Benzo(a)anthracene	0.562		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 20:02	CD
50-32-8	Benzo(a)pyrene	0.573		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 20:02	CD
205-99-2	Benzo(b)fluoranthene	0.454		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 20:02	CD
191-24-2	Benzo(g,h,i)perylene	0.378		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 20:02	CD
207-08-9	Benzo(k)fluoranthene	0.454		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 20:02	CD
218-01-9	Chrysene	0.605		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 20:02	CD
53-70-3	Dibenzo(a,h)anthracene	0.108		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 20:02	CD
206-44-0	Fluoranthene	1.38		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 20:02	CD
86-73-7	Fluorene	0.389		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 20:02	CD
193-39-5	Indeno(1,2,3-cd)pyrene	0.324		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 20:02	CD
91-20-3	Naphthalene	0.0865		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 20:02	CD
85-01-8	Phenanthrene	1.28		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 20:02	CD
129-00-0	Pyrene	1.22		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/06/2021 20:02	CD
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	65.6 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	52.8 %	39.9-105								
1718-51-0	Surrogate: SURR: Terphenyl-d14	63.8 %	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	17.2		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2021 09:03	04/07/2021 14:42	BML



Sample Information

Client Sample ID: CIM-MW-08 0321

York Sample ID: 21D0004-07

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 4:19 pm

Date Received
04/01/2021

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	04/02/2021 09:00	04/02/2021 15:05	NRT
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	04/02/2021 09:00	04/02/2021 15:05	NRT
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 15:05	NRT
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 15:05	NRT
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 15:05	NRT
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 15:05	NRT
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 15:05	NRT
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 15:05	NRT
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 15:05	NRT
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	04/02/2021 09:00	04/02/2021 15:05	NRT
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	04/02/2021 09:00	04/02/2021 15:05	NRT
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 15:05	NRT
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 15:05	NRT
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 15:05	NRT
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 15:05	NRT
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	04/02/2021 09:00	04/02/2021 15:05	NRT
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	107 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	103 %	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD



Sample Information

Client Sample ID: CIM-MW-08 0321

York Sample ID: 21D0004-07

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 4:19 pm

Date Received
04/01/2021

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
120-12-7	Anthracene	0.0757		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
56-55-3	Benzo(a)anthracene	0.205		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
50-32-8	Benzo(a)pyrene	0.184		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
205-99-2	Benzo(b)fluoranthene	0.195		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
191-24-2	Benzo(g,h,i)perylene	0.0757		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
207-08-9	Benzo(k)fluoranthene	0.195		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
218-01-9	Chrysene	0.205		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
206-44-0	Fluoranthene	0.454		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
193-39-5	Indeno(1,2,3-cd)pyrene	0.0649		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
85-01-8	Phenanthrene	0.324		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
129-00-0	Pyrene	0.476		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:12	CD
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	81.2 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	66.6 %	39.9-105								
1718-51-0	Surrogate: SURR: Terphenyl-d14	70.6 %	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	742		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2021 09:03	04/07/2021 14:52	BML



Sample Information

Client Sample ID: CIM-MW-09 0321

York Sample ID: 21D0004-08

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 12:45 pm

Date Received
04/01/2021

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	04/02/2021 09:00	04/02/2021 15:32	NRT
								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	04/02/2021 09:00	04/02/2021 15:32	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	0.33	J	ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 15:32	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 15:32	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 15:32	NRT
								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	04/02/2021 09:00	04/02/2021 15:32	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 15:32	NRT
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 15:32	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 15:32	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 15:32	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 15:32	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 15:32	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 15:32	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 15:32	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 15:32	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/02/2021 09:00	04/02/2021 15:32	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	109 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	106 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	104 %	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	0.0526	0.0526	1	EPA 8270D	04/05/2021 08:06	04/07/2021 15:45	CD
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
208-96-8	Acenaphthylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	04/05/2021 08:06	04/07/2021 15:45	CD
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			



Sample Information

Client Sample ID: CIM-MW-09 0321

York Sample ID: 21D0004-08

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 12:45 pm

Date Received
04/01/2021

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
120-12-7	Anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:45	CD
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:45	CD
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:45	CD
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:45	CD
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:45	CD
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:45	CD
218-01-9	Chrysene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:45	CD
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:45	CD
206-44-0	Fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:45	CD
86-73-7	Fluorene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:45	CD
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:45	CD
91-20-3	Naphthalene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:45	CD
85-01-8	Phenanthrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:45	CD
129-00-0	Pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 15:45	CD
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	81.6 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	67.2 %	39.9-105								
1718-51-0	Surrogate: SURR: Terphenyl-d14	76.4 %	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	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2021 09:03	04/07/2021 14:56	BML



Sample Information

Client Sample ID: CIM-FD-01 0321

York Sample ID: 21D0004-09

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

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	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	0.34	J	ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	2.0		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	32		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	6.7		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 16:25	NRT
								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	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
91-20-3	Naphthalene	11		ug/L	1.0	2.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	1.9		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	17		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	0.59	J	ug/L	0.50	1.0	1	EPA 8260C	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	0.49	J	ug/L	0.20	0.50	1	EPA 8260C	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/02/2021 09:00	04/02/2021 16:25	NRT
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	105 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	109 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	98.8 %	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	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/07/2021 16:19	CD
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/05/2021 08:06	04/07/2021 16:19	CD
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			



Sample Information

Client Sample ID: CIM-FD-01 0321

York Sample ID: 21D0004-09

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

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
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 16:19	CD
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 16:19	CD
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 16:19	CD
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 16:19	CD
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 16:19	CD
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 16:19	CD
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 16:19	CD
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 16:19	CD
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 16:19	CD
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 16:19	CD
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 16:19	CD
91-20-3	Naphthalene	3.25		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 16:19	CD
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 16:19	CD
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2021 08:06	04/07/2021 16:19	CD
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	81.2 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	66.3 %	39.9-105								
1718-51-0	Surrogate: SURR: Terphenyl-d14	81.6 %	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	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2021 09:03	04/07/2021 14:59	BML



Sample Information

Client Sample ID: TRIP BLANK 0321

York Sample ID: 21D0004-10

York Project (SDG) No.
21D0004

Client Project ID
41548.00 CONSOLIDATED IRON

Matrix
Water

Collection Date/Time
March 31, 2021 7:00 pm

Date Received
04/01/2021

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	04/02/2021 09:00	04/02/2021 11:05	NRT
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	04/02/2021 09:00	04/02/2021 11:05	NRT
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 11:05	NRT
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 11:05	NRT
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 11:05	NRT
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 11:05	NRT
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 11:05	NRT
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 11:05	NRT
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 11:05	NRT
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	04/02/2021 09:00	04/02/2021 11:05	NRT
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	04/02/2021 09:00	04/02/2021 11:05	NRT
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 11:05	NRT
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 11:05	NRT
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 11:05	NRT
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/02/2021 09:00	04/02/2021 11:05	NRT
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	04/02/2021 09:00	04/02/2021 11:05	NRT
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	107 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	107 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	105 %	79-122								



CASE NARRATIVE

York Project/SDG No.: 21D0004
Client: Chazen Environmental Services (Poughkeepsie)
Client Project ID: 41548.00 CONSOLIDATED IRON
Prepared for: Eric Orlowski

Introduction

This Case Narrative applies only to the samples submitted to our laboratory on **04/01/2021 14:33** as detailed on the chain-of-custody form.

The 10 sample(s) were received intact in a custody-sealed cooler(s), unless otherwise noted.

Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable ($\leq 6^{\circ}\text{C}$) and documented as:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	1.4

Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

All preparation and analyses were conducted according to the appropriate EPA methods detailed in the report.

Client Sample Information and Non-Conformances

<u>Laboratory ID</u>	<u>Sample Name</u>	<u>Matrix</u>
21D0004-01	CIM-MW-01 0321	Water
21D0004-02	CIM-MW-02 0321	Water
21D0004-03	CIM-MW-03 0321	Water
21D0004-04	CIM-MW-04 0321	Water
21D0004-05	CIM-MW-06 0321	Water
21D0004-06	CIM-MW-07 0321	Water
21D0004-07	CIM-MW-08 0321	Water
21D0004-08	CIM-MW-09 0321	Water
21D0004-09	CIM-FD-01 0321	Water
21D0004-10	TRIP BLANK 0321	Water

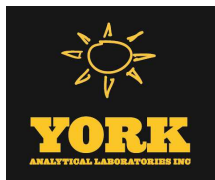
Any additional Client Sample Non-conformances are detailed in the proceeding Case Narrative Non-Conformance Summary tables.

No other problems were encountered during analysis.

QC Sample Non-Conformances

Any QC sample Non-conformances (SCV, CCV, BS, BSD, SRM, PS, MS, MSD, DUP) are detailed in the proceeding Case Narrative Non-Conformance Summary tables.

No other problems were encountered during analysis.



York Project/SDG no.: 21D0004 Statement

We certify that these data are in compliance with SOP requirements both technically and for completeness for other than the conditions stated above. Release of the data contained in the hard copy report and any electronic data deliverables has been authorized by the Laboratory Manager as verified by the signature on this laboratory report.

