

CONNECTICUT SITING COUNCIL

THE UNITED ILLUMINATING COMPANY : CONNECTICUT SITING COUNCIL
APPLICATION FOR A CERTIFICATE OF : DOCKET NO. 516
ENVIRONMENTAL COMPATIBILITY AND :
PUBLIC NEED FOR THE FAIRFIELD TO :
CONGRESS RAILROAD TRANSMISSION :
LINE 115-KV REBUILD PROJECT : NOVEMBER 2, 2023

PRE-FILED TESTIMONY OF ROBERT LAMONICA

Q. Please state your name, relation to the intervenor, and business address.

A. My name is Robert Lamonica. I am a Principal Consultant with GZA GeoEnvironmental, Inc. My business address is 35 Nutmeg Drive, Suite 325, Trumbull, Connecticut, 06611.

Q. Please provide a brief description of your education, work experience, and any licenses or certifications you hold.

A. I have a Bachelor's degree in Geology from SUNY Cortland. I have over 45 years of experience in the investigation and remediation of soil and groundwater contamination as well as groundwater supply development. I have been involved in numerous Superfund sites as well as hazardous waste sites both in Connecticut and throughout the United States. I have served as an expert witness in numerous cases as well, providing testimony in Federal and State courts and various commissions. I am currently a Licensed Environmental Professional in Connecticut and have been since 1996.

Q. What is the purpose of your testimony in this proceeding?

A. The purpose of my testimony is to introduce and describe to the Connecticut Siting Council the environmental issues associated with the proposed location of an approximately 120-foot utility pole (“Tower”) included within the United Illuminating Company’s (“UI”) Project plans on Superior Plating Company’s (“Superior”) property located at 2500 Post Road, Fairfield, Connecticut (“Property”).

Q. Could you explain the environmental issues associated with the Property?

A. I have been involved with this Property since 2006. As its name indicates, Superior plates metal at this facility and has done so for over 70 years. Consistent with the history of the operations at this site, and the use of hexavalent chromium and nickel in Superior’s plating operations, there was historical contamination that occurred several decades ago on the Property. Specifically, plating liquids containing hexavalent chromium had entered subsurface soil and groundwater beneath the Property through cracks in the floor of Superior’s building and through subsurface ventilation tunnels and piping.

On March 12, 1982, the Town of Fairfield informed Superior that the Town had observed suspected chromium contaminated groundwater from the Property seeping into the Mill Pond section of the Mill River. A series of orders were issued by the Connecticut Department of Environmental Protection (now the Connecticut Department of Energy and Environmental Protection, and herein after described as the “Department”) to Superior beginning in 1988. The most recent order is a Consent Order, agreed to between Superior and the Department, that was issued on January 18, 2016. A copy of this Consent Order is attached hereto as **Exhibit A**.

Q. Briefly describe what improvements Superior made to its operations as a result of the discovery of this contamination.

A. As indicated in Exhibit A, in 1982, Superior installed a groundwater recovery trench system to help stop the flow of contaminated groundwater to the Mill River. From 1982-1990, Superior upgraded its manufacturing operations to prevent further discharges of plating compounds to the environment. In 1990, Superior made modifications to its wastewater treatment system before discharging the treated wastewater to the municipal sanitary sewer system under a NPDES permit. In 2000, Superior installed new linings on its deep sump chrome tanks to better prevent degradation of the tanks, and then followed that up with lining all of its plating line sumps to prevent further degradation.

Q. What did Superior do to remediate the existing contamination in the groundwater?

A. Remediating dissolved metals from groundwater is a time-consuming process that often takes decades to complete. Superior was committed to doing this and submitted plans to the Department to install and operate a hydraulic containment system (the "System") for the groundwater on the Superior Property. The purpose of this System was to intercept and collect contaminated groundwater flowing from the Property before discharging to the Mill River. The collected groundwater would then be directed to Superior's wastewater treatment system where any contaminants would be removed, and the remaining effluent would be discharged to the local wastewater treatment plant under a NPDES permit. The plans for the System were approved by the Department in 2006.

In 2008, Superior installed eight bedrock extraction wells as part of this System, which would extract the groundwater as described in the paragraph above. The System was operational

by July of 2009 and has operated since that time. In 2012, Superior added two additional wells to enhance the performance of the System. In 2020, Superior installed two additional wells east of the building to improve containment of the groundwater plume in this area.

Q. Could you tell us more about the Consent Order and what engineering controls are present on the Property?

A. As further explained in the Consent Order, the earliest order for this Property was issued on June 17, 1988, and it required that Superior install additional wastewater treatment facilities on the Property, investigate the source, extent, and degree of groundwater, surface water, and soil contamination resulting from the seepage of hexavalent chromium to the ground, take any necessary remedial actions required by the Department, and implement a groundwater monitoring program.

Since 1982, Superior had used a groundwater recovery trench system to prevent migration of contaminated groundwater from discharging into the Mill River, and in 1990, Superior updated and modified its wastewater treatment system, as approved by the Department. Between 1998-2000, Superior also modified its internal operations to prevent degradation of their infrastructure and to mitigate any potential seepage from sumps to subsurface soils.

In 2006, the Department approved the installation and operation of a hydraulic containment system (“System”) to prevent the migration of chromium contaminated groundwater from discharging in an East/Northeast direction to the Mill River and from impacting the sediments in the Mill River. In 2008, Superior installed eight (8) bedrock groundwater extraction wells as part of the System. The System began operation in 2009 and has been operated continuously since then, with the exception between November 26, 2009 and December 13, 2010, when the System was

shut down as a result of a fire in the building that housed the System's equipment and in August 2020 due to loss of electrical power as a result of Tropical Storm Isias.

In 2012, Superior installed two additional wells and connected these wells to the System. In 2020, Superior added another two wells to the System. Overall, the System consists of: (1) a recovery trench with an associated pump and piping system; (2) twelve (12) containment wells equipped with jet pump assemblies connected by below grade header piping to the System; (3) transfer pumps and holding tanks; and (4) the water treatment system.

Groundwater from the recovery trench and the containment wells is directed to the water treatment system where the hexavalent chromium is converted to trivalent chromium (its less toxic chemical form). The chromium is then precipitated from the water and transported off-site as hazardous waste. The treated groundwater is discharged to the sanitary sewer under a Department NPDES permit to discharge wastewater to a publicly owned treatment work.

In November 2021, Superior initiated a pilot testing program to evaluate the effectiveness of injecting a lime-sulfur solution into the subsurface to further reduce the mass of hexavalent chromium in the groundwater beneath the Property. The initial injection program was completed between November 1 and 24, 2021 and a second injection program was completed between January 11, 2023 through March 7, 2023.

Q. Has the System generally been successful in mitigating contamination to the Mill River?

A. Yes, it has. The Property is located on a bedrock promontory overlooking the Mill River. There is limited groundwater flow within overburden materials on the Property, and the majority of groundwater flows within a shallow, approximately two (2) to six (6) foot thick fracture zone in the bedrock. Absent the System, groundwater from the Property flows to the east/northeast and

discharges to the Mill River. Since operation of the System was initiated, the overall general long-term trends in concentrations of chromium in the groundwater beneath the Property are decreasing. In addition, during the temporary System shutdown from 2009-2010, contaminant levels were observed to increase in the Mill River which provided another line of evidence demonstrating the effectiveness of the System.

Q. Are there other requirements in the Consent Order?

A. Yes. In addition to maintaining operation of the System, Superior is required to sample groundwater on the Property and surface water and sediments in the vicinity of the Property according to a workplan that was approved by the Department. If the monitoring results collected by Superior “indicated that the previously approved remediation systems are not functioning effectively and protecting the Mill River,” Superior must notify the Department within five days of such results. In addition, if the System does not result in the prevention and abatement of contamination to the Department’s satisfaction, the Department has the ability to demand additional plans and remedial measures. Finally, Superior must submit annual reports to the Department evaluating the performance and effectiveness of the System and documenting any maintenance work performed on the System and/or temporary shutdowns of the System. A copy of the most recent Monitoring Report that was submitted to the Department, dated March, 2023, is attached hereto as **Exhibit B**.

Q. Since entering into the Consent Order, has Superior ever been required to make a notification within five days that the system is not functioning properly and protecting the Mill River?

A. No.

Q. Since entering into the Consent Order, has the Department ever demanded additional plans and remedial measures from Superior?

A. No.

Q. What would happen if the System had to be shut off during the Tower installation?

A. The System operates continuously to mitigate the discharge of contaminated groundwater to the Mill River. As I stated earlier, we know that the bedrock has extensive fracturing in the upper surface of the bedrock through which contaminated groundwater is likely to migrate directly into the Mill River. This was observed during the 2009-2010 shut down and would likely happen again.

Q. Might there be other impacts associated with the Tower installation?

A. In full candor, the flow of groundwater through bedrock is complex and is controlled by the density and orientation of the bedrock fractures and we cannot be certain what impacts will be associated with excavating a seven-foot wide pier into bedrock on the Property. To our knowledge, there have been no environmental tests or geotechnical work associated with the Tower's installation that would allow us, or any other entity, to evaluate the potential environmental risks associated with the Tower's installation.

Q. How do you think the Tower will affect the subsurface groundwater plume and the operation of the System?

A. As indicated above, bedrock groundwater flow is complex and difficult to predict. Bedrock is approximately 10 feet deep in the proposed Tower location and the upper portions of the bedrock in other portions of the Property have been observed to be fractured. However, given that UI intends to excavate footings for the foundation for the Tower to twenty-three (23) feet below grade, UI will excavate into that bedrock. Even if UI intends to core instead of “excavate”, the impact to the groundwater plume would be unknown.

These activities could create additional fractures in the bedrock through which groundwater could migrate or flow in a different pathway that may reduce the effectiveness of the System and result in discharges of contaminated groundwater to the Mill River. Although we cannot definitively say whether the installation of the Tower will affect the performance of the System and cause a discharge of contaminated groundwater to the Mill River, if it did so, the consequences would be dire, and the Department would likely require additional mitigation measures including potential removal of the previously remediated sediments.

Q. When did you first become aware of the Project?

A. UI had attempted to perform a geotechnical exploration on the Property in late 2022. The exploration was not performed, and Superior recommended that UI contact GZA to discuss the environmental issues on the Property. UI contacted GZA on December 1, 2022. I am not aware whether Superior has been contacted since. It is our understanding that UI has not conducted any independent testing associated with the proposed Tower location or its environmental impacts to the groundwater beneath this Property.

Q. What is this contaminant hexavalent chromium? What are the health hazards associated with this chemical?

A. The Environmental Protection Agency (“EPA”) has reported that studies have indicated that continued exposure to hexavalent chromium, or chromium-6, could result in allergic dermatitis and although “[c]arcinogenicity by the oral route of exposure cannot be determined[,]” chromium-6 is classified as a “Group A - known human carcinogen by the inhalation route of exposure. For further information related to the health effects of hexavalent chromium, please see https://cfpub.epa.gov/ncea/iris2/chemicalLanding.cfm?substance_nmbr=144.

Q. Do you know of any other environmental contamination within the vicinity of this Property?

A. Yes, I do. There is a Superfund site located at 2190 Post Road, Fairfield, Connecticut, known as The Exide Corporation (“Exide”) site, that has been remediated to abate lead contamination. It is our understanding that there was lead contamination in the sediments in the Mill River. As a result, Exide previously dredged substantial portions of the Mill River to address those lead-containing sediments. Because the sediments in the Mill River have been successfully remediated from such contamination, the Department has been understandably concerned that no further contamination reach the Mill River. That is one of the key purposes of the System that was installed by Superior.

Q. Does this conclude your testimony?

A. Yes, it does.

EXHIBIT A



79 Elm Street • Hartford, CT 06106-5127

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Affirmative Action/Equal Opportunity Employer

STATE OF CONNECTICUT
V.
SUPERIOR PLATING COMPANY

I certify that this document is a true copy of a record
(original or photocopy, whichever is applicable)
on file at the Department of Energy and Environmental Protection.
[Signature]
Signature of (You) (He), Department of Energy and Environmental Protection

CONSENT ORDER

- A. With the agreement of Superior Plating Company, ("Respondent"), the Commissioner of Energy and Environmental Protection ("the Commissioner") finds:
1. Respondent is a corporation which is or has been engaged in metal plating at 2500 Post Road (mailing address 2 Lacey Place), in Fairfield, Connecticut ("the site"), more fully described in a deed which is recorded at page 568 of volume 338 of the Fairfield land records, also identified as Lot #37 on Map #229 in the Fairfield Tax Assessor's office.
 2. In the past, plating liquids had entered the subsurface through cracks in the floor of the Respondent's building and associated ventilation tunnels.
 3. On March 12, 1982, the Town of Fairfield informed the Respondent that they had observed suspected chromium contaminated groundwater from the site seeping into the Mill Pond section of the Mill River. The Respondent confirmed that the seepage contained 800 parts per million of hexavalent chromium.
 4. By virtue of the above, Respondent had polluted the waters of the State and had maintained a discharge to the waters of the State without obtaining a permit as required by section 22a-430 of the Connecticut General Statutes.
 5. On June 17, 1988, the Commissioner issued Order No. WC 4708 to the Respondent which required Respondent to:
 - (a) Install additional wastewater treatment facilities at the Site to protect against pollution to the waters of the State;
 - (b) Investigate the source, extent, and degree of groundwater, surface water, and soil contamination resulting from the seepage of hexavalent chromium to the ground;
 - (c) Take necessary remedial actions, as required by the Commissioner, to minimize or eliminate such contamination;
 - (d) Implement a groundwater monitoring program to document that the remedial actions implemented have minimized or eliminated the contamination to the

satisfaction of the Commissioner.

6. On August 7, 1990, Stipulated Judgment No. CV-89-0355556 S was issued by a Connecticut Superior Court requiring the Respondent to:
 - (a) Permanently remediate or replace the ventilation tunnel system to the satisfaction of the Commissioner;
 - (b) Implement the proposed modifications to the Wastewater Treatment System as approved by the Commissioner and ensure that all applicable effluent limitations are being met; and
 - (c) Prepare a comprehensive hydrogeologic and engineering report which defines the source, extent, and degree of groundwater, surface water, sediment and soil contamination and implement, as necessary, a specific remedial action program and water quality monitoring program acceptable to the Commissioner;
7. In 1982, Respondent installed a groundwater recovery trench system to mitigate the migration of contaminated groundwater from discharging into the Mill River and initiated repairs to the facility, including the ventilation tunnels, wastewater treatment system, and the building foundation and floors. In 1990, Respondent modified the Wastewater Treatment System, as approved by the Commissioner.
8. In 1998, Respondent replaced the ventilation tunnel with a roof level exhaust system. In 2000, Respondent relined the deep sump that holds the chrome tanks with titanium to prevent degradation due to contact with chromic acid. Between 2005 and 2009 Respondent lined all of its plating line sumps with titanium to prevent degradation due to contact with chromic acid and mitigate any seepage from the sumps to the subsurface.
9. In 2006, the Commissioner approved the installation and operation of an hydraulic containment system to prevent the migration of chromium contaminated groundwater from discharging into the Mill River. In 2008, Respondent installed eight bedrock groundwater extraction wells as part of the hydraulic containment system. Operation of the hydraulic containment system started in July 2009 and has operated continuously since then, with the exception of the time period between November 26, 2009 and December 13, 2010 when the system was shut down as a result of a fire in the building that housed the system equipment. In 2012, the Respondent installed two additional wells and connected these wells to the operating hydraulic containment system.
10. This consent order is limited to the contamination in groundwater at the Site and does not address other potential contamination on site.

B. With the agreement of Respondent, the Commissioner, acting under §22a-430, §22a-431, and §22a-432 of the Connecticut General Statutes, orders Respondent as follows:

1. For the purpose of this Consent Order, the Department acknowledges that Respondent has retained GZA GeoEnvironmental, Inc., a qualified consultant acceptable to the

Commissioner, to prepare the documents and implement or oversee the actions required by this Consent Order. Respondent shall retain one or more qualified consultants acceptable to the Commissioner until this consent order is fully complied with, and, within ten days after retaining any consultant other than one currently working at the site, Respondent shall notify the Commissioner in writing of the identity of such other consultant.

2. Operations, Maintenance, and Monitoring

(a) Operations, Maintenance, and Monitoring Plan

Within 90 days from the issuance of this consent order, Respondent shall submit for the Commissioner's review and written approval an operations, maintenance, and monitoring plan for groundwater remediation. Such plan shall include, at a minimum:

- (1) a plan to continue the operation and maintenance of the previously approved groundwater recovery trench system;
- (2) a plan to continue the operation and maintenance of the groundwater containment system approved by the Commissioner in 2006;
- (3) a plan for ground water monitoring to determine the degree to which the approved remedial actions have been effective;
- (4) the proposed location(s) and depth(s) of sediment, and surface water sampling for the area downgradient of the existing recovery trench and containment system (the sampling shall be initiated following the completion of the Mill River sediment dredging project that is being completed by another party);
- (5) a proposed sampling and analytical program, including at least the parameters to be tested, sampling and analytical methods, and quality assurance and quality control procedures; and
- (6) a schedule for performing the approved monitoring program. The schedule shall also include a date by which the report required by paragraph B.2.(b) of this consent order will be submitted to the Commissioner.

(b) Monitoring and Reporting

- (1) Respondent shall perform the operations, maintenance, and monitoring program approved pursuant to paragraph B.2.(a) of this consent order to determine the effectiveness of the remedial actions. Such monitoring shall be conducted in accordance with the schedule approved pursuant to paragraph B.2.(a) of this consent order.
- (2) If monitoring results indicate that the previously approved remediation systems are not functioning effectively and protecting the Mill River,

Respondent must notify the Department within five (5) days of obtaining such results.

(3) On a schedule approved by the Commissioner in writing, or, if no such schedule is approved, on an annual basis beginning no later than 90 days after approval of the Operations, Maintenance, and Monitoring Plan, Respondent shall submit for the Commissioner's review and written approval an Operations, Maintenance, and Monitoring Report describing the results of the operation, maintenance, and monitoring program pursuant to paragraph B.2.(a) of this consent order during that reporting period.

(c) Additional remedial actions, measures and reporting.

If the approved remedial actions do not result in the prevention and abatement of soil, surface water and ground water pollution to the satisfaction of the Commissioner, additional remedial actions, measures for monitoring and reporting on the effectiveness of those actions shall be performed in accordance with a supplemental plan and schedule approved in writing by the Commissioner. Unless otherwise specified in writing by the Commissioner, the supplemental plan and schedule shall be submitted for the Commissioner's review and written approval on or before 30 days after receiving notice from the Commissioner or after notifying the Commissioner that remedial measures are not adequately protecting the Mill River pursuant to paragraph B.2.(b) of this consent order.

In addition, if Respondent elects to implement additional remedial technologies, Respondent shall submit a supplemental remedial action plan to the Department for review and approval.

(d) On a schedule established by the Commissioner or, if no such schedule is established, on a quarterly basis beginning no later than ninety days after initiation of the approved remedial actions or, as applicable, supplemental remedial actions, Respondent shall submit for the Commissioner's review and written approval, a report describing the results to date of the monitoring program to determine the effectiveness of the additional remedial actions referenced in B.2(c) above.

(e) Respondent may request that the Commissioner approve, in writing, revisions to any document approved hereunder in order to make such document consistent with law or for any other appropriate reason.

(f) Permits.

(1) On or before 90 days after the Commissioner has approved any remedial action plan, pursuant to paragraph B.2(c) of this consent order, the Respondent shall apply for all permits that are necessary to carry out the remedial action approved by the Commissioner.

(2) Respondent shall ensure that such applications are complete and shall diligently pursue the issuance of such permits. Should the Commissioner

request additional information as part of the permit review and evaluation process, such information shall be submitted on or before 30 days of receiving a written request from the Commissioner.

(g) Notice.

On or before 10 days after receipt of any required permit or approval, Respondent shall submit to the Commissioner notice of receiving such permit or approval, and shall, upon the Commissioner's written request, submit a copy of such permit.

3. Progress reports: Annually and continuing until all actions required by this consent order have been completed as approved and to the Commissioner's satisfaction, Respondent shall submit a progress report to the Commissioner describing the actions which Respondent has taken to date to comply with this consent order.
4. Full compliance. Respondent shall not be considered in full compliance with this consent order until all actions required by this consent order have been completed as approved and to the Commissioner's satisfaction.
5. Sampling. All sampling shall be performed in accordance with procedures specified or approved in writing by the Commissioner, or, if no such procedures have been specified or approved, in accordance with most recent final version of the EPA publication SW-846, entitled "*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,*" the most recent final version of the Department's "*Site Characterization Guidance Document,*" and relevant policies and guidelines issued by the Commissioner.
6. Sample analyses. All sample analyses which are required by this consent order and all reporting of such sample analyses shall be conducted by a laboratory certified by the Connecticut Department of Public Health and approved to conduct such analyses.

The Reasonable Confidence Protocols shall be used when there is a method published by Department. In all cases where the Reasonable Confidence Protocol method is used, a properly completed laboratory QA/QC certification form, certified by the laboratory must be provided to the Commissioner with the analytical data.

In cases where a Reasonable Confidence Protocol method has not been published, the analytical data shall be generated using a method approved by the Commissioner, such method shall include and report a level of quality control and documentation equivalent to the Reasonable Confidence Protocols.

The reporting limit shall be established consistent with the Reasonable Confidence Protocols and standard industrial and laboratory practices. The Reporting Limit shall not be set at levels greater than those used in such standard practices, as determined by the Commissioner, in consultation with the Commissioner of Public Health and in no case shall be greater than the Applicable Criteria or Background Concentration established in 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies. The Reporting Limit for a given sample shall be corrected for specific sample weight or volume, and dilutions, and, for soil and sediment samples moisture

content (reported as dry weight).

7. Approvals. Respondent shall use best efforts to submit to the Commissioner all documents required by this consent order in a complete and approvable form. If the Commissioner notifies Respondent that any document or other action is deficient, and does not approve it with conditions or modifications, it is deemed disapproved, and Respondent shall correct the deficiencies and resubmit it within the time specified by the Commissioner or, if no time is specified by the Commissioner, within 30 days of the Commissioner's notice of deficiencies. In approving any document or other action under this consent order, the Commissioner may approve the document or other action as submitted or performed or with such conditions or modifications as the Commissioner deems necessary to carry out the purposes of this consent order. Nothing in this paragraph shall excuse noncompliance or delay.
8. Definitions. As used in this consent order, "Commissioner" means the Commissioner or a representative of the Commissioner. The date of "issuance" of this consent order is the date the consent order is deposited in the U.S. mail or personally delivered, whichever is earlier.
9. Dates. The date of submission to the Commissioner of any document required by this consent order shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this consent order, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is deposited in the U.S. mail or is personally delivered, whichever is earlier. Except as otherwise specified in this consent order, the word "day" as used in this consent order means calendar day. Any document or action which is required by this consent order to be submitted or performed by a date which falls on a Saturday, Sunday or a Connecticut or federal holiday shall be submitted or performed by the next day which is not a Saturday, Sunday or Connecticut or federal holiday.
10. Certification of documents. Any document, including but not limited to any notice, which is required to be submitted to the Commissioner under this consent order shall be signed by Respondent or, if Respondent is not an individual, by Respondent's chief executive officer or a duly authorized representative of such officer, as those terms are defined in §22a-430-3(b)(2) of the Regulations of Connecticut State Agencies, and by the individual(s) responsible for actually preparing such document, and Respondent or Respondent's chief executive officer and each such individual shall certify in writing as follows:

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information is punishable as a criminal offense under §53a-157b of the Connecticut General Statutes and any other applicable law."

11. Noncompliance. This consent order is a final order of the Commissioner with respect to the matters addressed herein, and is nonappealable and immediately enforceable. Failure to comply with this consent order may subject Respondent to an injunction and penalties.
12. False statements. Any false statement in any information submitted pursuant to this consent order is punishable as a criminal offense under §53a-157b of the Connecticut General Statutes and any other applicable law.
13. Notice of transfer; liability of Respondent. Until Respondent has fully complied with this consent order, Respondent shall notify the Commissioner in writing no later than 15 days after transferring all or any portion of the facility, the operations, the site or the business which is the subject of this consent order or after obtaining a new mailing or location address. Respondent's obligations under this consent order shall not be affected by the passage of title to any property to any other person or municipality.
14. Commissioner's powers. Nothing in this consent order shall affect the Commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, recover costs and natural resource damages, and to impose penalties for past, present, or future violations of law. If at any time the Commissioner determines that the actions taken by Respondent pursuant to this consent order have not successfully corrected all violations, fully characterized the extent or degree of any pollution, or successfully abated or prevented pollution, the Commissioner may institute any proceeding to require Respondent to undertake further investigation or further action to prevent or abate violations or pollution.
15. Respondent's obligations under law. Nothing in this consent order shall relieve Respondent of other obligations under applicable federal, state and local law.
16. No assurance by Commissioner. No provision of this consent order and no action or inaction by the Commissioner shall be construed to constitute an assurance by the Commissioner that the actions taken by Respondent pursuant to this consent order will result in compliance [or prevent or abate pollution].
17. Access to site. Any representative of the Department of Energy and Environmental Protection may enter the site without prior notice for the purposes of monitoring and

enforcing the actions required or allowed by this consent order.

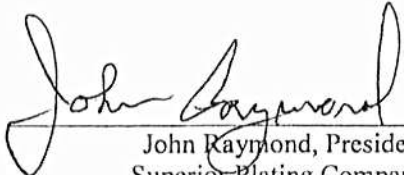
18. No effect on rights of other persons. This consent order neither creates nor affects any rights of persons or municipalities that are not parties to this consent order.
19. Notice to Commissioner of changes. Within 15 days of the date Respondent becomes aware of a change in any information submitted to the Commissioner under this consent order, or that any such information was inaccurate or misleading or that any relevant information was omitted, Respondent shall submit the correct or omitted information to the Commissioner.
20. Notification of noncompliance. In the event that Respondent becomes aware that it did not or may not comply, or did not or may not comply on time, with any requirement of this consent order or of any document required hereunder, Respondent shall immediately notify by telephone the individual identified in the next paragraph and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. Within five (5) days of the initial notice, Respondent shall submit in writing the date, time, and duration of the noncompliance and the reasons for the noncompliance or delay and propose, for the review and written approval of the Commissioner, dates by which compliance will be achieved, and Respondent shall comply with any dates which may be approved in writing by the Commissioner. Notification by Respondent shall not excuse noncompliance or delay, and the Commissioner's approval of any compliance dates proposed shall not excuse noncompliance or delay unless specifically so stated by the Commissioner in writing.
21. Submission of documents. Any document required to be submitted to the Commissioner under this consent order shall, unless otherwise specified in this consent order or in writing by the Commissioner, be directed to:

Carolyn Fusaro
Department of Energy and Environmental Protection
Bureau of Water Protection and Land Reuse
Remediation Division
79 Elm Street
Hartford, Connecticut 06106-5127

Respondent consents to the issuance of this consent order without further notice. The undersigned certifies that he/she is fully authorized to enter into this consent order and to legally bind the Respondent to the terms and conditions of the consent order.


RESPONDENT

10/16/15
Date


John Raymond, President
Superior Plating Company
(individual with authority to bind
Respondent to terms of consent order)

Issued as a final order of the Commissioner of the Department of Energy and Environmental Protection.

1/18/16
Date


~~Michael Sullivan~~ Robert J. Kice
Deputy Commissioner

ORDER NO. SRD-225
DISCHARGE CODE G
TOWN OF FAIRFIELD
LAND RECORDS

EXHIBIT B



Electronic Transmittal Form for DEEP Remediation, LUST, and PCB Secure File Transfer (SFT)

DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
REMEDICATION DIVISION, PCB PROGRAM, AND
LEAKING UNDERGROUND STORAGE TANK COORDINATION PROGRAM

www.ct.gov/deep

This Electronic Transmittal Form must be completed and included as the cover sheet of your electronic document when uploading a document to the Connecticut SFT website. Requirements for Transmittals through the SFT website:

- Documents submitted through the SFT website must include all applicable figures, tables and laboratory data.
- Files must be formatted as PDF/A and use the appropriate naming convention:
 - For Remediation Filings: **REM_REMID #_SiteAddress_Town_DocumentType_DateofDocument**
 - For LUST Filings: **LUST_SiteAddress_Town_AbbreviationForDocumentType_DateofDocument**
 - For PCB Filings: **PCB_SiteAddress_Town_AbbreviationForDocumentType_DateofDocument****Example:** LUST_1MainStreet_Hartford_ESA_01-01-2001
Note: For "AbbreviationForDocumentType" use appropriate abbreviation at [Transmittal of Documents](#)
- **If no Rem ID assigned (new filing) or REM ID is unknown leave field blank**

Part I: Primary Recipient*: Remediation Program (* required)

For Remediation documents: Primary Program*: Other Remediation Program Rem ID*: SRD-225	For PCB/LUST documents: UST Facility ID: (if applicable) Spill Case Number: (if known)
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Part II: Site Information

Site Name*: Superior Plating		
Site Address*: 2 Lacey Place		
City/Town*: Southport	State: CT	Zip Code:
Secondary Programs (complete as many as applicable for this document):		
Program: Select Secondary Program	Project ID:	
Program: Select Secondary Program	Project ID:	
Program: Select Secondary Program	Project ID:	
Program: Select Secondary Program	Project ID:	
Provide Project ID for each secondary program if it is known. Each program has a unique ID (i.e. Rem ID, Spill Case #, UST Facility ID, etc.)		

Part III: Document Information (document type required for appropriate program[s] only)

Remediation*: Annual Report	
LUST/PCB*: LUST/PCB Document Type	
Date of Document*: 3/9/2023	Version: Final

Part IV: Submitter Information

Name*: Marlee NajamyWinnick
E-mail*: marlee.najamywinnick@gza.com
Name of company/business this document is being submitted on behalf of: *
Superior Plating



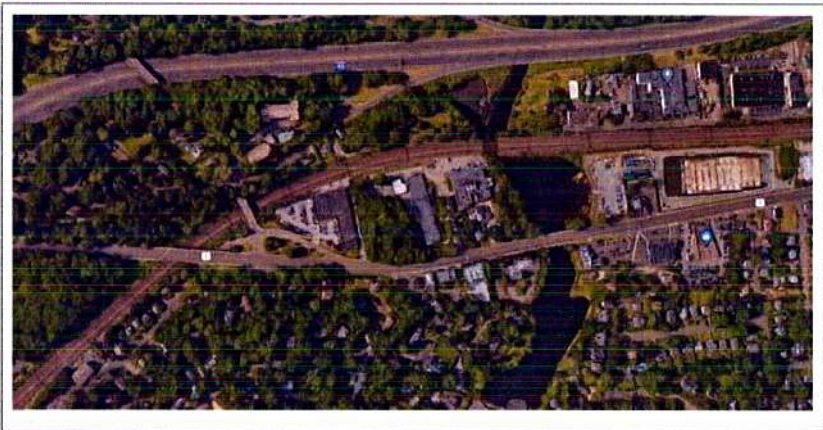
Known for excellence. Built on trust.



2022 ANNUAL GROUNDWATER, SURFACE WATER, AND SEDIMENT MONITORING REPORT SUPERIOR PLATING COMPANY Southport, Connecticut

March 2023

File No. 05.0043459.00



PREPARED FOR:

Connecticut Department of Energy and Environmental
Protection
Hartford, CT

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March 9, 2023
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Connecticut Department of Energy and Environmental Protection
Remediation Division
Bureau of Water Protection and Land Reuse
79 Elm Street
Hartford, CT 06106-5127

Attn: Ms. Carolyn Fusaro

Re: 2022 Annual Groundwater, Surface Water, and Sediment Monitoring Report
Consent Order #SRD-225
Superior Plating Company
Southport, Connecticut

Dear Ms. Fusaro:

On behalf of Superior Plating Company, GZA GeoEnvironmental, Inc. (GZA) has prepared this 2022 *Annual Groundwater, Surface Water and Sediment Monitoring Report* pursuant to Consent Order No. SRD-225. The report presents the results of monitoring activities performed in accordance with the approved *Operations, Maintenance, and Monitoring Plan* dated April 2016.

If you have any questions on the enclosed report, please do not hesitate to contact the undersigned.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

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1.0 INTRODUCTION

This 2022 *Annual Groundwater, Surface Water and Sediment Monitoring Report* for the Superior Plating Company (SPC) facility in Southport, Connecticut (the Site) has been prepared pursuant to Consent Order No. SRD-225 (the Order) by GZA GeoEnvironmental, Inc. (GZA) on behalf of SPC. The report has been prepared in accordance with the *Operations, Maintenance, and Monitoring Plan* (OM&M Plan) submitted to the Connecticut Department of Energy and Environmental Protection (DEEP) in April 2016 and approved by DEEP by way of a letter dated July 13, 2016. This report has been prepared to describe the actions that have been taken between December 2021 and December 2022 to comply with the stipulations of the Order to maintain the currently operating groundwater containment systems and to monitor their effectiveness through the sampling and analysis of on-Site groundwater and surface water and sediment in the adjacent Mill River. This report is subject to the limitations in Appendix A.

2.0 BACKGROUND

On March 12, 1982, the Town of Fairfield informed SPC that they had observed suspected chromium contaminated groundwater from the Site seeping into the Mill Pond section of the Mill River. In response to this information, in 1982, SPC installed and initiated operation of a recovery trench along the bank of the river to mitigate the migration of contaminated groundwater from the Site. SPC also made numerous improvements to the facility infrastructure and manufacturing processes between 1982 and 2009 to mitigate potential releases of plating metals to groundwater.

In 2008, SPC installed, with approval of the DEEP, a groundwater containment system consisting of eight extraction wells (CW-1 through CW-8) to further mitigate the migration of contaminated groundwater to the Mill River. Two additional wells (CW-9 and CW-10) were added to the array in 2012. Two additional wells, CW-11 and CW-12, were drilled in 2014 at the south and north ends of the well array, respectively, to provide additional groundwater capture but neither well had sufficient yield to connect them to the system. SPC also installed two additional wells (CW-13 and CW-14) in 2020 east of the Site building to improve containment of the groundwater plume in this area and the two new wells were successfully connected to the system. The bedrock well containment system has operated continuously since July 2009 except for the period from November 26, 2009 until December 13, 2010 due to a fire in the building housing the pumping and treatment system, brief temporary maintenance related shutdowns, and an approximately 6-day period in August 2020 due to a loss of electrical power as a result of Tropical Storm Isias.