Approved by: Ben Gulizia
Laboratory Director

Date: 4/26/2021

York Analytical Laboratories, Inc. **Formulae Used for Sample Calculations**

1. **Volatile Organics** (Water-ug/L or Soil-ug/Kg)

Soils/Waters

$$C_x = \frac{(A_x)(IS)(DF)}{(A_{is})(RRF)(V)(\% \text{ solids})}$$

Medium Level Soils

$$C_x = \frac{(A_x)(IS)(VT)(1000)(DF)}{(A_{is})(RRF)(VA)(V)(\% \text{ solids})}$$

2. **Semi-Volatiles** (Water-ug/L or Soil-ug/Kg)

$$C_x = \frac{(A_x)(IS)(VE)(DF)}{(A_{is})(RRF)(\text{Volume injected, uL})(V)(\% \text{ solids})}$$

3. **Pesticides/PCB, DRO, EPH, CTETPH** (Water-ug/L or Soil-ug/Kg)

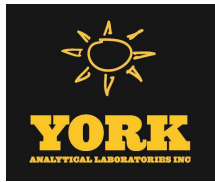
$$C_x = \frac{(A_x)(VE)(DF)}{(CF)(\text{Volume injected, uL})(V)(\% \text{ solids})}$$

4. **Inorganics** (Water or Soil-ug/mL)

$$C_x = \frac{(\text{Conc.})(VE)}{(V)(\% \text{ solids}/100)}$$

WHERE:

Cx = concentration of analyte as ug/L or ug/kg
Ax = Area of the characteristic ion for the compound to be measured, counts
Ais = Area of the characteristic ion for the specific internal standard, counts
IS = Concentration of the internal standard spiking mixture, ng
RRF = Mean relative response factor from the initial calibration
DF = Dilution factor calculated as described in section 2. If no dilution is performed, DF= 1
V = Volume for liquids in mL, weight for soils/solids in grams
VA = volume of MeOH aliquot for medium level soils



VE = final volume of concentrated extract or digestate
VT = volume of MeOH for volatiles medium level soils
CF = calibration factor for external calibration used in GC pest/pcb
Cis = Concentration of the internal standard spiking mixture, ppbv



Case Narrative Non-Conformance Summary

Laboratory: York Analytical Laboratories, Inc. Client: Chazen Environmental Services (Poughkeepsie)
Project: 41548.00 CONSOLIDATED IRON Lab Project No: 21D0004
Laboratory Sample ID(s): 21D0004-01 - 21D0004-10 Sampling Date(s): 03/31/2021 - 03/31/2021
Review Date(s): 04/26/2021 - 04/26/2021 Laboratory Reviewer(s): DEB

QC Sample Nonconformances

Batch ID: BD10089 Affected Samples: See Batch Summary

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BD10089-MS1	Ethyl Benzene - 100-41-4	52 ug/L	Matrix Spike (CIM-MW-01 0321)	207	72-128	High Bias				
BD10089-MS1	n-Propylbenzene - 103-65-1	31 ug/L	Matrix Spike (CIM-MW-01 0321)	138	66-134	High Bias				
BD10089-MSD1	Ethyl Benzene - 100-41-4	51 ug/L	Matrix Spike Dup (CIM-MW-01 0321)	187	72-128	High Bias	9.95	30		

Batch ID: Y1D0512 Affected Samples: See Batch Summary

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y1D0512-CCV1	Methyl tert-butyl ether (MTBE) - 1634-04-4	8.0 ug/L	Calibration Check	79.7	80-120	Low Bias				
Y1D0512-CCV1	n-Butylbenzene - 104-51-8	13 ug/L	Calibration Check	128	80-120	High Bias				

Batch ID: Y1D0736 Affected Samples: See Batch Summary

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y1D0736-ICV1	Arsenic - 7440-38-2	59.4 ug/L	Initial Cal Check	119	90-110	High Bias				
Y1D0736-ICV1	Lead - 7439-92-1	70.0 ug/L	Initial Cal Check	140	90-110	High Bias				

Batch ID: BD10089 General Method: Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
21D0004-01	CIM-MW-01 0321
21D0004-02	CIM-MW-02 0321
21D0004-03	CIM-MW-03 0321
21D0004-04	CIM-MW-04 0321
21D0004-05	CIM-MW-06 0321
21D0004-06	CIM-MW-07 0321
21D0004-07	CIM-MW-08 0321
21D0004-08	CIM-MW-09 0321
21D0004-09	CIM-FD-01 0321
21D0004-10	TRIP BLANK 0321
BD10089-BLK1	Blank
BD10089-BS1	LCS
BD10089-BSD1	LCS Dup
BD10089-MS1	Matrix Spike
BD10089-MSD1	Matrix Spike Dup



No Sample Nonconformances Found

Notes: Other nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions: LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate



QC DATA QUALIFIERS

LabID	Analysis	Analyte	Qualifier	Definition
Y1D0512-CCV1	Volatile Organics, CP-51 (STARS) Low level	Methyl tert-butyl ether (MTBE)	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).
Y1D0512-CCV1	Volatile Organics, CP-51 (STARS) Low level	n-Butylbenzene	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).
BD10089-MSD1	Volatile Organics, CP-51 (STARS) Low level	Ethyl Benzene	QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BD10089-MS1	Volatile Organics, CP-51 (STARS) Low level	Ethyl Benzene	QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BD10089-MS1	Volatile Organics, CP-51 (STARS) Low level	n-Propylbenzene	QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.



Analytical Batch Summary

Batch ID: BD10089

Preparation Method: EPA 5030B

Prepared By: NT

YORK Sample ID	Client Sample ID	Preparation Date
21D0004-01	CIM-MW-01 0321	04/02/21
21D0004-02	CIM-MW-02 0321	04/02/21
21D0004-03	CIM-MW-03 0321	04/02/21
21D0004-04	CIM-MW-04 0321	04/02/21
21D0004-05	CIM-MW-06 0321	04/02/21
21D0004-06	CIM-MW-07 0321	04/02/21
21D0004-07	CIM-MW-08 0321	04/02/21
21D0004-08	CIM-MW-09 0321	04/02/21
21D0004-09	CIM-FD-01 0321	04/02/21
21D0004-10	TRIP BLANK 0321	04/02/21
BD10089-BLK1	Blank	04/02/21
BD10089-BS1	LCS	04/02/21
BD10089-BSD1	LCS Dup	04/02/21
BD10089-MS1	Matrix Spike	04/02/21
BD10089-MSD1	Matrix Spike Dup	04/02/21

Batch ID: BD10094

Preparation Method: EPA 3015A

Prepared By: ALH

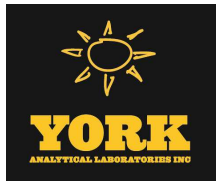
YORK Sample ID	Client Sample ID	Preparation Date
21D0004-01	CIM-MW-01 0321	04/02/21
21D0004-02	CIM-MW-02 0321	04/02/21
21D0004-03	CIM-MW-03 0321	04/02/21
21D0004-04	CIM-MW-04 0321	04/02/21
21D0004-05	CIM-MW-06 0321	04/02/21
21D0004-06	CIM-MW-07 0321	04/02/21
21D0004-07	CIM-MW-08 0321	04/02/21
21D0004-08	CIM-MW-09 0321	04/02/21
21D0004-09	CIM-FD-01 0321	04/02/21
BD10094-BLK1	Blank	04/02/21
BD10094-BS1	LCS	04/02/21
BD10094-DUP1	Duplicate	04/02/21
BD10094-MS1	Matrix Spike	04/02/21

Batch ID: BD10149

Preparation Method: EPA 3510C

Prepared By: GO

YORK Sample ID	Client Sample ID	Preparation Date
21D0004-01	CIM-MW-01 0321	04/05/21
21D0004-02	CIM-MW-02 0321	04/05/21
21D0004-03	CIM-MW-03 0321	04/05/21
21D0004-04	CIM-MW-04 0321	04/05/21
21D0004-05	CIM-MW-06 0321	04/05/21
21D0004-06	CIM-MW-07 0321	04/05/21
21D0004-07	CIM-MW-08 0321	04/05/21
21D0004-08	CIM-MW-09 0321	04/05/21
21D0004-09	CIM-FD-01 0321	04/05/21



BD10149-BLK1	Blank	04/05/21
BD10149-BLK2	Blank	04/05/21
BD10149-BS1	LCS	04/05/21
BD10149-BS2	LCS	04/05/21
BD10149-MS1	Matrix Spike	04/05/21
BD10149-MSD1	Matrix Spike Dup	04/05/21



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
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Batch BD10089 - EPA 5030B

Blank (BD10089-BLK1)

Prepared & Analyzed: 04/02/2021

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	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.8</i>		<i>"</i>	<i>10.0</i>		<i>108</i>	<i>69-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>10.7</i>		<i>"</i>	<i>10.0</i>		<i>107</i>	<i>81-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>10.3</i>		<i>"</i>	<i>10.0</i>		<i>103</i>	<i>79-122</i>				

LCS (BD10089-BS1)

Prepared & Analyzed: 04/02/2021

1,2,4-Trimethylbenzene	10		ug/L	10.0		105	82-132				
1,3,5-Trimethylbenzene	10		"	10.0		103	80-131				
Benzene	9.4		"	10.0		94.1	85-126				
Ethyl Benzene	10		"	10.0		101	80-131				
Isopropylbenzene	9.7		"	10.0		96.9	76-140				
Methyl tert-butyl ether (MTBE)	8.4		"	10.0		84.2	76-135				
Naphthalene	9.7		"	10.0		96.9	70-147				
n-Butylbenzene	13		"	10.0		127	79-132				
n-Propylbenzene	10		"	10.0		101	78-133				
o-Xylene	10		"	10.0		99.6	78-130				
p- & m- Xylenes	20		"	20.0		101	77-133				
p-Isopropyltoluene	11		"	10.0		110	81-136				
sec-Butylbenzene	11		"	10.0		107	79-137				
tert-Butylbenzene	9.0		"	10.0		90.3	77-138				
Toluene	10		"	10.0		102	80-127				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.4</i>		<i>"</i>	<i>10.0</i>		<i>104</i>	<i>69-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>10.7</i>		<i>"</i>	<i>10.0</i>		<i>107</i>	<i>81-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.62</i>		<i>"</i>	<i>10.0</i>		<i>96.2</i>	<i>79-122</i>				



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
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Batch BD10089 - EPA 5030B

LCS Dup (BD10089-BSD1)

Prepared & Analyzed: 04/02/2021

1,2,4-Trimethylbenzene	10		ug/L	10.0		101	82-132		3.69	30
1,3,5-Trimethylbenzene	9.9		"	10.0		99.3	80-131		3.56	30
Benzene	9.4		"	10.0		93.5	85-126		0.640	30
Ethyl Benzene	9.9		"	10.0		99.0	80-131		1.80	30
Isopropylbenzene	9.3		"	10.0		93.3	76-140		3.79	30
Methyl tert-butyl ether (MTBE)	9.0		"	10.0		89.7	76-135		6.33	30
Naphthalene	10		"	10.0		101	70-147		3.95	30
n-Butylbenzene	12		"	10.0		125	79-132		2.06	30
n-Propylbenzene	9.7		"	10.0		96.7	78-133		4.25	30
o-Xylene	9.9		"	10.0		98.8	78-130		0.806	30
p- & m- Xylenes	20		"	20.0		99.4	77-133		1.50	30
p-Isopropyltoluene	11		"	10.0		108	81-136		2.66	30
sec-Butylbenzene	10		"	10.0		104	79-137		2.66	30
tert-Butylbenzene	8.7		"	10.0		87.1	77-138		3.61	30
Toluene	10		"	10.0		100	80-127		1.39	30
Surrogate: SURR: 1,2-Dichloroethane-d4	10.6		"	10.0		106	69-130			
Surrogate: SURR: Toluene-d8	10.7		"	10.0		107	81-117			
Surrogate: SURR: p-Bromofluorobenzene	9.47		"	10.0		94.7	79-122			