The Site is located on a bedrock promontory overlooking the Mill River. The geology of the Site consists of approximately 8 to 15 feet of glacial till (which is mostly above the water table) underlain by schistose bedrock. The schistose bedrock is weathered in places and contains an approximately two to six -foot thick fracture zone through which most of the Site groundwater migrates. This fracture zone is at or somewhat above the approximate elevation of the surface of the Mill River, which is the discharge point for Site groundwater. In 2019, three new monitor wells (MW-19-19, MW-20-19, and MW-21-19) were installed beneath the central part of the building as shown on Figure 2. The borings in this area exhibited more extensive fracturing than was previously observed in other areas of the plant property. The fracture zone is underlain by a massive gneiss formation which contains few to no fractures and which yields limited



groundwater. The groundwater under the Site is replenished solely by infiltration of precipitation. Therefore, the volume of water extracted by the containment system varies seasonally. Long-term operation of the extraction system has also lowered the water table elevation in the eastern portion of the Site.

Based on the 14+ years of operational data and the 8+ years of in-stream sampling of the Mill River, it appears that the containment system is effective at preventing migration of groundwater from the Site to the river. Due to the remediation of the riverbed to remove accumulated lead from another property, operation of the containment system is necessary to prevent any buildup of chromium or other Site-specific constituents from occurring in the sediments. This report describes the measures taken to continue operation of the system and to monitor its effectiveness between December 2021 and December 2022.

This report also describes additional proactive measures taken by SPC in 2022 to reduce the overall mass of hexavalent chromium in the subsurface at the Site through a remedial amendment pilot study.

3.0 OPERATION AND MAINTENANCE

The groundwater containment system consists of four primary components: (1) a recovery trench with associated pump and piping system; (2) twelve containment wells (CW-1 through CW-10 and CW-13 and CW-14) equipped with jet pump assemblies connected by below grade header piping to the pumping system; (3) the transfer pumps and holding tanks; and (4) the treatment system. In addition, a pit is present within the building and the base of the pit is open to the bedrock surface. Groundwater collects within the pit and is collected and transferred to the treatment building for treatment.

3.1 RECOVERY TRENCH AND PUMPING SYSTEM

The recovery trench system has been in operation since 1982 and has not had any major maintenance related issues. As indicated in Figure 3, there are two sump pumps located in the trench (one on either end) that pump groundwater approximately 15 feet up the Mill River embankment to a 30-gallon holding tank. A booster pump transfers the groundwater from the holding tank to the Plant 9 building where the treatment system is located. The groundwater is pumped to a 1,000-gallon tank and then transferred to a tank system consisting of three fiberglass tanks connected in series and ranging in size from 1,000 to 2,000 gallons. Wastewater is mixed with the groundwater in the first tank and chemicals are gravity fed into the water between the two 1,000-gallon tanks for pH adjustment and reduction of hexavalent chromium to trivalent chromium. The treatment system results in a precipitated filter cake that is transported off-site as hazardous waste. A fourth fiberglass tank is also present for extra temporary groundwater/wastewater storage capacity as necessary prior to treatment. After the third tank, the water is pumped to the sanitary sewer under a NPDES permit to discharge to a publicly owned treatment work (POTW). A flow meter is present within the piping between the first 1,000-gallon tank and the 2,000-gallon tank to record the volume of groundwater pumped from the trench system prior to mixing with any wastewater from the plant.

Maintenance related issues associated with the recovery trench system are primarily associated with potential failure of one of the sump or transfer pumps and potential fouling/clogging of the recovery trench. The flow from the recovery trench system is recorded daily during the work week (Monday through Friday). If these



readings indicate either no flow or a noticeable loss of yield (other than what we would be anticipated due to seasonal fluctuations), the following actions are performed:

1. The sump and transfer pumps are inspected and immediately replaced (SPC keeps spare pumps on hand) as necessary;
2. If the loss of flow is not related to the sump or transfer pumps, the recovery trench is flushed with clean water to re-establish connection to the groundwater; and,
3. If flushing does not improve the yield, the recovery trench is excavated and reconstructed with new piping, filter gravel and backfill.

We note, rehabilitation of the recovery trench has not been necessary over the last 39+ years and the trench system operated with no interruptions in 2022. The only recent disruption was the 6-day period of time the Site was without power due to Tropical Storm Isias in August 2020 and some temporary power outages in 2022 (i.e., one day or less).

During the period from December 22, 2021 through December 1, 2022, the trench system pumped approximately 199,290 gallons of water, averaging approximately 579 gallons per day (gpd). Concentrations of hexavalent chromium in the water extracted by the trench system, as measured by the in-house laboratory, ranged from 3 parts per million (ppm) to 51 ppm, but were generally in the 20 to 35 ppm range. Operational records for this period are in Appendix B.

3.2 CONTAINMENT WELLS AND PUMP COMPONENTS

The containment wells are open hole bedrock wells equipped with downhole supply and return piping and a venturi jet assembly set proximate to the base of the well. The supply and return piping from each well are connected to below grade supply and return header piping that extend to a multi-stage centrifugal pump system located within the Plant 9 building. The multi-stage pump system pumps water via the below grade supply header piping to the venturi jet assembly within each well. The resulting water flow through the venturi jet assembly creates a vacuum that draws groundwater from the well and back to the system building through the return header piping.

Maintenance related issues with the containment well system are primarily associated with clogging of the venturi jets and potential mechanical problems with the multi-stage centrifugal pump. The flow from the containment well system is recorded and the multi-stage pump system is visually inspected daily during the work week (Monday through Friday). If these readings or inspections identify a problem, the multi-stage centrifugal pump and associated components will be repaired and replaced as necessary. A detailed Operations & Maintenance Manual including cutsheets for the individual components of the multi-stage centrifugal pumping system is included in the Operations and Maintenance Plan and is kept at the treatment building.

During the period from January 3, 2022 through December 1, 2022, the containment well system pumped approximately 355,156 gallons of groundwater at an average of approximately 1,070 gpd. Recovery rates varied from a low of approximately 688 gpd (August 23, 2022) to a high of approximately 1,663 gpd (January



18, 2022). The concentrations of hexavalent chromium, as measured by the in-house laboratory, ranged from 23 ppm (November 23, 2022) to 89 ppm (May 2, 2022), but were generally in the 30 to 60 ppm range. Operational records for this period are included in Appendix B. At various times during the operating period covered by this report, certain containment wells including CW-2, CW-3, CW-4, CW-5, CW-6, CW-10, and CW-14 were not operating optimally. Once discovered, the venturi jet assemblies within each well were removed, cleaned, and re-installed and the containment wells were observed to operate within expected parameters upon cleaning.

3.3 INTERIOR PIT

Another component of the recovery system at the Site is a pump located within the open pit in the central-eastern portion of the Site building in the chromium department, herein referred to as the "Pit". According to SPC personnel, the Pit measures approximately 2x2x3 feet with exposed bedrock fractures at the base. Under normal water-table conditions, groundwater accumulates in the Pit and a sump pump transfers the accumulated groundwater to a holding tank located inside the chromium department and then subsequently to the treatment building for treatment. The sump pump in the Pit was temporarily deactivated between February 25, 2022 and April 1, 2022 due to build up of particulates in the Pit as a result of the remedial amendment pilot study performed in 2021. The Pit was pumped out manually periodically during this time period and then a new pump was installed in the Pit once the particulates reduced. During the period from January 4, 2022 through December 1, 2022, approximately 22,000 gallons of water, averaging approximately 74 gpd was pumped from the Pit to the treatment system. As expected, flows vary greatly likely due to precipitation events. Concentrations of hexavalent chromium in the water extracted from the Pit, as measured by the in-house laboratory, ranged from not detected to 110 ppm. The hexavalent chromium Pit concentrations varied significantly as a result of the remedial amendment pilot study but have stabilized between approximately 80 and 110 ppm subsequent to the 2021 injections. Operational records for this period are in Appendix B.

3.4 TRANSFER PUMP AND HOLDING TANKS

There are two 2,000-gallon polyethylene holding tanks for the containment well system. These tanks are connected, and the groundwater is automatically pumped from the tanks directly to the treatment system via a float switch system. There are four fiberglass tanks for the trench and plant wastewater system. All of the tanks are visually inspected each day from Monday through Friday. It would be immediately apparent if a pump or tank has failed and if it has it will be replaced in an expeditious manner. The pumps in the tanks were repaired in September 2022. There were no other problems with this portion of the system during the operating period covered by this report.

3.5 TREATMENT SYSTEM

The treatment system is operated and inspected on a daily basis during the work week. Its operation is crucial to the manufacturing operation and is kept in operation to the maximum extent possible. The operation and maintenance manual and permit conditions for the discharge of treated water are presented in the Operations and Maintenance Plan. The influent and effluent concentrations of hexavalent chromium and



nickel are measured each workday (Monday through Friday) by the SPC in-house laboratory. Records are kept of the water quality and the amount of water pumped from both the recovery trench and the containment wells. Twice monthly samples for the permit for discharge to the POTW are sent to a State-certified laboratory (Complete Environmental Testing) for analysis. The analytical results from these monthly samples indicate the discharge is compliant with the requirements of the NPDES permit. There were no problems with the treatment system during this reporting period.

4.0 GROUNDWATER MONITORING

According to the OM&M Plan, monitor wells that are representative of Site groundwater quality will be sampled twice per year in March and September. In addition, we note that additional sampling and analysis was performed during the March 2022 semi-annual groundwater monitoring event as part of the post-injection monitoring from the remedial amendment pilot study that was performed in November 2021. The results of the post-injection groundwater sampling are presented in a separate report.

Monitor well locations are shown on Figure 2. Monitor well samples were obtained by the low-flow method using a Geotech® peristaltic pump. A YSI 556 Multiparameter Sondes meter equipped with a flow-through cell was used to measure the following parameters in the field: pH, oxidation/reduction potential (ORP), conductivity, temperature, and dissolved oxygen. A Micro TPI turbidimeter was used to measure turbidity in the groundwater samples prior to entry to the flow-through cell. Groundwater was collected in preserved containers, placed in a cooler with ice and transported to Complete Environmental Testing (CET) laboratory in Stratford, Connecticut for analysis of total chromium (EPA Method 200.7; Prep Method 3005A), hexavalent chromium (SM 3500 Cr-B) and nickel (EPA Method 200.7, Prep Method 3005A). Quality assurance/quality control samples, including a field duplicate sample and matrix spike/matrix spike duplicate, were obtained and analyzed. Groundwater sampling data sheets are in Appendix C. The laboratory was instructed to provide Reasonable Confidence Protocol (RCP) reporting. Reporting limits were at least equal to the remedial criteria in the Remediation Standard Regulations (RSRs) as follows:

Analyte	Surface Water Protection Criteria (SWPC)	Groundwater Protection Criteria (GWPC)
Nickel	880 µg/l	100 µg/l
Total Chromium	1,200 µg/l (trivalent chromium)	50 µg/l
Hexavalent Chromium	110 µg/l	None established

The Reporting Limits in the laboratory reports for the samples that were non detect were generally 20 µg/l for hexavalent chromium and 50 µg/l for total chromium and nickel. The laboratory reports are in Appendix D. The quality control samples showed good reproducibility and no problems were encountered with the data. Data quality evaluations and assessments are presented in a table format in Appendix E.

The wells that were sampled during the March 2022 sampling event were: MW-1, MW-2, MW-4, MW-5, MW-10, MW-11, MW-12, MW-13, MW-14-07, MW-17-13, MW-19-19, MW-20-19, MW-21-19, CW-12, OB-7 and



OB-9. The wells that were sampled during the September 2022 sampling event were: MW-1, MW-5, MW-10, MW-11, MW-12, MW-14-07, MW-17-13, MW-19-19, MW-20-19, MW-21-19, CW-12, OB-7, and OB-9. We note that monitoring wells MW-2, MW-4, and MW-13 were dry during the September 2022 sampling event likely due to a combination of the operating containment system and semi-drought conditions. The well locations are shown on Figure 2 and a summary of the water quality results is included in Table 1.

4.1 GROUNDWATER QUALITY

A summary of the analytical data from the monitor well samples is included in Table 1.

MW-1: This well is located next to OB-9, to the south of the main Site building. Based on the water-table contours, the groundwater in this area of the Site is captured by the containment system. The concentrations of chromium and hexavalent chromium had declined from the November 2006 sampling event through 2018. However, the concentrations of chromium have increased beginning in 2019 through 2022 and the September 2022 sample contained the highest observed total chromium and hexavalent concentration at this well to date. The concentration of nickel has declined to be consistently below the Surface Water Protection Criterion (SWPC).

OB-9: This monitor well is next to MW-1. Based on the water-table contours, the groundwater in this area of the Site is captured by the containment system. Concentrations of contaminants of concern (COCs)¹ had been relatively consistent since September 2018. However, hexavalent chromium was not detected above laboratory minimum reporting limits (MRLs) in the September 2022 sample and there was a slight increase in the nickel concentration during the September 2022 sampling round.

MW-2: This well is proximate to containment well CW-8 and the concentrations of total and hexavalent chromium had shown an overall decline over the last decade. However, the March 2018 groundwater sample contained the highest observed total chromium concentration over that same period. The total chromium concentration has generally decreased since the March 2019 sample but was still elevated well above the GWPC in March 2022. The hexavalent chromium concentration has generally decreased since the March 2018 sample and the March 2022 sample (520 ug/L) continued to be lower than the concentration observed in March 2018. The concentration of nickel in March 2022 was the lowest concentration observed since 2013. This well was dry during the September 2022 sampling event.

MW-4: This well is often dry and was only sampled in March 2022. The concentrations of both total chromium and hexavalent chromium decreased slightly compared to the March 2021 sample; however, total chromium remains above the GWPC. Nickel remains below the GWPC and SWPC in this well.

MW-5: This monitor well is located between containment wells CW-4 and CW-5 and is shallower than the two containment wells and sometimes dry. The concentrations of total chromium and hexavalent chromium have declined considerably since the inception of the containment system, but concentrations continue to fluctuate. The concentration of total chromium and hexavalent chromium in the March and September 2022

¹ COCs include total chromium, hexavalent chromium, and nickel



samples were lower than both the 2019 and 2020 samples. The concentration of nickel has increased slightly since 2019 and exceeds the GWPC.

MW-10: This monitor well is located in the northeastern part of the plume. Concentrations of COCs were historically (1989) very high compared to the RSR remedial criteria but have declined to below RSR criteria for the last ten years.

MW-11: This monitor well is located in the northeastern corner of the property and the concentrations of the COCs were showing a downward trend from 2006 through 2017; however, since 2018 concentrations have fluctuated significantly with no discernible trend. The concentrations of total chromium and hexavalent chromium were higher in September 2022 compared to March 2022. The concentration of nickel in the March 2022 sample event was below the GWPC and SWPC; however, the concentration of nickel in the September 2022 sample event exceeded the GWPC but was in line with concentrations observed in 2020.

MW-12: This monitor well was previously located off Site but since SPC currently leases the property it has been added to the monitoring plan. It is located in a down gradient position from containment well CW-8 and MW-2 and relatively close to the Mill Pond. The water quality has been relatively consistent since September 2015 and the concentrations of the COCs have been relatively low. Total chromium concentrations continued to be slightly above the GWPC through March 2022 but was not detected above MRLs in the September 2022 sample. Hexavalent chromium was above the SWPC in March 2022 but below the SWPC in September 2022 which is consistent with past samples. Nickel concentrations have remained relatively consistent since 2015 with concentrations below the SWPC in both 2022 sampling events.

MW-13: The samples from this upgradient monitor well had not had detectable concentrations of COCs prior to March 2022. In March 2022, hexavalent chromium was detected at a concentration of 34 ug/L, below the SWPC, and nickel was detected at a concentration of 250 ug/L, exceeding the GWPC for the first time at this location. MW-13 was dry in September 2022 and therefore no sample was collected.

MW-14-07: This monitor well is located in the northeastern part of the plume. Though located between containment wells CW-1 and CW-2, concentrations of COCs consistently increased from 2014 through 2017. This may be due to drawing water in this direction from the pumping and is contrary to the water quality in nearby monitor wells MW-10 and MW-11. Concentrations of the COCs in samples from this well from 2018 through 2022 show a general decline. Nickel concentrations have been below the GWPC and SWPC since 2018.

MW-17-13: This monitor well is located in the north-central part of the plant property and the groundwater quality continues to exceed the RSR remedial criteria. The concentrations of total chromium and hexavalent chromium increased steadily from March 2013 through March 2017 but have generally decreased since September 2017. Since 2017, the hexavalent and total chromium concentrations also exhibit a seasonal pattern with higher concentrations observed in the fall of each year. Nickel has remained below the RSR remedial criteria. An attempt to capture this part of the plume by drilling containment well CW-11 was unsuccessful, so it is likely that there is limited flow volume in the northern direction.



MW-19-19: This monitor well is located inside the southeastern portion of the main Site building in the nickel department. This monitor well has elevated concentrations of COCs compared with other Site monitor wells and is located in the central portion of the plume. We note that total chromium and hexavalent chromium concentrations were slightly lower in the March and September 2022 samples as compared to the 2021 samples, potentially as a result of the remediation pilot study. Compared to the 2021 sampling events, an increase was seen in the March 2022 nickel concentration (78,000 ug/L), which decreased significantly in September 2022 (7,900 ug/L).

MW-20-19: This monitor well is located inside the eastern portion of the main Site building in the nickel department and is directly east of the open pit in the chromium department. This monitor well has elevated concentrations of COCs compared with other Site monitor wells and is located in the central portion of the plume. We note the concentrations of total chromium and hexavalent chromium were elevated during the March 2022 sampling event as compared to 2021 samples; however, concentrations remain fairly consistent with previous sampling events.

MW-21-19: This monitor well is located inside the northeastern portion of the main Site building. This monitor well has elevated concentrations of COCs and is also located in the central portion of the plume. Concentrations of COCs have fluctuated but remain elevated since sampling began in January 2020. We note the concentrations of total chromium and hexavalent chromium were elevated during the March 2022 sampling event as compared to 2021 samples; however, the September 2022 concentrations remain fairly consistent with previous sampling events.

CW-12: This containment well is located to the east of the treatment building and was not connected to the containment system due to insufficient water volume. However, due its location, this well has been part of the semi-annual sampling program. Hexavalent chromium and nickel concentrations in this well have remained below the SWPC and GWPC since 2018. Total chromium concentrations have consistently been above the GWPC, though the concentration in the September 2022 was lower than the past few sampling events. However, this well normally contains a high volume of suspended particles. Therefore, a field filtered sample was also collected and analyzed during the March and September 2022 sampling events. Dissolved chromium was below MRLs in the field filtered samples, indicating that the elevated total chromium in this well is due in part to high turbidity within the sample matrix.

OB-7: This monitor well is located in the southeastern part of the plume proximate to containment well CW-7. The groundwater quality has improved since 2015 and the recent samples have not had detectable concentrations of COCs other than total chromium in the September 2022 sample at a concentration slightly above the GWPC.

4.2 GROUNDWATER FLOW

Depth-to-water and groundwater elevation data for 2022 are shown on Table 2. As mentioned in the 2021 Annual Report, GZA has been collecting depth-to-water measurements from the containment wells on a more frequent basis to identify potential maintenance/cleaning issues with the venturi jets more rapidly. In 2022,



depth-to-water measurements from the containment wells were collected approximately monthly until May, then in August, September, and November 2022². Pumping water levels in the containment wells (average elevation of – 16feet NAVD88) are considerably lower than the pond level (approximate elevation 3 feet NAVD88). The groundwater elevations for September 2022 are shown on Figure 2 which depicts the zones of capture of the containment wells (where the data are sufficiently detailed to do so) and illustrates the effectiveness of the containment system. It should be noted that in reality, the water table is not being depressed to the elevations shown for the containment wells except within the borehole itself. The water levels are kept low in the wells to provide a continuous sink for local groundwater to drain into. The bulk of the groundwater under the Site flows through a relatively thin layer of weathered and fractured bedrock at an elevation of approximately 9 to 3 feet (NAVD88). Additional investigations beneath the building in 2020 also showed a thicker fractured bedrock zone at approximate elevations from 18 to -2 feet (NAVD88).

4.3 SURFACE WATER AND SEDIMENT MONITORING

Starting in 2021, SPC chose to proactively sample sediment and surface water twice per year in order to monitor hexavalent chromium concentrations in the sediments. In 2022, sediment and surface water samples were collected in May and September. The locations for the sampling are shown on Figure 4 and include the following sampling locations:

- Sediment: SPC-SED-1, SPC-SED-2, SPC-SED-3, SPC-SED-4, and SPC-SED-5.
- Surface Water: SPC-SW-1S and SPC-SW-1D, SPC-SW-2S and SPC-SW-2D, SPC-SW-3S and SPC-SW-3D, SPC-SW-4S and SPC-SW-4D, and SPC-SW-5S and SPC-SW-5D.

In past years, sediment was unable to be obtained at every sampling location. However, in the September 2019 through September 2022 sampling events, sediment samples were obtained at all of the sampling locations, showing that there has been some continuing accumulation of sediment in the Mill River since completion of the dredging operation conducted under the auspices of the DEEP.

Surface-water and sediment samples were collected from the Mill River using a pontoon-type boat. A Bomb Sampler was used to collect the surface-water samples and a Hand Auger Sampler was used to collect the sediment samples. At each location, surface-water samples were collected from two depth intervals: approximately one foot below the water surface and approximately one foot above the river bottom. At each location, following the collection of surface water samples, the hand auger was used to collect sediment samples from the top 6 inches of sediment. The samples were collected in order from the downstream locations (south of SPC) to the upstream locations (north of SPC) to reduce the risk of cross-contamination. The Bomb Sampler and hand auger were decontaminated between each sampling depth and between each sampling location using a combination of nitric acid and distilled water. The samples were sent to CET immediately and analyzed for hexavalent chromium, total chromium, and nickel. Sampling logs were maintained and are presented in Appendix C. Laboratory reports are in Appendix D and the data are summarized on Tables 3 and 4.

² GZA notes that only the March and September events are included on Table 2.



In past sampling events, none of the tested substances (hexavalent chromium, total chromium, and nickel) were detected in the surface water samples at concentrations above the MRLs, with the exception of total chromium detected in SPC-SW-2D (3-4) at a concentration of 50 ug/L, slightly exceeding the ALC (42 ug/L), in April 2021. During the May and September 2022 sampling events, none of the tested substances were detected above MRLs.

Hexavalent chromium was not detected above MRLs in any of the sediment samples from May and September 2022. GZA notes that each sampling location where hexavalent chromium was previously detected in September 2020 have now returned to pre-September 2020 concentrations (below MRLs). Nickel was detected in each sample at concentrations ranging from 8.4 to 79 mg/kg, with levels generally consistent with previous sampling events. Total chromium was detected in each sample during both sampling events in 2022 at concentrations ranging from 16 to 2,700 mg/kg, generally consistent with prior sampling events, except for the concentration in SPC-SED-3, where the concentration of total chromium decreased significantly compared to the 2021 sampling events.

As discussed in the 2020 Annual Report, it was GZA's opinion that the detected levels of hexavalent chromium in sediment samples at select locations (SPC-SED-1, SPC-SED-2, SPC-SED-4, and SPC-SED-5) in September 2020 were likely related to breakthrough from when the containment system was temporarily out of operation in August 2020 due to the power failure caused by Tropical Storm Isais. We note that the 2020 samples from these four sediment sample locations contained more organic matter than observed in previous years. In addition, a strong sulfur odor was noted at sampling locations SPC-SED-1, SPC-SED-2, and SPC-SED-5 in 2020. The distribution between trivalent chromium and hexavalent chromium in the environment is regulated by oxidation-reduction (aka redox) reactions. Organic matter, ferrous iron, and reduced sulfur chemicals all have the potential for reducing water-soluble hexavalent chromium to poorly soluble trivalent chromium. Native bacteria in sediments can also reduce hexavalent chromium to trivalent chromium. GZA notes the elevated organic matter and reducing conditions (strong sulfur odor) observed in the 2020 sediment samples suggests conditions that enhanced hexavalent chromium reduction to trivalent chromium both biotically and abiotically, returning sediment hexavalent chromium to non-detect levels consistent with historic conditions.

Therefore, we believe the hexavalent chromium observed in the sediment samples in 2020 were reduced to immobile trivalent chromium, as evidenced by the non-detect concentrations of hexavalent chromium in sediment during two rounds of sampling in both 2021 and 2022. Therefore, SPC plans to return to annual sediment and surface water sampling in 2023.

5.0 INJECTION PILOT TEST

In addition to the monitoring activities outlined in the OM&M Plan, SPC proactively performed a groundwater remedial injection pilot study in November 2021 to evaluate the efficacy of a remedial amendment program to reduce the overall mass of Cr+6 in the subsurface at the Site. This pilot study was performed in accordance with GZA's permit application dated May 27, 2021, which was approved by the DEEP (Temporary Authorization No. 356) on September 8, 2021 and involved the injection of REMOTOX® calcium polysulfide (CPS) into the Pit located inside the Site building. The sump pump in the pit was temporarily deactivated to



allow the injected CPS compounds to naturally drain into the subsurface. The sump pump was then reactivated in December 2021. In accordance with GZA's monitoring plan presented in the DEEP permit, post-injection groundwater sampling events began in December 2021 continued approximately monthly through May 2022 followed by quarterly sampling in August and November 2022. SPC summarized the results of the pilot study and the post injection monitoring program to the DEEP in a separate report dated August 2022.

6.0 CONCLUSIONS

The on-going monitoring program has demonstrated that the groundwater containment system continues to function as designed and is effective at mitigating the migration of groundwater containing hexavalent chromium from the SPC plant to the Mill River. Groundwater quality has shown improvement in some monitoring points and potential recent increasing concentrations in others; however, the overall long-term trend in groundwater concentrations at the Site since routine groundwater monitoring was initiated is a decreasing trend. We also anticipate observing some variability in groundwater concentration trends due to seasonal variations in groundwater levels.

In past sampling events, none of the tested substances (hexavalent chromium, total chromium, and nickel) were detected in the surface water samples at concentrations above the MRLs, with the exception of total chromium detected in SPC-SW-2D (3-4) at a concentration of 50 ug/L, slightly exceeding the ALC (42 ug/L), in April 2021. During the May and September 2022 sampling events, none of the tested substances were detected above MRLs in the surface water samples.

Hexavalent chromium was not detected in sediments adjacent to the Site in May and September 2022, an improvement from the September 2020 results. Therefore, we believe the hexavalent chromium observed in the sediment samples in 2020 were reduced to immobile trivalent chromium. Therefore, SPC plans to return to annual sediment and surface water sampling in 2023.

Nickel was detected in each sediment sample in 2022 at concentrations generally consistent with previous sampling events. Total chromium was detected in each sample during both sampling events in 2022 at concentrations ranging from 16 to 2,700 mg/kg, generally consistent with prior sampling events, except for the concentration in SPC-SED-3, where the concentration of total chromium decreased significantly compared to the 2021 sampling events.

SPC plans to supplement the monitoring activities in the OM&M Plan by conservatively taking the following proactive steps in 2023:

1. GZA will continue performing at least quarterly gauging of the containment wells to more rapidly identify if any maintenance/cleaning of the venturi jets as necessary; and,
2. In January 2023, SPC initiated a second in-situ injection program to further reduce dissolved phase hexavalent chromium to trivalent chromium. This injection program was developed based on the results of the 2021 remediation pilot study and was outlined in a modified In-Situ Remediation Permit application



submitted to DEEP and approved on December 9, 2022. The results of this second injection program will be summarized in separate reports submitted to DEEP upon completion of the injection program.

7.0 CERTIFICATION

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information is punishable as a criminal offense under §55a-157b of the Connecticut General Status and any other applicable law".



Hangyan Luo
Superior Plating Company



TABLES

TABLE 1
 Characterization of Laboratory
 Inspector II and Clerk III
 Job Functions

Job Function	Clerk III		Inspector II										Total													
	Min	Max	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
Accounting																										
Admin.																										
Analysis																										
Apprentice/Assistant, Const. Development																										
Apprentice/Assistant, Const. Development																										

Notes:

- 1 - CTR rating for the Qualitative Dimension of Temporal Dimension
- 2 - CTR rating in a separate standard for the Job Function
- 3 - CTR rating for the Job Function
- 4 - CTR rating for the Job Function
- 5 - CTR rating for the Job Function
- 6 - CTR rating for the Job Function
- 7 - CTR rating for the Job Function
- 8 - CTR rating for the Job Function
- 9 - CTR rating for the Job Function
- 10 - CTR rating for the Job Function
- 11 - CTR rating for the Job Function
- 12 - CTR rating for the Job Function
- 13 - CTR rating for the Job Function
- 14 - CTR rating for the Job Function
- 15 - CTR rating for the Job Function
- 16 - CTR rating for the Job Function
- 17 - CTR rating for the Job Function
- 18 - CTR rating for the Job Function
- 19 - CTR rating for the Job Function
- 20 - CTR rating for the Job Function
- 21 - CTR rating for the Job Function
- 22 - CTR rating for the Job Function

TABLE 1
 General Analytical Summary
 Statewide
 2 of 8

County	Unit	CT 2022 Population	2019-2022												2023-2026											
			2019	2020	2021	2022	2019	2020	2021	2022	2023	2024	2025	2026	2023	2024	2025	2026								
State	MA	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000					
Franklin County	MA	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000					
Worcester County	MA	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000					
Middlesex County	MA	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000					
Suffolk County	MA	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000					
Essex County	MA	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000					
Norfolk County	MA	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000					
Berkshire County	MA	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000					
Bay State Total	MA	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000					

Notes:
 1. NA refers to the County Department of Health and Human Services.
 2. NA refers to a population trend that has not been established by the CT 2022.
 3. NA refers to a unit type.
 4. NA refers to a unit type.
 5. NA refers to a unit type.
 6. NA refers to a unit type.
 7. NA refers to a unit type.
 8. NA refers to a unit type.
 9. NA refers to a unit type.
 10. NA refers to a unit type.

Table 2
 Summary of Surface Water Sampling Results
 Superior Plating Company, Inc.
 Southport, Connecticut

Analyte	Water Quality Standards-Aquatic Life Criteria*	Sample Name Depth (feet)	SPC-SW-18										SPC-SW-1D									
			0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	4-5-5-5	5-6	3-4	1-5-2-5	1-2	1-5-2-5	5-6	3-4	5-6	5-5-6-5
			4/19/2013	9/14/2014	9/13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021	9/5/2022	9/8/2022	4/19/2013	9/14/2014	9/13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021	9/5/2022	9/8/2022
Hexavalent Chromium	50	ug/l	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	
Total Nickel	6.2	ug/l	NA	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	NA	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	
Total Chromium	42**	ug/l	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	
Copper	3.1	ug/l	ND<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<40	NA	NA	NA	NA	NA	NA	NA	
Lead	8.1	ug/l	ND<13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<13	NA	NA	NA	NA	NA	NA	NA	
Zinc	81	ug/l	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<20	NA	NA	NA	NA	NA	NA	NA	

Notes:
 *Based on SA Chronic Surface Water Classification for Mill River
 Results in **BOLD** exceed criteria
 ND - indicate compound not detected above laboratory reporting limit
 NA - indicate compound not analyzed
 ** = Criteria for hexavalent chromium

Table 3
Summary of Surface Water Sampling Results
Superior Plating Company, Inc.
Southport, Connecticut

Analyte	Water Quality Standards Aquatic Life Criteria*	Sample Name Depth (feet)	SPC-SW-25										SPC-SW-2D									
			0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	5-6	2.5-3.5	3-4	4-5	3-4	7.5-10.5	3-4	2-3	2-3	3.5-4.5
			4/19/2013	9/14/2016	9/13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/8/2022	4/19/2013	9/14/2016	9/13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/8/2022
Hexavalent Chromium	50	ug/l	ND-70	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	
Total Nickel	6.7	ug/l	NA	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	NA	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	
Total Chromium	43**	ug/l	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	ND-50	50	ND-50	ND-50	
Copper	3.1	ug/l	ND-40	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND-40	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	0.1	ug/l	ND-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND-10	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	0.1	ug/l	ND-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND-10	NA	NA	NA	NA	NA	NA	NA	NA	

Notes:
 *Based on SA Chronic Surface Water Classification for Mill River
 Results in **ND-10** exceed criteria
 ND - indicates compound not detected above laboratory reporting limit
 NA - indicates compound not analyzed
 ** = Criteria for hexavalent chromium

Table 3
Summary of Surface Water Sampling Results
Superior Plating Company, Inc.
Southport, Connecticut

Analyte	Water Quality Standards-Aquatic Life Criteria*	Sample Name Depth (feet)	SPC-SW-25										SPC-SW-3D									
			0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	5-5-6-5	3-4	3-4	2-3	2-3	2-3	2-3	1-5-2-5	1-5-2-5	
			4/19/2013	9/14/2016	9/13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021	8/5/2022	8/8/2022	4/19/2013	9/14/2016	9/13/2017	9/14/2018	9/17/2019	1/2/2020	4/23/2021	9/15/2021	8/5/2022	8/8/2022
Units																						
Hexavalent Chromium	50	ug/l	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	
Total Nitrad	8.2	ug/l	NA	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	NA	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	
Total Chromium	45**	ug/l	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	
Copper	3.1	ug/l	ND<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<40	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	8.1	ug/l	ND<13	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<13	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	81	ug/l	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	

Notes:
 *Based on SA Chronic Surface Water Classification for Mill River
 Results in **BOLD** exceed criteria
 ND - indicates compound not detected above laboratory reporting limit
 NA - indicates compound not analyzed
 ** = Criteria for trivalent chromium

Table 3
Summary of Surface Water Sampling Results
Superior Plating Company, Inc.
Southport, Connecticut

Analyte	Water Quality Standards/Aquatic Life Criteria*	Units	Sample Name		SPC-SW-45										SPC-SW-4D									
			Depth (feet)		6-1	6-1	6-1	6-1	6-1	6-1	6-1	6-1	6-1	6-1	6-7	3-4	3-4	3-4	6-7	2-4	2-3	3-5-4-5	2-3	3-5-4-5
			4/19/2013	9/14/2016	9/13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/8/2022	4/19/2013	9/14/2016	9/13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/8/2022		
Hexavalent Chromium	50	ug/l	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20
Total Nickel	6.7	ug/l	NA	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	NA	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
Total Chromium	43**	ug/l	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
Copper	2.1	ug/l	ND<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	6.1	ug/l	ND<13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	61	ug/l	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
 *Based on SA Chronic Surface Water Classifications for Mill River
 Results in BOLD exceed criteria
 ND - indicates compound not detected above laboratory reporting limit
 NA - indicates compound not analyzed
 ** = Criteria for trivalent chromium

Table 3
Summary of Surface Water Sampling Results
Superior Plating Company, Inc.
Southport, Connecticut

Analyte	Water Quality Standards/Aquatic Life Criteria*	Units	Sample Name Depth (feet)	SPC-SW-55												SPC-SW-55 DUP													
				0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1			
				4/19/2013	9/14/2014	9/13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/8/2022	9/14/2016	9/13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/8/2022	9/14/2016	9/13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021
Hexavalent Chromium	30	ug/l	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20
Total Nickel	6.2	ug/l	NA	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
Total Chromium	42**	ug/l	ND<20	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
Copper	3.1	ug/l	ND<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	6.1	ug/l	ND<11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	41	ug/l	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note:
* Based on SA-Classification Surface Water Classification for Mill River
Results in BOLD entered criteria
ND - indicates compound not detected above laboratory reporting limit
NA - indicates compound not analyzed
** = Criteria for hexavalent chromium

Table 3
Summary of Surface Water Sampling Results
 Superior Plating Company, Inc.
 Southport, Connecticut

Analyte	Water Quality Standards Aquatic Life Criteria*	Sample Name Depth (feet)	SPC-SW-02										SPC-SW-05		SPC-SW-05 DUF		SPC-SW-02
			7-8	6-7	6-7	4-5	2-3	3-4	5-5.6.5	5-5.6.5	3-4	2-3	0-1	0-1	0-1		
	Units	4/19/2013	9/14/2016	9/13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/8/2022	4/19/2023	4/19/2023	4/19/2023			
Hexavalent Chromium	50	ug/l	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20			
Total Nickel	1.2	ug/l	NA	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	NA	NA			
Total Chromium	41**	ug/l	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50			
Copper	2.1	ug/l	ND<40	NA	NA	NA	NA	NA	NA	NA	NA	ND<40	ND<40	ND<40			
Lead	0.1	ug/l	ND<13	NA	NA	NA	NA	NA	NA	NA	NA	ND<13	ND<13	ND<13			
Zinc	61	ug/l	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	ND<20	ND<20	50			

Notes:
 *Based on SA-Chronic Surface Water Classifications for Mill River
 Results in BOLD indicate a
 ND = indicates compound not detected above laboratory reporting limit
 NA = indicates compound not analyzed
 ** = Cr as a for trivalent chromium

Table 4
Summary of Sediment Sampling Results
Superior Plating Company, Inc.
Southport, CT

Sample Name	Depth (feet)	SPC-SED-1												SPC-SED-1 DUP											
		0-0.5	0.5-1.0	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-1.0	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5		
Analyst	Units	4/19/13	4/19/13	9/14/16	9/13/2017	9/14/2018	9/18/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/8/2022	4/19/13	9/13/2017	9/14/2018	9/18/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/8/2022				
Hexavalent Chromium	mg/kg	ND<5.0	ND<5.0	ND<9.0	ND<11	ND<10	ND<11	33	ND<6.2	ND<9.2	ND<8.1	ND<7.0	ND<5.0	ND<11	ND<15	ND<96	21	ND<9.0	ND<9.2	ND<7.9	ND<71				
Total Chromium	mg/kg	130	130	20	61	56	48	76	159	38	82	42	140	31	35	36	62	120	39	45	70				
Nickel	mg/kg	NA	NA	14	35	14	15	19	14	14	18	10	NA	8.7	34	16	19	14	21	14	4.4				
Copper	mg/kg	65	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	36	NA	NA	NA	NA	NA	NA	NA	NA				
Lead	mg/kg	210	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	360	NA	NA	NA	NA	NA	NA	NA	NA				
Zinc	mg/kg	130	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	160	NA	NA	NA	NA	NA	NA	NA	NA				

Notes:
ND= indicates compound not detected above laboratory reporting limit
NA= Not analyzed

Table 4
Summary of Sediment Sampling Results
Superior Fluting Company, Inc.
Southport, CT

Sample Name	Depth (feet)	SPC-SED-2										SPC-SED-3										SPC-SED-4									
		0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Analyte	Units	9/14/16	9/13/2017	9/14/2018	9/18/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/8/2022	8/13/2017	9/18/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/8/2022	9/13/2017	9/14/2018	9/18/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/8/2022						
Hexavalent Chromium	mg/kg	ND<9.8	ND<9.9	ND<9.3	ND<7.7	11	ND<11	ND<8.2	ND<10	ND<9.9	ND<6.8	ND<8.0	ND<6.4	ND<11	ND<8.6	ND<7.0	ND<6.5	ND<9.7	ND<6.8	ND<7.0	7.7	ND<8.3	ND<8.0	ND<7.9	ND<11						
Total Chromium	mg/kg	190	140	91	110	37	46	76	32	75	410	1,100	19,000	9,800	2,700	570	34	18	34	26	35	66	37	49							
Nickel	mg/kg	27	17	19	17	17	15	19	20	17	33	97	27	77	41	79	23	21	13	11	17	14	19	14	17						
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						

Note:
ND - indicates compound not detected above laboratory reporting limit
NA - Not analyzed

Table 4
 Summary of Sediment Sampling Results
 Superior Plating Company, Inc.
 Southport, CT

Sample Name	Depth (feet)	SPC-SED-5						SPC-SED-7		SPC-SED-8		SPC-SED-9		SPC-SED-10		SPC-SED-11		SPC-SED-12	
		0-0.5	0.5-1	1-1.5	1.5-2	2-3	3-4	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Hexavalent Chromium	Depth	4/22/13	9/14/18	8/16/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/9/2022	4/22/13	4/22/18	4/22/19	4/22/19	4/22/19	4/22/19	4/22/19	4/22/19	4/22/19	4/22/19
	mg/kg	6.5	ND<12	ND<200	26	ND<13	ND<10	ND<9.3	ND<94	ND<5.0	ND<3.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Total Chromium	mg/kg	94	26	26	21	37	19	16	18	25	19	28	37	42	23	22			
Nickel	mg/kg	NA	18	16	15	22	9.7	11	12	NA	NA	NA	NA	NA	NA	NA			
Copper	mg/kg	55	NA	NA	NA	NA	NA	NA	NA	17	13	17	46	74	12	13			
Lead	mg/kg	160	NA	NA	NA	NA	NA	NA	NA	37	23	25	100	86	6.9	8.8			
Zinc	mg/kg	100	NA	NA	NA	NA	NA	NA	NA	46	44	53	110	130	52	53			

Notes:
 ND - in/decates compound not detected above laboratory reporting limit
 NA= Not analyzed



FIGURES

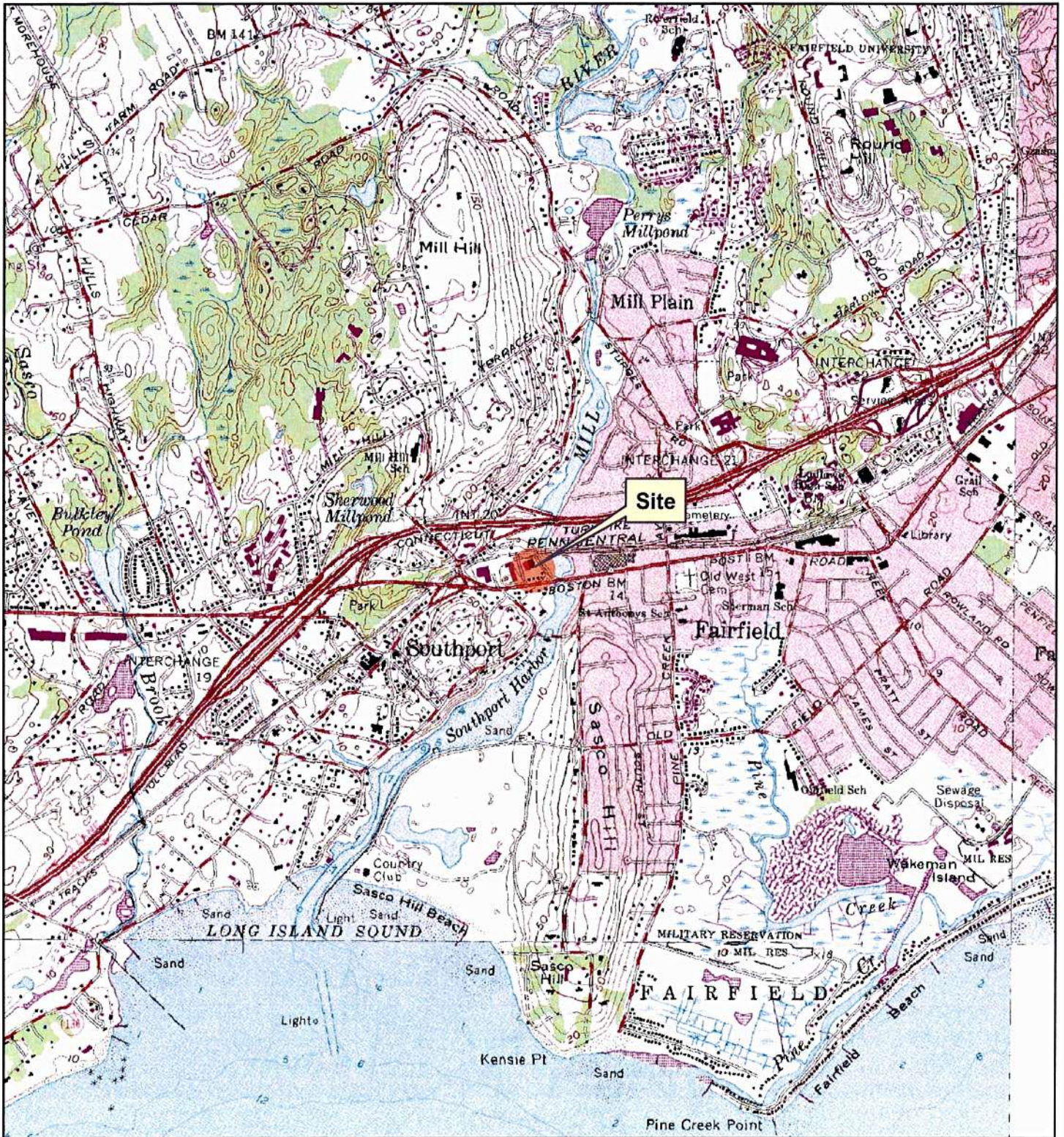
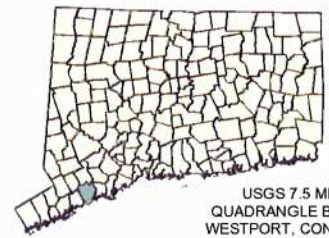


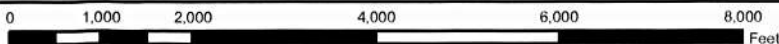
FIGURE 1
SITE LOCUS

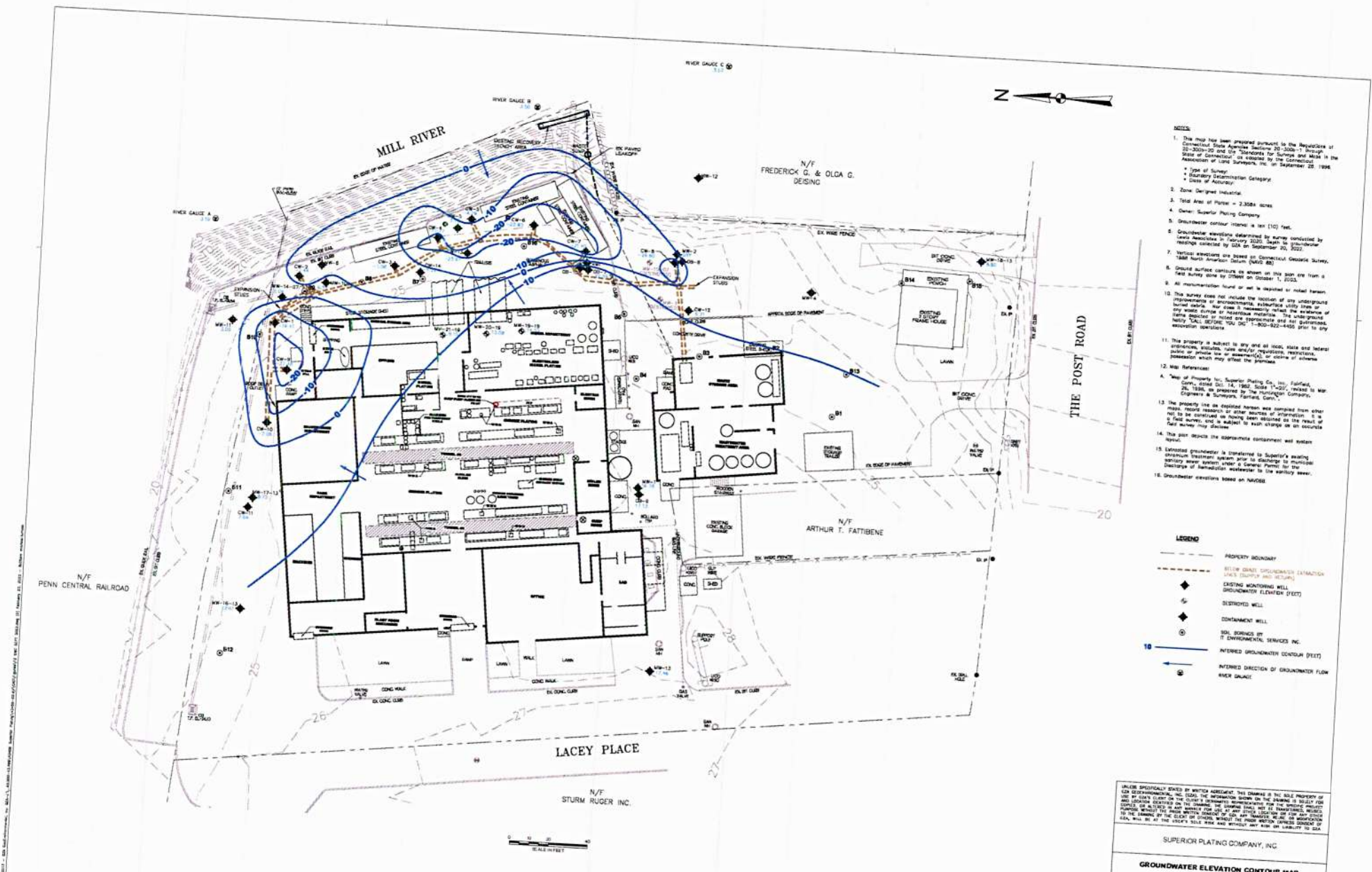
2 LACEY PLACE
FAIRFIELD, CONNECTICUT

Compiled By: SL	Date: 5/30/08
Reviewed By: RKL	Drawn By: MJS
Job Number: 05.0043459.00	Filename: 43459.MXD



USGS 7.5 MINUTE
QUADRANGLE BASE MAP:
WESTPORT, CONNECTICUT
1997





- NOTES**
- The map has been prepared pursuant to the Regulations of Connecticut State Agencies, Sections 20-206a-1 through 20-206a-5 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Commission on the Assessment of Land Surveys, Inc. on September 22, 1996.
 - Type of Survey:
 - Boundary Determination Category,
 - Date of Accuracy:
 - Zone: Designated Industrial.
 - Total Area of Plot: 2.2584 acres.
 - Owner: Superior Plating Company.
 - Groundwater contour interval: 1 foot (10) feet.
 - Groundwater elevations determined by survey conducted by GZA on February 2022. Refer to groundwater log sheets for details.
 - Vertical elevations are based on Connecticut Geodetic Survey, 1988 North American Datum (NAD 83).
 - Ground surface contours as shown on this plan are from a field survey done by GZA on October 1, 2022.
 - All instrumentation found or set in operation or noted herein.
 - This survey does not include the location of any underground improvements or improvements, including utility lines or buried cables. The owner is responsible for the location of any such improvements or utilities. The owner should be notified of any such improvements or utilities prior to any excavation operations.
 - This property is subject to any and all local, state and federal ordinances, regulations, rules and/or "provisions, restrictions, covenants which may affect the premises."
 - Map References:
 - "Map of Property for Superior Plating Co., Inc., Fairfield, Conn., dated Oct. 14, 1962, Scale 1"=20", revised to Map 26, 1988, as prepared by the Planning Company, Copeland & Turley, Fairfield, Conn."
 - The property line as depicted herein was compiled from other maps, records, reports or other sources of information. It is a field survey, and is subject to such change as an accurate field survey may disclose.
 - Exposed groundwater is transferred to Superior's existing primary treatment system prior to discharge to municipal discharge of wastewater treatment to the sanitary sewer.
 - This plan depicts the approximate containment well system layout.
 - Exposed groundwater is transferred to Superior's existing primary treatment system prior to discharge to municipal discharge of wastewater treatment to the sanitary sewer.
 - Groundwater elevations based on NAVD83.

- LEGEND**
- PROPERTY BOUNDARY
 - BROWN DASHED LINE (GROUNDWATER ELEVATION) (FEET) (SURFACE AND BELOW)
 - EXISTING MONITORING WELL (GROUNDWATER ELEVATION (FEET))
 - DESTROYED WELL
 - CONTAINMENT WELL
 - SOIL BORINGS BY T. ENVIRONMENTAL SERVICES, INC.
 - INFERRED GROUNDWATER CONTOUR (FEET)
 - INFERRED DIRECTION OF GROUNDWATER FLOW
 - RIVER GAUGE

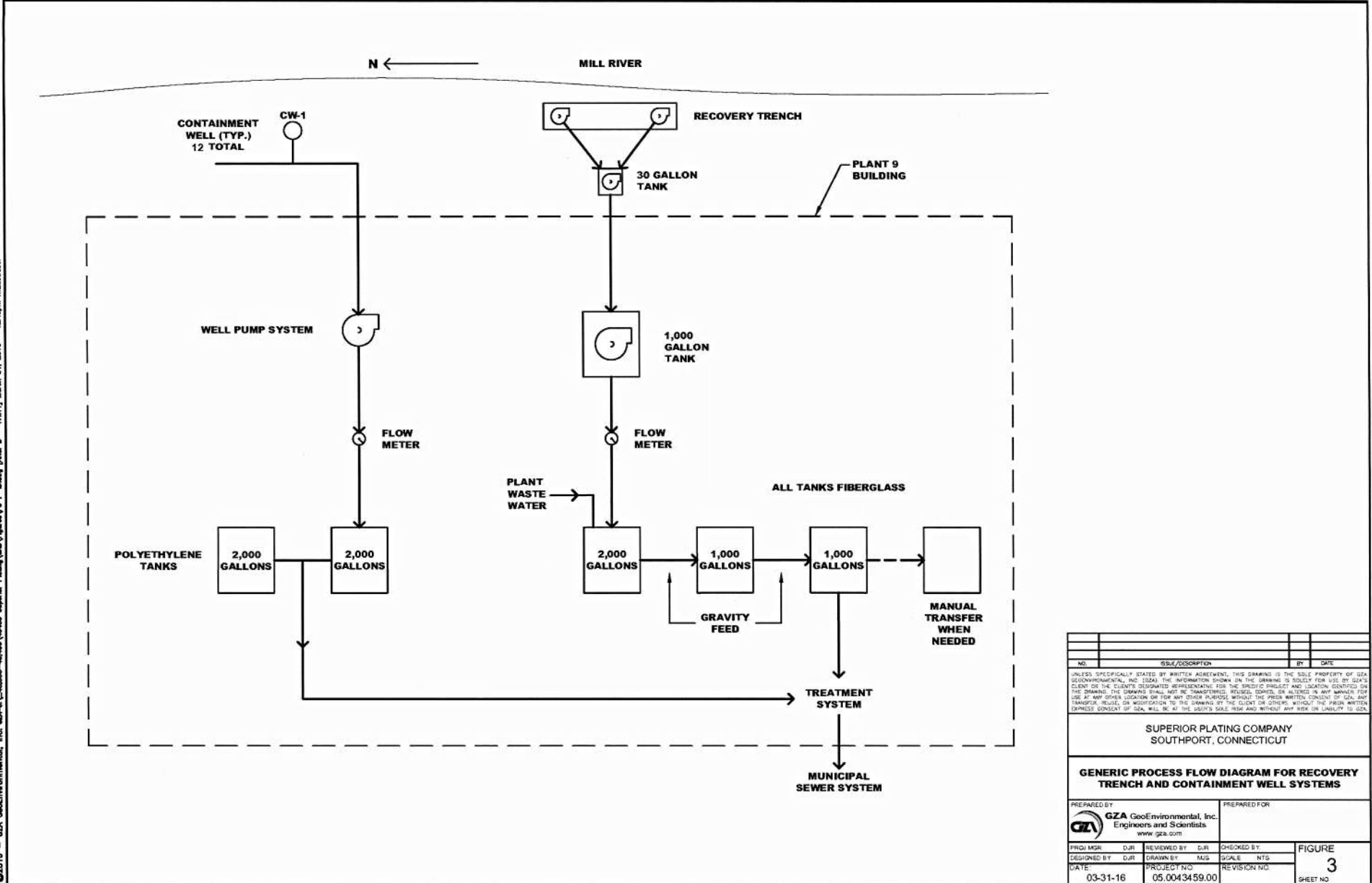
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SUPERIOR PLATING COMPANY, INC.

GROUNDWATER ELEVATION CONTOUR MAP
SEPTEMBER 2022

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists	PREPARED FOR: SUPERIOR PLATING COMPANY
DESIGNED BY: MPM	CHECKED BY: MPM
DRAWN BY: MPM	SCALE: 1"=20'
DATE: 1-24-2023	PROJECT NO: 09 0045489 02
	FIGURE: 2
	SHEET NO: 1

©2016 - GZA GeoEnvironmental, Inc. 021-1-13000-13,001-13,009 Superior Plating\DWG\Superior V3 P-Dwg [Mill B - 17x17] March 31, 2016 - 12:46pm.mrs.msh



NO.	ISSUE/DESCRIPTION	BY	DATE

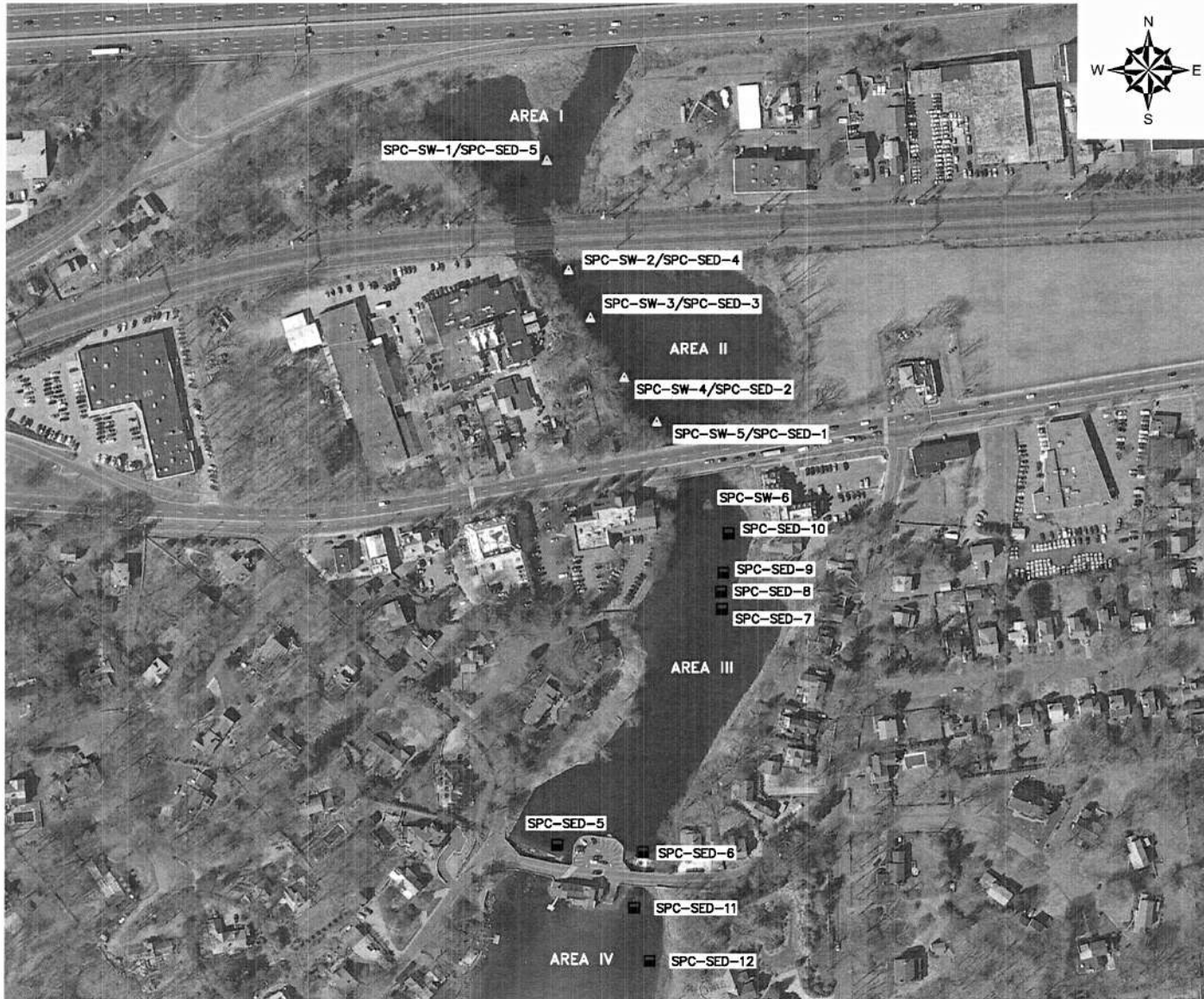
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THIS DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REPRODUCED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY CHANGE, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

**SUPERIOR PLATING COMPANY
SOUTHPORT, CONNECTICUT**

**GENERIC PROCESS FLOW DIAGRAM FOR RECOVERY
TRENCH AND CONTAINMENT WELL SYSTEMS**

PREPARED BY		PREPARED FOR	
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com			
PROJ MGR	DJR	REVIEWED BY	DJR
DESIGNED BY	DJR	DRAWN BY	MJS
DATE	03-31-16	PROJECT NO.	05.0043459.00
		CHECKED BY	
		SCALE	NTS
		REVISION NO.	

FIGURE 3
SHEET NO



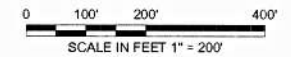
SOURCE:

THIS MAP CONTAINS THE ESRI ARCGIS ONLINE BING MAPS AERIAL LAYER PACKAGE, PUBLISHED DECEMBER 1, 2010 BY ESRI ARCGIS SERVICES AND UPDATED MONTHLY. THIS SERVICE USES UNIFORM NATIONALLY RECOGNIZED DATUM AND CARTOGRAPHY STANDARDS AND A VARIETY OF AVAILABLE SOURCES FROM SEVERAL DATA PROVIDERS.

NOTE:

THE LOCATION OF THE EXPLORATIONS WERE APPROXIMATELY DETERMINED BY USING A TRIMBLE GEOXH HANDHELD GPS UNIT TO OBTAIN COORDINATES IN THE FIELD OF THE EXPLORATION LOCATIONS. THESE LOCATIONS SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

- SPC-SW-2/
SPC-SED-4 ANNUAL SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS
- SPC-SW-6 2013 SURFACE WATER SAMPLING LOCATIONS
- SPC-SED-10 2013 SEDIMENT SAMPLING LOCATIONS



NO.	ISSUE/DESCRIPTION	BY	DATE
<p>UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA (GEOENVIRONMENTAL, INC. (GZA)). THE INFORMATION SHOWN ON THIS DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THIS DRAWING SHALL NOT BE TRANSFERRED, REPRODUCED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THIS DRAWING BY THE CLIENT OR OTHERS WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.</p>			
<p>SUPERIOR PLATING SOUTHPORT, CONNECTICUT</p>			
<p>LONG-TERM SEDIMENT AND SURFACE WATER SAMPLING LOCATIONS</p>			
<p>PREPARED BY GZA Geo-Environmental, Inc. Engineers and Scientists www.gza.com</p>		<p>PREPARED FOR SUPERIOR PLATING 2 LACEY PLACE SOUTHPORT, CT</p>	
<p>PROJ MGR: DJR DESIGNED BY: SDC DATE: SEPT 2020</p>	<p>REVIEWED BY: EL DRAWN BY: SBB PROJECT NO: 43459.00</p>	<p>CHECKED BY: MEA SCALE: 1" = 200' REVISION NO: 0</p>	<p>FIGURE 4 SHEET NO</p>



**APPENDIX A
LIMITATIONS**



USE OF REPORT

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

STANDARD OF CARE

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).
3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.
4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

SUBSURFACE CONDITIONS

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.
6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

COMPLIANCE WITH CODES AND REGULATIONS

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.



SCREENING AND ANALYTICAL TESTING

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.
9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.
10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

INTERPRETATION OF DATA

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

ADDITIONAL INFORMATION

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.



**APPENDIX B
OPERATING DATA**

10 FOOT PIT GROUND WATER DATA

DATE	FLOWRATE L/hr	GPD	CONC Cr+6	INT
1-4-22	24.0	152	N.D. pH 10.3 - yellow	R.D
1-11-22	9.0	57	N.D. pH 10.0 - yellow	R.D
1-18-22	15.0	95	N.D. pH 9.8 - yellow	R.D
1-26-22	19.5	123	N.D. pH 9.1 - yellow	R.D
2-2-22	21.0	133	N.D. pH 9.1 - yellow	R.D
2-11-22	25.5	161	30ppm pH 9.1 - yellow	R.D
2-18-22	27.0	171	18ppm pH 8.2 - yellow	R.D
2-25-22	-	-	41ppm pH 7.0 - yellow	R.D
3-8-22	-	-	99ppm pH 6.2 - yellow	R.D
3-16-22	-	-	58ppm pH 7.4 - yellow	R.D
3-22-22	-	-	57ppm pH 8.2 - yellow	R.D
4-1-22	-	-	76ppm pH 8.0 - yellow	R.D
4-12-22	33.0	209	81ppm pH 6.5 - yellow	R.D
4-27-22	28.0	178	87ppm pH 6.5 - yellow	R.D
5-5-22	24.0	152	79ppm pH 6.5 - yellow	R.D
5-12-22	27.0	171	78ppm pH 6.3 - yellow	R.D
5-19-22	24.0	152	80ppm pH 6.4 - yellow	R.D
5-26-22	22.5	143	70ppm pH 6.3 yellow	R.D
6-2-22	22.5	143	63ppm pH 6.6 yellow	R.D

1-14-22 changed pump / cleared line R.D
 + removed pump - buildup on impeller (stopped working) pumping manually to A.S
 4-1-22 put pump back on

10 FOOT PIT GROUND WATER DATA

DATE	FLOWRATE l/hr	GPD	CONC Cr+6	INT
6-10-22	19.5	123	62 ppm pH 6.9 yellow	R.D
6-17-22	17.0	108	62 ppm pH 6.8 yellow	R.D
6-24-22	15.0	95	61 ppm pH 6.8 yellow	R.D
6-30-22	12.0	76	62 ppm pH 6.7 yellow	R.D
7-7-22	10.5	66	61 ppm pH 6.7 yellow	R.D
7-14-22	9.0	57	61 ppm pH 6.6 yellow	R.D
7-21-22	6.5	41	64 ppm pH 6.7 yellow	R.D
7-29-22	5.5	35	65 ppm pH 6.7 yellow	R.D
8-5-22	4.5	28	75 ppm pH 6.7 yellow	R.D
8-11-22	4.5	28	73 ppm	R.D
8-18-22	3.5	22	70 ppm	R.D
8-25-22	2.5	16	73 ppm	R.D
9-1-22	2.0	12	74 ppm	R.D
9-8-22	2.0	12	78 ppm	R.D
9-15-22	2.5	16	79 ppm	R.D
9-22-22	3.0	19	78 ppm	R.D
9-29-22	3.0	19	82 ppm	R.D
10-6-22	3.5	22	86 ppm	R.D
10-13-22	4.0	25	92 ppm	R.D.