Matrix Spike (BD10089-MS1)

*Source sample: 21D0004-01 (CIM-MW-01 0321)

Prepared & Analyzed: 04/02/2021

1,2,4-Trimethylbenzene	11		ug/L	10.0	0.0	106	72-129			
1,3,5-Trimethylbenzene	11		"	10.0	0.35	105	69-126			
Benzene	14		"	10.0	2.0	117	38-155			
Ethyl Benzene	52		"	10.0	32	207	72-128	High Bias		
Isopropylbenzene	19		"	10.0	6.9	119	66-139			
Methyl tert-butyl ether (MTBE)	11		"	10.0	0.45	108	75-128			
Naphthalene	25		"	10.0	11	142	39-158			
n-Butylbenzene	13		"	10.0	1.9	113	61-138			
n-Propylbenzene	31		"	10.0	17	138	66-134	High Bias		
o-Xylene	12		"	10.0	0.0	116	69-126			
p- & m- Xylenes	23		"	20.0	0.0	115	67-130			
p-Isopropyltoluene	10		"	10.0	0.0	103	64-137			
sec-Butylbenzene	12		"	10.0	0.0	125	53-155			
tert-Butylbenzene	9.8		"	10.0	0.0	97.7	65-139			
Toluene	13		"	10.0	0.49	121	76-123			
Surrogate: SURR: 1,2-Dichloroethane-d4	9.97		"	10.0		99.7	69-130			
Surrogate: SURR: Toluene-d8	10.8		"	10.0		108	81-117			
Surrogate: SURR: p-Bromofluorobenzene	9.45		"	10.0		94.5	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
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Batch BD10089 - EPA 5030B

Matrix Spike Dup (BD10089-MSD1)	*Source sample: 21D0004-01 (CIM-MW-01 0321)					Prepared & Analyzed: 04/02/2021					
1,2,4-Trimethylbenzene	11		ug/L	10.0	0.0	105	72-129		0.473	30	
1,3,5-Trimethylbenzene	11		"	10.0	0.35	104	69-126		0.191	30	
Benzene	12		"	10.0	2.0	105	38-155		11.0	30	
Ethyl Benzene	51		"	10.0	32	187	72-128	High Bias	9.95	30	
Isopropylbenzene	18		"	10.0	6.9	113	66-139		5.34	30	
Methyl tert-butyl ether (MTBE)	10		"	10.0	0.45	95.3	75-128		12.2	30	
Naphthalene	24		"	10.0	11	125	39-158		12.4	30	
n-Butylbenzene	15		"	10.0	1.9	131	61-138		14.4	30	
n-Propylbenzene	30		"	10.0	17	133	66-134		4.14	30	
o-Xylene	11		"	10.0	0.0	108	69-126		7.07	30	
p- & m- Xylenes	22		"	20.0	0.0	112	67-130		2.55	30	
p-Isopropyltoluene	11		"	10.0	0.0	113	64-137		9.17	30	
sec-Butylbenzene	13		"	10.0	0.0	131	53-155		4.46	30	
tert-Butylbenzene	9.5		"	10.0	0.0	95.3	65-139		2.49	30	
Toluene	12		"	10.0	0.49	112	76-123		8.00	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.0		"	10.0		100	69-130				
Surrogate: SURR: Toluene-d8	10.9		"	10.0		109	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.33		"	10.0		93.3	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
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Batch BD10149 - EPA 3510C

Blank (BD10149-BLK1)

Prepared: 04/05/2021 Analyzed: 04/06/2021

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	19.3	"	25.0	77.3	50.2-113
Surrogate: SURR: 2-Fluorobiphenyl	16.6	"	25.0	66.3	39.9-105
Surrogate: SURR: Terphenyl-d14	25.6	"	25.0	102	30.7-106

Blank (BD10149-BLK2)

Prepared: 04/05/2021 Analyzed: 04/06/2021

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
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Batch BD10149 - EPA 3510C

LCS (BD10149-BS1)

Prepared: 04/05/2021 Analyzed: 04/06/2021

Acenaphthene	13.4	0.0500	ug/L	25.0		53.4	24-114				
Acenaphthylene	13.3	0.0500	"	25.0		53.3	26-112				
Anthracene	15.1	0.0500	"	25.0		60.4	35-114				
Benzo(a)anthracene	16.4	0.0500	"	25.0		65.7	38-127				
Benzo(a)pyrene	15.6	0.0500	"	25.0		62.6	30-146				
Benzo(b)fluoranthene	16.7	0.0500	"	25.0		67.0	36-145				
Benzo(g,h,i)perylene	15.4	0.0500	"	25.0		61.8	10-163				
Benzo(k)fluoranthene	16.0	0.0500	"	25.0		64.0	16-149				
Chrysene	16.7	0.0500	"	25.0		66.8	33-120				
Dibenzo(a,h)anthracene	15.2	0.0500	"	25.0		60.9	10-149				
Fluoranthene	15.6	0.0500	"	25.0		62.3	33-126				
Fluorene	13.8	0.0500	"	25.0		55.0	28-117				
Indeno(1,2,3-cd)pyrene	15.1	0.0500	"	25.0		60.4	10-150				
Naphthalene	13.8	0.0500	"	25.0		55.3	30-99				
Phenanthrene	15.3	0.0500	"	25.0		61.2	31-112				
Pyrene	16.5	0.0500	"	25.0		66.1	42-125				
Surrogate: SURR: Nitrobenzene-d5	15.9		"	25.0		63.5	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	13.1		"	25.0		52.2	39.9-105				
Surrogate: SURR: Terphenyl-d14	19.7		"	25.0		79.0	30.7-106				

LCS (BD10149-BS2)

Prepared: 04/05/2021 Analyzed: 04/06/2021

Acenaphthene	0.740	0.0500	ug/L	1.00		74.0	24-114				
Acenaphthylene	0.770	0.0500	"	1.00		77.0	26-112				
Anthracene	0.800	0.0500	"	1.00		80.0	35-114				
Benzo(a)anthracene	0.890	0.0500	"	1.00		89.0	38-127				
Benzo(a)pyrene	0.780	0.0500	"	1.00		78.0	30-146				
Benzo(b)fluoranthene	0.900	0.0500	"	1.00		90.0	36-145				
Benzo(g,h,i)perylene	1.08	0.0500	"	1.00		108	10-163				
Benzo(k)fluoranthene	0.840	0.0500	"	1.00		84.0	16-149				
Chrysene	0.930	0.0500	"	1.00		93.0	33-120				
Dibenzo(a,h)anthracene	1.01	0.0500	"	1.00		101	10-149				
Fluoranthene	0.920	0.0500	"	1.00		92.0	33-126				
Fluorene	0.810	0.0500	"	1.00		81.0	28-117				
Indeno(1,2,3-cd)pyrene	0.990	0.0500	"	1.00		99.0	10-150				
Naphthalene	0.760	0.0500	"	1.00		76.0	30-99				
Phenanthrene	0.810	0.0500	"	1.00		81.0	31-112				
Pyrene	0.900	0.0500	"	1.00		90.0	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				



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
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Batch BD10149 - EPA 3510C

Matrix Spike (BD10149-MS1)		*Source sample: 21D0004-01 (CIM-MW-01 0321)						Prepared: 04/05/2021 Analyzed: 04/07/2021			
Acenaphthene	14.4	0.0526	ug/L	26.3	ND	54.6	17-132				
Acenaphthylene	14.0	0.0526	"	26.3	ND	53.2	13-124				
Anthracene	16.2	0.0526	"	26.3	ND	61.6	40-105				
Benzo(a)anthracene	18.3	0.0526	"	26.3	ND	69.5	23-141				
Benzo(a)pyrene	16.1	0.0526	"	26.3	ND	61.0	46-118				
Benzo(b)fluoranthene	17.9	0.0526	"	26.3	ND	67.8	22-133				
Benzo(g,h,i)perylene	17.7	0.0526	"	26.3	ND	67.4	10-126				
Benzo(k)fluoranthene	17.2	0.0526	"	26.3	ND	65.2	18-152				
Chrysene	18.4	0.0526	"	26.3	ND	70.0	30-127				
Dibenzo(a,h)anthracene	17.1	0.0526	"	26.3	ND	64.9	10-131				
Fluoranthene	17.0	0.0526	"	26.3	ND	64.8	29-123				
Fluorene	14.4	0.0526	"	26.3	ND	54.8	20-133				
Indeno(1,2,3-cd)pyrene	16.9	0.0526	"	26.3	ND	64.3	10-130				
Naphthalene	18.7	0.0526	"	26.3	4.57	53.9	26-104				
Phenanthrene	16.7	0.0526	"	26.3	0.0541	63.3	29-121				
Pyrene	18.3	0.0526	"	26.3	ND	69.6	34-129				
Surrogate: SURR: Nitrobenzene-d5		16.3	"	26.3		62.0	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl		13.6	"	26.3		51.8	39.9-105				
Surrogate: SURR: Terphenyl-d14		21.4	"	26.3		81.3	30.7-106				

Matrix Spike Dup (BD10149-MSD1)		*Source sample: 21D0004-01 (CIM-MW-01 0321)						Prepared: 04/05/2021 Analyzed: 04/07/2021			
Acenaphthene	14.2	0.0526	ug/L	26.3	ND	53.9	17-132	1.25	20		
Acenaphthylene	14.1	0.0526	"	26.3	ND	53.6	13-124	0.599	20		
Anthracene	15.2	0.0526	"	26.3	ND	57.7	40-105	6.51	20		
Benzo(a)anthracene	16.7	0.0526	"	26.3	ND	63.5	23-141	9.03	20		
Benzo(a)pyrene	14.8	0.0526	"	26.3	ND	56.3	46-118	7.98	20		
Benzo(b)fluoranthene	16.2	0.0526	"	26.3	ND	61.6	22-133	9.64	20		
Benzo(g,h,i)perylene	16.1	0.0526	"	26.3	ND	61.4	10-126	9.44	20		
Benzo(k)fluoranthene	15.8	0.0526	"	26.3	ND	59.9	18-152	8.57	20		
Chrysene	16.9	0.0526	"	26.3	ND	64.0	30-127	8.89	20		
Dibenzo(a,h)anthracene	15.4	0.0526	"	26.3	ND	58.5	10-131	10.4	20		
Fluoranthene	15.5	0.0526	"	26.3	ND	58.8	29-123	9.58	20		
Fluorene	14.2	0.0526	"	26.3	ND	53.8	20-133	1.91	20		
Indeno(1,2,3-cd)pyrene	15.5	0.0526	"	26.3	ND	58.9	10-130	8.70	20		
Naphthalene	16.2	0.0526	"	26.3	4.57	44.1	26-104	14.6	20		
Phenanthrene	15.7	0.0526	"	26.3	0.0541	59.5	29-121	6.23	20		
Pyrene	16.6	0.0526	"	26.3	ND	63.1	34-129	9.71	20		
Surrogate: SURR: Nitrobenzene-d5		16.4	"	26.3		62.2	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl		13.9	"	26.3		52.7	39.9-105				
Surrogate: SURR: Terphenyl-d14		20.7	"	26.3		78.6	30.7-106				



Metals by ICP/MS - Quality Control Data

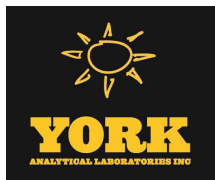
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD10094 - EPA 3015A											
Blank (BD10094-BLK1)						Prepared: 04/02/2021 Analyzed: 04/06/2021					
Arsenic	ND	1.11	ug/L								
Lead	ND	1.11	"								
LCS (BD10094-BS1)						Prepared: 04/02/2021 Analyzed: 04/06/2021					
Arsenic	47.9		ug/L	50.0		95.8	80-120				
Lead	51.4		"	50.0		103	80-120				
Duplicate (BD10094-DUP1)						*Source sample: 21D0004-01 (CIM-MW-01 0321) Prepared: 04/02/2021 Analyzed: 04/07/2021					
Arsenic	ND	1.11	ug/L		ND					20	
Lead	ND	1.11	"		ND					20	
Matrix Spike (BD10094-MS1)						*Source sample: 21D0004-01 (CIM-MW-01 0321) Prepared: 04/02/2021 Analyzed: 04/07/2021					
Arsenic	52.2		ug/L	50.0	0.391	104	75-125				
Lead	47.2		"	50.0	0.517	93.3	75-125				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21D0004-01	CIM-MW-01 0321	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21D0004-02	CIM-MW-02 0321	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21D0004-03	CIM-MW-03 0321	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21D0004-04	CIM-MW-04 0321	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21D0004-05	CIM-MW-06 0321	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21D0004-06	CIM-MW-07 0321	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21D0004-07	CIM-MW-08 0321	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21D0004-08	CIM-MW-09 0321	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21D0004-09	CIM-FD-01 0321	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21D0004-10	TRIP BLANK 0321	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
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

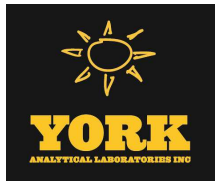
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration 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.

Revision Description: This data package has been revised to correct the VOA results on Sample -09.



Laboratory Chain-of-Custody Record

York Project (SDG) No.: 21D0004

Samples Received: 04/01/2021 14:33 By: Terri Gale Logged In: 04/01/2021 9:21 By: Terri Gale

Sample Conditions:

- | | |
|--|---|
| ☐ Custody Seals | ☒ Chain of Custody Form Received |
| ☒ Containers Intact | ☒ Appropriate Sample Volumes Received |
| ☒ COC/Labels Agree | ☒ Appropriate Sample Containers Submitted |
| ☒ Preservation Confirmed | ☒ Samples Submitted within Holding Times |
| ☒ Cooler Temperature Confirmed | ☐ Corrective Action Form Required |
| ☒ COC Complete | |

Preparation Chain-of-Custody

Sample ID	Reason Prep	Prep Start Date	Prep End Date	Prep Analyst
21D0004-01	EPA 3015A	04/02/2021 9:03	04/02/2021 9:03	Avery Liotta-Henderson
21D0004-02	EPA 3015A	04/02/2021 9:03	04/02/2021 9:03	Avery Liotta-Henderson
21D0004-02	EPA 3015A	04/02/2021 9:03	04/02/2021 9:03	Avery Liotta-Henderson
21D0004-03	EPA 3015A	04/02/2021 9:03	04/02/2021 9:03	Avery Liotta-Henderson
21D0004-04	EPA 3015A	04/02/2021 9:03	04/02/2021 9:03	Avery Liotta-Henderson
21D0004-05	EPA 3015A	04/02/2021 9:03	04/02/2021 9:03	Avery Liotta-Henderson
21D0004-06	EPA 3015A	04/02/2021 9:03	04/02/2021 9:03	Avery Liotta-Henderson
21D0004-07	EPA 3015A	04/02/2021 9:03	04/02/2021 9:03	Avery Liotta-Henderson
21D0004-08	EPA 3015A	04/02/2021 9:03	04/02/2021 9:03	Avery Liotta-Henderson
21D0004-09	EPA 3015A	04/02/2021 9:03	04/02/2021 9:03	Avery Liotta-Henderson
21D0004-01	EPA 3510C	04/05/2021 8:06	04/05/2021 8:06	Gabriella Oppedisano
21D0004-02	EPA 3510C	04/05/2021 8:06	04/05/2021 8:06	Gabriella Oppedisano
21D0004-03	EPA 3510C	04/05/2021 8:06	04/05/2021 8:06	Gabriella Oppedisano
21D0004-04	EPA 3510C	04/05/2021 8:06	04/05/2021 8:06	Gabriella Oppedisano
21D0004-05	EPA 3510C	04/05/2021 8:06	04/05/2021 8:06	Gabriella Oppedisano
21D0004-06	EPA 3510C	04/05/2021 8:06	04/05/2021 8:06	Gabriella Oppedisano
21D0004-07	EPA 3510C	04/05/2021 8:06	04/05/2021 8:06	Gabriella Oppedisano
21D0004-08	EPA 3510C	04/05/2021 8:06	04/05/2021 8:06	Gabriella Oppedisano
21D0004-09	EPA 3510C	04/05/2021 8:06	04/05/2021 8:06	Gabriella Oppedisano
21D0004-01	EPA 5030B	04/02/2021 9:00	04/02/2021 9:00	Nathan Thorne
21D0004-02	EPA 5030B	04/02/2021 9:00	04/02/2021 9:00	Nathan Thorne
21D0004-03	EPA 5030B	04/02/2021 9:00	04/02/2021 9:00	Nathan Thorne
21D0004-04	EPA 5030B	04/02/2021 9:00	04/02/2021 9:00	Nathan Thorne
21D0004-05	EPA 5030B	04/02/2021 9:00	04/02/2021 9:00	Nathan Thorne
21D0004-06	EPA 5030B	04/02/2021 9:00	04/02/2021 9:00	Nathan Thorne
21D0004-07	EPA 5030B	04/02/2021 9:00	04/02/2021 9:00	Nathan Thorne
21D0004-08	EPA 5030B	04/02/2021 9:00	04/02/2021 9:00	Nathan Thorne
21D0004-09	EPA 5030B	04/02/2021 9:00	04/02/2021 9:00	Nathan Thorne



Preparation Chain-of-Custody

Sample ID	Reason Prep	Prep Start Date	Prep End Date	Prep Analyst
21D0004-10	EPA 5030B	04/02/2021 9:00	04/02/2021 9:00	Nathan Thorne

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
21D0004-02	Arsenic by EPA 6020	04/02/2021 9:03	04/07/2021 14:28	Brian M. Loftus
21D0004-01	Lead by EPA 6020	04/02/2021 9:03	04/07/2021 14:18	Brian M. Loftus
21D0004-02	Lead by EPA 6020	04/02/2021 9:03	04/07/2021 14:28	Brian M. Loftus
21D0004-03	Lead by EPA 6020	04/02/2021 9:03	04/07/2021 14:32	Brian M. Loftus
21D0004-04	Lead by EPA 6020	04/02/2021 9:03	04/07/2021 14:35	Brian M. Loftus
21D0004-05	Lead by EPA 6020	04/02/2021 9:03	04/07/2021 14:39	Brian M. Loftus
21D0004-06	Lead by EPA 6020	04/02/2021 9:03	04/07/2021 14:42	Brian M. Loftus
21D0004-07	Lead by EPA 6020	04/02/2021 9:03	04/07/2021 14:52	Brian M. Loftus
21D0004-08	Lead by EPA 6020	04/02/2021 9:03	04/07/2021 14:56	Brian M. Loftus
21D0004-09	Lead by EPA 6020	04/02/2021 9:03	04/07/2021 14:59	Brian M. Loftus
21D0004-01	Semi-Volatiles, CP-51 (formerly STAI	04/05/2021 8:06	04/07/2021 16:06	Connie DeLucia
21D0004-02	Semi-Volatiles, CP-51 (formerly STAI	04/05/2021 8:06	04/07/2021 17:41	Connie DeLucia
21D0004-03	Semi-Volatiles, CP-51 (formerly STAI	04/05/2021 8:06	04/07/2021 18:12	Connie DeLucia
21D0004-04	Semi-Volatiles, CP-51 (formerly STAI	04/05/2021 8:06	04/07/2021 18:43	Connie DeLucia
21D0004-05	Semi-Volatiles, CP-51 (formerly STAI	04/05/2021 8:06	04/07/2021 19:14	Connie DeLucia
21D0004-06	Semi-Volatiles, CP-51 (formerly STAI	04/05/2021 8:06	04/07/2021 19:46	Connie DeLucia
21D0004-07	Semi-Volatiles, CP-51 (formerly STAI	04/05/2021 8:06	04/07/2021 20:18	Connie DeLucia
21D0004-08	Semi-Volatiles, CP-51 (formerly STAI	04/05/2021 8:06	04/07/2021 20:51	Connie DeLucia
21D0004-09	Semi-Volatiles, CP-51 (formerly STAI	04/05/2021 8:06	04/07/2021 21:23	Connie DeLucia

York Analytical Laboratories, Inc.