10 FOOT PIT GROUND WATER DATA

DATE	FLOWRATE L/hr	GPD	CONC Cr+6	INT
9-27-21	16.5	104	212	R.D
10-4-21	18.0	114	207	R.D
10-11-21	16.5	104	223	R.D
10-18-21	12.0	76	245	R.D
10-25-21	10.5	66	242	R.D
11-1-21	13.5	85		R.D
turned off pump	11-1-21 10:00am	began injection treatment		R.D
turned pump on	11/30/21 11:40am			R.D
12-1-21	30.0	190	pH 10.7 / orange red	R.D
12-2-21	27.0	171	pH 10.6 " "	R.D
Turned pump off	12-2-21 → 12-10-21			R.D
12-10-21	-	-	pH 10.5 orange/red	R.D
12-13-21	-	-	pH 10.3 orange	R.D
12-14-21	-	-	pH 10.5 orange	R.D
12-15-21	-	-	pH 10.3 orange	R.D
12-16-21	-	-	pH 10.3 orange	R.D
12-17-21	-	-	pH 10.3 orange	R.D
12-20-21	18.0	114	pH 10.5 yellow	R.D

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
11-17-22	9:30 AM	689 912	1224	24	0.3	50	73'	18		R.D
11-18-22	9:30 AM	691169	1257	27	0.3	50	72'	18		R.D
11-21-22	9:30 AM	694618	3449	27	0.3	50	70'	18		R.D
11-22-22	9:30 AM	695734	1116	27	0.3	50	70'	18		R.D
11-23-22	9:30 AM	696839	1105	23	0.3	50	70'	18		R.D
11-28-22	9:30 AM	702487	5648	26	0.3	50	70'	18		R.D
11-29-22	9:30 AM	703588	1101	26	0.3	50	70'	18		R.D
11-30-22	9:30 AM	704679	1091	28	0.3	50	70'	18		R.D
12-1-22	9:30 AM	705769	1090	26	0.3	50	70'	18		R.D
12-2-22	9:30 AM	706858	1089	25	0.3	50	70'	18		R.D

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
10-26-22	9:30AM	667231	944	31	0.4	50	74'	18		R.D
10-27-22	9:30AM	668198	967	31	0.4	50	74'	18		RD
10-28-22	9:30AM	669098	900	31	0.4	50	74'	18		RD
10-31-22	9:30AM	670668	1570 [*]	38	0.4	50	74'	18	* power outage off 24 hrs	RD
11-1-22	9:30AM	671675	1007	31	0.4	50	73'	18		RD
11-2-22	9:30AM	672716	1041	30	0.4	50	73'	18		RD
11-3-22	9:30AM	673713	997	33	0.4	50	73'	18		RD
11-4-22	9:30AM	674723	1010	31	0.4	50	73'	18		RD
11-7-22	9:30AM	677894	3171	31	0.4	50	73'	18		RD
11-8-22	9:30AM	678985	1091	31	0.4	50	73'	18		RD
11-9-22	9:30AM	680013	1028	29	0.4	50	73'	18		R.D
11-10-22	9:30AM	681130	1117	27	0.4	50	73'	18		R.D
11-11-22	9:30AM	682358	1228	27	0.4	50	73'	18		RD
11-14-22	9:30AM	686103	3745	25	0.3	50	73'	18		RD
11-15-22	9:30AM	687293	1190	25	0.3	50	73'	18		RD
11-16-22	9:30AM	688688	1395	24	0.3	50	73'	18		RD

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
10-4-22	9:30AM	646742	982	32	0.4	50	74'	18		R.D
10-5-22	9:30AM	647729	987	33	0.4	50	74'	18		R.D
10-6-22	9:30AM	648680	951	32	0.4	50	74'	18		R.D
10-7-22	9:30AM	649631	951	32	0.4	50	74'	18		R.D
10-10-22	9:30AM	652432	2801	31	0.4	50	74'	18		R.D
10-11-22	9:30AM	653390	958	31	0.4	50	74'	18		R.D
10-12-22	9:30AM	654312	922	31	0.4	50	74'	18		R.D
10-13-22	9:30AM	655232	920	29	0.4	50	74'	18		R.D
10-14-22	9:30AM	656190	958	31	0.4	50	74'	18		R.D
10-17-22	9:30AM	658951	2761	29	0.4	50	74'	18		R.D
10-18-22	9:30AM	659879	928	32	0.4	50	74'	18		R.D
10-19-22	9:30AM	660781	902	31	0.4	50	74'	18		R.D
10-20-22	9:30AM	661678	897	31	0.4	50	74'	18		R.D
10-21-22	9:30AM	662605	927	32	0.4	50	74'	18		R.D
10-24-22	9:30AM	665334	2729	32	0.4	50	74'	18		R.D
10-25-22	9:30AM	666287	948	31	0.4	50	74'	18		R.D

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr-6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
9-12-22	9:30 AM	624552	1677	37	0.5	*	76	18	System shut off L/C to transfer R.D. PUMP N.G. Fixed -	
9-13-22	9:30 AM	625839	1287	37	0.4	*	76	18		R.D.
9-14-22	9:30 AM	626997	1158	33	0.4	50	76	18		R.D.
9-15-22	9:30 AM	628055	1058	38	0.4	49	75	18	GZA repaired wells 2, 10	R.D.
9-16-22	9:30 AM	628991	936	33	0.4	49	75	18		R.D.
9-19-22	9:30 AM	632072	3081	34	0.4	49	75	18		R.D.
9-20-22	9:30 AM	633038	966	34	0.4	49	76	18	GZA sample	R.D.
9-21-22	9:30 AM	634004	966	34	0.4	49	76	18	" "	R.D.
9-22-22	9:30 AM	635006	1002	34	0.4	49	76	18		R.D.
9-23-22	9:30 AM	636037	1031	34	0.4	49	76	18		R.D.
9-26-22	9:30 AM	638916	2879	32	0.4	49	75	18		R.D.
9-27-22	9:30 AM	639916	1000	34	0.4	49	75	18		R.D.
9-28-22	9:30 AM	640889	973	32	0.4	49	75	18		R.D.
9-29-22	9:30 AM	641830	941	32	0.4	49	75	18		R.D.
9-30-22	9:30 AM	642802	972	34	0.4	49	75	18		R.D.
10-3-22	9:30 AM	645760	2958	34	0.4	50	74	18		R.D.

* pressure gauge N.G. - stuck on 40psi ordered a new one

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
8-18-22	9:30am	604018	768	42	0.4	55	78'	18		R.D
8-19-22	8:30am	604784	766	47	0.4	55	78'	18		P.N.
8-22-22	9:30am	606828	2044	49	0.4	55	78'	18		R.D
8-23-22	9:30am	607516	688	47	0.4	55	78'	18		R.D
8-24-22	9:30am	608232	716	49	0.4	55	78'	18	(#3,4,5,6)	R.D
8-25-22	9:30am	609000	768	62	0.4	55	78'	18	GZA repairing wells	R.D
8-26-22	9:30am	609923	923	49	0.4	53	78'	18		R.D
8-29-22	9:30am	612687	2764	44	0.4	53	78'	18		R.D
8-30-22	9:30am	613585	898	38	0.4	53	79'	18		R.D
8-31-22	9:30am	614483	898	39	0.4	53	79'	18		R.D
9-1-22	9:30am	615382	899	39	0.4	53	79'	18		R.D
9-2-22	9:30am	616273	891	39	0.4	53	79'	18		R.D
9-6-22	9:30am	619844	3571	39	0.4	53	78'	18		R.D
9-7-22	9:30am	620984	1140	39	0.5	53	78'	18		R.D
9-8-22	9:30am	621919	935	41	0.4	53	78'	18	GZA sampling river	R.D
9-9-22	9:30am	622875	956	39	0.4	53	78'	18		R.D

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
7-27-22	9:30AM	586961	768	51	0.4	55	77'	18		R.D
7-28-22	9:30AM	587756	795	53	0.4	55	77'	18		R.D
7-29-22	9:30AM	588545	789	49	0.4	55	77'	18		R.D
8-1-22	8:00AM	590873	2328	47	0.4	55	77'	18		J.W
8-2-22	9:30AM	591717	844	48	0.4	55	77'	18		R.D
8-3-22	9:30AM	592482	765	49	0.4	55	77'	18		R.D
8-4-22	9:30AM	593263	781	52	0.4	55	77'	18		R.D
8-5-22	9:30AM	594026	763	52	0.4	55	77'	18		R.D
8-8-22	9:30AM	596287	2261	52	0.4	55	77'	18		R.D
8-9-22	9:30AM	597025	738	50	0.4	55	78'	18		R.D
8-10-22	9:30AM	597788	763	48	0.4	55	78'	18		R.D
8-11-22	9:30AM	598597	809	48	0.4	55	78'	18		R.D
8-12-22	9:30AM	599414	817	50	0.4	55	78'	18	* GEA Sampling	R.D
8-15-22	9:30AM	601721	2307	51	0.4	55	78'	18		R.D
8-16-22	9:30AM	602484	763	46	0.4	55	78'	18		R.D
8-17-22	9:30AM	603250	766	44	0.4	55	78'	18		R.D

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
7-5-22	1:30pm	568808	3631	61	0.4	55	75	18		R.D
7-6-22	9:30AM	569523	715	59	0.4	55	75	18		R.D
7-7-22	9:30AM	570365	842	61	0.4	55	75	18		R.D
7-8-22	9:30AM	571210	845	61	0.4	55	75	18		R.D
7-11-22	9:30AM	573777	2567	58	0.4	55	75	18		R.D
7-12-22	9:30AM	574620	843	58	0.4	55	75	18		R.D
7-13-22	9:30AM	575508	888	56	0.4	55	75	18		R.D
7-14-22	9:30AM	576402	894	56	0.4	55	75	18		R.D
7-15-22	9:30AM	577283	881	60	0.4	55	75	18		R.D
7-18-22	9:30AM	579757	2474	57	0.4	55	75	18		R.D
7-19-22	9:30AM	580628	871	55	0.4	55	76	18		R.D
7-20-22	9:30AM	581446	818	55	0.4	55	76	18		R.D
7-21-22	9:30AM	582235	789	53	0.5	55	76	18		R.D
7-22-22	9:30AM	583050	815	54	0.5	55	76	18		R.D
7-25-22	9:30AM	585400	2350	55	0.4	55	76	18		R.D
7-26-22	9:30AM	586193	793	55	0.4	55	77	18		R.D

WASTEWATERDATA5

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
6-10-22	9:30AM	545176	1051	68	0.4	53	73'	18		R.D
6-13-22	9:30AM	548235	3059	68	0.4	53	73	18		RD
6-14-22	9:30AM	549269	1034	68	0.4	53	73'	18		R.D
6-15-22	9:30AM	550353	1084	66	0.4	53	73'	18		R.D
6-16-22	9:30AM	551408	1055	66	0.4	53	73'	18		R.D
6-17-22	9:30AM	552408	1000	66	0.4	53	73'	18		R.D
6-20-22	9:30AM	555232	2824	61	0.4	54	74'	18		R.D
6-21-22	9:30AM	556152	920	63	0.4	54	74'	18		R.D
6-22-22	9:30AM	557052	900	61	0.4	54	74'	18		R.D
6-23-22	9:30AM	557974	922	59	0.4	54	74	18		RD
6-24-22	9:30AM	558895	921	61	0.4	54	74'	18		RD
6-27-22	9:30AM	561587	2692	60	0.4	54	74'	18		RD
6-28-22	9:30AM	562487	900	62	0.4	54	74'	18		R.D
6-29-22	9:30AM	563410	923	58	0.4	54	74'	18		RD
6-30-22	9:30AM	564307	897	58	0.4	54	74'	18		R.D
7-1-22	9:30AM	565177	870	60	0.4	55	75'	18		R.D

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
5-18-22	9:30 AM	520937	1187	71	0.4	52	68'	18		R.D
5-19-22	9:30 AM	522097	1160	71	0.4	52	68'	18		R.D
5-20-22	9:30 AM	523227	1130	71	0.5	52	69'	18		R.D
5-23-22	9:30 AM	526489	3262	70	0.5	52	69'	18		R.D
5-24-22	9:30 AM	527559	1070	72	0.4	52	69'	18		R.D
5-25-22	9:30 AM	528638	1079	70	0.4	52	69'	18		R.D
5-26-22	9:30 AM	529665	1027	72	0.4	52	70'	18		R.D
5-27-22	9:30 AM	530720	1055	68	0.4	52	70'	18		R.D
5-31-22	9:30 AM	534925	4205	69	0.4	53	72'	18		R.D
6-1-22	9:30 AM	535950	1025	69	0.5	53	72'	18		R.D
6-2-22	9:30 AM	536978	1028	69	0.4	53	72'	18		R.D
6-3-22	9:30 AM	538034	1056	69	0.4	53	72'	18		R.D
6-6-22	9:30 AM	541120	3086	72	0.4	53	72'	18		R.D
6-7-22	9:30 AM	542121	1001	71	0.4	53	72'	18		R.D
6-8-22	9:30 AM	543122	1001	70	0.4	53	72'	18		R.D
6-9-22	9:30 AM	544125	1003	70	0.4	53	72'	18		R.D

WASTEWATERDATA5

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
4-26-22	9:30AM	495356	1156	84	0.5	51	67	18		R.D
4-27-22	9:30AM	496489	1133	85	0.5	51	67	18		R.D
4-28-22	9:30AM	497619	1130	86	0.4	51	68	18		R.D
4-29-22	9:30AM	498748	1129	86	0.5	51	68	18		R.D
5-2-22	9:30AM	502098	3350	89	0.4	51	68	18		R.D
5-3-22	9:30AM	503174	1076	88	0.4	51	68	18		R.D
5-4-22	9:30AM	504228	1054	84	0.4	51	68	18	* Change seals on pump	R.D
5-5-22	9:30AM	505370	1142	84	0.4	52	68	18		R.D
5-6-22	9:30AM	506530	1160	84	0.4	52	68	18		R.D
5-9-22	9:30AM	510201	3671	80	0.5	52	68	18		R.D
5-10-22	9:30AM	511388	1187	80	0.4	52	68	18		R.D
5-11-22	9:30AM	512579	1191	82	0.5	52	68	18		R.D
5-12-22	9:30AM	513767	1188	80	0.5	52	68	18		R.D
5-13-22	9:30AM	514900	1133	80	0.5	52	68	18		R.D
5-16-22	9:30AM	518489	3589	75	0.4	52	68	18		R.D
5-17-22	9:30AM	519750	1261	73	0.4	52	68	18		R.D

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr-6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
4-1-22	9:30AM	462122	1288	71	0.4	50	65	18		R.D
4-4-22	9:30AM	465886	3764	70	0.5	50	65	18		R.D
4-5-22	9:30AM	467116	1230	73	0.5	50	65	18		R.D
4-6-22	9:30AM	468325	1209	72	0.5	50	65	18		R.D
4-7-22	9:30AM	469533	1208	74	0.5	50	65	18		R.D
4-8-22	9:30AM	470929	1396	70	0.4	50	65	18		R.D
4-11-22	9:30AM	475630	4701	72	0.4	51	65	18		R.D
4-12-22	9:30AM	476952	1322	76	0.4	51	65	18		R.D
4-13-22	9:30AM	478241	1289	78	0.5	51	65	18		R.D
4-14-22	9:30AM	479498	1257	79	0.5	51	65	18		R.D
4-18-22	8:00AM	484451	4953	81	0.4	51	65	18		J.W.
4-19-22	8:00AM	486103	1652	69	0.4	51	65	18		J.W.
4-20-22	8:00AM	487692	1589	76	0.4	51	65	18		J.W.
4-21-22	8:00AM	489245	1553	76	0.4	51	65	18		J.W.
4-22-22	8:00AM	490408	1163	78	0.4	51	65	18		J.W.
4-25-22	9:30AM	494200	3792	80	0.5	51	65	18		R.D

WASTEWATERDATA5

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
3-9-22	9:30am	433771	1155	50	0.5	50	64	18		R.D
3-10-22	9:30AM	434973	1202	54	0.5	50	64	18		RD
3-11-22	9:30AM	436149	1176	56	0.5	50	64	18		R.D
3-14-22	9:30 AM	439688	3539	59	0.4	50	65	18		R.D
3-15-22	9:30AM	440892	1204	58	0.5	50	65	18		R.D
3-16-22	9:30AM	442094	1202	58	0.5	50	65	18		R.D
3-17-22	9:30AM	443251	1157	61	0.5	50	65	18		RA
3-18-22	9:30AM	444427	1176	61	0.5	50	65	18		R.D
3-21-22	9:30AM	447990	3563	61	0.5	50	65	18		R.D
3-22-22	9:30AM	449143	1153	62	0.5	50	65	18		R.D
3-23-22	9:30AM	450355	1212	60	0.5	50	65	18	GZA repair #3, 10, 14	RD
3-24-22	9:30AM	451696	1341	57	0.4	50	65	18		R.D
3-25-22	9:30AM	453047	1351	61	0.4	50	65	18		R.D
3-29-22	9:30 AM	458294	5247	69	0.5	51	65	18		RD
3-30-22	9:30 AM	459577	1283	65	0.4	51	65	18		RD
3-31-22	9:30 AM	460834	1257	71	0.5	50	65	18		R.D

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
2-15-22	9:30 AM	406779	1266	34	0.4	48	63°	18		R.D
2-16-22	9:30 AM	407994	1215	40	0.4	48	63°	18		R.D
2-17-22	9:30 AM	409214	1220	40	0.5	48	63°	18		R.D
2-18-22	9:30 AM	410430	1216	40	0.4	48	63°	18		R.D
2-21-22	9:30 AM	414152	3722	44	0.5	48	63°	18		R.D
2-22-22	9:30 AM	415357	1205	42	0.4	49	63	18		R.D
2-23-22	9:30 AM	416596	1239	42	0.4	49	63°	18		R.D
2-24-22	9:30 AM	417833	1237	40	0.4	49	63°	18		R.D
2-25-22	9:30 AM	419093	1260	40	0.4	49	63°	18		R.D
2-28-22	9:30 AM	422839	3746	43	0.5	49	63°	18		R.D
3-1-22	9:30 AM	424103	1264	45	0.5	49	63°	18		R.D
3-2-22	9:30 AM	425372	1269	43	0.4	49	63°	18		R.D
3-3-22	9:30 AM	426613	1241	45	0.4	49	63	18		R.D
3-4-22	9:30 AM	427825	1212	43	0.5	49	63°	18		R.D
3-7-22	9:30 AM	431429	3604	46	0.5	49	63°	18		R.D
3-8-22	9:30 AM	432616	1187	48	0.5	49	63°	18		R.D

WASTEWATERDATA5

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
1-24-22	9:30AM	378503	3800	35	0.4	48	64'	18		RD
1-25-22	9:30AM	379717	1214	35	0.3	48	64'	18		RD
1-26-22	9:30AM	380984	1267	35	0.4	48	64'	18		RD
1-27-22	9:30AM	382199	1215	32	0.3	48	64'	18		RD
1-28-22	9:30AM	383414	1215	33	0.4	48	64'	18		RD
1-31-22	9:30AM	387137	3723	34	0.3	48	64'	18		RD
2-1-22	9:30AM	388351	1214	35	0.4	48	64'	18		RD
2-2-22	9:30AM	389599	1248	35	0.4	48	64'	18		RD
2-3-22	9:30AM	390802	1203	37	0.3	48	64'	18		RD
2-4-22	9:30AM	392118	1316	39	0.5	48	63'	18		RD
2-7-22	9:30AM	396452	4334	42	0.5	48	63'	18		RD
2-8-22	9:30AM	397777	1325	34	0.5	48	63'	18		RD
2-9-22	9:30AM	399121	1344	34	0.5	48	63'	18		RD
2-10-22	9:30AM	400447	1326	34	0.7	48	63'	18		RD
2-11-22	9:30AM	401743	1296	36	0.6	48	63'	18		RD
2-14-22	9:30AM	405513	3770	40	0.4	48	63'	18		RD

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
					- 2022	—				
1-3-22	9:30 AM	350613	12,775	34	0.4	47	66°	18		R.D
1-4-22	9:30 AM	352046	1433	29	0.4	47	66°	18		R.D
1-5-22	9:30 AM	353447	1401	30	0.6	47	66°	18		R.D
1-6-22	9:30 AM	354774	1327	29	0.5	47	66°	18		R.D
1-7-22	9:30 AM	356064	1290	30	0.5	47	66°	18		R.D
1-10-22	9:30 AM	360100	4036	28	0.3	48	65°	18		R.D
1-11-22	9:30 AM	361387	1287	28	0.3	48	65°	18		R.D
1-12-22	9:30 AM	362650	1263	27	0.3	48	65°	18		R.D
1-13-22	9:30 AM	363921	1271	30	0.4	48	65°	18		R.D
1-14-22	9:30 AM	365160	1239	31	0.3	48	65°	18		R.D
1-17-22	9:30 AM	369149	3989	29	0.3	48	64°	18		R.D
1-18-22	9:30 AM	370812	1663	29	0.3	48	64°	18		R.D
1-19-22	9:30 AM	372108	1296	33	0.4	48	64°	18		R.D
1-20-22	9:30 AM	373407	1299	33	0.4	48	64°	18		R.D
1-21-22	9:30 AM	374703	1296	33	0.4	48	64°	18		R.D

DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INITIALS
12-2-21	9:30AM	312099	1246	27	0.3	46	76	18		R.D
12-3-21	9:30AM	313363	1264	27	0.3	46	70	18		R.D
12-6-21	9:30AM	317099	3736	30	0.3	46	70	18		R.D
12-7-21	9:30AM	318397	1298	30	0.3	46	70	18		R.D
12-8-21	9:30AM	319616	1219	27	0.3	46	70	18		R.D
12-9-21	9:30AM	320834	1218	27	0.3	46	70	18		R.D
12-10-21	9:30AM	322079	1245	27	0.3	46	70	18		R.D
12-13-21	9:30AM	325729	3650	32	0.3	46	70	18		R.D
12-14-21	9:30AM	326972	1243	29	0.3	46	70	18		R.D
12-15-21	9:30AM	328187	1215	27	0.3	46	70	18		R.D
12-16-21	9:30AM	329401	1214	24	0.3	46	70	18		R.D
12-17-21	9:30AM	330618	1217	27	0.3	46	70	18		R.D
12-20-21	9:30AM	334238	3620	28	0.3	46	70	18		R.D
12-21-21	9:30AM	335455	1217	28	0.3	47	69	18		R.D

DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
11-30-22	9:30 AM	2487760	260	25	2.1	0	20.1	20.1	R.D
12-1-22	9:30 AM	2488200	440	26	1.8	0.5"	20.1	20.1	R.D
12-2-22	9:30 AM	2488510	310	23	1.7	0	20.1	20.1	R.D

DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
11-4-22	9:30AM	2481640	150	24	2.3	0	<0.1	<0.1	RP
11-7-22	9:30AM	2482170	530	29	2.5	0	<0.1	<0.1	R.D
11-8-22	9:30AM	2482410	240	27	2.5	0	<0.1	<0.1	RD
11-9-22	9:30AM	2482550	140	27	2.3	0	<0.1	<0.1	R.D
11-10-22	9:30AM	2482780	230	27	2.3	0	<0.1	<0.1	R.D
11-11-22	9:30AM	2482940	160	27	2.4	0	<0.1	<0.1	RD
11-14-22	9:30AM	2483700	760	23	2.0	1.0"	<0.1	<0.1	R.D
11-15-22	9:30AM	2483880	180	27	2.2	0	<0.1	<0.1	RD
11-16-22	9:30AM	2484110	230	22	2.0	0.5"	<0.1	<0.1	RD
11-17-22	9:30AM	2484340	230	27	1.9	0	<0.1	<0.1	RD
11-18-22	9:30AM	2484540	200	24	2.1	0	<0.1	<0.1	RD
11-21-22	9:30AM	2485070	530	30	2.4	0	<0.1	<0.1	RD
11-22-22	9:30AM	2485230	160	28	2.6	0	<0.1	<0.1	R.D
11-23-22	9:30AM	2485400	170	23	2.7	0	<0.1	<0.1	R.D
11-28-22	9:30AM	2487230	1830	19	1.3	0.75"	<0.1	<0.1	R.D
11-29-22	9:30AM	2487500	270	21	2.1	0	<0.1	<0.1	RD

DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
10-13-22	9:30 AM	2475870	140	29	3.5	0	<0.1	<0.1	RD
10-14-22	9:30 AM	2476440	570	12	0.9	1.75"	<0.1	<0.1	RD
10-17-22	9:30 AM	2477080	640	27	2.3	0.1"	<0.1	<0.1	RD
10-18-22	9:30 AM	2477210	130	29	3.2	0.2"	<0.1	<0.1	RD
10-19-22	9:30 AM	2477340	130	29	2.7	0	<0.1	<0.1	RD
10-20-22	9:30 AM	2477450	110	32	2.9	0	<0.1	<0.1	RD
10-21-22	9:30 AM	2477550	100	32	3.0	0	<0.1	<0.1	RD
10-24-22	9:30 AM	2477920	370	25	2.3	0.2"	<0.1	<0.1	RD
10-25-22	9:30 AM	2478250	330	21	1.9	1.0"	<0.1	<0.1	RD
10-26-22	9:30 AM	2478730	480	21	2.3	0.1"	<0.1	<0.1	RD
10-27-22	9:30 AM	2479550	820	19	1.6	0	<0.1	<0.1	RD
10-28-22	9:30 AM	2479820	270	21	2.5	0	<0.1	<0.1	RD
10-31-22	9:30 AM	2481020	1200	27	1.8	0	<0.1	<0.1	RD
11-1-22	9:30 AM	2481190	170	26	2.5	0.25"	<0.1	<0.1	RD
11-2-22	9:30 AM	2481330	140	24	2.2	0	<0.1	<0.1	RD
11-3-22	9:30 AM	2481490	160	26	2.8	0	<0.1	<0.1	RD

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DATE	TIME	TRENCH WATER METER	TRENCH WATER GAUGS	Ct-6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
9-21-22	9:30AM	2470530	80	44	3.5	0	LO.1	LO.1	LD
9-22-22	9:30AM	2470630	100	42	3.3	0.5"	LO.1	LO.1	LD
9-23-22	9:30AM	247730	100	38	2.8	0.4"	LO.1	LO.1	LD
9-26-22	9:30AM	2471200	470	7	0.5	0.35"	LO.1	LO.1	LD
9-27-22	9:30AM	2471500	300	23	2.8	0	LO.1	LO.1	LD
9-28-22	9:30AM	2471750	250	25	2.3	0	LO.1	LO.1	LD
9-29-22	9:30AM	2471870	120	30	2.8	0	LO.1	LO.1	LD
9-30-22	9:30AM	2471970	100	36	3.7	0	LO.1	LO.1	LD
10-3-22	9:30AM	2473070	1070	14	1.3	0.5"	LO.1	LO.1	LD
10-4-22	9:30AM	2473600	560	16	1.8	0.35"	LO.1	LO.1	LD
10-5-22	9:30AM	2474020	420	19	2.2	0.6"	LO.1	LO.1	LD
10-6-22	9:30AM	2474360	340	19	2.0	0.4"	LO.1	LO.1	LD
10-7-22	9:30AM	2474690	330	18	1.7	0	LO.1	LO.1	LD
10-10-22	9:30AM	2475280	590	29	2.7	0	LO.1	LO.1	LD
10-11-22	9:30AM	2475550	270	24	2.4	0	LO.1	LO.1	LD
10-12-22	9:30AM	2475730	180	26	2.0	0	LO.1	LO.1	LD

DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
8-29-22	9:30AM	2460980	190	40	3.4	0	<0.1	<0.1	R.D
8-30-22	9:30 AM	2460980	70	38	3.0	0	<0.1	<0.1	R.D
8-31-22	9:30AM	2461120	140	28	2.2	0	<0.1	<0.1	R.D
9-1-22	9:30AM	2461210	90	28	2.3	0	<0.1	<0.1	R.D
9-2-22	9:30AM	2461280	70	36	2.5	0	<0.1	<0.1	R.D
9-6-22	9:30AM	2461480	200	39	2.5	1.25"	<0.1	<0.1	R.D
9-7-22	9:30AM	2462480	1000	11	1.7	3.3"	<0.1	<0.1	R.D
9-8-22	9:30AM	2463300	820	13	1.1	0	<0.1	<0.1	R.D
9-9-22	9:30AM	2464510	1210	7	0.8	0	<0.1	<0.1	R.D
9-12-22	9:30AM	2466510	2000	13	1.8	0.7"	<0.1	<0.1	R.D
9-13-22	9:30AM	2468100	1590	13	1.5	2.2"	<0.1	<0.1	R.D
9-14-22	9:30AM	2469800	1700	13	1.5	0	<0.1	<0.1	R.D
9-15-22	9:30AM	247020	220	29	3.0	0	<0.1	<0.1	R.D
9-16-22	9:30AM	2470150	130	35	3.3	0	<0.1	<0.1	R.D
9-19-22	9:30AM	2470390	240	45	3.8	0	<0.1	<0.1	R.D
9-20-22	9:30AM	2470450	60	45	3.7	0.2"	<0.1	<0.1	R.D

DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
8-5-22	9:30 AM	2454890	60	41	3.2	0	<0.1	<0.1	R.D.
8-8-22	9:30 AM	2455010	120	38	2.7	0	<0.1	<0.1	R.D.
8-9-22	9:30 AM	2455080	70	38	2.5	0	<0.1	<0.1	R.D.
8-10-22	9:30 AM	2455420	340	15	1.0	0	<0.1	<0.1	R.D.
8-11-22	9:30 AM	2456500	1080	8	0.8	0	<0.1	<0.1	R.D.
8-12-22	9:30 AM	2457740	1240	8	0.9	0	<0.1	<0.1	R.D.
8-15-22	9:30 AM	2459490	1750	15	1.8	0	<0.1	<0.1	R.D.
8-16-22	9:30 AM	2459740	250	28	2.8	0	<0.1	<0.1	R.D.
8-17-22	9:30 AM	2460120	380	25	2.2	0	<0.1	<0.1	R.D.
8-18-22	9:30 AM	2460390	270	24	2.4	0.4"	<0.1	<0.1	R.D.
8-19-22	8:30 AM	2460500	110	37	3.0	0	<0.1	<0.1	J.W.
8-22-22	9:30 AM	2460570	70	39	4.0	0	<0.1	<0.1	R.D.
8-23-22	9:30 AM	2460600	30	47	4.1	0.2"	<0.1	<0.1	R.D.
8-24-22	9:30 AM	2460650	50	47	3.4	0.1"	<0.1	<0.1	R.D.
8-25-22	9:30 AM	2460680	30	45	3.4	0	<0.1	<0.1	R.D.
8-26-22	9:30 AM	2460720	40	44	3.5	0	<0.1	<0.1	R.D.

DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
7-14-22	9:30AM	2451410	1160	10	0.4	0	<0.1	<0.1	R.D
7-15-22	9:30AM	2452340	930	11	0.7	0	<0.1	<0.1	R.D
7-18-22	9:30AM	2453200	860	38	2.7	0	<0.1	<0.1	R.D
7-19-22	9:30AM	2453510	310	32	2.4	2.5"	<0.1	<0.1	R.D
7-20-22	9:30AM	2453680	170	38	2.8	0	<0.1	<0.1	R.D
7-21-22	9:30AM	2453800	120	41	3.5	0	<0.1	<0.1	R.D
7-22-22	9:30AM	2453910	110	45	4.0	0	<0.1	<0.1	R.D
7-25-22	9:30AM	2454100	190	44	3.9	0	<0.1	<0.1	R.D
7-26-22	9:30AM	2454170	70	46	4.0	0.9"	<0.1	<0.1	R.D
7-27-22	9:30AM	2454220	50	51	3.7	0	<0.1	<0.1	R.D
7-28-22	9:30AM	2454290	70	46	3.8	0	<0.1	<0.1	R.D
7-29-22	9:30AM	2454360	70	47	3.5	0	<0.1	<0.1	R.D
8-1-22	8:00AM	2454600	240	45	3.5	0	<0.1	<0.1	R.D
8-2-22	9:30AM	2454660	60	41	3.0	0.7"	<0.1	<0.1	R.D
8-3-22	9:30AM	2454750	90	41	3.0	0	<0.1	<0.1	R.D
8-4-22	9:30AM	2454830	80	45	3.0	0	<0.1	<0.1	R.D

DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
6-21-22	9:30 AM	2445620	230	34	1.9	0	<0.1	<0.1	R.D
6-22-22	9:30 AM	2445820	200	40	2.0	0.2"	<0.1	<0.1	R.D
6-23-22	9:30 AM	2446060	240	38	2.0	0.3"	<0.1	<0.1	R.D
6-24-22	9:30 AM	2446300	240	38	1.8	0	<0.1	<0.1	R.D
6-27-22	9:30 AM	2446830	530	46	2.4	0	<0.1	<0.1	R.D
6-28-22	9:30 AM	2447050	220	42	1.9	1.5"	<0.1	<0.1	R.D
6-29-22	9:30 AM	2447240	190	40	2.1	0	<0.1	<0.1	R.D
6-30-22	9:30 AM	2447400	160	40	1.9	0	<0.1	<0.1	R.D
7-1-22	9:30 AM	2447530	130	42	1.7	0	<0.1	<0.1	R.D
7-5-22	9:30 AM	2448000	470	43	2.1	0	<0.1	<0.1	R.D
7-6-22	9:30 AM	2448080	80	41	2.0	0	<0.1	<0.1	R.D
7-7-22	9:30 AM	2448170	90	39	2.0	0	<0.1	<0.1	R.D
7-8-22	9:30 AM	2448260	90	43	1.7	0	<0.1	<0.1	R.D
7-11-22	9:30 AM	2448720	460	33	1.3	0	<0.1	<0.1	R.D
7-12-22	9:30 AM	2449120	400	17	0.8	0	<0.1	<0.1	R.D
7-13-22	9:30 AM	2450250	1130	15	0.7	0	<0.1	<0.1	R.D

DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
5-27-22	9:30 AM	2430120	340	36	1.0	0	<0.1	<0.1	R.D
5-31-22	9:30 AM	2431930	1810	35	1.0	0.6"	<0.1	<0.1	R.D
6-1-22	9:30 AM	2432960	430	31	0.7	0.25"	<0.1	<0.1	R.D
6-2-22	9:30 AM	2433040	680	21	0.6	0.6"	<0.1	<0.1	R.D
6-3-22	9:30 AM	2433960	920	25	0.6	1.2"	<0.1	<0.1	R.D
6-6-22	9:30 AM	2435840	1880	35	0.9	0	<0.1	<0.1	R.D
6-7-22	9:30 AM	2436220	380	35	0.8	0	<0.1	<0.1	R.D
6-8-22	9:30 AM	2436550	330	35	1.0	0.25"	<0.1	<0.1	R.D
6-9-22	9:30 AM	2436930	380	25	0.9	0.75"	<0.1	<0.1	R.D
6-10-22	9:30 AM	2437400	470	35	0.9	0	<0.1	<0.1	R.D
6-13-22	9:30 AM	2439320	1920	26	0.7	0.25"	<0.1	<0.1	R.D
6-14-22	9:30 AM	2440460	1140	18	0.4	0	<0.1	<0.1	R.D
6-15-22	9:30 AM	2441880	1420	8	0.3	0	<0.1	<0.1	R.D
6-16-22	9:30 AM	2443230	1350	8	0.4	0.1"	<0.1	<0.1	R.D
6-17-22	9:30 AM	2444150	920	20	0.7	0	<0.1	<0.1	R.D
6-20-22	9:30 AM	2445390	1240	34	1.7	0.2"	<0.1	<0.1	R.D

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DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
5-5-22	9:30AM	2413900	530	33	0.9	0	<0.1	<0.1	R.D
5-6-22	9:30AM	2414430	530	33	0.8	0	<0.1	<0.1	R.D
5-9-22	9:30AM	2416830	2400	32	0.6	0.3"	<0.1	<0.1	R.D
5-10-22	9:30AM	2417600	770	32	0.5	0	<0.1	<0.1	R.D
5-11-22	9:30AM	2418270	670	32	0.7	0	<0.1	<0.1	R.D
5-12-22	9:30AM	2418880	610	32	0.6	0	<0.1	<0.1	R.D
5-13-22	9:30AM	2419420	540	32	0.6	0	<0.1	<0.1	R.D
5-16-22	9:30AM	2422050	2630	15	0.4	0	<0.1	<0.1	R.D
5-17-22	9:30AM	2423700	1650	8	0.2	0.2"	<0.1	<0.1	R.D
5-18-22	9:30AM	2425000	1300	17	0.7	0	<0.1	<0.1	R.D
5-19-22	9:30AM	2425860	860	21	0.5	0.4"	<0.1	<0.1	R.D
5-20-22	9:30AM	2426650	790	23	0.7	0.1"	<0.1	<0.1	R.D
5-23-22	9:30AM	2428520	1870	36	0.7	0.25"	<0.1	<0.1	R.D
5-24-22	9:30AM	2428970	450	34	0.9	0	<0.1	<0.1	R.D
5-25-22	9:30AM	2429370	400	34	1.0	0	<0.1	<0.1	R.D
5-26-22	9:30AM	2429780	410	28	1.1	0	<0.1	<0.1	R.D

DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
4-12-22	9:30 AM	2389200	1260	20	0.5	0	<0.1	<0.1	R.D
4-13-22	9:30 AM	2390350	1150	23	0.7	0	<0.1	<0.1	R.D
4-14-22	9:30 AM	2391400	1050	25	0.5	0	<0.1	<0.1	R.D
4-18-22	8:00 AM	2395300	3900	25	0.7	0.1	<0.1	<0.1	P.W
4-19-22	8:00 AM	2396900	1600	5	0.1	0.75	<0.1	<0.1	P.W.
4-20-22	8:00 AM	2399700	3800	23	0.1	0	<0.1	<0.1	P.W
4-21-22	8:00 AM	2401800	2100	27	0.2	0	<0.1	<0.1	P.W
4-22-22	8:00 AM	2403100	1300	27	0.1	0	<0.1	<0.1	P.W
4-25-22	9:30 AM	2406470	3370	29	0.4	0	<0.1	<0.1	R.D
4-26-22	9:30 AM	2407380	910	27	0.7	0	<0.1	<0.1	R.D
4-27-22	9:30 AM	2408240	860	31	0.7	0	<0.1	<0.1	R.D
4-28-22	9:30 AM	2409080	840	27	0.6	0	<0.1	<0.1	R.D
4-29-22	9:30 AM	2409820	740	30	0.7	0	<0.1	<0.1	R.D
5-2-22	9:30 AM	2412100	2280	33	0.8	0	<0.1	<0.1	R.D
5-3-22	9:30 AM	2412780	680	31	0.7	0	<0.1	<0.1	R.D
5-4-22	9:30 AM	2413370	590	33	0.8	0	<0.1	<0.1	R.D

WASTEWATERDATA4

DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
3-18-22	9:30 AM	2359300	740	27	0.7	0.2"	<0.1	<0.1	R.D
3-21-22	9:30 AM	2361700	2400	23	0.5	0.1"	<0.1	<0.1	R.D
3-22-22	9:30 AM	2362340	640	24	0.7	0	<0.1	<0.1	R.D
3-23-22	9:30 AM	2362910	570	28	0.7	0	<0.1	<0.1	R.D
3-24-22	9:30 AM	2363870	960	11	0.3	0.2"	<0.1	<0.1	R.D
3-25-22	9:30 AM	2365670	1800	9	0.4	0.2"	<0.1	<0.1	R.D
3-29-22	9:30 AM	2371150	5480	22	0.7	0	<0.1	<0.1	R.D
3-30-22	9:30 AM	2372100	950	26	0.5	0	<0.1	<0.1	R.D
3-31-22	9:30 AM	2372950	850	26	0.6	0.1"	<0.1	<0.1	R.D
4-1-22	9:30 AM	2373820	870	22	0.6	0.1"	<0.1	<0.1	R.D
4-4-22	9:30 AM	2376430	2610	26	0.6	0	<0.1	<0.1	R.D
4-5-22	9:30 AM	2377370	940	26	0.5	0	<0.1	<0.1	R.D
4-6-22	9:30 AM	2378050	680	29	0.7	0.2"	<0.1	<0.1	R.D
4-7-22	9:30 AM	2379270	1220	24	0.5	0	<0.1	<0.1	R.D
4-8-22	9:30 AM	2381360	2090	7	0.1	0.2"	<0.1	<0.1	R.D
4-11-22	9:30 AM	2387940	6580	21	0.4	0.1"	<0.1	<0.1	R.D

WASTEWATERDATA4

DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
2-24-22	9:30 AM	2339970	910	22	0.5	0	<0.1	<0.1	R.D
2-25-22	9:30 AM	2340830	860	24	0.5	0.7"	<0.1	<0.1	R.D
2-28-22	9:30 AM	2344140	3310	21	0.5	0	<0.1	<0.1	R.D
3-1-22	9:30 AM	2345000	860	23	0.6	0	<0.1	<0.1	R.D
3-2-22	9:30 AM	2345860	860	21	0.5	0.1"	<0.1	<0.1	R.D
3-3-22	9:30 AM	2346670	810	23	0.6	0.1"	<0.1	<0.1	R.D
3-4-22	9:30 AM	2347390	720	23	0.7	0	<0.1	<0.1	R.D
3-7-22	9:30 AM	2349400	2010	29	0.5	0.2"	<0.1	<0.1	R.D
3-8-22	9:30 AM	2350040	640	25	0.6	0.1"	<0.1	<0.1	R.D
3-9-22	9:30 AM	2350660	620	25	0.7	0	<0.1	<0.1	R.D
3-10-22	9:30 AM	2351840	1180	17	0.5	0.8"	<0.1	<0.1	R.D
3-11-22	9:30 AM	2352750	910	21	0.5	0.1"	<0.1	<0.1	R.D
3-14-22	9:30 AM	2356050	3300	23	0.6	0.2"	<0.1	<0.1	R.D
3-15-22	9:30 AM	2356670	620	25	0.7	0	<0.1	<0.1	R.D
3-16-22	9:30 AM	2357800	1130	23	0.6	0	<0.1	<0.1	R.D
3-17-22	9:30 AM	2358560	760	25	0.7	0	<0.1	<0.1	R.D

DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
2-2-22	9:30AM	2319220	490	33 ³³	0.9	0	<0.1	<0.1	R.D
2-8-22	9:30AM	2319640	420	33	0.7	0	<0.1	<0.1	R.D
2-4-22	9:30AM	2321190	1550	10	0.3	1.2"	<0.1	<0.1	R.D
2-7-22	9:30AM	2325900	4710	18	0.3	0.5"	<0.1	<0.1	R.D
2-8-22	9:30AM	2327170	1270	14	0.3	0.3"	<0.1	<0.1	R.D
2-9-22	9:30AM	2328350	1180	18	0.3	0	<0.1	<0.1	R.D
2-10-22	9:30AM	2329300	950	22	0.5	0	<0.1	<0.1	R.D
2-11-22	9:30AM	2330120	820	18	0.5	0	<0.1	<0.1	R.D
2-14-22	9:30AM	2332280	2160	20	0.5	0	<0.1	<0.1	R.D
2-15-22	9:30AM	2332920	640	24	0.5	0	<0.1	<0.1	R.D
2-16-22	9:30AM	2333540	620	22	0.5	0	<0.1	<0.1	R.D
2-17-22	9:30AM	2334120	580	22	0.6	0	<0.1	<0.1	R.D
2-18-22	9:30AM	2334820	700	22	0.5	0.8"	<0.1	<0.1	R.D
2-21-22	9:30AM	2337470	2650	28	0.6	0	<0.1	<0.1	R.D
2-22-22	9:30AM	2338200	730	26	0.7	0	<0.1	<0.1	R.D
2-23-22	9:30AM	2339060	860	20	0.4	0.3"	<0.1	<0.1	R.D

DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
1-11-22	9:30 AM	2304130	540	26	0.7	0	<0.1	<0.1	R.D
1-12-22	9:30 AM	2304630	500	27	0.8	0	<0.1	<0.1	R.D
1-13-22	9:30 AM	2305080	450	28	0.9	0	<0.1	<0.1	R.D
1-14-22	9:30 AM	2305590	580	27	0.7	0	<0.1	<0.1	R.D
1-17-22	9:30 AM	2307270	1680	3	0.1	2.2"	<0.1	<0.1	R.D
1-18-22	9:30 AM	2309700	2430	20	0.4	0	<0.1	<0.1	R.D
1-19-22	9:30 AM	2310700	1000	28	0.5	0	<0.1	<0.1	R.D
1-20-22	9:30 AM	2311530	830	21	0.5	0.4"	<0.1	<0.1	R.D
1-21-22	9:30 AM	2312350	820	21	0.4	0	<0.1	<0.1	R.D
1-24-22	9:30 AM	2314360	2010	24	0.7	0	<0.1	<0.1	R.D
1-25-22	9:30 AM	2314920	560	27	0.6	0	<0.1	<0.1	R.D
1-26-22	9:30 AM	2315440	520	27	0.7	0	<0.1	<0.1	R.D
1-27-22	9:30 AM	2315910	470	27	0.5	0	<0.1	<0.1	R.D
1-28-22	9:30 AM	2316350	440	27	0.6	0	<0.1	<0.1	R.D
1-31-22	9:30 AM	2318320	1970	29	0.8	snow melt 1.0"	<0.1	<0.1	R.D
2-1-22	9:30 AM	2318730	910	29	0.7	0	<0.1	<0.1	R.D

DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INITIALS
12-13-21	9:30 AM	2286420	900	39	0.9	0.25"	<0.1	<0.1	R.P
12-14-21	9:30 AM	2286710	290	39	1.0	0	<0.1	<0.1	R.D
12-15-21	9:30 AM	2286980	270	34	0.8	0	<0.1	<0.1	R.D
12-16-21	9:30 AM	2287230	250	34	0.8	0	<0.1	<0.1	R.D
12-17-21	9:30 AM	2287490	260	34	0.9	0	<0.1	<0.1	R.D
12-20-21	9:30 AM	2288320	830	35	0.9	0	<0.1	<0.1	R.P
12-21-21	9:30 AM	2288650	330	35	0.8	0	<0.1	<0.1	R.D
12-22-21	9:30 AM	2288910	260	35	1.0	0.3"	<0.1	<0.1	R.D
12-23-21	9:30 AM	2289200	290	35	0.9	0	<0.1	<0.1	R.D
— 2022 —									
1-3-22	9:30 AM	2297150	7950	22	0.8	1.4"	<0.1	<0.1	R.D
1-4-22	9:30 AM	2299040	1890	20	0.8	0	<0.1	<0.1	R.D
1-5-22	9:30 AM	2300640	1600	18	0.9	0.2"	<0.1	<0.1	R.P
1-6-22	9:30 AM	2301730	1090	22	1.0	0.3"	<0.1	<0.1	R.D
1-7-22	9:30 AM	2302240	510	27	1.2	snow-melt 0.7"	<0.1	<0.1	R.D
1-10-22	9:30 AM	2303590	1350	23	0.7	0	<0.1	<0.1	R.D



**APPENDIX C
FIELD DATA SHEETS**

SEDIMENT SAMPLE FIELD LOG

GZA GeoEnvironmental, Inc. 95 Glastonbury Blvd., 3rd floor Glastonbury, CT 06033 Phone: (860) 286-8900	PROJECT Project Name: <u>Superior Plating</u> Location: <u>Southport, Connecticut</u>	Date: <u>5-5-2022</u> Page <u>1</u> of <u>1</u> File No. <u>05.0043459.00</u> GZA Staff/Sampler <u>MSNW & SHS</u>
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Air Temperature (°F): <u>60s</u> Weather Conditions: <u>Sunny</u>	SAMPLING EQUIPMENT Sample Method/Device: <u>Hand Auger</u>	PID: Calibration Standard: _____ Source lamp: _____ Instrument Reading (start): _____ Instrument Reading (finish): _____
	Grab Hand Auger Hand Core/Borer Dredge Other	

Sample ID	Time	Water Depth (ft.)	Sample Depth (ft. below ground)	OVM Reading (PPM)	Odor	Moisture Content	Organic Content	Sample Description
SPC-SED-1/DUP	1005	4	0-0.5	NM	Sl. Org / Sl. Petro	High	Med	Dense, grey, MUCK, some Organics, trace Gravel
SPC-SED-2	1035	3	0-0.5	NM	Sl. Sulfur	High	Med	Brow, MUCK, little Organics, little Gravel
SPC-SED-3	1105	2.5	0-0.5	NM	None	High	Low	Brown, fine to coarse SAND and GRAVEL, some Silt, trace organics
SPC-SED-4	1150	3	0-0.5	NM	None	High	Med	Dark brown, fine to coarse SAND and GRAVEL, some Organics, little Silt
SPC-SED-5	1220	6	0-0.5	NM	Org.	Med.	High	Brown, PEATY MUCK, trace Gravel

SITE SKETCH:

Field Duplicate on SPC-SED-1

SPC-SED-5 is MS/MSD

SOIL CONDITIONS				DENSITY		ABBREVIATIONS		ORGANIC MATERIALS
Fines (silts & clay)	Too fine to see.	TRACE (TR.)	0-10%	Sand	Silt/Clay	V - Very	F - Fine	Organic Silt: Dark gray to black, light weight, often H2S odor.
Fine sand.	Finest visible particles.	LITTLE (L.)	10-20%	V. Loose	V. Soft	GR - Gray	M - Medium	Humus: Decomposed root/twig/leaf litter - forest areas.
Med. Sand	1/64"-1/16" (granular sugar).	SOME (S.)	20-35%	Loose	Soft	BN - Brown	C - Coarse	Root Mat: Living root fiber structures, found in marshes.
C. Sand	1/6"-1/4" (rock salt).	AND	35-50%	M. Dense	M. Stiff	YEL - Yellow	F/M - Fine to Medium	Peat: Fossiliferous root mat - decomposed fiber structure.
Fine gravel	1/4"-3/4" (pea to grape).			Dense	Stiff	RD - Red	F/C - Fine to Coarse	Note: e.g. logs, branches, roots, shells, black streaks, H2S odor.

SURFACE WATER SAMPLE FIELD LOG

GZA GeoEnvironmental, Inc. 95 Glastonbury Blvd., 3rd Floor Glastonbury, CT 06033 Phone: (860) 286-8900	PROJECT				Date: 5-5-2022	Page 1 of 1
	Project Name: Superior Plating		Project Location: Southport, Connecticut		File No. 05.0043459.00	
GZA Staff: MSNW & SHS		Sample Method/Device			GZA Staff/Sampler: MSNW & SHS	
Weather: 60s Sunny		Sample Device: Bomb			Surface Water Body: Mill River	
		Grab	Bomb	Kemmerer	Trap Bottle	Other

Water Quality Meter Calibration Data

pH Meter: Model: YSI 556A	Reading: pH 4: 4.01 /	pH 7: 7.00 /	pH 10: 10.00 /
Spec. Con. Model: YSI 556A	Standard Solution: 1000	Reading: (start) 1000	(finish)
DO: Model: YSI 556A	Standard Solution: 100%	Reading: (start) 100%	(finish)
Turbidity: Model: Micro TPI	Standard Solution: 1000/10/0.02	Reading: (start) Calibrated	(finish)

Sample ID	Time	Water Depth (ft.)	Sample Depth (ft.)	Turbidity (ntu)	pH (su)	S.C. (uS)	DO (mg/L)	Temp. (C)	Sal	ORP	
*SPC-SW-5S	0940	4	0-1	5.40	7.54	442	9.17	14.30	0.21	205.3	Along Superior Plating Bank
SPC-SW-5D	0950	4	3-4	4.16	7.27	439	9.12	13.67	0.21	212.0	Along Superior Plating Bank
SPC-SW-4S	1020	3	0-1	3.66	7.29	434	9.16	13.86	0.21	207.7	Along Superior Plating Bank
SPC-SW-4D	1030	3	2-3	5.10	7.21	470	9.09	13.49	0.23	210.7	Along Superior Plating Bank
SPC-SW-3S	1050	2.5	0-1	1.88	7.37	386	9.29	13.96	0.19	196.5	Along Superior Plating Bank
SPC-SW-3D	1100	2.5	1.5-2.5	0.00	7.34	410	8.90	14.06	0.20	198.0	Along Superior Plating Bank
SPC-SW-2S	1135	3	0-1	8.08	7.56	494	9.38	14.32	0.24	206.5	Bank of Railroad Tracks
SPC-SW-2D	1145	3	2-3	5.11	7.42	494	9.23	14.14	0.24	211.6	Bank of Railroad Tracks
SPC-SW-1S	1205	6	0-1	1.48	7.43	327	9.50	14.81	0.16	216.3	Across Railroad Tracks
*SPC-SW-1D	1215	6	5-6	4.52	7.40	289	9.55	14.50	0.14	217.7	Across Railroad Tracks

SITE SKETCH

SPC -SW-5S is field duplicate

SPC-SW-1D is MS/MSD

SEDIMENT SAMPLE FIELD LOG

GZA GeoEnvironmental, Inc. 95 Glastonbury Blvd., 3rd floor Glastonbury, CT 06033 Phone: (860) 286-8900	PROJECT Project Name: <u>Superior Plating</u> Location: <u>Southport, CT</u>	Date: <u>9/8/2022</u> Page <u> </u> of <u> </u> File No. <u>43459</u> GZA Staff/Sampler: <u>SHS & MSNW</u>
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Air Temperature (°F): <u>80s</u> Weather Conditions: <u>Clear</u>	SAMPLING EQUIPMENT Sample Method/Device: <u>Hand Auger</u> Grab Hand Auger Hand Core/Borer Dredge Other	PID: Calibration Standard: <u> </u> Source lamp: <u> </u> Instrument Reading (start): <u> </u> Instrument Reading (finish): <u> </u>
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Sample ID	Time	Water Depth (ft.)	Sample Depth (ft. below ground)	OVM Reading (PPM)	Odor	Moisture Content	Organic Content	Sample Description
SPC-SED-1/DUP	1005	3	0-0.5	NM	Org/Sulfur	High	Trace	Brown, MUCK, some fine to coarse Gravel, trace Organics
SPC-SED-2	1035	4.5	0-0.5	NM	Org/Sulfur	High	Med.	Brown, MUCK some fine to coarse Gravel, little Organics
SPC-SED-3	1100	2.5	0-0.5	NM	None	High	Trace	Dark grey, fine to coarse SAND and GRAVEL, trace Organics
SPCSED-4	1145	4.5	0-0.5	NM	Organics	High	Med.	Brown, fine to coarse SAND and GRAVEL, little Muck, trace Organics
SPC-SED-5	1220	6.5	0-0.5	NM	None	Medium	High	Brown, PEATY MUCK, trace fine to medium Gravel

SITE SKETCH:

Field duplicate on SPC-SED-1

 SPC-SED-5 is MS/MSD

SOIL CONDITIONS				DENSITY		ABBREVIATIONS		ORGANIC MATERIALS
Fines (silts & clay)	Too fine to see.	TRACE (TR.)	0-10%	Sand	Silt/Clay	V - Very	F - Fine	Organic Silt: Dark gray to black, light weight, often H2S odor.
Fine sand.	Finest visible particles.	LITTLE (L.)	10-20%	V. Loose	V. Soft	GR - Gray	M - Medium	Humus: Decomposed root/twig/leaf litter - forest areas.
Med. Sand	1/64"-1/16" (granular sugar).	SOME (S.)	20-35%	Loose	Soft	BN - Brown	C - Coarse	Root Mat: Living root fiber structures, found in marshes.
C. Sand	1/6"-1/4" (rock salt).	AND	35-50%	M. Dense	M. Stiff	YEL - Yellow	F/M - Fine to Medium	Peat: Fossiliferous root mat - decomposed fiber structure.
Fine gravel	1/4"-3/4" (pea to grape).			Dense	Stiff	RD - Red	F/C - Fine to Coarse	Note: e.g. logs, branches, roots, shells, black streaks, H2S odor.

SURFACE WATER SAMPLE FIELD LOG

GZA GeoEnvironmental, Inc. 95 Glastonbury Blvd., 3rd Floor Glastonbury, CT 06033 Phone: (860) 286-8900	PROJECT	Date: 9/8/2022 Page 1 of 1
	Project Name: Superior Plating	File No. 05.0043459.00
	Project Location: Southport, CT	GZA Staff/Sampler: SHS/MSNW
GZA Staff: 80s	Sample Method/Device	Surface Water Body: Mill River
Weather: Clear	Sample Device: Bomb	
	Grab Bomb Kemmerer Trap Bottle Other	

Water Quality Meter Calibration Data

pH Meter: Model: YSI 556A	Reading: pH 4: 4.0 /	pH 7: 7.0 /	pH 10: 10.0 /
Spec. Con. Model: YSI 556A	Standard Solution: 1000	Reading: (start) 1000	(finish)
DO: Model: YSI 556A	Standard Solution: 100%	Reading: (start) 100%	(finish)
Turbidity: Model: Micro TPI	Standard Solution: 1000/10/0.02	Reading: (start) Calibrated	(finish)

Sample ID	Time	Water Depth (ft.)	Sample Depth (ft.)	Turbidity (ntu)	pH (su)	S.C. (uS)	DO (mg/L)	Temp. (C)	Salinity (mg/L)	O.R.P. (mvolts)	
*SPC-SW-5S	0950	3	0-1	3.64	5.88	5450	3.96	21.78	2.92	-15.2	Along Superior Plating Bank
SPC-SW-5D	1000	3	2-3	3.76	5.88	5653	4.05	21.79	3.04	-14.1	Along Superior Plating Bank
SPC-SW-4S	1020	4.5	0-1	1.02	5.87	8883	4.46	22.81	4.95	11.1	Along Superior Plating Bank
SPC-SW-4D	1030	4.5	3.5-4.5	2.62	5.84	12667	3.87	33.37	7.28	6.0	Along Superior Plating Bank
SPC-SW-3S	1045	2.5	0-1	4.04	5.94	8651	5.13	22.04	4.86	-17	Along Superior Plating Bank
SPC-SW-3D	1055	2.5	1.5-2.5	19.23	5.93	8306	4.92	22.04	4.69	-17.4	Along Superior Plating Bank
SPC-SW-2S	1130	4.5	0-1	3.57	5.93	9490	5.31	22.93	5.33	-2.9	Bank of Railroad Tracks
SPC-SW-2D	1140	4.5	3.5-4.5	1.61	5.90	11100	4.92	23.16	6.49	-8.1	Bank of Railroad Tracks
SPC-SW-1S	1205	6.5	0-1	2.63	5.93	4898	5.65	22.90	2.60	-43.0	Across Railroad Tracks
**SPC-SW-1D	1215	6.5	5.5-6.5	1.74	5.89	6077	5.08	23.00	3.27	-32.8	Across Railroad Tracks

SITE SKETCH

* SPC-SW-5S is field duplicate

**SPC-SW-1D is MS/MSD

WATER LEVEL MEASUREMENT LOG

GZA GeoEnvironmental, Inc. 655 Winding Brook Dr, Suite 402 Glastonbury, CT 06033 Phone: (860) 286-8900	PROJECT Project Name: <u>Superior Plating</u> Location: <u>Southport, Connecticut</u>	Date: <u>3/17/2022</u> Page 1 of 2 File No. <u>43459.02</u> GZA Staff/Sampler <u>SHS</u>
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Air Temperature (°F): <u>50s</u> Weather Conditions: <u>Foggy</u>	MEASURING EQUIPMENT Measuring Device: <u>Electric Tape</u> Fiberglass Tape Electric Tape Interface Meter	Abbreviations: PVC = Top of PVC well riser. Stl = Top of steel well casing/protector. Grnd = Relative to ground surface.
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Time	Well/Stream Gauge I.D.	Depth to Water (ft)	Total Depth of Well (ft)	Measmnt. Datum PVC/Stl/Grnd	DNAPL Thickness (ft)	LNAPL Thickness (ft)	Correct. Factor (ft)	Comments/Well Condition
	MW-16-13	12.70						
	CW-11	15.40						
	MW-17-13	14.46						
	CW-10	28.40						
	CW-9	51.42						
	CW-1	42.03						
	MW-11	18.61						
	MW-14-07	20.29						
	CW-2	27.11						
	MW-6	-						Parked on, always dry
	MW-10	16.75						
	CW-3	18.48						
	CW-14	21.13						Faint Sound
	CW-4	39.02						Faint Sound
	MW-5	17.12						
	CW-5	33.90						
	CW-13	47.81						
	CW-6	35.19						
	CW-7	47.38						
	OB-7	0.40						
	MW-1	7.37						
	OB-9	7.18						
	MW-13	7.18						
	CW-8	53.00						Sound
	MW-2	15.99						

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: CW-12
 Sample Date: 3/17/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/17/2022 Collector Initials: MAN
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): _____ Difference in Elevation (feet): _____
 Well Screened Interval (ftg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	62.03		
Depth to Water (feet):	10.72		Total Purged Sampled Volum 5.5 <input type="checkbox"/> gallons or <input checked="" type="checkbox"/> liters
Standing Water in Well (feet):	51.31		Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance:	Instrument Model:	<u>YSI 556</u>	Standard Solution:	<u>1000</u>	Reading (start)	<u>1000</u>	(finish)	_____
pH (s.u.):	Instrument Model:	<u>YSI 556</u>	Reading:	<u>4/4</u>	pH 7:	<u>7/7</u>	pH 10:	<u>10/10</u>
DO (mg/L):	Instrument Model:	<u>YSI 556</u>	Standard Solution:	<u>100%</u>	Reading (start)	<u>100.10%</u>	(finish)	_____
Turbidity (NTU):	Instrument Model:	<u>Micro TPI</u>	Standard Solution:	<u>1000/10/0.02</u>	Reading (start)	<u>1000/10/0.02</u>		_____
ORP (mvolts):	Instrument Model:	<u>YSI 556</u>	Standard Solution:	<u>238</u>	Reading (start)	<u>238</u>	(finish)	_____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1245	1300	1315	1330	1335	1340				1340
Depth to Water (ft) below Ref. point (drawdown <0.3)	10.72	11.54	11.91	12.41	12.49	12.54				12.54
Volume Purged (L)		1.5	3.0	4.5	5.0	5.5				5.5
Purge Rate (ml/min)		100	100	100	100	100				100
Temperature (3%) °F		12.98	12.57	12.45	13.03	13.07				13.07
Spec. Cond. (3%) (µS)		748	749	748	751	750				750
Salinity (3%) (mg/L)		0.37	0.37	0.37	0.37	0.37				0.37
DO (10%) (mg/L)		0.31	0.44	0.25	0.22	0.23				0.23
pH (+/- 0.1) (s.u.)		6.90	6.86	6.83	6.89	6.88				6.88
ORP** (+/- 10) (mvolts)		-0.40	-5.2	-3.2	12.0	-11.8				-11.8
Turbidity (<5) (10%) (ntu)		115.2	127.1	163.0	158.1	155.2				155.2

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~59' Sample Time: 1340 Sample ID: CW-12 & CW-12 Filtered
 (below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom & Sulfate		1	Plastic	125 mL	--	Cooler/Ice
Total Chrom, Nickel, + Iron		1	Plastic	250 mL	HNO3	Cooler/Ice
Field Filtered Hex Chrome		1	Plastic	125 mL	--	Cooler/Ice
Field Filtered Total Chrom		1	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Orange Particles Odor: N/A Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-1
 Sample Date: 3/17/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/17/2022 Collector Initials: MAN
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): 0.30 Difference in Elevation (feet): _____
 Well Screened Interval (ftg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	11.45	11.75	
Depth to Water (feet):	7.26	7.56	Total Purged Sampled Volum 2.50 <input type="checkbox"/> gallons or <input checked="" type="checkbox"/> liters
Standing Water in Well (feet):	4.19	4.19	Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4/4 pH 7: 7/7 pH 10: 10/10
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.10% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) 1000/10/0.02
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	0950	1005	1010	1015						1015
Depth to Water (ft) below Ref. point (drawdown <0.3)	7.26	7.44	7.44	7.44						7.44
Volume Purged (L)		1.5	2.0	2.5						2.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) *F		12.67	12.76	12.75						12.75
Spec. Cond. (3%) (µS)		358	357	355						355
Salinity (3%) (mg/L)		0.17	0.17	0.17						0.17
DO (10%) (mg/L)		5.62	5.39	5.32						5.32
pH (+/- 0.1) (s.u.)		6.52	6.51	6.49						6.41
ORP** (+/- 10) (mvolts)		209.0	210.4	210.4						210.4
Turbidity (<5)(10%) (ntu)		3.90	3.35	2.76						2.76

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~11' Sample Time: 1015 Sample ID: MW-1
 (below grade ___ or ref. pt. X ___)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom		1	Plastic	125 mL	--	Cooler/Ice
Total Chrom and Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Clear Odor: N/A Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

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95 Glastonbury Boulevard, 3 Floor
Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-2
Sample Date: 3/17/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/17/2022 Collector Initials: MAN

Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
Difference Between PVC and Casing Top (feet): 1.8 Difference in Elevation (feet): _____
Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	20.25	18.45	
Depth to Water (feet):	16.18	14.38	
Standing Water in Well (feet):	4.07	4.07	

Total Purged Sampled Volum 2.50 gallons or liters
Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4/4 pH 7: 7/7 pH 10: 10/10
DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.10% (finish) _____
Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) 1000/10/0.02
ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1040	1055	1100	1105						1105
Depth to Water (ft) below Ref. point (drawdown <0.3)	16.18	16.21	16.26	16.27						16.27
Volume Purged (L)		1.5	2.0	2.5						2.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) °F		11.98	12.02	11.98						11.98
Spec. Cond. (3%) (µS)		1,031	1,037	1,037						1,037
Salinity (3%) (mg/L)		0.51	0.51	0.51						0.51
DO (10%) (mg/L)		3.35	3.00	2.97						2.97
pH (+/- 0.1) (s.u.)		6.56	6.56	6.57						6.57
ORP** (+/- 10) (mvolts)		215.8	215.7	215.4						215.4
Turbidity (<5) (10%) (ntu)		0.29	0.00	0.00						0.00

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~19' Sample Time: 1105 Sample ID: MW-2
(below grade or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom & Sulfate		1	Plastic	125 mL	--	Cooler/Ice
Total Chrom and Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Clear Odor: N/A Product Thickness*: N/A Well Condition: Good
(*Call PM if present)

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-4
 Sample Date: 3/17/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/17/2022 Collector Initials: MAN
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): _____ Difference in Elevation (feet): _____
 Well Screened Interval (ftg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):			
Depth to Water (feet):	9.16		Total Purged Sampled Volum 2.50 <input type="checkbox"/> gallons or <input checked="" type="checkbox"/> liters
Standing Water in Well (feet):			Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4/4 pH 7: 7/7 pH 10: 10/10
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.10% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) 1000/10/0.02
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1125	1140	1145	1150						1150
Depth to Water (ft) below Ref. point (drawdown <0.3)	9.16	9.18	9.18	9.18						9.18
Volume Purged (L)		1.5	2.0	2.5						2.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) *F		10.29	9.97	9.99						9.99
Spec. Cond. (3%) (µS)		442	440	441						441
Salinity (3%) (mg/L)		0.21	0.21	0.21						0.21
DO (10%) (mg/L)		4.94	4.96	4.90						4.90
pH (+/- 0.1) (s.u.)		6.51	6.45	6.42						6.42
ORP** (+/- 10) (mvolts)		165.5	161.2	162.0						162.0
Turbidity (<5) (10%) (ntu)		4.77	4.26	3.17						3.17

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~9.5' Sample Time: 1150 Sample ID: MW-4
 (below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom		1	Plastic	125 mL	--	Cooler/Ice
Total Chrom and Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Clear Odor: N/A Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-10
 Sample Date: 3/18/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/18/2022 Collector Initials: MAN
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): 0.22 Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation) _____
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	39.50	39.72	
Depth to Water (feet):	16.75	16.97	Total Purged Sampled Volume 2.50 <input type="checkbox"/> gallons or <input checked="" type="checkbox"/> liters
Standing Water in Well (feet):	22.75	22.75	Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4/4 pH 7: 7/7 pH 10: 10/10
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) 1000/10/0.02
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	0905	1005	1010	1015						1015
Depth to Water (ft) below Ref. point (drawdown <0.3)	16.75	17.25	17.42	17.62						17.62
Volume Purged (L)		1.5	2.0	2.5						2.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) *F		14.92	14.97	14.97						14.97
Spec. Cond. (3%) (µS)		65	64	63						63
Salinity (3%) (mg/L)		0.03	0.03	0.03						0.03
DO (10%) (mg/L)		3.96	3.80	3.84						3.84
pH (+/- 0.1) (s.u.)		5.74	5.73	5.72						5.72
ORP** (+/- 10) (mvolts)		64.9	73.8	76.4						76.4
Turbidity (<5) (10%) (ntu)		0.4	0.00	0.00						0.00