ASP A Deliverable

SDG: 21D0004

CLASS: VOA

METHOD: EPA 8260C

DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 21D0004

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41548.00 CONSOLIDATED IRON

Client Sample Id:

CIM-MW-01 0321

CIM-MW-02 0321

CIM-MW-03 0321

CIM-MW-04 0321

CIM-MW-06 0321

CIM-MW-07 0321

CIM-MW-08 0321

CIM-MW-09 0321

CIM-FD-01 0321

TRIP BLANK 0321

Lab Sample Id:

21D0004-01

21D0004-02

21D0004-03

21D0004-04

21D0004-05

21D0004-06

21D0004-07

21D0004-08

21D0004-09

21D0004-10

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature:



Name:

Benjamin Gulizia

Date:

4/26/2021

Title:

Laboratory Director

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-01 File ID: V10C004050.D
 Sampled: 03/31/21 09:47 Prepared: 04/02/21 09:00 Analyzed: 04/02/21 11:32
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD10089 Sequence: Y1D0512 Calibration: YB10013 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.35	J
71-43-2	Benzene	1	2.0	
100-41-4	Ethyl Benzene	1	32	
98-82-8	Isopropylbenzene	1	6.9	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.45	J
91-20-3	Naphthalene	1	11	
104-51-8	n-Butylbenzene	1	1.9	
103-65-1	n-Propylbenzene	1	17	
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.49	J
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.0	100	69 - 130	
SURR: Toluene-d8	10.0	10.9	109	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.75	97.5	79 - 122	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-02 File ID: V10C004051.D
 Sampled: 03/31/21 11:02 Prepared: 04/02/21 09:00 Analyzed: 04/02/21 11:58
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD10089 Sequence: Y1D0512 Calibration: YB10013 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
71-43-2	Benzene	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.33	J
91-20-3	Naphthalene	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.5	105	69 - 130	
SURR: Toluene-d8	10.0	10.7	107	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.2	102	79 - 122	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-03 File ID: V10C004053.D
 Sampled: 03/31/21 11:47 Prepared: 04/02/21 09:00 Analyzed: 04/02/21 12:52
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD10089 Sequence: Y1D0512 Calibration: YB10013 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
71-43-2	Benzene	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
91-20-3	Naphthalene	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.6	106	69 - 130	
SURR: Toluene-d8	10.0	10.8	108	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.3	103	79 - 122	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-04 File ID: V10C004054.D
 Sampled: 03/31/21 15:26 Prepared: 04/02/21 09:00 Analyzed: 04/02/21 13:18
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD10089 Sequence: Y1D0512 Calibration: YB10013 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
71-43-2	Benzene	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	1.7	
91-20-3	Naphthalene	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	
SURR: Toluene-d8	10.0	10.6	106	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.2	102	79 - 122	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-05 File ID: V10C004055.D
 Sampled: 03/31/21 17:31 Prepared: 04/02/21 09:00 Analyzed: 04/02/21 13:45
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD10089 Sequence: Y1D0512 Calibration: YB10013 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
71-43-2	Benzene	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
91-20-3	Naphthalene	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.7	107	69 - 130	
SURR: Toluene-d8	10.0	10.8	108	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-06 File ID: V10C004056.D
 Sampled: 03/31/21 14:15 Prepared: 04/02/21 09:00 Analyzed: 04/02/21 14:12
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD10089 Sequence: Y1D0512 Calibration: YB10013 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
71-43-2	Benzene	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	2.5	
91-20-3	Naphthalene	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	
SURR: Toluene-d8	10.0	10.7	107	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.5	105	79 - 122	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-07 File ID: V10C004058.D
 Sampled: 03/31/21 16:19 Prepared: 04/02/21 09:00 Analyzed: 04/02/21 15:05
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD10089 Sequence: Y1D0512 Calibration: YB10013 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
71-43-2	Benzene	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
91-20-3	Naphthalene	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
SURR: Toluene-d8	10.0	10.7	107	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.3	103	79 - 122	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-08 File ID: V10C004059.D
 Sampled: 03/31/21 12:45 Prepared: 04/02/21 09:00 Analyzed: 04/02/21 15:32
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD10089 Sequence: Y1D0512 Calibration: YB10013 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
71-43-2	Benzene	1	0.33	J
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
91-20-3	Naphthalene	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.9	109	69 - 130	
SURR: Toluene-d8	10.0	10.6	106	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-09 File ID: V10C004061.D
 Sampled: 03/31/21 15:00 Prepared: 04/02/21 09:00 Analyzed: 04/02/21 16:25
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD10089 Sequence: Y1D0512 Calibration: YB10013 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.34	J
71-43-2	Benzene	1	2.0	
100-41-4	Ethyl Benzene	1	32	
98-82-8	Isopropylbenzene	1	6.7	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
91-20-3	Naphthalene	1	11	
104-51-8	n-Butylbenzene	1	1.9	
103-65-1	n-Propylbenzene	1	17	
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	0.59	J
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.49	J
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.5	105	69 - 130	
SURR: Toluene-d8	10.0	10.9	109	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.88	98.8	79 - 122	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-10 File ID: V10C004049.D
 Sampled: 03/31/21 19:00 Prepared: 04/02/21 09:00 Analyzed: 04/02/21 11:05
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD10089 Sequence: Y1D0512 Calibration: YB10013 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
71-43-2	Benzene	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
91-20-3	Naphthalene	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.7	107	69 - 130	
SURR: Toluene-d8	10.0	10.7	107	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.5	105	79 - 122	

* Values outside of QC limits

York Analytical Laboratories, Inc.

ASP A Deliverable

SDG: 21D0004

CLASS: SVOA

METHOD: EPA 8270D

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EPA 8270D

Laboratory: York Analytical Laboratories, Inc.

SDG: 21D0004

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41548.00 CONSOLIDATED IRON

Client Sample Id:

CIM-MW-01 0321

CIM-MW-02 0321

CIM-MW-03 0321

CIM-MW-04 0321

CIM-MW-06 0321

CIM-MW-07 0321

CIM-MW-08 0321

CIM-MW-09 0321

CIM-FD-01 0321

Lab Sample Id:

21D0004-01

21D0004-02

21D0004-03

21D0004-04

21D0004-05

21D0004-06

21D0004-07

21D0004-08

21D0004-09

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature:



Name:

Benjamin Gulizia

Date:

4/26/2021

Title:

Laboratory Director

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-01 File ID: SV525589.D
 Sampled: 03/31/21 09:47 Prepared: 04/05/21 08:06 Analyzed: 04/06/21 17:19
 Solids: Preparation: EPA 3510C Initial/Final: 925 mL / 1 mL
 Batch: BD10149 Sequence: Y1D0813 Calibration: YB10007 Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
83-32-9	Acenaphthene	1	0.0541	U
208-96-8	Acenaphthylene	1	0.0541	U
120-12-7	Anthracene	1	0.0541	U
56-55-3	Benzo(a)anthracene	1	0.0541	U
50-32-8	Benzo(a)pyrene	1	0.0541	U
205-99-2	Benzo(b)fluoranthene	1	0.0541	U
191-24-2	Benzo(g,h,i)perylene	1	0.0541	U
207-08-9	Benzo(k)fluoranthene	1	0.0541	U
218-01-9	Chrysene	1	0.0541	U
53-70-3	Dibenzo(a,h)anthracene	1	0.0541	U
206-44-0	Fluoranthene	1	0.0541	U
86-73-7	Fluorene	1	0.0541	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0541	U
91-20-3	Naphthalene	1	4.57	
85-01-8	Phenanthrene	1	0.0541	J
129-00-0	Pyrene	1	0.0541	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	27.0	21.2	78.4	50.2 - 113	
SURR: 2-Fluorobiphenyl	27.0	17.5	64.6	39.9 - 105	
SURR: Terphenyl-d14	27.0	18.4	68.2	30.7 - 106	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-02 File ID: SV525590.D
 Sampled: 03/31/21 11:02 Prepared: 04/05/21 08:06 Analyzed: 04/06/21 17:51
 Solids: Preparation: EPA 3510C Initial/Final: 925 mL / 1 mL
 Batch: BD10149 Sequence: Y1D0813 Calibration: YB10007 Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
83-32-9	Acenaphthene	1	0.0541	U
208-96-8	Acenaphthylene	1	0.0541	U
120-12-7	Anthracene	1	0.0541	U
56-55-3	Benzo(a)anthracene	1	0.0541	U
50-32-8	Benzo(a)pyrene	1	0.0541	U
205-99-2	Benzo(b)fluoranthene	1	0.0541	U
191-24-2	Benzo(g,h,i)perylene	1	0.0541	U
207-08-9	Benzo(k)fluoranthene	1	0.0541	U
218-01-9	Chrysene	1	0.0541	U
53-70-3	Dibenzo(a,h)anthracene	1	0.0541	U
206-44-0	Fluoranthene	1	0.0541	U
86-73-7	Fluorene	1	0.0541	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0541	U
91-20-3	Naphthalene	1	0.0541	U
85-01-8	Phenanthrene	1	0.0541	U
129-00-0	Pyrene	1	0.0541	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	27.0	23.2	85.9	50.2 - 113	
SURR: 2-Fluorobiphenyl	27.0	19.3	71.4	39.9 - 105	
SURR: Terphenyl-d14	27.0	21.9	81.1	30.7 - 106	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-03 File ID: SV525591.D
 Sampled: 03/31/21 11:47 Prepared: 04/05/21 08:06 Analyzed: 04/06/21 18:23
 Solids: Preparation: EPA 3510C Initial/Final: 950 mL / 1 mL
 Batch: BD10149 Sequence: Y1D0813 Calibration: YB10007 Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
83-32-9	Acenaphthene	1	0.0526	U
208-96-8	Acenaphthylene	1	0.0526	U
120-12-7	Anthracene	1	0.0526	U
56-55-3	Benzo(a)anthracene	1	0.0947	
50-32-8	Benzo(a)pyrene	1	0.0842	
205-99-2	Benzo(b)fluoranthene	1	0.0632	
191-24-2	Benzo(g,h,i)perylene	1	0.0526	J
207-08-9	Benzo(k)fluoranthene	1	0.0737	
218-01-9	Chrysene	1	0.0947	
53-70-3	Dibenzo(a,h)anthracene	1	0.0526	U
206-44-0	Fluoranthene	1	0.211	
86-73-7	Fluorene	1	0.0526	J
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0526	J
91-20-3	Naphthalene	1	0.0526	U
85-01-8	Phenanthrene	1	0.126	
129-00-0	Pyrene	1	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	26.3	16.3	61.8	50.2 - 113	
SURR: 2-Fluorobiphenyl	26.3	12.4	47.1	39.9 - 105	
SURR: Terphenyl-d14	26.3	16.0	60.8	30.7 - 106	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-04 File ID: SV525592.D
 Sampled: 03/31/21 15:26 Prepared: 04/05/21 08:06 Analyzed: 04/06/21 18:56
 Solids: Preparation: EPA 3510C Initial/Final: 950 mL / 1 mL
 Batch: BD10149 Sequence: Y1D0813 Calibration: YB10007 Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
83-32-9	Acenaphthene	1	0.0526	U
208-96-8	Acenaphthylene	1	0.0526	U
120-12-7	Anthracene	1	0.0526	U
56-55-3	Benzo(a)anthracene	1	0.0526	U
50-32-8	Benzo(a)pyrene	1	0.0526	U
205-99-2	Benzo(b)fluoranthene	1	0.0526	U
191-24-2	Benzo(g,h,i)perylene	1	0.0526	U
207-08-9	Benzo(k)fluoranthene	1	0.0526	U
218-01-9	Chrysene	1	0.0526	U
53-70-3	Dibenzo(a,h)anthracene	1	0.0526	U
206-44-0	Fluoranthene	1	0.0526	U
86-73-7	Fluorene	1	0.0526	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0526	U
91-20-3	Naphthalene	1	0.0526	U
85-01-8	Phenanthrene	1	0.0526	U
129-00-0	Pyrene	1	0.0526	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	26.3	17.0	64.5	50.2 - 113	
SURR: 2-Fluorobiphenyl	26.3	14.2	53.9	39.9 - 105	
SURR: Terphenyl-d14	26.3	13.7	52.2	30.7 - 106	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-05 File ID: SV525593.D
 Sampled: 03/31/21 17:31 Prepared: 04/05/21 08:06 Analyzed: 04/06/21 19:29
 Solids: Preparation: EPA 3510C Initial/Final: 925 mL / 1 mL
 Batch: BD10149 Sequence: Y1D0813 Calibration: YB10007 Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
83-32-9	Acenaphthene	1	0.0541	U
208-96-8	Acenaphthylene	1	0.0541	U
120-12-7	Anthracene	1	0.0541	U
56-55-3	Benzo(a)anthracene	1	0.0541	U
50-32-8	Benzo(a)pyrene	1	0.0541	U
205-99-2	Benzo(b)fluoranthene	1	0.0541	U
191-24-2	Benzo(g,h,i)perylene	1	0.0541	U
207-08-9	Benzo(k)fluoranthene	1	0.0541	U
218-01-9	Chrysene	1	0.0541	U
53-70-3	Dibenzo(a,h)anthracene	1	0.0541	U
206-44-0	Fluoranthene	1	0.0541	U
86-73-7	Fluorene	1	0.0541	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0541	U
91-20-3	Naphthalene	1	0.0541	U
85-01-8	Phenanthrene	1	0.0541	U
129-00-0	Pyrene	1	0.0541	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	27.0	17.2	63.7	50.2 - 113	
SURR: 2-Fluorobiphenyl	27.0	13.9	51.5	39.9 - 105	
SURR: Terphenyl-d14	27.0	18.3	67.6	30.7 - 106	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-06 File ID: SV525594.D
 Sampled: 03/31/21 14:15 Prepared: 04/05/21 08:06 Analyzed: 04/06/21 20:02
 Solids: Preparation: EPA 3510C Initial/Final: 925 mL / 1 mL
 Batch: BD10149 Sequence: Y1D0813 Calibration: YB10007 Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
83-32-9	Acenaphthene	1	0.562	
208-96-8	Acenaphthylene	1	0.0757	
120-12-7	Anthracene	1	0.292	
56-55-3	Benzo(a)anthracene	1	0.562	
50-32-8	Benzo(a)pyrene	1	0.573	
205-99-2	Benzo(b)fluoranthene	1	0.454	
191-24-2	Benzo(g,h,i)perylene	1	0.378	
207-08-9	Benzo(k)fluoranthene	1	0.454	
218-01-9	Chrysene	1	0.605	
53-70-3	Dibenzo(a,h)anthracene	1	0.108	
206-44-0	Fluoranthene	1	1.38	
86-73-7	Fluorene	1	0.389	
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.324	
91-20-3	Naphthalene	1	0.0865	
85-01-8	Phenanthrene	1	1.28	
129-00-0	Pyrene	1	1.22	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	27.0	17.7	65.6	50.2 - 113	
SURR: 2-Fluorobiphenyl	27.0	14.3	52.8	39.9 - 105	
SURR: Terphenyl-d14	27.0	17.2	63.8	30.7 - 106	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-07 File ID: SV525608.D
 Sampled: 03/31/21 16:19 Prepared: 04/05/21 08:06 Analyzed: 04/07/21 15:12
 Solids: Preparation: EPA 3510C Initial/Final: 925 mL / 1 mL
 Batch: BD10149 Sequence: Y1D0813 Calibration: YB10007 Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
83-32-9	Acenaphthene	1	0.0541	U
208-96-8	Acenaphthylene	1	0.0541	U
120-12-7	Anthracene	1	0.0757	
56-55-3	Benzo(a)anthracene	1	0.205	
50-32-8	Benzo(a)pyrene	1	0.184	
205-99-2	Benzo(b)fluoranthene	1	0.195	
191-24-2	Benzo(g,h,i)perylene	1	0.0757	
207-08-9	Benzo(k)fluoranthene	1	0.195	
218-01-9	Chrysene	1	0.205	
53-70-3	Dibenzo(a,h)anthracene	1	0.0541	U
206-44-0	Fluoranthene	1	0.454	
86-73-7	Fluorene	1	0.0541	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0649	
91-20-3	Naphthalene	1	0.0541	U
85-01-8	Phenanthrene	1	0.324	
129-00-0	Pyrene	1	0.476	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	27.0	22.0	81.2	50.2 - 113	
SURR: 2-Fluorobiphenyl	27.0	18.0	66.6	39.9 - 105	
SURR: Terphenyl-d14	27.0	19.1	70.6	30.7 - 106	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-08 File ID: SV525609.D
 Sampled: 03/31/21 12:45 Prepared: 04/05/21 08:06 Analyzed: 04/07/21 15:45
 Solids: Preparation: EPA 3510C Initial/Final: 950 mL / 1 mL
 Batch: BD10149 Sequence: Y1D0813 Calibration: YB10007 Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
83-32-9	Acenaphthene	1	0.0526	U
208-96-8	Acenaphthylene	1	0.0526	U
120-12-7	Anthracene	1	0.0526	U
56-55-3	Benzo(a)anthracene	1	0.0526	U
50-32-8	Benzo(a)pyrene	1	0.0526	U
205-99-2	Benzo(b)fluoranthene	1	0.0526	U
191-24-2	Benzo(g,h,i)perylene	1	0.0526	U
207-08-9	Benzo(k)fluoranthene	1	0.0526	U
218-01-9	Chrysene	1	0.0526	U
53-70-3	Dibenzo(a,h)anthracene	1	0.0526	U
206-44-0	Fluoranthene	1	0.0526	U
86-73-7	Fluorene	1	0.0526	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0526	U
91-20-3	Naphthalene	1	0.0526	U
85-01-8	Phenanthrene	1	0.0526	U
129-00-0	Pyrene	1	0.0526	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	26.3	21.5	81.6	50.2 - 113	
SURR: 2-Fluorobiphenyl	26.3	17.7	67.2	39.9 - 105	
SURR: Terphenyl-d14	26.3	20.1	76.4	30.7 - 106	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0004
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41548.00 CONSOLIDATED IRON
 Matrix: Water Laboratory ID: 21D0004-09 File ID: SV525610.D
 Sampled: 03/31/21 15:00 Prepared: 04/05/21 08:06 Analyzed: 04/07/21 16:19
 Solids: Preparation: EPA 3510C Initial/Final: 925 mL / 1 mL
 Batch: BD10149 Sequence: Y1D0813 Calibration: YB10007 Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
83-32-9	Acenaphthene	1	0.0541	U
208-96-8	Acenaphthylene	1	0.0541	U
120-12-7	Anthracene	1	0.0541	U
56-55-3	Benzo(a)anthracene	1	0.0541	U
50-32-8	Benzo(a)pyrene	1	0.0541	U
205-99-2	Benzo(b)fluoranthene	1	0.0541	U
191-24-2	Benzo(g,h,i)perylene	1	0.0541	U
207-08-9	Benzo(k)fluoranthene	1	0.0541	U
218-01-9	Chrysene	1	0.0541	U
53-70-3	Dibenzo(a,h)anthracene	1	0.0541	U
206-44-0	Fluoranthene	1	0.0541	U
86-73-7	Fluorene	1	0.0541	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0541	U
91-20-3	Naphthalene	1	3.25	
85-01-8	Phenanthrene	1	0.0541	U
129-00-0	Pyrene	1	0.0541	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	27.0	21.9	81.2	50.2 - 113	
SURR: 2-Fluorobiphenyl	27.0	17.9	66.3	39.9 - 105	
SURR: Terphenyl-d14	27.0	22.1	81.6	30.7 - 106	

* Values outside of QC limits

York Analytical Laboratories, Inc.

ASP A Deliverable

SDG: 21D0004

CLASS: METALS

METHOD: EPA 6020B

DATA PACKAGE COVER PAGE

EPA 6020B

Laboratory: York Analytical Laboratories, Inc.