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~23 Sample Time: 1015 Sample ID: MW-10
 (below grade ___ or ref. pt. X) MS/MSD

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom		3	Plastic	125 mL	--	Cooler/Ice
Total Chrom and Nickel		3	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Clear Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

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 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-11
 Sample Date: 3/17/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/17/2022 Collector Initials: SHS
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): _____ Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	28.20		
Depth to Water (feet):	18.61		
Standing Water in Well (feet):	9.59		

Total Purged Sampled Volume 2.5 gallons or liters
 Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: 4.00 pH 4: _____ pH 7: 7.00 pH 10: 10.00
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.10% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1245	1300	1305	1310						1310
Depth to Water (ft) below Ref. point (drawdown <0.3)	18.61	18.49	18.52	18.55						18.55
Volume Purged (L)		1.5	2.0	2.5						2.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) °F		13.6	13.7	13.7						13.7
Spec. Cond. (3%) (µS)		6,353	6,349	6,342						6,342
Salinity (3%) (mg/L)		3.48	3.45	3.42						3.42
DO (10%) (mg/L)		0.59	0.60	0.59						0.59
pH (+/- 0.1) (s.u.)		5.92	5.91	5.90						5.90
ORP** (+/- 10) (mvolts)		177.8	175.0	174.5						174.5
Turbidity (<5) (10%) (ntu)		4.41	0.00	0.00						0.00

*Static measurement is before installation of equipment.
 **If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~27 Sample Time: 1310 Sample ID: MW-11
 (below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom & Sulfate		1	Plastic	125 mL	--	Cooler/Ice
Total Chrom, Nickel, and Iron		1	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Yellow Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-12
 Sample Date: 3/17/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/17/2022 Collector Initials: SHS
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): _____ Difference in Elevation (feet): _____
 Well Screened Interval (ftg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	12.47		
Depth to Water (feet):	10.34		
Standing Water in Well (feet):	2.13		

Total Purged Sampled Volume 2.5 gallons or liters
 Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4/4 pH 7: 7/7 pH 10: 10/10
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.10% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) 1000/10/0.02
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1350	1405	1410	1415						1415
Depth to Water (ft) below Ref. point (drawdown <0.3)	10.34	10.54	10.71	10.82						10.82
Volume Purged (L)		1.5	2.0	2.5						2.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) °F		10.76	10.75	10.74						10.74
Spec. Cond. (3%) (µS)		806	806	808						808
Salinity (3%) (mg/L)		0.40	0.40	0.40						0.40
DO (10%) (mg/L)		3.31	3.11	3.04						3.04
pH (+/- 0.1) (s.u.)		5.93	5.96	5.95						5.95
ORP** (+/- 10) (mvolts)		167.3	176.8	181.2						181.2
Turbidity (<5) (10%) (ntu)		1.45	0.44	0.19						0.19

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~12 Sample Time: 1415 Sample ID: MW-12
 (below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom		1	Plastic	125 mL	--	Cooler/Ice
Total Chrom and Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Clear Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

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 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-13
 Sample Date: 3/17/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/17/2022 Collector Initials: MAN
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): 0.32 Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	9.40	9.72	
Depth to Water (feet):	7.18	7.50	
Standing Water in Well (feet):	2.22	2.22	

Total Purged Sampled Volume 5.0 gallons or liters
 Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4/4 pH 7: 7/7 pH 10: 10/10
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.10% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) 1000/10/0.02
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	0805	0820	0830	0840	0845	0850	0855			0855
Depth to Water (ft) below Ref. point (drawdown <0.3)	7.18	7.67	7.81	7.89	7.96	8.10	8.18			8.18
Volume Purged (L)		1.5	2.5	3.5	4.0	4.5	5.0			5.0
Purge Rate (ml/min)		100	100	100	100	100	100			100
Temperature (3%) °F		9.67	9.56	9.59	9.59	9.60	9.64			9.64
Spec. Cond. (3%) (µS)		5,754	5,722	5,723	5,724	5,725	5,725			5,725
Salinity (3%) (mg/L)		4.52	4.52	4.52	4.52	4.51	4.51			4.51
DO (10%) (mg/L)		8.71	8.69	8.42	8.26	8.18	8.24			8.24
pH (+/- 0.1) (s.u.)		6.21	6.14	6.12	6.09	6.09	6.09			6.09
ORP** (+/- 10) (mvolts)		207.0	225.7	229.6	231.8	232.3	233.4			233.4
Turbidity (<5) (10%) (ntu)		19.33	14.16	5.26	4.56	3.27	3.09			3.09

*Static measurement is before installation of equipment
 **If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~9 Sample Time: 0855 Sample ID: MW-13
 (below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom		1	Plastic	125 mL	--	Cooler/Ice
Total Chrom and Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Clear Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-14-07
 Sample Date: 3/17/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/17/2022 Collector Initials: SHS

Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): _____ Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	34.78		
Depth to Water (feet):	20.29		Total Purged Sampled Volume 2.5 <input type="checkbox"/> gallons or <input checked="" type="checkbox"/> liters
Standing Water in Well (feet):	14.49		Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4.00 pH 7: 7.00 pH 10: 10.00
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.10% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1315	1330	1335	1340						1340
Depth to Water (ft) below Ref. point (drawdown <0.3)	20.29	20.40	20.47	20.50						20.50
Volume Purged (L)		1.5	2.00	2.50						2.50
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) *F		13.6	13.6	13.6						13.6
Spec. Cond. (3%) (µS)		1,265	1,272	1,274						1,274
Salinity (3%) (mg/L)		0.64	0.64	0.64						0.64
DO (10%) (mg/L)		7.04	7.00	6.97						6.97
pH (+/- 0.1) (s.u.)		5.65	5.65	5.64						5.64
ORP** (+/- 10) (mvolts)		172.8	177.4	181.2						181.2
Turbidity (<5) (10%) (ntu)		1.33	3.21	2.04						2.04

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~28 Sample Time: 1340 Sample ID: MW-14-07/DUP
 (below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom		2	Plastic	125 mL	--	Cooler/Ice
Total Chrom and Nickel		2	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Light Yellow Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-17-13
 Sample Date: 3/17/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/17/2022 Collector Initials: SHS

Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): _____ Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	21.34		
Depth to Water (feet):	14.46		
Standing Water in Well (feet):	6.88		

Total Purged Sampled Volume 3.0 gallons or liters
 Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4.00 pH 7: 7.00 pH 10: 10.00
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.10% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
 ORP (involts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1202	1222	1227	1232						1232
Depth to Water (ft) below Ref. point (drawdown <0.3)	14.46	14.49	14.52	14.58						14.58
Volume Purged (L)		2.0	2.50	3.00						3.00
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) °F		14.40	14.40	14.30						14.30
Spec. Cond. (3%) (µS)		932	930	928						928
Salinity (3%) (mg/L)		0.46	0.46	0.46						0.46
DO (10%) (mg/L)		7.18	7.12	7.08						7.08
pH (+/- 0.1) (s.u.)		5.92	5.90	5.88						5.88
ORP** (+/- 10) (involts)		140.5	141.0	143.4						143.4
Turbidity (<5) (10%) (ntu)		0.00	0.00	0.00						0.00

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~18 Sample Time: 1232 Sample ID: MW-17-13
 (below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom		2	Plastic	125 mL	--	Cooler/Ice
Total Chrom and Nickel		2	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Clear Odor: None Product Thickness*: N/A Well Condition: Broken Cap
 (*Call PM if present)

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-19-19
 Sample Date: 3/18/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/18/2022 Collector Initials: MAN

Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): 0.27 Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	30.00	30.27	
Depth to Water (feet):	10.68	10.95	
Standing Water in Well (feet):	19.32	19.32	

Total Purged Sampled Volum 2.50 gallons or liters
 Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4/4 pH 7: 7/7 pH 10: 10/10
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) 1000/10/0.2
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1130	1145	1150	1155						1155
Depth to Water (ft) below Ref. point (drawdown <0.3)	10.68	12.17	12.41	12.69						12.69
Volume Purged (L)		1.5	2.0	2.5						2.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) °F		19.23	19.24	19.24						19.24
Spec. Cond. (3%) (µS)		2,069	2,069	2,067						2,067
Salinity (3%) (mg/L)		1.06	1.06	1.06						1.06
DO (10%) (mg/L)		0.64	0.64	0.63						0.63
pH (+/- 0.1) (s.u.)		4.40	4.39	4.40						4.40
ORP** (+/- 10) (mvolts)		156.7	148.4	139.7						139.7
Turbidity (<5) (10%) (ntu)		4.63	3.26	3.14						3.14

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~27 Sample Time: 1155 Sample ID: MW-19-19
 (below grade or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom and Sulfate		1	Plastic	125 mL	--	Cooler/Ice
Total Chrom, Nickel, and Iron		1	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Yellow Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

GZA GeoEnvironmental, Inc.
95 Glastonbury Boulevard, 3 Floor
Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-20-19
Sample Date: 3/18/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/18/2022 Collector Initials: MAN

Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
Difference Between PVC and Casing Top (feet): 0.20 Difference in Elevation (feet): _____
Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	28.34	28.54	
Depth to Water (feet):	10.58	10.78	Total Purged Sampled Volum 2.50 <input type="checkbox"/> gallons or <input checked="" type="checkbox"/> liters
Standing Water in Well (feet):	17.76	17.76	Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
Pump Type: Electric Submersible Peristaltic Bladder Pump Other: 250 mL

CALIBRATION DATA:

Specific Conductance:	Instrument Model:	YSI 556	Standard Solution:	1000	Reading (start)	1000	(finish)	
pH (s.u.):	Instrument Model:	YSI 556	Reading:	pH 4: 4/4	pH 7: 7/7	pH 10: 10/10		
DO (mg/L):	Instrument Model:	YSI 556	Standard Solution:	100%	Reading (start)	100.00%	(finish)	
Turbidity (NTU):	Instrument Model:	Micro TPI	Standard Solution:	1000/10/0.02	Reading (start)	1000/10/0.2		
ORP (mvolts):	Instrument Model:	YSI 556	Standard Solution:	238	Reading (start)	238	(finish)	

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1205	1220	1225	1230						1230
Depth to Water (ft) below Ref. point (drawdown <0.3)	10.58	11.15	11.15	11.15						11.15
Volume Purged (L)		1.5	2.0	2.5						2.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) °F		18.45	18.42	18.45						18.45
Spec. Cond. (3%) (µS)		3,228	3,190	3,180						3,180
Salinity (3%) (mg/L)		1.70	1.68	1.67						1.67
DO (10%) (mg/L)		5.97	5.74	5.69						5.69
pH (+/- 0.1) (s.u.)		3.47	3.46	3.46						3.46
ORP** (+/- 10) (mvolts)		275.2	283.7	283.2						283.2
Turbidity (<5) (10%) (ntu)		37.24	10.77	3.60						3.60

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~25 Sample Time: 1230 Sample ID: MW-20-19
(below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom and Sulfate		1	Plastic	125 mL	--	Cooler/Ice
Total Chrom, Nickel and Iron		1	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Deep Orange Odor: None Product Thickness*: N/A Well Condition: Good
(*Call PM if present)

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-21-19
 Sample Date: 3/18/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/18/2022 Collector Initials: MAN

Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): 0.40 Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	27.44	27.84	
Depth to Water (feet):	11.35	11.75	
Standing Water in Well (feet):	16.09	16.09	

Total Purged Sampled Volum 2.50 gallons or liters
 Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance:	Instrument Model:	<u>YSI 556</u>	Standard Solution:	<u>1000</u>	Reading (start)	<u>1000</u>	(finish)	_____
pH (s.u.):	Instrument Model:	<u>YSI 556</u>	Reading:	<u>4/4</u>	pH 7:	<u>7/7</u>	pH 10:	<u>10/10</u>
DO (mg/L):	Instrument Model:	<u>YSI 556</u>	Standard Solution:	<u>100%</u>	Reading (start)	<u>100.00%</u>	(finish)	_____
Turbidity (NTU):	Instrument Model:	<u>Micro TPI</u>	Standard Solution:	<u>1000/10/0.02</u>	Reading (start)	<u>1000/10/0.2</u>		_____
ORP (mvolts):	Instrument Model:	<u>YSI 556</u>	Standard Solution:	<u>238</u>	Reading (start)	<u>238</u>	(finish)	_____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1055	1110	1115	1120						1120
Depth to Water (ft) below Ref. point (drawdown <0.3)	11.35	13.72	14.05	14.15						14.15
Volume Purged (L)		1.5	2.0	2.5						2.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) °F		17.53	17.53	17.54						17.54
Spec. Cond. (3%) (µS)		3,355	3,353	3,350						3,350
Salinity (3%) (mg/L)		1.77	1.77	1.77						1.77
DO (10%) (mg/L)		5.92	5.46	5.30						5.30
pH (+/- 0.1) (s.u.)		3.61	3.61	3.61						3.61
ORP** (+/- 10) (mvolts)		412.5	374.7	383.9						383.9
Turbidity (<5)(10%) (ntu)		0.00	0.00	0.00						0.00

*Static measurement is before installation of equipment.
 **If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~25 Sample Time: 1120 Sample ID: MW-21-19
 (below grade or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom and Sulfate		1	Plastic	125 mL	--	Cooler/Ice
Total Chrom, Nickel, and Iron		1	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Orange Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: OB-7
 Sample Date: 3/18/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/18/2022 Collector Initials: MAN
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): 0.15 Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	19.30	19.45	
Depth to Water (feet):	0.40	0.55	
Standing Water in Well (feet):	18.90	18.90	

Total Purged Sampled Volume 2.5 gallons or liters
 Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4/4 pH 7: 7/7 pH 10: 10/10
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) 1000/10/0.2
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	0810	0825	0830	0835						0835
Depth to Water (ft) below Ref. point (drawdown <0.3)	0.40	3.21	4.10	4.40						4.40
Volume Purged (L)		1.5	2.0	2.5						2.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) °F		13.49	13.51	13.50						13.50
Spec. Cond. (3%) (µS)		161	161	162						162
Salinity (3%) (mg/L)		0.08	0.08	0.08						0.08
DO (10%) (mg/L)		4.79	4.76	4.80						4.80
pH (+/- 0.1) (s.u.)		6.09	6.03	6.01						6.01
ORP** (+/- 10) (mvolts)		89.3	79.9	84.5						84.5
Turbidity (<5) (10%) (ntu)		0.00	0.00	0.00						0.00

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~18 Sample Time: 0835 Sample ID: OB-7
 (below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom		1	Plastic	125 mL	--	Cooler/Ice
Total Chrom, Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Clear Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: OB-9
 Sample Date: 3/17/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 3/17/2022 Collector Initials: MAN

Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): 0.20 Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	9.55	9.75	
Depth to Water (feet):	7.18	7.38	
Standing Water in Well (feet):	2.37	2.37	

Total Purged Sampled Volume 3.0 gallons or liters
 Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance:	Instrument Model:	<u>YSI 556</u>	Standard Solution:	<u>1000</u>	Reading (start)	<u>1000</u>	(finish)	_____
pH (s.u.):	Instrument Model:	<u>YSI 556</u>	Reading:	<u>pH 4:</u>	<u>4/4</u>	<u>pH 7:</u>	<u>7/7</u>	<u>pH 10:</u>
DO (mg/L):	Instrument Model:	<u>YSI 556</u>	Standard Solution:	<u>100%</u>	Reading (start)	<u>100.10%</u>	(finish)	_____
Turbidity (NTU):	Instrument Model:	<u>Micro TPI</u>	Standard Solution:	<u>1000/10/0.02</u>	Reading (start)	<u>1000/10/0.02</u>		_____
ORP (m volts):	Instrument Model:	<u>YSI 556</u>	Standard Solution:	<u>238</u>	Reading (start)	<u>238</u>	(finish)	_____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	0905	0920	0925	0930	0935					0935
Depth to Water (ft) below Ref. point (drawdown <0.3)	7.18	7.25	7.27	7.27	7.27					7.27
Volume Purged (L)		1.5	2.0	2.5	3.0					3.0
Purge Rate (ml/min)		100	100	100	100					100
Temperature (3%) °F		12.61	12.69	12.69	12.68					12.68
Spec. Cond. (3%) (µS)		388	374	369	360					360
Salinity (3%) (mg/L)		0.25	0.24	0.23	0.23					0.23
DO (10%) (mg/L)		6.11	6.10	6.01	6.00					6.00
pH (+/- 0.1) (s.u.)		6.65	6.64	6.62	6.62					6.62
ORP** (+/- 10) (mvolts)		194.8	195.6	195.2	195.6					195.6
Turbidity (<5)(10%) (ntu)		4.33	4.17	4.02	3.50					3.50

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: -9.20 Sample Time: 0935 Sample ID: OB-9
 (below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Hex Chrom		1	Plastic	125 mL	--	Cooler/Ice
Total Chrom and Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Clear Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

WATER LEVEL MEASUREMENT LOG

GZA GeoEnvironmental, Inc. 655 Winding Brook Dr, Suite 402 Glastonbury, CT 06033 Phone: (860) 286-8900	PROJECT Superior Plating Location: Southport, Connecticut	Date: 9/20/2022 Page 1 of 2 File No. 43459 GZA Staff/Sampler SHS
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Air Temperature (°F): 70s	MEASURING EQUIPMENT	Abbreviations:
Weather Conditions: Partly Cloudy	Measuring Device: Electric Tape	PVC = Top of PVC well riser.
	Fiberglass Tape Electric Tape Interface Meter Other	Stl = Top of steel well casing/protector.
		Grnd = Relative to ground surface.

Time	Well/Stream Gauge I.D.	Depth to Water (ft)	Total Depth of Well (ft)	Measmt. Datum PVC/St/Grnd	DNAPL Thickness (ft)	LNAPL Thickness (ft)	Correct. Factor (ft)	Comments/Well Condition
	MW-16-13	11.49	22.40					Good
	CW-11	16.48						Cracked cover
	MW-17-13	15.09	21.29					Broken cover
	CW-10	30.87						Sound faint
	CW-9	51.40						Sound faint
	MW-11	19.19	27.36					Good
	CW-1	42.01						Sound faint
	MW-14-07	21.05	34.84					No Expansion Cap
	CW-2	25.25						Sound faint
	MW-6							Van to top. No access. Always dry
	MW-10	17.32	24.57					Good
	CW-3	24.43						Sound faint
	CW-14	33.60						Sound faint
	CW-4	40.85						Sound faint
	MW-5	17.97	18.44					Good
	CW-5	27.65						Sound faint
	CW-13	47.90						Sound
	CW-6	46.26						Sound faint
	CW-7	44.80						Sound
	RW-1	6.49						Good
	OB-7	1.78						No Expansion Cap
	OB-13	-	-					Expansion cap stuck in well
	MW-1	9.68	11.44					Good
	OB-9	9.30	9.40					Cover does not sit flush
	MW-13	9.43	9.60					Good

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: CW-12
 Sample Date: 9/20/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 9/20/2022 Collector Initials: SHS
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): _____ Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	53.32		
Depth to Water (feet):	13.69		
Standing Water in Well (feet):	39.63		

Total Purged Sampled Volum 2.5 gallons or liters
 Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4.00 pH 7: 7.01 pH 10: 10.01
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	0958	1013	1018	1023						1023
Depth to Water (ft) below Ref. point (drawdown <0.3)	13.69	14.19	14.27	14.48						14.48
Volume Purged (L)		1.5	0.5	0.5						0.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) °F		16.46	16.42	16.39						16.39
Spec. Cond. (3%) (µS)		471	470	470						470
Salinity (3%) (mg/L)		0.23	0.23	0.23						0.23
DO (10%) (mg/L)		0.30	0.25	0.20						0.20
pH (+/- 0.1) (s.u.)		7.24	7.25	7.26						7.26
ORP** (+/- 10) (mvolts)		-66.0	-62.4	-59.7						-59.7
Turbidity (<5) (10%) (ntu)		39.1	38.93	39.11						39.11

*Static measurement is before installation of equipment.
 **If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~50' Sample Time: 1023 Sample ID: CW-12 & CW-12 Filtered
 (below grade ___ or ref. pt. X_)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Total Chrom + Nickel		2	Plastic	250 mL	HNO3	Cooler/Ice
Hex Chrom		2	Plastic	125 mL	--	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Clear Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

GZA GeoEnvironmental, Inc.
95 Glastonbury Boulevard, 3 Floor
Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-1
Sample Date: 9/21/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 9/21/2022 Collector Initials: SHS
Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
Difference Between PVC and Casing Top (feet): 0.30 Difference in Elevation (feet): _____
Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	11.44	11.74	
Depth to Water (feet):	9.68	9.98	Total Purged Sampled Volume 4.0 <input type="checkbox"/> gallons or <input checked="" type="checkbox"/> liters
Standing Water in Well (feet):	1.76	1.76	Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
pH (s.u.): Instrument Model: YSI 556 Reading: 4.00 pH 4: _____ pH 7: 7.01 pH 10: 10.01
DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	0817	0832	0847	0852	0857					0857
Depth to Water (ft) below Ref. point (drawdown <0.3)	9.68	9.77	9.90	9.95	10.00					10.00
Volume Purged (L)		1.5	1.5	0.5	0.5					0.5
Purge Rate (ml/min)		100	100	100	100					100
Temperature (3%) °F		23.06	23.31	23.20	23.25					23.25
Spec. Cond. (3%) (µS)		131	135	140	143					143
Salinity (3%) (mg/L)		0.06	0.06	0.07	0.07					0.07
DO (10%) (mg/L)		1.97	1.96	1.94	1.92					1.92
pH (+/- 0.1) (s.u.)		6.84	6.82	6.80	6.80					6.80
ORP** (+/- 10) (mvolts)		-5.2	-10.5	-8.9	-8.5					-8.5
Turbidity (<5) (10%) (ntu)		13.10	4.99	4.86	2.92					2.92

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~11.00 Sample Time: 0857 Sample ID: MW-1
(below grade or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Total Chrom + Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice
Hex Chrom		1	Plastic	125 mL	--	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Light Yellow Odor: None Product Thickness*: N/A Well Condition: Good

(*Call PM if present)

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-5
 Sample Date: 9/20/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 9/20/2022 Collector Initials: SHS
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): 0.30 Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	18.44		
Depth to Water (feet):	17.97		
Standing Water in Well (feet):	0.47		

Total Purged Sampled Volume gallons or liters
 Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4.00 pH 7: 7.01 pH 10: 10.01
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1115									
Depth to Water (ft) below Ref. point (drawdown <0.3)	17.97									
Volume Purged (L)										
Purge Rate (ml/min)										
Temperature (3%) °F										
Spec. Cond. (3%) (µS)										
Salinity (3%) (mg/L)										
DO (10%) (mg/L)										
pH (+/- 0.1) (s.u.)										
ORP** (+/- 10) (mvolts)										
Turbidity (<5) (10%) (ntu)										

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~18.20 Sample Time: 1115 Sample ID: MW-5
 (below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Total Chrom + Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice
Hex Chrom		1	Plastic	125 mL	--	Cooler/Ice

Discussed w/PM. Grab sample collected.

NOTES/OBSERVATIONS:

Color: Yellow Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-10
 Sample Date: 9/21/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 9/21/2022 Collector Initials: SHS
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): 0.22 Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	24.57	24.79	
Depth to Water (feet):	17.32	17.54	Total Purged Sampled Volum 2.5 <input type="checkbox"/> gallons or <input checked="" type="checkbox"/> liters
Standing Water in Well (feet):	7.25	7.25	Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4.00 pH 7: 7.01 pH 10: 10.01
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1015	1030	1035	1040						1040
Depth to Water (ft) below Ref. point (drawdown <0.3)	17.32	17.84	17.95	18.04						18.04
Volume Purged (L)		1.5	0.5	0.5						0.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) °F		17.59	17.64	17.67						17.67
Spec. Cond. (3%) (µS)		57	56	56						56
Salinity (3%) (mg/L)		0.03	0.03	0.03						0.03
DO (10%) (mg/L)		0.38	0.32	0.30						0.30
pH (+/- 0.1) (s.u.)		6.81	6.81	6.80						6.80
ORP** (+/- 10) (mvolts)		19.6	11.2	9.8						9.8
Turbidity (<5)(10%) (ntu)		0.74	0.00	0.00						0.00

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~21 Sample Time: 1040 Sample ID: MW-10
 (below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Total Chrom + Nickel		3	Plastic	250 mL	HNO3	Cooler/Ice
Hex Chrom		3	Plastic	125 mL	--	Cooler/Ice

MS/MSD

NOTES/OBSERVATIONS:

Color: Clear Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

GZA GeoEnvironmental, Inc.
95 Glastonbury Boulevard, 3 Floor
Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-11
Sample Date: 9/21/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 9/21/2022 / 0940 Collector Initials: SHS
Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
Difference Between PVC and Casing Top (feet): 0.15 Difference in Elevation (feet): _____
Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	27.36	27.51	
Depth to Water (feet):	19.19	19.34	
Standing Water in Well (feet):	8.17	8.17	

Total Purged Sampled Volum 3 gallons or liters
Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
Pump Type: Electric Submersible Peristaltic Bladder Pump Other: 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1157 (finish) 1000
pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4.50 / 4.00 pH 7: 7.24 / 7.00 pH 10: 10.22 / 10.00
DO (mg/L): Instrument Model: YSI 556 Standard Solution: _____ Reading (start) _____ (finish) _____
Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: _____ Reading (start) _____
ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 216.4 (finish) 238

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	940	955	1000	1005	1010					1010
Depth to Water (ft) below Ref. point (drawdown <0.3)	19.19	19.24	19.24	19.25	19.25					19.25
Volume Purged (L)		1.5	2.0	2.5	3.0					3.0
Purge Rate (ml/min)		100	100	100	100					100
Temperature (3%) °F		17.6	17.7	17.6	17.7					17.7
Spec. Cond. (3%) (µS)		11,663	11,597	11,603	11,553					11,553
Salinity (3%) (mg/L)		6.65	6.64	6.64	6.64					6.64
DO (10%) (mg/L)		1.64	1.51	1.43	1.37					1.37
pH (+/- 0.1) (s.u.)		5.56	5.40	5.37	5.40					5.40
ORP** (+/- 10) (mvolts)		312.5	313.0	313.9	315.2					315.2
Turbidity (<5) (10%) (ntu)		0.09	0.00	0.00	0.00					0.00

*Static measurement is before installation of equipment.
**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~25 Sample Time: 1010 Sample ID: MW-11
(below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Total Chrom + Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice
Hex Chrom		1	Plastic	125 mL	--	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Yellow Odor: None Product Thickness*: N/A Well Condition: Good
(*Call PM if present)

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-12
 Sample Date: 9/20/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 9/20/2022 Collector Initials: SHS
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): _____ Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	12.60		
Depth to Water (feet):	12.20		
Standing Water in Well (feet):	0.40		

Total Purged Sampled Volume gallons or liters
 Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4.00 pH 7: 7.01 pH 10: 10.01
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	0940									
Depth to Water (R) below Ref. point (drawdown <0.3)	12.20									
Volume Purged (L)										
Purge Rate (ml/min)										
Temperature (3%) *F										
Spec. Cond. (3%) (µS)										
Salinity (3%) (mg/L)										
DO (10%) (mg/L)										
pH (+/- 0.1) (s.u.)										
ORP** (+/- 10) (mvolts)										
Turbidity (<5) (10%) (ntu)										

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: -12.50 Sample Time: 0945 Sample ID: MW-12
 (below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Total Chrom + Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice
Hex Chrom		1	Plastic	125 mL	--	Cooler/Ice

Discussed w/PM. Grab sample collected

NOTES/OBSERVATIONS:

Color: Clear Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-13
 Sample Date: 9/21/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 9/21/2022 Collector Initials: SHS
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): 0.32 Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	9.60	9.92	
Depth to Water (feet):	9.43	9.75	
Standing Water in Well (feet):	0.17	0.17	

Total Purged Sampled Volume gallons or liters
 Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: 4.00 pH 4: _____ pH 7: 7.01 pH 10: 10.01
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	0740									
Depth to Water (ft) below Ref. point (drawdown <0.3)	9.43									
Volume Purged (L)										
Purge Rate (ml/min)										
Temperature (3%) °F										
Spec. Cond. (3%) (µS)										
Salinity (3%) (mg/L)										
DO (10%) (mg/L)										
pH (+/- 0.1) (s.u.)										
ORP** (+/- 10) (mvolts)										
Turbidity (<5) (10%) (ntu)										

*Static measurement is before installation of equipment.
 **If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: _____ Sample Time: _____ Sample ID: _____
 (below grade ___ or ref. pt. ___)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling

Could not get water to pump. No sample collected

NOTES/OBSERVATIONS:

Color: _____ Odor: _____ Product Thickness*: _____ Well Condition: Good
 (*Call PM if present)

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-14-07
 Sample Date: 9/21/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 9/21/2022 / 1030 Collector Initials: SHS
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): _____ Difference in Elevation (feet): _____
 Well Screened Interval (ft): _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	34.84		
Depth to Water (feet):	21.05		Total Purged Sampled Volum 2.5 <input type="checkbox"/> gallons or <input checked="" type="checkbox"/> liters
Standing Water in Well (feet):	13.79		Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes / No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance:	Instrument Model: <u>YSI 556</u>	Standard Solution: <u>1000</u>	Reading (start) <u>1157</u>	(finish) <u>1000</u>
pH (s.u.):	Instrument Model: <u>YSI 556</u>	Reading: <u>pH 4: 450 / 4.00</u>	pH 7: <u>7/24 / 7.00</u>	pH 10: <u>10.22 / 10.00</u>
DO (mg/L):	Instrument Model: <u>YSI 556</u>	Standard Solution: _____	Reading (start) _____	(finish) _____
Turbidity (NTU):	Instrument Model: <u>Micro TPI</u>	Standard Solution: _____	Reading (start) _____	_____
ORP (mvolts):	Instrument Model: <u>YSI 556</u>	Standard Solution: <u>238</u>	Reading (start) <u>216.4</u>	(finish) <u>238</u>

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1030	1045	1050	1055						1055
Depth to Water (ft) below Ref. point (drawdown <0.3)	21.05	21.13	21.14	21.14						21.14
Volume Purged (L)		1.5	2.0	2.5						2.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) *F		17.9	17.90	18.10						18.10
Spec. Cond. (3%) (µS)		14,928	14,893	14,777						14,777
Salinity (3%) (mg/L)		8.72	8.70	8.62						8.62
DO (10%) (mg/L)		2.99	3.00	2.95						2.95
pH (+/- 0.1) (s.u.)		5.40	5.40	5.42						5.42
ORP** (+/- 10) (mvolts)		299.0	300.0	300.8						300.8
Turbidity (<5) (10%) (ntu)		1.43	0.00	0.27						0.27

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~33 Sample Time: 1055 Sample ID: MW-14-07/DUP
 (below grade or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Total Chrom + Nickel		2	Plastic	250 mL	HNO3	Cooler/Ice
Hex Chrom		2	Plastic	125 mL	--	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Light Yellow Odor: None Product Thickness*: N/A Well Condition: No Expansion Cap
 (*Call PM if present)

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-17-13
 Sample Date: 9/21/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 9/21/2022 Collector Initials: SHS
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): 0.80 Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	21.29	22.09	
Depth to Water (feet):	15.09	15.89	Total Purged Sampled Volum 2.5 <input type="checkbox"/> gallons or <input checked="" type="checkbox"/> liters
Standing Water in Well (feet):	6.20	6.20	Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4.00 pH 7: 7.01 pH 10: 10.01
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	0925	0940	0945	0950						0950
Depth to Water (ft) below Ref. point (drawdown <0.3)	15.09	15.15	15.15	15.15						15.15
Volume Purged (L)		1.5	0.5	0.5						0.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) °F		19.13	19.11	19.06						19.06
Spec. Cond. (3%) (µS)		470	471	471						471
Salinity (3%) (mg/L)		0.23	0.23	0.23						0.23
DO (10%) (mg/L)		3.15	3.15	3.13						3.13
pH (+/- 0.1) (s.u.)		6.80	6.80	6.81						6.81
ORP** (+/- 10) (mvolts)		18.8	17.7	16.8						16.8
Turbidity (<5) (10%) (ntu)		0.00	0.00	0.00						0.00

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~18 Sample Time: 0950 Sample ID: MW-17-13
 (below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Total Chrom + Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice
Hex Chrom		1	Plastic	125 mL	-	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Light Yellow Odor: None Product Thickness*: N/A Well Condition: Broken Cover
 (*Call PM if present)

GZA GeoEnvironmental, Inc.
95 Glastonbury Boulevard, 3 Floor
Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-19-19
Sample Date: 9/20/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 9/20/2022 Collector Initials: SHS
Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
Difference Between PVC and Casing Top (feet): 0.27 Difference in Elevation (feet): _____
Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	29.74	30.01	
Depth to Water (feet):	13.12	13.39	Total Purged Sampled Volum 2.5 <input type="checkbox"/> gallons or <input checked="" type="checkbox"/> liters
Standing Water in Well (feet):	16.62	16.62	Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4.00 pH 7: 7.01 pH 10: 10.01
DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1155	1210	1215	1220						1220
Depth to Water (ft) below Ref. point (drawdown <0.3)	13.12	15.48	16.00	16.57						16.57
Volume Purged (L)		1.5	0.5	0.5						0.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) °F		20.20	20.26	20.27						20.27
Spec. Cond. (3%) (µS)		647	639	632						632
Salinity (3%) (mg/L)		0.31	0.31	0.31						0.31
DO (10%) (mg/L)		1.81	1.79	1.76						1.76
pH (+/- 0.1) (s.u.)		6.49	6.47	6.45						6.45
ORP** (+/- 10) (mvolts)		157.6	158.9	157.4						157.4
Turbidity (<5) (10%) (ntu)		5.01	1.57	0.63						0.63

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~27 Sample Time: 1220 Sample ID: MW-19-19
(below grade ___ or ref. pt. X_)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Total Chrom + Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice
Hex Chrom		1	Plastic	125 mL	--	Cooler/Ice

Fast drawdown

NOTES/OBSERVATIONS:

Color: Yellow Odor: None Product Thickness*: N/A Well Condition: Good

(*Call PM if present)