SDG: 21D0004

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41548.00 CONSOLIDATED IRON

Client Sample Id:

CIM-MW-01 0321

CIM-MW-02 0321

CIM-MW-03 0321

CIM-MW-04 0321

CIM-MW-06 0321

CIM-MW-07 0321

CIM-MW-08 0321

CIM-MW-09 0321

CIM-FD-01 0321

Lab Sample Id:

21D0004-01

21D0004-02

21D0004-03

21D0004-04

21D0004-05

21D0004-06

21D0004-07

21D0004-08

21D0004-09

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature:



Name:

Benjamin Gulizia

Date:

4/26/2021

Title:

Laboratory Director

Laboratory: York Analytical Laboratories, Inc.SDG: 21D0004Client: Chazen Environmental Services (Poughkeepsie)Project: 41548.00 CONSOLIDATED IRONMatrix: WaterLaboratory ID: 21D0004-01File ID: QBIMX040721A-034Sampled: 03/31/21 09:47Prepared: 04/02/21 09:03Analyzed: 04/07/21 14:18Solids: 0.00Preparation: EPA 3015AInitial/Final: 45 mL / 50 mLBatch: BD10094Sequence: Y1D0736Calibration: UNASSIGNEDInstrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-92-1	Lead	1.11	1	U	EPA 6020B

Laboratory: York Analytical Laboratories, Inc.SDG: 21D0004Client: Chazen Environmental Services (Poughkeepsie)Project: 41548.00 CONSOLIDATED IRONMatrix: WaterLaboratory ID: 21D0004-02File ID: QBIMX040721A-037Sampled: 03/31/21 11:02Prepared: 04/02/21 09:03Analyzed: 04/07/21 14:28Solids: 0.00Preparation: EPA 3015AInitial/Final: 45 mL / 50 mLBatch: BD10094

Sequence:

Y1D0736Calibration: UNASSIGNEDInstrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	45.8	1		EPA 6020B
7439-92-1	Lead	1.11	1	U	EPA 6020B

Laboratory: York Analytical Laboratories, Inc.SDG: 21D0004Client: Chazen Environmental Services (Poughkeepsie)Project: 41548.00 CONSOLIDATED IRONMatrix: WaterLaboratory ID: 21D0004-03File ID: QBIMX040721A-038Sampled: 03/31/21 11:47Prepared: 04/02/21 09:03Analyzed: 04/07/21 14:32Solids: 0.00Preparation: EPA 3015AInitial/Final: 45 mL / 50 mLBatch: BD10094

Sequence:

Y1D0736Calibration: UNASSIGNEDInstrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-92-1	Lead	50.9	1		EPA 6020B

Laboratory: York Analytical Laboratories, Inc.SDG: 21D0004Client: Chazen Environmental Services (Poughkeepsie)Project: 41548.00 CONSOLIDATED IRONMatrix: WaterLaboratory ID: 21D0004-04File ID: QBIMX040721A-039Sampled: 03/31/21 15:26Prepared: 04/02/21 09:03Analyzed: 04/07/21 14:35Solids: 0.00Preparation: EPA 3015AInitial/Final: 45 mL / 50 mLBatch: BD10094

Sequence:

Y1D0736Calibration: UNASSIGNEDInstrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-92-1	Lead	1.11	1	U	EPA 6020B

Laboratory: York Analytical Laboratories, Inc.SDG: 21D0004Client: Chazen Environmental Services (Poughkeepsie)Project: 41548.00 CONSOLIDATED IRONMatrix: WaterLaboratory ID: 21D0004-05File ID: QBIMX040721A-040Sampled: 03/31/21 17:31Prepared: 04/02/21 09:03Analyzed: 04/07/21 14:39Solids: 0.00Preparation: EPA 3015AInitial/Final: 45 mL / 50 mLBatch: BD10094

Sequence:

Y1D0736Calibration: UNASSIGNEDInstrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-92-1	Lead	3.07	1		EPA 6020B

Laboratory: York Analytical Laboratories, Inc.SDG: 21D0004Client: Chazen Environmental Services (Poughkeepsie)Project: 41548.00 CONSOLIDATED IRONMatrix: WaterLaboratory ID: 21D0004-06File ID: QBIMX040721A-041Sampled: 03/31/21 14:15Prepared: 04/02/21 09:03Analyzed: 04/07/21 14:42Solids: 0.00Preparation: EPA 3015AInitial/Final: 45 mL / 50 mLBatch: BD10094

Sequence:

Y1D0736Calibration: UNASSIGNEDInstrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-92-1	Lead	17.2	1		EPA 6020B

Laboratory: York Analytical Laboratories, Inc.SDG: 21D0004Client: Chazen Environmental Services (Poughkeepsie)Project: 41548.00 CONSOLIDATED IRONMatrix: WaterLaboratory ID: 21D0004-07File ID: QBIMX040721A-044Sampled: 03/31/21 16:19Prepared: 04/02/21 09:03Analyzed: 04/07/21 14:52Solids: 0.00Preparation: EPA 3015AInitial/Final: 45 mL / 50 mLBatch: BD10094Sequence: Y1D0736Calibration: UNASSIGNEDInstrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-92-1	Lead	742	1		EPA 6020B

Laboratory: York Analytical Laboratories, Inc.SDG: 21D0004Client: Chazen Environmental Services (Poughkeepsie)Project: 41548.00 CONSOLIDATED IRONMatrix: WaterLaboratory ID: 21D0004-08File ID: QBIMX040721A-045Sampled: 03/31/21 12:45Prepared: 04/02/21 09:03Analyzed: 04/07/21 14:56Solids: 0.00Preparation: EPA 3015AInitial/Final: 45 mL / 50 mLBatch: BD10094

Sequence:

Y1D0736Calibration: UNASSIGNEDInstrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-92-1	Lead	1.11	1	U	EPA 6020B

Laboratory: York Analytical Laboratories, Inc.SDG: 21D0004Client: Chazen Environmental Services (Poughkeepsie)Project: 41548.00 CONSOLIDATED IRONMatrix: WaterLaboratory ID: 21D0004-09File ID: QBIMX040721A-046Sampled: 03/31/21 15:00Prepared: 04/02/21 09:03Analyzed: 04/07/21 14:59Solids: 0.00Preparation: EPA 3015AInitial/Final: 45 mL / 50 mLBatch: BD10094

Sequence:

Y1D0736Calibration: UNASSIGNEDInstrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-92-1	Lead	1.11	1	U	EPA 6020B



Technical Report

prepared for:

Chazen Environmental Services (Poughkeepsie)

21 Fox Street

Poughkeepsie NY, 12601

Attention: Eric Orlowski

Report Date: 04/21/2021

Client Project ID: 41548.00, Task 900 Consolidated Iron and Metal

York Project (SDG) No.: 21D0697

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 04/21/2021
Client Project ID: 41548.00, Task 900 Consolidated Iron and Metal
York Project (SDG) No.: 21D0697

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 April 14, 2021 and listed below. The project was identified as your project: **41548.00, Task 900 Consolidated Iron and Metal.**

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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21D0697-01	CIM-MW-03 0421	Water	04/13/2021	04/14/2021
21D0697-02	CIM-MW-07 0421	Water	04/13/2021	04/14/2021
21D0697-03	CIM-MW-08 0421	Water	04/13/2021	04/14/2021

General Notes for York Project (SDG) No.: 21D0697

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:



Benjamin Gulizia
Laboratory Director

Date: 04/21/2021



Sample Information

Client Sample ID: CIM-MW-03 0421

York Sample ID: **21D0697-01**

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0697

41548.00, Task 900 Consolidated Iron and Metal

Water

April 13, 2021 9:30 am

04/14/2021

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
83-32-9	Acenaphthene	0.0541	J	ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-12-7	Anthracene	0.0541	J	ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
56-55-3	Benzo(a)anthracene	0.0973		ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	0.0973		ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	0.0757		ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	0.0757		ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	0.0757		ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	Chrysene	0.108		ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	Fluoranthene	0.216		ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	0.0757		ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	0.0649		ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	Phenanthrene	0.184		ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
129-00-0	Pyrene	0.205		ug/L	0.0541	0.0541	1	EPA 8270D	04/16/2021 07:19	04/19/2021 17:29	CD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
	Surrogate Recoveries	Result		Acceptance Range							
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	71.6 %		50.2-113							
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	51.9 %		39.9-105							
1718-51-0	Surrogate: SURR: Terphenyl-d14	55.2 %		30.7-106							

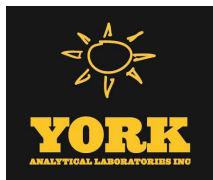
Lead by EPA 6010

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
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@		



Sample Information

Client Sample ID: CIM-MW-03 0421

York Sample ID: 21D0697-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0697

41548.00, Task 900 Consolidated Iron and Metal

Water

April 13, 2021 9:30 am

04/14/2021

Lead by EPA 6010

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	0.0576		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 11:12	04/20/2021 12:58	WJM

Lead, Dissolved by EPA 6010

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	0.0527		mg/L	0.00500	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/19/2021 09:50	04/20/2021 14:08	WJM

Sample Information

Client Sample ID: CIM-MW-07 0421

York Sample ID: 21D0697-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0697

41548.00, Task 900 Consolidated Iron and Metal

Water

April 13, 2021 10:14 am

04/14/2021

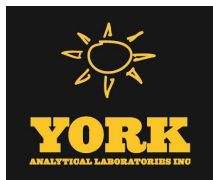
Semi-Volatiles, CP-51 (formerly STARS)-Low Level

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
83-32-9	Acenaphthene	0.454		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
120-12-7	Anthracene	0.0973		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD



Sample Information

Client Sample ID: CIM-MW-07 0421

York Sample ID: 21D0697-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0697

41548.00, Task 900 Consolidated Iron and Metal

Water

April 13, 2021 10:14 am

04/14/2021

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	0.270		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
86-73-7	Fluorene	0.314		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
85-01-8	Phenanthrene	0.692		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
129-00-0	Pyrene	0.249		ug/L	0.0541	0.0541	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/19/2021 18:03	CD
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	82.9 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	63.8 %	39.9-105								
1718-51-0	Surrogate: SURR: Terphenyl-d14	79.4 %	30.7-106								

Sample Information

Client Sample ID: CIM-MW-08 0421

York Sample ID: 21D0697-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0697

41548.00, Task 900 Consolidated Iron and Metal

Water

April 13, 2021 11:01 am

04/14/2021

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
83-32-9	Acenaphthene	0.0737		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
208-96-8	Acenaphthylene	0.0842		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
120-12-7	Anthracene	0.200		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
56-55-3	Benzo(a)anthracene	0.537		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
50-32-8	Benzo(a)pyrene	0.505		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
205-99-2	Benzo(b)fluoranthene	0.411		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
191-24-2	Benzo(g,h,i)perylene	0.368		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD



Sample Information

Client Sample ID: CIM-MW-08 0421

York Sample ID: 21D0697-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0697

41548.00, Task 900 Consolidated Iron and Metal

Water

April 13, 2021 11:01 am

04/14/2021

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
207-08-9	Benzo(k)fluoranthene	0.432		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
218-01-9	Chrysene	0.547		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
53-70-3	Dibenzo(a,h)anthracene	0.0842		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
206-44-0	Fluoranthene	1.20		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
86-73-7	Fluorene	0.105		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
193-39-5	Indeno(1,2,3-cd)pyrene	0.316		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
91-20-3	Naphthalene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
85-01-8	Phenanthrene	0.789		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
129-00-0	Pyrene	0.958		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 07:19	04/20/2021 16:10	CD
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	78.6 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	56.0 %	39.9-105								
1718-51-0	Surrogate: SURR: Terphenyl-d14	72.0 %	30.7-106								