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-20-19
 Sample Date: 9/20/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 9/20/2022 Collector Initials: SHS
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): 0.20 Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	28.86	28.56	
Depth to Water (feet):	15.01	14.71	
Standing Water in Well (feet):	13.85	13.85	

Total Purged Sampled Volum 2.5 gallons or liters
 Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4.00 pH 7: 7.01 pH 10: 10.01
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1225	1240	1245	1250						1250
Depth to Water (ft) below Ref. point (drawdown <0.3)	14.51	15.60	15.89	16.07						16.07
Volume Purged (L)		1.5	0.5	0.5						0.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) °F		20.52	20.47	20.45						20.45
Spec. Cond. (3%) (µS)		1,518	1,518	1,518						1,518
Salinity (3%) (mg/L)		0.77	0.77	0.77						0.77
DO (10%) (mg/L)		2.45	2.40	2.36						2.36
pH (+/- 0.1) (s.u.)		6.09	6.08	6.08						6.08
ORP** (+/- 10) (mvolts)		268.8	272.3	274.4						274.4
Turbidity (<5)(10%) (ntu)		2.78	2.21	1.90						1.90

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~26 Sample Time: 1250 Sample ID: MW-20-19
 (below grade or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Total Chrom + Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice
Hex Chrom		1	Plastic	125 mL	--	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Orange Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

GROUNDWATER SAMPLING DATA SHEET

Well ID: MW-21-19
 Sample Date: 9/20/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 9/20/2022 Collector Initials: SHS
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): 0.40 Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	27.48	27.88	
Depth to Water (feet):	18.30	18.70	Total Purged Sampled Volume 2.5 <input type="checkbox"/> gallons or <input checked="" type="checkbox"/> liters
Standing Water in Well (feet):	9.18	9.18	Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: _____ 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4.00 pH 7: 7.01 pH 10: 10.01
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1255	1310	1315	1320						1320
Depth to Water (ft) below Ref. point (drawdown <0.3)	18.30	19.52	19.78	20.00						20.00
Volume Purged (L)		1.5	0.5	0.5						0.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) *F		19.95	19.94	19.96						19.96
Spec. Cond. (3%) (µS)		1,799	1,796	1,793						1,793
Salinity (3%) (mg/L)		0.92	0.91	0.91						0.91
DO (10%) (mg/L)		2.95	2.93	2.90						2.90
pH (+/- 0.1) (s.u.)		6.08	6.07	6.07						6.07
ORP** (+/- 10) (mvolts)		231.3	227.8	226.5						226.5
Turbidity (<5) (10%) (ntu)		1.45	0.60	0.31						0.31

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~25' Sample Time: 1320 Sample ID: MW-21-19
 (below grade or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Total Chrom + Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice
Hex Chrom		1	Plastic	125 mL	--	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Orange Odor: None Product Thickness*: N/A Well Condition: Good
 (*Call PM if present)

GZA GeoEnvironmental, Inc.
95 Glastonbury Boulevard, 3 Floor
Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: OB-7
Sample Date: 9/20/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 9/20/2022 Collector Initials: SHS
Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
Difference Between PVC and Casing Top (feet): 0.15 Difference in Elevation (feet): _____
Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	19.31	19.46	
Depth to Water (feet):	1.78	1.93	
Standing Water in Well (feet):	17.53	17.53	

Total Purged Sampled Volum 2.5 gallons or liters
Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
Pump Type: Electric Submersible Peristaltic Bladder Pump Other: 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4.00 pH 7: 7.01 pH 10: 10.01
DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	1040	1055	1100	1105						1105
Depth to Water (ft) below Ref. point (drawdown <0.3)	1.78	3.42	4.02	4.42						4.42
Volume Purged (L)		1.5	0.5	0.5						0.5
Purge Rate (ml/min)		100	100	100						100
Temperature (3%) °F		19.42	19.42	19.45						19.45
Spec. Cond. (3%) (µS)		37	33	32						32
Salinity (3%) (mg/L)		0.02	0.01	0.01						0.01
DO (10%) (mg/L)		0.18	0.15	0.17						0.17
pH (+/- 0.1) (s.u.)		7.18	7.15	7.14						7.14
ORP** (+/- 10) (mvolts)		-60.2	-58.0	-55.3						-55.3
Turbidity (<5) (10%) (ntu)		2.61	1.28	1.12						1.12

*Static measurement is before installation of equipment.
**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: ~17 Sample Time: 1105 Sample ID: OB-7
(below grade ___ or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Total Chrom + Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice
Hcx Chrom		1	Plastic	125 mL	--	Cooler/Ice

NOTES/OBSERVATIONS:

Color: Clear Odor: None Product Thickness*: N/A Well Condition: No Expansion Cap
(*Call PM if present)

GZA GeoEnvironmental, Inc.
 95 Glastonbury Boulevard, 3 Floor
 Glastonbury, CT 06033

GROUNDWATER SAMPLING DATA SHEET

Well ID: OB-9
 Sample Date: 9/21/2022

PROJECT INFORMATION

Project Name: Superior Plating Location: Southport, CT File No. 43459

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 9/21/2022 Collector Initials: SHS
 Reference Point of Measurement: PVC Riser Steel Casing Ground Reference Elevation (feet) _____
 Well Completion: Stand Pipe Road Box Ground Elevation (feet) _____
 Difference Between PVC and Casing Top (feet): 0.20 Difference in Elevation (feet): _____
 Well Screened Interval (fbg) _____ (Reference Elevation - Ground Elevation)
 HACH Kit Type NA Other Field Method _____

	Depth from Ref. Point	Depth Below Ground	(Reference Point Measurement - Difference in Elevation)
Total Length of Well (feet):	9.40	9.60	
Depth to Water (feet):	9.30	0.50	Total Purged Sampled Volume <input type="checkbox"/> gallons or <input checked="" type="checkbox"/> liters
Standing Water in Well (feet):	0.10	9.10	Multiply liters by 0.2642 to get gallons

Well Condition: Protective Casing - poor / good; Lock - Yes / No; Expansion Cap - Yes/No; Well ID - Yes / No; Concrete Collar - Yes / No; Well - poor / good
 Well head vapors: VOCs (PID/FID) _____ ppmv Methane (FID/Other) _____ ppmv Other _____ ppmv

Sample Method: Bail Grab Pump Low Flow Purge Method: Bail Pump Flow-Thru Cell Vol: (460mL) Other:
 Pump Type: Electric Submersible Peristaltic Bladder Pump Other: 250 mL

CALIBRATION DATA:

Specific Conductance: Instrument Model: YSI 556 Standard Solution: 1000 Reading (start) 1000 (finish) _____
 pH (s.u.): Instrument Model: YSI 556 Reading: pH 4: 4.00 pH 7: 7.01 pH 10: 10.01
 DO (mg/L): Instrument Model: YSI 556 Standard Solution: 100% Reading (start) 100.00% (finish) _____
 Turbidity (NTU): Instrument Model: Micro TPI Standard Solution: 1000/10/0.02 Reading (start) calibrated
 ORP (mvolts): Instrument Model: YSI 556 Standard Solution: 238 Reading (start) 238 (finish) _____

INSTRUMENT MEASUREMENTS:

Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	0810									
Depth to Water (ft) below Ref. point (drawdown <0.3)	9.30									
Volume Purged (L)										
Purge Rate (ml/min)										
Temperature (3%) °F										
Spec. Cond. (3%) (µS)										
Salinity (3%) (mg/L)										
DO (10%) (mg/L)										
pH (+/- 0.1) (s.u.)										
ORP** (+/- 10) (mvolts)										
Turbidity (<5) (10%) (ntu)										

*Static measurement is before installation of equipment.

**If ORP is negative and DO is greater than 2 mg/L or if DO is greater than 10 mg/L; recalibrate and/or clean instrument. If persistent call PM.

SAMPLING INFORMATION

Sample Depth: -9.38 Sample Time: 0810 Sample ID: OB-9
 (below grade or ref. pt. X)

Analysis	Method	No. Bottles	Bottle Type	Vol.	Preservation	Handling
Total Chrom + Nickel		1	Plastic	250 mL	HNO3	Cooler/Ice
Hex Chrom		1	Plastic	125 mL	--	Cooler/Ice

Discussed w/PM. Grab sample collected.

NOTES/OBSERVATIONS:

Color: Hazy Odor: None Product Thickness*: N/A Well Condition: Cover not secure
 (*Call PM if present)



**APPENDIX D
LABORATORY REPORTS**

80 Lupes Drive
Stratford, CT 06615



Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Marlee NajamyWinnick
GZA GeoEnvironmental, Inc.
35 Nutmeg Drive, Suite 325
Trumbull, CT 06611

Analytical Report

CET# 2030467

Report Date: March 23, 2022
Project: Superior Plating, Southport
PO Number: 43459

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

CET # : 2030467

Project: Superior Plating, Southport

SAMPLE SUMMARY

The sample(s) were received at 1.5°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
CW-1	2030467-01	Water	3/17/2022 11:10	03/17/2022
CW-2	2030467-02	Water	3/17/2022 11:00	03/17/2022
CW-3	2030467-03	Water	3/17/2022 10:50	03/17/2022
CW-5	2030467-04	Water	3/17/2022 10:30	03/17/2022
CW-6	2030467-05	Water	3/17/2022 10:10	03/17/2022
CW-7	2030467-06	Water	3/17/2022 10:00	03/17/2022
CW-8	2030467-07	Water	3/17/2022 9:40	03/17/2022
CW-9	2030467-08	Water	3/17/2022 11:20	03/17/2022
CW-10	2030467-09	Water	3/17/2022 11:40	03/17/2022
CW-12	2030467-10	Water	3/17/2022 13:40	03/17/2022
CW-12 Filtered	2030467-11	Water	3/17/2022 13:40	03/17/2022
CW-13	2030467-12	Water	3/17/2022 10:45	03/17/2022
MW-1	2030467-13	Water	3/17/2022 10:15	03/17/2022
MW-2	2030467-14	Water	3/17/2022 11:05	03/17/2022
MW-4	2030467-15	Water	3/17/2022 11:50	03/17/2022
MW-11	2030467-16	Water	3/17/2022 13:10	03/17/2022
MW-12	2030467-17	Water	3/17/2022 14:15	03/17/2022
MW-13	2030467-18	Water	3/17/2022 8:55	03/17/2022
MW-14-07	2030467-19	Water	3/17/2022 13:40	03/17/2022
MW-17-13	2030467-20	Water	3/17/2022 12:32	03/17/2022
OB-9	2030467-21	Water	3/17/2022 9:35	03/17/2022
DUP	2030467-22	Water	3/17/2022 13:40	03/17/2022

CET # : 2030467

Project: Superior Plating, Southport

Analyte: Sulfate [EPA 300.0]

Analyst: PMD

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2030467-01	CW-1	77	10	mg/L	10	B2C2130	03/21/2022	03/21/2022 18:20	
2030467-02	CW-2	120	10	mg/L	10	B2C2130	03/21/2022	03/21/2022 18:37	
2030467-03	CW-3	130	10	mg/L	10	B2C2130	03/21/2022	03/21/2022 18:54	
2030467-04	CW-5	66	10	mg/L	10	B2C2130	03/21/2022	03/21/2022 19:11	
2030467-05	CW-6	15	1.0	mg/L	1	B2C2130	03/21/2022	03/22/2022 17:57	
2030467-06	CW-7	150	10	mg/L	10	B2C2130	03/21/2022	03/21/2022 20:01	
2030467-07	CW-8	320	10	mg/L	10	B2C2130	03/21/2022	03/21/2022 20:18	
2030467-08	CW-9	330	10	mg/L	10	B2C2130	03/21/2022	03/21/2022 20:35	
2030467-09	CW-10	260	10	mg/L	10	B2C2130	03/21/2022	03/21/2022 20:52	
2030467-10	CW-12	77	10	mg/L	10	B2C2130	03/21/2022	03/21/2022 21:09	
2030467-12	CW-13	270	10	mg/L	10	B2C2130	03/21/2022	03/21/2022 21:26	
2030467-16	MW-11	230	10	mg/L	10	B2C2130	03/21/2022	03/21/2022 21:43	

CET #: 2030467

Project: Superior Plating, Southport

Analyte: Hexavalent Chromium [SM 3500-Cr B]

Analyst: PMD

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2030467-01	CW-1	35	1.0	mg/L	50	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-02	CW-2	17	1.0	mg/L	50	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-03	CW-3	45	1.0	mg/L	50	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-04	CW-5	56	1.0	mg/L	50	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-05	CW-6	8.9	1.0	mg/L	50	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-06	CW-7	24	1.0	mg/L	50	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-07	CW-8	18	1.0	mg/L	50	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-08	CW-9	42	1.0	mg/L	50	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-09	CW-10	160	5.0	mg/L	250	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-10	CW-12	ND	0.020	mg/L	1	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-12	CW-13	240	5.0	mg/L	250	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-13	MW-1	2.5	0.20	mg/L	10	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-14	MW-2	0.52	0.020	mg/L	1	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-15	MW-4	0.066	0.020	mg/L	1	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-16	MW-11	21	1.0	mg/L	50	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-17	MW-12	0.11	0.020	mg/L	1	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-18	MW-13	0.034	0.020	mg/L	1	B2C1820	03/17/2022	03/17/2022 15:55	
2030467-19	MW-14-07	24	1.0	mg/L	50	B2C1821	03/17/2022	03/17/2022 15:55	
2030467-20	MW-17-13	7.3	1.0	mg/L	50	B2C1821	03/17/2022	03/17/2022 15:55	
2030467-21	OB-9	0.94	0.020	mg/L	1	B2C1821	03/17/2022	03/17/2022 15:55	
2030467-22	DUP	24	1.0	mg/L	50	B2C1821	03/17/2022	03/17/2022 15:55	

Analyte: Dissolved Hexavalent Chromium [SM 3500-Cr B]

Analyst: PMD

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2030467-11	CW-12 Filtered	ND	0.020	mg/L	1	B2C1821	03/17/2022	03/17/2022 15:55	

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CET #: 2030467

Project: Superior Plating, Southport

Analyte: Total Nickel [EPA 200.7]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2030467-01	CW-1	0.21	0.10	mg/L	2	B2C1805	03/18/2022	03/21/2022 13:42	
2030467-02	CW-2	0.064	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 16:36	
2030467-03	CW-3	3.0	0.10	mg/L	2	B2C1805	03/18/2022	03/21/2022 13:46	
2030467-04	CW-5	0.76	0.10	mg/L	2	B2C1805	03/18/2022	03/21/2022 13:51	
2030467-05	CW-6	0.16	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 16:49	
2030467-06	CW-7	7.3	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:02	
2030467-07	CW-8	0.95	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:06	
2030467-08	CW-9	0.32	0.10	mg/L	2	B2C1805	03/18/2022	03/21/2022 14:03	
2030467-09	CW-10	0.30	0.25	mg/L	5	B2C1805	03/18/2022	03/21/2022 14:08	
2030467-10	CW-12	0.056	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:19	
2030467-12	CW-13	2.1	0.50	mg/L	10	B2C1805	03/18/2022	03/21/2022 15:12	
2030467-13	MW-1	ND	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:27	
2030467-14	MW-2	0.17	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:32	
2030467-15	MW-4	ND	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:36	
2030467-16	MW-11	0.075	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:40	
2030467-17	MW-12	0.12	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 19:30	
2030467-18	MW-13	0.25	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 19:34	
2030467-19	MW-14-07	ND	0.050	mg/L	1	B2C2105	03/21/2022	03/21/2022 15:59	
2030467-20	MW-17-13	ND	0.050	mg/L	1	B2C2105	03/21/2022	03/21/2022 16:03	
2030467-21	OB-9	ND	0.050	mg/L	1	B2C2105	03/21/2022	03/21/2022 16:07	
2030467-22	DUP	ND	0.050	mg/L	1	B2C2105	03/21/2022	03/21/2022 16:11	

CET # : 2030467

Project: Superior Plating, Southport

Analyte: Total Iron [EPA 200.7]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2030467-01	CW-1	32	0.20	mg/L	2	B2C1805	03/18/2022	03/21/2022 13:42	
2030467-02	CW-2	0.32	0.10	mg/L	1	B2C1805	03/18/2022	03/18/2022 16:36	
2030467-03	CW-3	0.72	0.20	mg/L	2	B2C1805	03/18/2022	03/21/2022 13:46	
2030467-04	CW-5	0.51	0.20	mg/L	2	B2C1805	03/18/2022	03/21/2022 13:51	
2030467-05	CW-6	0.84	0.10	mg/L	1	B2C1805	03/18/2022	03/18/2022 16:49	
2030467-06	CW-7	1.8	0.10	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:02	
2030467-07	CW-8	27	0.10	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:06	
2030467-08	CW-9	1.3	0.20	mg/L	2	B2C1805	03/18/2022	03/21/2022 14:03	
2030467-09	CW-10	ND	0.50	mg/L	5	B2C1805	03/18/2022	03/21/2022 14:08	
2030467-10	CW-12	18	0.10	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:19	
2030467-12	CW-13	2.3	1.0	mg/L	10	B2C1805	03/18/2022	03/21/2022 15:12	
2030467-16	MW-11	0.16	0.10	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:40	

CET # : 2030467

Project: Superior Plating, Southport

Analyte: Total Chromium [EPA 200.7]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2030467-01	CW-1	58	0.10	mg/L	2	B2C1805	03/18/2022	03/21/2022 13:42	
2030467-02	CW-2	18	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 16:36	
2030467-03	CW-3	57	0.10	mg/L	2	B2C1805	03/18/2022	03/21/2022 13:46	
2030467-04	CW-5	60	0.10	mg/L	2	B2C1805	03/18/2022	03/21/2022 13:51	
2030467-05	CW-6	12	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 16:49	
2030467-06	CW-7	33	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:02	
2030467-07	CW-8	27	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:06	
2030467-08	CW-9	98	0.10	mg/L	2	B2C1805	03/18/2022	03/21/2022 14:03	
2030467-09	CW-10	260	0.25	mg/L	5	B2C1805	03/18/2022	03/21/2022 14:08	
2030467-10	CW-12	0.13	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:19	
2030467-12	CW-13	340	0.50	mg/L	10	B2C1805	03/18/2022	03/21/2022 15:12	
2030467-13	MW-1	2.4	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:27	
2030467-14	MW-2	0.64	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:32	
2030467-15	MW-4	0.065	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:36	
2030467-16	MW-11	19	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 17:40	
2030467-17	MW-12	0.10	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 19:30	
2030467-18	MW-13	ND	0.050	mg/L	1	B2C1805	03/18/2022	03/18/2022 19:34	
2030467-19	MW-14-07	22	0.050	mg/L	1	B2C2105	03/21/2022	03/21/2022 15:59	
2030467-20	MW-17-13	6.3	0.050	mg/L	1	B2C2105	03/21/2022	03/21/2022 16:03	
2030467-21	OB-9	0.86	0.050	mg/L	1	B2C2105	03/21/2022	03/21/2022 16:07	
2030467-22	DUP	23	0.050	mg/L	1	B2C2105	03/21/2022	03/21/2022 16:11	

Analyte: Filtration Method [EPA 200.7]

Analyst: MV

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2030467-11	CW-12 Filtered	Field Filtered	0.00		1	B2C2112	03/21/2022	03/21/2022 12:09	

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CET #: 2030467

Project: Superior Plating, Southport

Analyte: Dissolved Nickel [EPA 200.7]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2030467-11	CW-12 Filtered	0.055	0.050	mg/L	1	B2C2120	03/21/2022	03/22/2022 14:08	

Analyte: Dissolved Chromium [EPA 200.7]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2030467-11	CW-12 Filtered	ND	0.050	mg/L	1	B2C2120	03/21/2022	03/22/2022 14:08	

CET # : 2030467

Project: Superior Plating, Southport

QUALITY CONTROL SECTION

Batch B2C1805 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2C1805-BLK1)					Prepared: 3/18/2022 Analyzed: 3/18/2022				
Chromium	ND	0.050							
Nickel	ND	0.050							
Iron	ND	0.10							
LCS (B2C1805-BS1)					Prepared: 3/18/2022 Analyzed: 3/18/2022				
Chromium	0.193	0.050	0.200		96.4	85 - 115			
Nickel	0.203	0.050	0.200		102	85 - 115			
Iron	4.87	0.10	5.000		97.4	85 - 115			
Matrix Spike (B2C1805-MS2)					Prepared: 3/18/2022 Analyzed: 3/18/2022				
		Source: 2030467-18							
Chromium	0.190	0.050	0.200	ND	94.9	75 - 125			
Nickel	0.455	0.050	0.200	0.251	102	75 - 125			
Iron	7.14	0.10	5.000	2.64	90.0	75 - 125			

CET # : 2030467

Project: Superior Plating, Southport

Batch B2C1820 - SM 3500-Cr B

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2C1820-BLK1)					Prepared: 3/17/2022 Analyzed: 3/17/2022				
Hexavalent Chromium	ND	0.020							
LCS (B2C1820-BS1)					Prepared: 3/17/2022 Analyzed: 3/17/2022				
Hexavalent Chromium	0.21	0.020	0.200		103	80 - 120			

CET # : 2030467

Project: Superior Plating, Southport

Batch B2C1821 - SM 3500-Cr B

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2C1821-BLK1)					Prepared: 3/17/2022 Analyzed: 3/17/2022				
Dissolved Hexavalent Chromium	ND	0.020							
Hexavalent Chromium	ND	0.020							
LCS (B2C1821-BS1)					Prepared: 3/17/2022 Analyzed: 3/17/2022				
Dissolved Hexavalent Chromium	0.21	0.020				80 - 120			L
Hexavalent Chromium	0.21	0.020	0.200		103	80 - 120			

CET # : 2030467

Project: Superior Plating, Southport

Batch B2C2105 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2C2105-BLK1)					Prepared: 3/21/2022 Analyzed: 3/21/2022				
Chromium	ND	0.050							
Nickel	ND	0.050							
LCS (B2C2105-BS1)					Prepared: 3/21/2022 Analyzed: 3/21/2022				
Chromium	0.195	0.050	0.200		97.6	85 - 115			
Nickel	0.195	0.050	0.200		97.5	85 - 115			

CET # : 2030467

Project: Superior Plating, Southport

Batch B2C2120 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2C2120-BLK1)					Prepared: 3/21/2022 Analyzed: 3/22/2022				
Chromium	ND	0.050							
Nickel	ND	0.050							
LCS (B2C2120-BS1)					Prepared: 3/21/2022 Analyzed: 3/22/2022				
Chromium	0.202	0.050	0.200		101	85 - 115			
Nickel	0.204	0.050	0.200		102	85 - 115			

CET # : 2030467

Project: Superior Plating, Southport

Batch B2C2130 - EPA 300.0

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2C2130-BLK1)					Prepared: 3/21/2022 Analyzed: 3/21/2022				
Sulfate	ND	1.0							
LCS (B2C2130-BS1)					Prepared: 3/21/2022 Analyzed: 3/21/2022				
Sulfate	5.2	1.0	5.000		104	90 - 110			

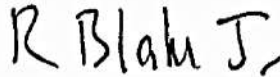
CET # : 2030467

Project: Superior Plating, Southport

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Robert Blake



David Ditta
Laboratory Director

Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- *I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration Batch	An analytical standard analyzed with each set of samples to verify initial calibration of the system. Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate Result	Result from the duplicate analysis of a sample. Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116
Massachusetts Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc.

Client: GZA GeoEnvironmental, Inc.

Project Location: Superior Plating, Southport

Project Number:

Laboratory Sample ID(s):

Sample Date(s):

2030467-01 thru 2030467-22

03/17/2022

List RCP Methods Used:


CET #: 2030467

SM 3500-Cr B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b	b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director

Printed Name: David Ditta **Date:** 03/23/2022

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- Client requested a subset of the RCP metals list.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2C1805	S2C1805	2030467-01	CW-1	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-02	CW-2	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-03	CW-3	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-04	CW-5	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-05	CW-6	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-06	CW-7	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-07	CW-8	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-08	CW-9	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-09	CW-10	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-10	CW-12	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-12	CW-13	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-13	MW-1	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-14	MW-2	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-15	MW-4	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-16	MW-11	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-17	MW-12	EPA 200.7	Water	03/17/2022
B2C1805	S2C1805	2030467-18	MW-13	EPA 200.7	Water	03/17/2022
B2C2105	S2C2107	2030467-19	MW-14-07	EPA 200.7	Water	03/17/2022
B2C2105	S2C2107	2030467-20	MW-17-13	EPA 200.7	Water	03/17/2022
B2C2105	S2C2107	2030467-21	OB-9	EPA 200.7	Water	03/17/2022
B2C2105	S2C2107	2030467-22	DUP	EPA 200.7	Water	03/17/2022
B2C2112		2030467-11	CW-12 Filtered	EPA 200.7	Water	03/17/2022
B2C2120	S2C2108	2030467-11	CW-12 Filtered	EPA 200.7	Water	03/17/2022
B2C2130		2030467-01	CW-1	EPA 300.0	Water	03/17/2022
B2C2130		2030467-02	CW-2	EPA 300.0	Water	03/17/2022
B2C2130		2030467-03	CW-3	EPA 300.0	Water	03/17/2022
B2C2130		2030467-04	CW-5	EPA 300.0	Water	03/17/2022
B2C2130		2030467-05	CW-6	EPA 300.0	Water	03/17/2022
B2C2130		2030467-06	CW-7	EPA 300.0	Water	03/17/2022
B2C2130		2030467-07	CW-8	EPA 300.0	Water	03/17/2022
B2C2130		2030467-08	CW-9	EPA 300.0	Water	03/17/2022
B2C2130		2030467-09	CW-10	EPA 300.0	Water	03/17/2022
B2C2130		2030467-10	CW-12	EPA 300.0	Water	03/17/2022
B2C2130		2030467-12	CW-13	EPA 300.0	Water	03/17/2022
B2C2130		2030467-16	MW-11	EPA 300.0	Water	03/17/2022
B2C1820		2030467-01	CW-1	SM 3500-Cr B	Water	03/17/2022
B2C1820		2030467-02	CW-2	SM 3500-Cr B	Water	03/17/2022
B2C1820		2030467-03	CW-3	SM 3500-Cr B	Water	03/17/2022
B2C1820		2030467-04	CW-5	SM 3500-Cr B	Water	03/17/2022
B2C1820		2030467-05	CW-6	SM 3500-Cr B	Water	03/17/2022
B2C1820		2030467-06	CW-7	SM 3500-Cr B	Water	03/17/2022
B2C1820		2030467-07	CW-8	SM 3500-Cr B	Water	03/17/2022
B2C1820		2030467-08	CW-9	SM 3500-Cr B	Water	03/17/2022
B2C1820		2030467-09	CW-10	SM 3500-Cr B	Water	03/17/2022
B2C1820		2030467-10	CW-12	SM 3500-Cr B	Water	03/17/2022
B2C1820		2030467-12	CW-13	SM 3500-Cr B	Water	03/17/2022
B2C1820		2030467-13	MW-1	SM 3500-Cr B	Water	03/17/2022
B2C1820		2030467-14	MW-2	SM 3500-Cr B	Water	03/17/2022

B2C1820	2030467-15	MW-4	SM 3500-Cr B	Water	03/17/2022
B2C1820	2030467-16	MW-11	SM 3500-Cr B	Water	03/17/2022
B2C1820	2030467-17	MW-12	SM 3500-Cr B	Water	03/17/2022
B2C1820	2030467-18	MW-13	SM 3500-Cr B	Water	03/17/2022
B2C1821	2030467-11	CW-12 Filtered	SM 3500-Cr B	Water	03/17/2022
B2C1821	2030467-19	MW-14-07	SM 3500-Cr B	Water	03/17/2022
B2C1821	2030467-20	MW-17-13	SM 3500-Cr B	Water	03/17/2022
B2C1821	2030467-21	OB-9	SM 3500-Cr B	Water	03/17/2022
B2C1821	2030467-22	DUP	SM 3500-Cr B	Water	03/17/2022



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

Page 21 of 23

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cetservices@cetlabs.com
e-mail: bottleorders@cetlabs.com

Matrix
A=Air
S=Soil
W=Water
DW=Drinking
Water
C=Cassette
Solid
Wipe
Other
(Specify)

Turnaround Time **
(check one)

Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)
				X

8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAS	PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ABE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter

Additional Analysis					TOTAL # OF CONT.	NOTE #
Hex. Chrom.	Total Chrom.	Nickel	Iron	Sulfate		
X	X	X	X	X	2	
X	X	X	X	X	2	
X	X	X	X	X	2	
X	X	X	X	X	2	
X	X	X	X	X	2	
X	X	X	X	X	2	
X	X	X	X	X	2	
X	X	X	X	X	2	
X	X	X	X	X	2	

Sample ID/Sample Depths
(include Units for any sample depths provided)

Collection Date/Time

CW-1	3-17-22/1110	GW
CW-2	3-17-22/1100	GW
CW-3	3-17-22/1050	GW
CW-5	3-17-22/1030	GW
CW-6	3-17-22/1010	GW
CW-7	3-17-22/1000	GW
CW-8	3-17-22/0940	GW
CW-9	3-17-22/1120	GW
CW-10	3-17-22/1140	GW
CW-12	3-17-22/1340	GW

PRESERVATIVE (CI-HCl, N-HNO₃, S-H₂SO₄, Na-NaOH, C=Cool, O-Other)

CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY: <i>Manisha...</i>	DATE/TIME: 3-17-22/1438	RECEIVED BY: <i>[Signature]</i>
RELINQUISHED BY: <i>[Signature]</i>	DATE/TIME: 3-13-22/160	RECEIVED BY: <i>[Signature]</i>
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:

NOTES:

Client / Reporting Information

Company Name: GZA
 Address: 35 Nutmeg Dr., Suite 325
 City: Trumbull State: CT Zip: 06601
 Report To: Marlee Najary Wiorick E-mail: @gza.com
 Phone #: _____ Fax #: _____

Project Information

Project: Superior Plating PO #: _____
 Location: Southport, CT Project #: 43459
 CET Quote #: SHS Collector(s): SHS, MAN
 QA/QC: Std Site Specific (MS/MSD) * RCP Pkg * DQAW *
 Data Report: PDF EDD - Specify Format _____ Other _____
 RSR Reporting Limits (check one): GA GB SWP Other _____
 Laboratory Certification Needed (check one): CT NY RI MA PA
 Temp Upon Receipt: 15 °C Evidence of Cooling: Y N
 PAGE 1 OF 3

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

Page 22 of 23

80 Lupes Drive Stratford, CT 06615		Tel: (203) 377-9984 Fax: (203) 377-9952 e-mail: cetservices@cetlabs.com e-mail: bottleorders@cetlabs.com		Matrix A=Air S=Soil W=Water DW=Drinking Water C=Cassette Solid Wipe Other (Specify)		Turnaround Time ** (check one)														Metals		Additional Analysis					TOTAL # OF CONT.	NOTE #									
Sample ID/Sample Depths (include Units for any sample depths provided)		Collection Date/Time		Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAS	PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Hex. Chrom.	Total Chrom.	Nickel	Iron	Sulfate							
CW-12 Filtered		3-17-22/1340						X																	X	X	X	X	X						2		
CW-13		3-17-22/1045						X																	X	X	X	X	X						2		
MW-1		3-17-22/1015						X																	X	X	X							2			
MW-2		3-17-22/1105						X																	X	X	X							2			
MW-4		3-17-22/1150						X																	X	X	X							2			
MW-11		3-17-22/1310						X																	X	X	X	X	X						2		
MW-12		3-17-22/1415						X																	X	X	X							2			
MW-13		3-17-22/0855						X																	X	X	X							2			
MW-14-07		3-17-22/1340						X																	X	X	X							2			
MW-17-13		3-17-22/1238						X																	X	X	X							2			
PRESERVATIVE (Cl-HCl, N-HNO ₃ , S-H ₂ SO ₄ , Na-NaOH, C=Cool, O-Other)																										C	N	N	N	C					20		
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)																										P	P	P	P	P							
Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)																																					
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:		NOTES:																															
<i>Murray M...</i>		3-17-22/1438		<i>[Signature]</i>																																	
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:																																	
<i>[Signature]</i>		1600		<i>[Signature]</i>																																	
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:																																	
<i>[Signature]</i>																																					
Client / Reporting Information		Project: <u>Superior Plating</u>		PO #:																																	
Company Name: <u>GZA</u>		Location: <u>Southport, CT</u>		Project #: <u>43459</u>																																	
Address: <u>35 Nutmeg Dr., Suite 325</u>		CET Quote #: <u>SHS</u>		Collector(s): <u>SHS, MAN</u>																																	
City: <u>Trumbull</u> State: <u>CT</u> Zip: <u>06601</u>		QA/QC: <input checked="" type="checkbox"/> Std <input checked="" type="checkbox"/> Site Specific (MS/MSD) * <input checked="" type="checkbox"/> RCP Pkg * <input type="checkbox"/> DQAW *		Data Report: <input checked="" type="checkbox"/> PDF <input type="checkbox"/> EDD - Specify Format <input type="checkbox"/> Other																																	
Report To: <u>Marlee Najamy Winnick @ gza.com</u>		E-mail: <u>[Blank]</u>		RSR Reporting Limits (check one) <input checked="" type="checkbox"/> GA <input type="checkbox"/> GB <input checked="" type="checkbox"/> SWP <input type="checkbox"/> Other																																	
Phone #: <u>[Blank]</u> Fax #: <u>[Blank]</u>		Laboratory Certification Needed (check one) <input checked="" type="checkbox"/> CT <input type="checkbox"/> NY <input type="checkbox"/> RI <input type="checkbox"/> MA <input type="checkbox"/> PA		Temp Upon Receipt: <u>15</u> °C Evidence of Cooling: <input checked="" type="checkbox"/> N																																	
		PAGE: <u>2</u> OF: <u>2</u>																																			