Lead by EPA 6010

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	0.0451		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/16/2021 11:12	04/20/2021 13:08	WJM

Lead, Dissolved by EPA 6010

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	0.0395		mg/L	0.00500	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/19/2021 09:50	04/20/2021 14:12	WJM



Analytical Batch Summary

Batch ID: BD10898

Preparation Method: EPA 3510C

Prepared By: OC

YORK Sample ID	Client Sample ID	Preparation Date
21D0697-01	CIM-MW-03 0421	04/16/21
21D0697-02	CIM-MW-07 0421	04/16/21
21D0697-03	CIM-MW-08 0421	04/16/21
BD10898-BLK1	Blank	04/16/21
BD10898-BLK2	Blank	04/16/21
BD10898-BS1	LCS	04/16/21
BD10898-BS2	LCS	04/16/21
BD10898-BSD1	LCS Dup	04/16/21

Batch ID: BD10928

Preparation Method: EPA 3015A

Prepared By: SK

YORK Sample ID	Client Sample ID	Preparation Date
21D0697-01	CIM-MW-03 0421	04/16/21
21D0697-03	CIM-MW-08 0421	04/16/21
BD10928-BLK1	Blank	04/16/21
BD10928-BS1	LCS	04/16/21
BD10928-DUP1	Duplicate	04/16/21
BD10928-MS1	Matrix Spike	04/16/21
BD10928-PS1	Post Spike	04/16/21

Batch ID: BD10983

Preparation Method: EPA 3015A

Prepared By: OT

YORK Sample ID	Client Sample ID	Preparation Date
21D0697-01	CIM-MW-03 0421	04/19/21
21D0697-03	CIM-MW-08 0421	04/19/21
BD10983-BLK1	Blank	04/19/21
BD10983-BS1	LCS	04/19/21
BD10983-DUP1	Duplicate	04/19/21
BD10983-MS1	Matrix Spike	04/19/21
BD10983-PS1	Post Spike	04/19/21



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
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Batch BD10898 - EPA 3510C

Blank (BD10898-BLK1)

Prepared: 04/16/2021 Analyzed: 04/19/2021

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	15.9		"	25.0		63.5	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	14.7		"	25.0		58.9	39.9-105				
Surrogate: SURR: Terphenyl-d14	24.0		"	25.0		96.0	30.7-106				

Blank (BD10898-BLK2)

Prepared: 04/16/2021 Analyzed: 04/19/2021

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
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Batch BD10898 - EPA 3510C

LCS (BD10898-BS1)

Prepared: 04/16/2021 Analyzed: 04/19/2021

Acenaphthene	11.1	0.0500	ug/L	25.0		44.3	24-114				
Acenaphthylene	11.4	0.0500	"	25.0		45.5	26-112				
Anthracene	13.1	0.0500	"	25.0		52.2	35-114				
Benzo(a)anthracene	13.3	0.0500	"	25.0		53.0	38-127				
Benzo(a)pyrene	15.0	0.0500	"	25.0		60.1	30-146				
Benzo(b)fluoranthene	14.0	0.0500	"	25.0		56.0	36-145				
Benzo(g,h,i)perylene	14.4	0.0500	"	25.0		57.7	10-163				
Benzo(k)fluoranthene	13.3	0.0500	"	25.0		53.0	16-149				
Chrysene	12.2	0.0500	"	25.0		48.8	33-120				
Dibenzo(a,h)anthracene	13.7	0.0500	"	25.0		54.8	10-149				
Fluoranthene	13.6	0.0500	"	25.0		54.2	33-126				
Fluorene	11.9	0.0500	"	25.0		47.6	28-117				
Indeno(1,2,3-cd)pyrene	16.8	0.0500	"	25.0		67.4	10-150				
Naphthalene	12.0	0.0500	"	25.0		48.2	30-99				
Phenanthrene	12.3	0.0500	"	25.0		49.3	31-112				
Pyrene	11.6	0.0500	"	25.0		46.6	42-125				
Surrogate: SURR: Nitrobenzene-d5	14.3		"	25.0		57.4	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	10.8		"	25.0		43.4	39.9-105				
Surrogate: SURR: Terphenyl-d14	14.0		"	25.0		55.9	30.7-106				

LCS (BD10898-BS2)

Prepared: 04/16/2021 Analyzed: 04/19/2021

Acenaphthene	0.720	0.0500	ug/L	1.00		72.0	24-114				
Acenaphthylene	0.750	0.0500	"	1.00		75.0	26-112				
Anthracene	0.730	0.0500	"	1.00		73.0	35-114				
Benzo(a)anthracene	0.780	0.0500	"	1.00		78.0	38-127				
Benzo(a)pyrene	0.660	0.0500	"	1.00		66.0	30-146				
Benzo(b)fluoranthene	0.770	0.0500	"	1.00		77.0	36-145				
Benzo(g,h,i)perylene	0.940	0.0500	"	1.00		94.0	10-163				
Benzo(k)fluoranthene	0.710	0.0500	"	1.00		71.0	16-149				
Chrysene	0.810	0.0500	"	1.00		81.0	33-120				
Dibenzo(a,h)anthracene	0.850	0.0500	"	1.00		85.0	10-149				
Fluoranthene	0.810	0.0500	"	1.00		81.0	33-126				
Fluorene	0.780	0.0500	"	1.00		78.0	28-117				
Indeno(1,2,3-cd)pyrene	0.850	0.0500	"	1.00		85.0	10-150				
Naphthalene	0.730	0.0500	"	1.00		73.0	30-99				
Phenanthrene	0.770	0.0500	"	1.00		77.0	31-112				
Pyrene	0.770	0.0500	"	1.00		77.0	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				



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
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Batch BD10898 - EPA 3510C

LCS Dup (BD10898-BSD1)

Prepared: 04/16/2021 Analyzed: 04/19/2021

Acenaphthene	17.6	0.0500	ug/L	25.0		70.3	24-114		45.3	20	Non-dir.
Acenaphthylene	19.0	0.0500	"	25.0		76.2	26-112		50.4	20	Non-dir.
Anthracene	19.2	0.0500	"	25.0		76.6	35-114		37.8	20	Non-dir.
Benzo(a)anthracene	21.5	0.0500	"	25.0		85.8	38-127		47.2	20	Non-dir.
Benzo(a)pyrene	25.1	0.0500	"	25.0		100	30-146		50.0	20	Non-dir.
Benzo(b)fluoranthene	21.7	0.0500	"	25.0		86.7	36-145		43.0	20	Non-dir.
Benzo(g,h,i)perylene	23.2	0.0500	"	25.0		92.6	10-163		46.4	20	Non-dir.
Benzo(k)fluoranthene	20.1	0.0500	"	25.0		80.2	16-149		40.8	20	Non-dir.
Chrysene	19.8	0.0500	"	25.0		79.2	33-120		47.6	20	Non-dir.
Dibenzo(a,h)anthracene	21.9	0.0500	"	25.0		87.6	10-149		46.0	20	Non-dir.
Fluoranthene	21.1	0.0500	"	25.0		84.3	33-126		43.4	20	Non-dir.
Fluorene	19.3	0.0500	"	25.0		77.3	28-117		47.5	20	Non-dir.
Indeno(1,2,3-cd)pyrene	27.2	0.0500	"	25.0		109	10-150		47.1	20	Non-dir.
Naphthalene	18.0	0.0500	"	25.0		72.2	30-99		39.9	20	Non-dir.
Phenanthrene	19.0	0.0500	"	25.0		75.8	31-112		42.4	20	Non-dir.
Pyrene	19.0	0.0500	"	25.0		76.2	42-125		48.2	20	Non-dir.
Surrogate: SURR: Nitrobenzene-d5	21.4		"	25.0		85.8	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	18.0		"	25.0		72.0	39.9-105				
Surrogate: SURR: Terphenyl-d14	22.6		"	25.0		90.4	30.7-106				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BD10928 - EPA 3015A

Blank (BD10928-BLK1)											Prepared: 04/16/2021 Analyzed: 04/20/2021
Lead	ND	0.00556	mg/L								
LCS (BD10928-BS1)											Prepared: 04/16/2021 Analyzed: 04/20/2021
Lead	0.527		ug/mL	0.500		105	80-120				
Duplicate (BD10928-DUP1)											Prepared: 04/16/2021 Analyzed: 04/20/2021
Lead	ND	0.00556	mg/L		ND					20	
Matrix Spike (BD10928-MS1)											Prepared: 04/16/2021 Analyzed: 04/20/2021
Lead	0.526	0.00556	mg/L	0.556	ND	94.7	75-125				
Post Spike (BD10928-PS1)											Prepared: 04/16/2021 Analyzed: 04/20/2021
Lead	0.539		ug/mL	0.500	-0.00251	108	75-125				

Batch BD10983 - EPA 3015A

Blank (BD10983-BLK1)											Prepared: 04/19/2021 Analyzed: 04/20/2021
Lead - Dissolved	ND	0.00500	mg/L								
LCS (BD10983-BS1)											Prepared: 04/19/2021 Analyzed: 04/20/2021
Lead - Dissolved	0.578		ug/mL	0.500		116	80-120				
Duplicate (BD10983-DUP1)											Prepared: 04/19/2021 Analyzed: 04/20/2021
Lead - Dissolved	0.0412	0.00500	mg/L		0.0395				4.17	20	
Matrix Spike (BD10983-MS1)											Prepared: 04/19/2021 Analyzed: 04/20/2021
Lead - Dissolved	0.570	0.00500	mg/L	0.500	0.0395	106	75-125				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BD10983 - EPA 3015A

Post Spike (BD10983-PS1)

*Source sample: 21D0697-03 (CIM-MW-08 0421)

Prepared: 04/19/2021 Analyzed: 04/20/2021

Lead - Dissolved	0.579		ug/mL	0.500	0.0356	109	75-125				
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Sample and Data Qualifiers Relating to This Work Order

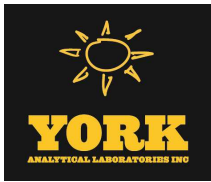
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-SRD1	The serial dilution for this element was outside control limits.
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.

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.



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Field Chain-of-Custody Record

YORK Project No.

21D01097

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.

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