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes. REV. 12/18



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

Page 23 of 23

80 Lupes Drive Stratford, CT 06615		Tel: (203) 377-9984 Fax: (203) 377-9952 e-mail: cetservices@cetlabs.com e-mail: bottleorders@cetlabs.com		Matrix A=Air S=Soil W=Water DW=Drinking Water C=Cassette Solid Wipe Other (Specify)		Turnaround Time ** (check one)												Metals		Additional Analysis			TOTAL # OF CONT.	NOTE #													
Sample ID/Sample Depths (include Units for any sample depths provided)		Collection Date/Time		Same Day *	Next Day *	Two Day *	Three Day *	Sid (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Hex. Chrom.	Total Chrom.	Nickel									
OB-9		3-17-22/0935						X																		X	X	X				2					
DUP		3-17-22/1340						X																		X	X	X				2					
PRESERVATIVE (CI-HCl, N-HNO ₃ , S-H ₂ SO ₄ , Na-NaOH, C=Cool, O-Other)																										C	N	N					5				
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)																										P	P	P									
Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)																																					
RELINQUISHED BY: DATE/TIME RECEIVED BY:		3-17-22/1438																																			
RELINQUISHED BY: DATE/TIME RECEIVED BY:		3-17-22		HOW		3/17/22																															
RELINQUISHED BY: DATE/TIME RECEIVED BY:																																					
Client / Reporting Information																																					
Company Name		GZA																																			
Address		35 Nutmeg Dr., Suite 325																																			
City		Trumbull		State		CT		Zip		06611																											
Report To:		Marlee Najamy Winnick		E-mail		@gza.com																															
Phone #				Fax #																																	
Project:		Superior Plating		PO #:																																	
Location:		Southport, CT		Project #:		43459																															
CET Quote #				Collector(s):		SHS, MAN																															
QA/QC		<input checked="" type="checkbox"/> Std		<input type="checkbox"/> Site Specific (MS/MSD) *		<input checked="" type="checkbox"/> RCP Pkg *		<input type="checkbox"/> DOAW *																													
Data Report		<input checked="" type="checkbox"/> PDF		<input type="checkbox"/> EDD - Specify Format		Other																															
RSR Reporting Limits (check one)		<input checked="" type="checkbox"/> GA		<input type="checkbox"/> GB		<input checked="" type="checkbox"/> SWP		<input type="checkbox"/> Other																													
Laboratory Certification Needed (check one)		<input checked="" type="checkbox"/> CT		<input type="checkbox"/> NY		<input type="checkbox"/> RI		<input type="checkbox"/> MA		<input type="checkbox"/> PA																											
Temp Upon Receipt		15 °C		Evidence of Cooling:		<input checked="" type="checkbox"/> N																						PAGE 3		OF 3							

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

80 Lupes Drive
Stratford, CT 06615



Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Marlee NajamyWinnick
GZA GeoEnvironmental, Inc.
35 Nutmeg Drive, Suite 325
Trumbull, CT 06611

Analytical Report

CET# 2030507

Report Date: March 25, 2022
Project: Superior Plating, Southport
Project Number: 43459

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

CET # : 2030507

Project: Superior Plating, Southport

Project Number: 43459

SAMPLE SUMMARY

The sample(s) were received at 4.3°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
MW-5	2030507-01	Water	3/18/2022 9:25	03/18/2022
MW-10	2030507-02	Water	3/18/2022 10:15	03/18/2022
MW-19-19	2030507-03	Water	3/18/2022 11:55	03/18/2022
MW-20-19	2030507-04	Water	3/18/2022 12:30	03/18/2022
MW-21-19	2030507-05	Water	3/18/2022 11:20	03/18/2022
OB-7	2030507-06	Water	3/18/2022 8:35	03/18/2022

CET # : 2030507

Project: Superior Plating, Southport

Project Number: 43459

Analyte: Sulfate [EPA 300.0]

Analyst: PMD

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2030507-03	MW-19-19	110	10	mg/L	10	B2C2130	03/21/2022	03/21/2022 17:29	
2030507-04	MW-20-19	180	10	mg/L	10	B2C2130	03/21/2022	03/22/2022 18:13	
2030507-05	MW-21-19	300	10	mg/L	10	B2C2130	03/21/2022	03/22/2022 18:30	

Analyte: Hexavalent Chromium [SM 3500-Cr B]

Analyst: PMD

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2030507-01	MW-5	55	2.0	mg/L	100	B2C1838	03/18/2022	03/18/2022 15:05	
2030507-02	MW-10	ND	0.020	mg/L	1	B2C1838	03/18/2022	03/18/2022 15:05	
2030507-03	MW-19-19	170	5.0	mg/L	250	B2C1838	03/18/2022	03/18/2022 15:05	
2030507-04	MW-20-19	1200	50	mg/L	2500	B2C1838	03/18/2022	03/18/2022 15:05	
2030507-05	MW-21-19	1100	50	mg/L	2500	B2C1838	03/18/2022	03/18/2022 15:05	
2030507-06	OB-7	ND	0.020	mg/L	1	B2C1838	03/18/2022	03/18/2022 15:05	

Analyte: Total Nickel [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2030507-01	MW-5	0.42	0.40	mg/L	10	B2C2206	03/22/2022	03/24/2022 12:02	
2030507-02	MW-10	ND	0.050	mg/L	1	B2C2225	03/22/2022	03/22/2022 17:33	
2030507-03	MW-19-19	78	0.050	mg/L	1	B2C2225	03/22/2022	03/22/2022 17:50	
2030507-04	MW-20-19	3.7	2.5	mg/L	50	B2C2225	03/22/2022	03/24/2022 12:06	
2030507-05	MW-21-19	3.5	2.5	mg/L	50	B2C2225	03/22/2022	03/24/2022 12:10	
2030507-06	OB-7	ND	0.050	mg/L	1	B2C2225	03/22/2022	03/22/2022 18:11	

CET # : 2030507

Project: Superior Plating, Southport

Project Number: 43459

Analyte: Total Iron [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2030507-03	MW-19-19	ND	0.50	mg/L	5	B2C2225	03/22/2022	03/22/2022 17:50	
2030507-04	MW-20-19	ND	5.0	mg/L	50	B2C2225	03/22/2022	03/24/2022 12:06	
2030507-05	MW-21-19	ND	5.0	mg/L	50	B2C2225	03/22/2022	03/24/2022 12:10	

Analyte: Total Chromium [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2030507-01	MW-5	57	0.50	mg/L	10	B2C2206	03/22/2022	03/24/2022 12:02	
2030507-02	MW-10	ND	0.050	mg/L	1	B2C2225	03/22/2022	03/22/2022 17:33	
2030507-03	MW-19-19	170	0.25	mg/L	5	B2C2225	03/22/2022	03/22/2022 17:50	
2030507-04	MW-20-19	1200	2.5	mg/L	50	B2C2225	03/22/2022	03/24/2022 12:06	
2030507-05	MW-21-19	1100	2.5	mg/L	50	B2C2225	03/22/2022	03/24/2022 12:10	
2030507-06	OB-7	ND	0.050	mg/L	1	B2C2225	03/22/2022	03/22/2022 18:11	

CET # : 2030507

Project: Superior Plating, Southport

Project Number: 43459

QUALITY CONTROL SECTION

Batch B2C1838 - SM 3500-Cr B

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2C1838-BLK1)									Prepared: 3/18/22 Analyzed: 3/18/22
Hexavalent Chromium	ND	0.020							
LCS (B2C1838-BS1)									Prepared: 3/18/22 Analyzed: 3/18/22
Hexavalent Chromium	0.21	0.020	0.200		103	80 - 120			
Duplicate (B2C1838-DUP1)									Prepared: 3/18/22 Analyzed: 3/18/22
Hexavalent Chromium	0.010	0.020		0.011			9.52	20	
Matrix Spike (B2C1838-MS1)									Prepared: 3/18/22 Analyzed: 3/18/22
Hexavalent Chromium	0.22	0.020	0.200	0.011	103	70 - 130			
Matrix Spike Dup (B2C1838-MSD1)									Prepared: 3/18/22 Analyzed: 3/18/22
Hexavalent Chromium	0.22	0.020	0.200	0.011	102	70 - 130	0.464	20	

CET # : 2030507

Project: Superior Plating, Southport

Project Number: 43459

Batch B2C2130 - EPA 300.0

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2C2130-BLK1)									Prepared: 3/21/22 Analyzed: 3/21/22
Sulfate	ND	1.0							
LCS (B2C2130-BS1)									Prepared: 3/21/22 Analyzed: 3/21/22
Sulfate	5.2	1.0	5.000		104	90 - 110			

CET # : 2030507

Project: Superior Plating, Southport

Project Number: 43459

Batch B2C2206 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2C2206-BLK1)					Prepared: 3/22/22 Analyzed: 3/22/22				
Chromium	ND	0.050							
Nickel	ND	0.050							
LCS (B2C2206-BS1)					Prepared: 3/22/22 Analyzed: 3/22/22				
Chromium	0.200	0.050	0.200		100	85 - 115			
Nickel	0.200	0.050	0.200		100	85 - 115			

CET #: 2030507

Project: Superior Plating, Southport

Project Number: 43459

Batch B2C2225 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2C2225-BLK1)					Prepared: 3/22/22 Analyzed: 3/22/22				
Chromium	ND	0.050							
Nickel	ND	0.050							
Iron	ND	0.10							
LCS (B2C2225-BS1)					Prepared: 3/22/22 Analyzed: 3/22/22				
Chromium	0.225	0.050	0.200		112	85 - 115			
Nickel	0.204	0.050	0.200		102	85 - 115			
Iron	4.80	0.10	5.000		96.0	85 - 115			
Duplicate (B2C2225-DUP1)		Source: 2030507-02			Prepared: 3/22/22 Analyzed: 3/22/22				
Chromium	ND	0.050		ND					20
Nickel	ND	0.050		ND					20
Iron	0.143	0.10		0.114			23.3		444
Matrix Spike (B2C2225-MS1)		Source: 2030507-02			Prepared: 3/22/22 Analyzed: 3/22/22				
Chromium	0.224	0.050	0.200	ND	112	75 - 125			
Nickel	0.232	0.050	0.200	ND	116	75 - 125			
Iron	5.13	0.10	5.000	0.114	100	75 - 125			
Matrix Spike Dup (B2C2225-MSD1)		Source: 2030507-02			Prepared: 3/22/22 Analyzed: 3/22/22				
Chromium	0.215	0.050	0.200	ND	107	75 - 125	4.11		20
Nickel	0.226	0.050	0.200	ND	113	75 - 125	2.53		20
Iron	4.96	0.10	5.000	0.114	96.9	75 - 125	3.43		20

CET #: 2030507

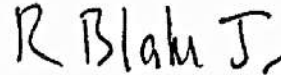
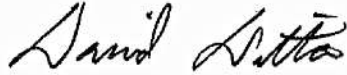
Project: Superior Plating, Southport

Project Number: 43459

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Robert Blake



David Ditta
Laboratory Director

Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- *I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CET # : 2030507

Project: Superior Plating, Southport

Project Number: 43459



80 Lupes Drive
Stratford, CT 06615

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Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration Batch	An analytical standard analyzed with each set of samples to verify initial calibration of the system. Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate Result	Result from the duplicate analysis of a sample. Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116
Massachusetts Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

Complete Environmental Testing, Inc.

80 Lupes Drive, Stratford, CT 06615 • Tel: 203-377-9984 • Fax: 203-377-9952 • www.cetlabs.com




REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc. **Client:** GZA GeoEnvironmental, Inc.
Project Location: Superior Plating, Southport **Project Number:** 43459
Laboratory Sample ID(s): 2030507-01 thru 2030507-06 **Sample Date(s):** 03/18/2022
List RCP Methods Used: SM 3500-Cr B **CET #:** 2030507

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b	b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director
Printed Name: David Ditta **Date:** 03/24/2022
Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- Client requested a subset of the RCP metals list.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2C2206	S2C2203	2030507-01	MW-5	EPA 200.7	Water	03/18/2022
B2C2225	S2C2203	2030507-02	MW-10	EPA 200.7	Water	03/18/2022
B2C2225	S2C2203	2030507-03	MW-19-19	EPA 200.7	Water	03/18/2022
B2C2225	S2C2203	2030507-04	MW-20-19	EPA 200.7	Water	03/18/2022
B2C2225	S2C2203	2030507-05	MW-21-19	EPA 200.7	Water	03/18/2022
B2C2225	S2C2203	2030507-06	OB-7	EPA 200.7	Water	03/18/2022
B2C2130		2030507-03	MW-19-19	EPA 300.0	Water	03/18/2022
B2C2130		2030507-04	MW-20-19	EPA 300.0	Water	03/18/2022
B2C2130		2030507-05	MW-21-19	EPA 300.0	Water	03/18/2022
B2C1838		2030507-01	MW-5	SM 3500-Cr B	Water	03/18/2022
B2C1838		2030507-02	MW-10	SM 3500-Cr B	Water	03/18/2022
B2C1838		2030507-03	MW-19-19	SM 3500-Cr B	Water	03/18/2022
B2C1838		2030507-04	MW-20-19	SM 3500-Cr B	Water	03/18/2022
B2C1838		2030507-05	MW-21-19	SM 3500-Cr B	Water	03/18/2022
B2C1838		2030507-06	OB-7	SM 3500-Cr B	Water	03/18/2022



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

Page 13 of 13

80 Lupes Drive Stratford, CT 06615		Tel: (203) 377-9984 Fax: (203) 377-9952 e-mail: cetservices@cetlabs.com e-mail: bottleorders@cetlabs.com		Matrix A=Air S=Soil W=Water DW=Drinking Water C=Cassette Solid Wipe Other (Specify)		Turnaround Time ** (check one)												Metals		Additional Analysis				TOTAL # OF CONT.	NOTE #												
Sample ID/Sample Depths (include Units for any sample depths provided)		Collection Date/Time		Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAS	PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtermat	Lab to Filter	Hex. CHROME	TOTAL CHROM.	NICKEL	IRON	Sulfate							
MW-5		3-18-22/0925		W				X																	X	X									2		
MW-10		3-18-22/1015		W				X																	X	X									6		
MW-19-19		3-18-22/1155		W				X																	X	X	X	X	X					2			
MW-20-19		3-18-22/1230		W				X																	X	X	X	X	X					2			
MW-21-19		3-18-22/1120		W				X																	X	X	X	X	X					2			
OB-7		3-18-22/0835		W				X																	X	X							2				
PRESERVATIVE (CI-HCl, N-HNO ₃ , S-H ₂ SO ₄ , Na-NaOH, C=Cool, O-Other)																										C	N	N	N	C					16		
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)																										P	P	P	P	P							
Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)																																					
RELINQUISHED BY: <i>Morgan Livison</i>		DATE/TIME: <i>3/15/22</i>		RECEIVED BY: <i>J. Smith</i>		DATE/TIME: <i>3/18/22</i>				NOTES: ① Run MS/MSD on MW-10																											
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:																															
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:																															
Client / Reporting Information																		Project Information																			
Company Name: <i>GZA GeoEnvironmental</i>																		Project: <i>Superior Plating</i>																			
Address: <i>35 Nutmeg Dr, Suite 325</i>																		Location: <i>Southport, CT</i>																			
City: <i>Trumbull</i> State: <i>CT</i> Zip: <i>06601</i>																		Project #: <i>43459</i>																			
Report To: <i>marlee.najamywinnick@gza.com</i>																		CET Quote # _____ Collector(s): <i>MAN</i>																			
Phone #: _____ Fax #: _____																		QA/QC <input checked="" type="checkbox"/> Std <input checked="" type="checkbox"/> Site Specific (MS/MSD) * <input checked="" type="checkbox"/> RCP Pkg * <input type="checkbox"/> DQAW *																			
																		Data Report <input checked="" type="checkbox"/> PDF <input type="checkbox"/> EDD - Specify Format _____ Other _____																			
																		RSR Reporting Limits (check one) <input checked="" type="checkbox"/> GA <input type="checkbox"/> GB <input checked="" type="checkbox"/> SWP <input type="checkbox"/> Other _____																			
																		Laboratory Certification Needed (check one) <input checked="" type="checkbox"/> CT <input type="checkbox"/> NY <input type="checkbox"/> RI <input type="checkbox"/> MA <input type="checkbox"/> PA																			
																		Temp Upon Receipt: <i>4.3°C</i> Evidence of Cooling: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N																			
																		PAGE <i>1</i> OF <i>1</i>																			

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes. REV. 12/18

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Stratford, CT 06615



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Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Marlee Najamy Winnick
GZA GeoEnvironmental, Inc.
35 Nutmeg Drive, Suite 325
Trumbull, CT 06611

Analytical Report

CET# 2050136

Report Date: May 12, 2022
Project: Superior Plating, Southport
Project Number: 43459.00

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

CET # : 2050136

Project: Superior Plating, Southport

Project Number: 43459.00

SAMPLE SUMMARY

The sample(s) were received at 2.8°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
SPC-SW-1S	2050136-01	Water	5/05/2022 12:05	05/05/2022
SPC-SW-1D	2050136-02	Water	5/05/2022 12:15	05/05/2022
SPC-SW-2S	2050136-03	Water	5/05/2022 11:35	05/05/2022
SPC-SW-2D	2050136-04	Water	5/05/2022 11:45	05/05/2022
SPC-SW-3S	2050136-05	Water	5/05/2022 10:50	05/05/2022
SPC-SW-3D	2050136-06	Water	5/05/2022 11:00	05/05/2022
SPC-SW-4S	2050136-07	Water	5/05/2022 10:20	05/05/2022
SPC-SW-4D	2050136-08	Water	5/05/2022 10:30	05/05/2022
SPC-SW-5S	2050136-09	Water	5/05/2022 9:40	05/05/2022
SPC-SW-5D	2050136-10	Water	5/05/2022 9:50	05/05/2022
DUP	2050136-11	Water	5/05/2022 9:40	05/05/2022

CET # : 2050136

Project: Superior Plating, Southport

Project Number: 43459.00

Analyte: Hexavalent Chromium [SM 3500-Cr B]

Analyst: PMD

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2050136-01	SPC-SW-1S	ND	0.020	mg/L	1	B2E0601	05/06/2022	05/06/2022 07:46	
2050136-02	SPC-SW-1D	ND	0.020	mg/L	1	B2E0601	05/06/2022	05/06/2022 07:46	
2050136-03	SPC-SW-2S	ND	0.020	mg/L	1	B2E0601	05/06/2022	05/06/2022 07:46	
2050136-04	SPC-SW-2D	ND	0.020	mg/L	1	B2E0601	05/06/2022	05/06/2022 07:46	
2050136-05	SPC-SW-3S	ND	0.020	mg/L	1	B2E0601	05/06/2022	05/06/2022 07:46	
2050136-06	SPC-SW-3D	ND	0.020	mg/L	1	B2E0601	05/06/2022	05/06/2022 07:46	
2050136-07	SPC-SW-4S	ND	0.020	mg/L	1	B2E0601	05/06/2022	05/06/2022 07:46	
2050136-08	SPC-SW-4D	ND	0.020	mg/L	1	B2E0601	05/06/2022	05/06/2022 07:46	
2050136-09	SPC-SW-5S	ND	0.020	mg/L	1	B2E0601	05/06/2022	05/06/2022 07:46	
2050136-10	SPC-SW-5D	ND	0.020	mg/L	1	B2E0601	05/06/2022	05/06/2022 07:46	
2050136-11	DUP	ND	0.020	mg/L	1	B2E0601	05/06/2022	05/06/2022 07:46	

Analyte: Total Nickel [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2050136-01	SPC-SW-1S	ND	0.050	mg/L	1	B2E0902	05/09/2022	05/09/2022 17:27	
2050136-02	SPC-SW-1D	ND	0.050	mg/L	1	B2E0902	05/09/2022	05/09/2022 17:32	
2050136-03	SPC-SW-2S	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 10:13	
2050136-04	SPC-SW-2D	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 10:30	
2050136-05	SPC-SW-3S	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 10:34	
2050136-06	SPC-SW-3D	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 10:38	
2050136-07	SPC-SW-4S	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 10:43	
2050136-08	SPC-SW-4D	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 10:56	
2050136-09	SPC-SW-5S	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 11:00	
2050136-10	SPC-SW-5D	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 11:04	
2050136-11	DUP	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 11:09	

Complete Environmental Testing, Inc.

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Page 3 of 13

CET # : 2050136

Project: Superior Plating, Southport

Project Number: 43459.00

Analyte: Total Chromium [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2050136-01	SPC-SW-1S	ND	0.050	mg/L	1	B2E0902	05/09/2022	05/09/2022 17:27	
2050136-02	SPC-SW-1D	ND	0.050	mg/L	1	B2E0902	05/09/2022	05/09/2022 17:32	
2050136-03	SPC-SW-2S	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 10:13	
2050136-04	SPC-SW-2D	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 10:30	
2050136-05	SPC-SW-3S	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 10:34	
2050136-06	SPC-SW-3D	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 10:38	
2050136-07	SPC-SW-4S	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 10:43	
2050136-08	SPC-SW-4D	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 10:56	
2050136-09	SPC-SW-5S	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 11:00	
2050136-10	SPC-SW-5D	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 11:04	
2050136-11	DUP	ND	0.050	mg/L	1	B2E0906	05/09/2022	05/11/2022 11:09	

CET # : 2050136

Project: Superior Plating, Southport

Project Number: 43459.00

QUALITY CONTROL SECTION

Batch B2E0601 - SM 3500-Cr B

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2E0601-BLK1)									
Hexavalent Chromium	ND	0.020							Prepared: 5/6/2022 Analyzed: 5/6/2022
LCS (B2E0601-BS1)									
Hexavalent Chromium	0.20	0.020	0.200		99.0	80 - 120			Prepared: 5/6/2022 Analyzed: 5/6/2022
Duplicate (B2E0601-DUP1)									
Hexavalent Chromium	0.013	0.020		0.016			20.7	20	Source: 2050136-02 Prepared: 5/6/2022 Analyzed: 5/6/2022 D
Matrix Spike (B2E0601-MS1)									
Hexavalent Chromium	0.22	0.020	0.200	0.016	99.5	70 - 130			Source: 2050136-02 Prepared: 5/6/2022 Analyzed: 5/6/2022
Matrix Spike Dup (B2E0601-MSD1)									
Hexavalent Chromium	0.20	0.020	0.200	0.016	93.0	70 - 130	6.24	20	Source: 2050136-02 Prepared: 5/6/2022 Analyzed: 5/6/2022

CET #: 2050136

Project: Superior Plating, Southport

Project Number: 43459.00

Batch B2E0902 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2E0902-BLK1)					Prepared: 5/9/2022 Analyzed: 5/9/2022				
Chromium	ND	0.050							
Nickel	ND	0.050							
LCS (B2E0902-BS1)					Prepared: 5/9/2022 Analyzed: 5/9/2022				
Chromium	0.194	0.050	0.200		97.1	85 - 115			
Nickel	0.208	0.050	0.200		104	85 - 115			
Duplicate (B2E0902-DUP1)					Prepared: 5/9/2022 Analyzed: 5/9/2022				
		Source: 2050136-02							
Chromium	ND	0.050		ND				20	
Nickel	ND	0.050		ND				20	
Matrix Spike (B2E0902-MS1)					Prepared: 5/9/2022 Analyzed: 5/9/2022				
		Source: 2050136-02							
Chromium	0.202	0.050	0.200	ND	101	75 - 125			
Nickel	0.220	0.050	0.200	ND	110	75 - 125			
Matrix Spike Dup (B2E0902-MSD1)					Prepared: 5/9/2022 Analyzed: 5/9/2022				
		Source: 2050136-02							
Chromium	0.205	0.050	0.200	ND	103	75 - 125	1.42	20	
Nickel	0.218	0.050	0.200	ND	109	75 - 125	0.869	20	

CET #: 2050136

Project: Superior Plating, Southport

Project Number: 43459.00

Batch B2E0906 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2E0906-BLK1)					Prepared: 5/9/2022 Analyzed: 5/11/2022				
Chromium	ND	0.050							
Nickel	ND	0.050							
LCS (B2E0906-BS1)					Prepared: 5/9/2022 Analyzed: 5/11/2022				
Chromium	0.206	0.050	0.200		103	85 - 115			
Nickel	0.215	0.050	0.200		108	85 - 115			
Duplicate (B2E0906-DUP1)					Prepared: 5/9/2022 Analyzed: 5/11/2022				
		Source: 2050136-03							
Chromium	ND	0.050		ND				20	
Nickel	ND	0.050		ND				20	
Matrix Spike (B2E0906-MS1)					Prepared: 5/9/2022 Analyzed: 5/11/2022				
		Source: 2050136-03							
Chromium	0.213	0.050	0.200	ND	107	75 - 125			
Nickel	0.228	0.050	0.200	ND	114	75 - 125			
Matrix Spike Dup (B2E0906-MSD1)					Prepared: 5/9/2022 Analyzed: 5/11/2022				
		Source: 2050136-03							
Chromium	0.213	0.050	0.200	ND	107	75 - 125	0.0469	20	
Nickel	0.225	0.050	0.200	ND	112	75 - 125	1.59	20	

CET #: 2050136

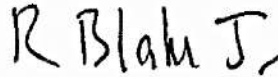
Project: Superior Plating, Southport

Project Number: 43459.00

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Robert Blake



David Ditta
Laboratory Director

Project Manager

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Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- *I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CET #: 2050136

Project: Superior Plating, Southport

Project Number: 43459.00



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Stratford, CT 06615

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email: cetl@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration Batch	An analytical standard analyzed with each set of samples to verify initial calibration of the system. Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116
Massachusetts Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

Complete Environmental Testing, Inc.

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REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc. **Client:** GZA GeoEnvironmental, Inc.
Project Location: Superior Plating, Southport **Project Number:** 43459.00
Laboratory Sample ID(s): 2050136-01 thru 2050136-11 **Sample Date(s):** 05/05/2022
List RCP Methods Used: SM 3500-Cr B **CET #:** 2050136

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b	b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director
Printed Name: David Ditta **Date:** 05/12/2022
Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

4- See Exceptions Report Below

6- Client requested a subset of the RCP metals list.

4- Exceptions Report

Analyte	QC Type	Exception	Result	RPD	Recovery (%)	Batch/Sequence Sample ID
Hexavalent Chromium	DUP	>RPD		20.7		2050136-02

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2E0902	S2E0903	2050136-01	SPC-SW-1S	EPA 200.7	Water	05/05/2022
B2E0902	S2E0903	2050136-02	SPC-SW-1D	EPA 200.7	Water	05/05/2022
B2E0906	S2E1101	2050136-03	SPC-SW-2S	EPA 200.7	Water	05/05/2022
B2E0906	S2E1101	2050136-04	SPC-SW-2D	EPA 200.7	Water	05/05/2022
B2E0906	S2E1101	2050136-05	SPC-SW-3S	EPA 200.7	Water	05/05/2022
B2E0906	S2E1101	2050136-06	SPC-SW-3D	EPA 200.7	Water	05/05/2022
B2E0906	S2E1101	2050136-07	SPC-SW-4S	EPA 200.7	Water	05/05/2022
B2E0906	S2E1101	2050136-08	SPC-SW-4D	EPA 200.7	Water	05/05/2022
B2E0906	S2E1101	2050136-09	SPC-SW-5S	EPA 200.7	Water	05/05/2022
B2E0906	S2E1101	2050136-10	SPC-SW-5D	EPA 200.7	Water	05/05/2022
B2E0906	S2E1101	2050136-11	DUP	EPA 200.7	Water	05/05/2022
B2E0601		2050136-01	SPC-SW-1S	SM 3500-Cr B	Water	05/05/2022
B2E0601		2050136-02	SPC-SW-1D	SM 3500-Cr B	Water	05/05/2022
B2E0601		2050136-03	SPC-SW-2S	SM 3500-Cr B	Water	05/05/2022
B2E0601		2050136-04	SPC-SW-2D	SM 3500-Cr B	Water	05/05/2022
B2E0601		2050136-05	SPC-SW-3S	SM 3500-Cr B	Water	05/05/2022
B2E0601		2050136-06	SPC-SW-3D	SM 3500-Cr B	Water	05/05/2022
B2E0601		2050136-07	SPC-SW-4S	SM 3500-Cr B	Water	05/05/2022
B2E0601		2050136-08	SPC-SW-4D	SM 3500-Cr B	Water	05/05/2022
B2E0601		2050136-09	SPC-SW-5S	SM 3500-Cr B	Water	05/05/2022
B2E0601		2050136-10	SPC-SW-5D	SM 3500-Cr B	Water	05/05/2022
B2E0601		2050136-11	DUP	SM 3500-Cr B	Water	05/05/2022

2050136



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

80 Lupes Drive Stratford, CT 06615		Tel: (203) 377-9984 Fax: (203) 377-9952 e-mail: cetservices@cetlabs.com e-mail: bottleorders@cetlabs.com		Matrix A=Air S=Soil W=Water DW=Drinking Water C=Cassette Solid Wipe Other (Specify)		Turnaround Time ** (check one)																									
Sample ID/Sample Depths (include Units for any sample depths provided)		Collection Date/Time		Same Day * Next Day * Two Day * Three Day * Std (6-7 Days)				8260 CT List		8260 Aromatics		8260 Halogens		CT ETPH		8270 CT List		8270 PNAAs		PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE		Pesticides		Metals		Additional Analysis		TOTAL # OF CONT.		NOTE #	
DUP		5.5.2022/0440		SW																				Total Chromium Hex chrom nickel		X X X		2			
PRESERVATIVE (Cl-HCl, N-HNO ₃ , S-H ₂ SO ₄ , Na-NaOH, C=Cool, O-Other)																															
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)																															
Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)																															
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:																											
<i>Thomas...</i>		5/5/22		15:40		<i>[Signature]</i>																									
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:																											
<i>[Signature]</i>						<i>[Signature]</i>																									
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:																											
Client / Reporting Information																															
Company Name		GZA		Project:		Superior Plating		PO #:																							
Address		35 nutmeg drive suite 325		Location:		Southport CT		Project #:		43459.00																					
City		Humbull		State		CT		CET Quote #				Collector(s):		MONW + SALS																	
Zip		06061		QA/QC		<input type="checkbox"/> Std <input checked="" type="checkbox"/> Site Specific (MS/MSD) * <input checked="" type="checkbox"/> RCP Pkg * <input type="checkbox"/> DQAW *		Data Report		<input checked="" type="checkbox"/> PDF <input type="checkbox"/> EDD - Specify Format <input type="checkbox"/> Other		RSR Reporting Limits (check one)		<input checked="" type="checkbox"/> GA <input type="checkbox"/> GB <input checked="" type="checkbox"/> SWP <input checked="" type="checkbox"/> Other: <u>CALC</u>		Laboratory Certification Needed (check one)		<input checked="" type="checkbox"/> CT <input type="checkbox"/> NY <input type="checkbox"/> RI <input type="checkbox"/> MA <input type="checkbox"/> PA		Temp Upon Receipt		2.5 °C		Evidence of Cooling:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		PAGE		2 OF 2	
Report To:		marlee.najamy@innick.com		E-mail		GZA.com		Phone #				Fax #																			

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes. REV-12/18

80 Lupes Drive
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Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Marlee NajamyWinnick
GZA GeoEnvironmental, Inc.
35 Nutmeg Drive, Suite 325
Trumbull, CT 06611

Analytical Report

CET# 2050137

Report Date: May 13, 2022
Project: Superior Plating, Southport
Project Number: 43459.00

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

CET # : 2050137

Project: Superior Plating, Southport

Project Number: 43459.00

SAMPLE SUMMARY

The sample(s) were received at 2.8°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
SPC-SED-1	2050137-01	Soil	5/05/2022 10:05	05/05/2022
SPC-SED-2	2050137-02	Soil	5/05/2022 10:35	05/05/2022
SPC-SED-3	2050137-03	Soil	5/05/2022 11:05	05/05/2022
SPC-SED-4	2050137-04	Soil	5/05/2022 11:50	05/05/2022
SPC-SED-5	2050137-05	Soil	5/05/2022 12:20	05/05/2022
DUP	2050137-06	Soil	5/05/2022 10:05	05/05/2022

CET #: 2050137

Project: Superior Plating, Southport

Project Number: 43459.00

Analyte: Percent Solids [SM 2540 G]

Analyst: MFJ

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2050137-01	SPC-SED-1	62	1.0	%	1	B2E0925	05/09/2022	05/10/2022 09:20	
2050137-02	SPC-SED-2	48	1.0	%	1	B2E0925	05/09/2022	05/10/2022 09:20	
2050137-03	SPC-SED-3	71	1.0	%	1	B2E0925	05/09/2022	05/10/2022 09:20	
2050137-04	SPC-SED-4	63	1.0	%	1	B2E0925	05/09/2022	05/10/2022 09:20	
2050137-05	SPC-SED-5	54	1.0	%	1	B2E0925	05/09/2022	05/10/2022 09:20	
2050137-06	DUP	64	1.0	%	1	B2E0925	05/09/2022	05/10/2022 09:20	

Analyte: Hexavalent Chromium [EPA 7196A]

Analyst: PMD

Prep: EPA 3060A

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2050137-01	SPC-SED-1	ND	8.1	mg/kg dry	1	B2E1011	05/10/2022	05/10/2022 12:11	
2050137-02	SPC-SED-2	ND	10	mg/kg dry	1	B2E1011	05/10/2022	05/10/2022 12:11	
2050137-03	SPC-SED-3	ND	7.0	mg/kg dry	1	B2E1011	05/10/2022	05/10/2022 12:11	
2050137-04	SPC-SED-4	ND	7.9	mg/kg dry	1	B2E1011	05/10/2022	05/10/2022 12:11	
2050137-05	SPC-SED-5	ND	9.3	mg/kg dry	1	B2E1011	05/10/2022	05/10/2022 12:11	
2050137-06	DUP	ND	7.9	mg/kg dry	1	B2E1011	05/10/2022	05/10/2022 12:11	

CET # : 2050137

Project: Superior Plating, Southport

Project Number: 43459.00

Analyte: pH [EPA 9045D]

Analyst: EAS

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2050137-01	SPC-SED-1	7.11 @22°C	NA	pH Units	1	B2E0635	05/06/2022	05/06/2022 15:52	
2050137-02	SPC-SED-2	7.59 @22°C	NA	pH Units	1	B2E0635	05/06/2022	05/06/2022 15:52	
2050137-03	SPC-SED-3	7.20 @22°C	NA	pH Units	1	B2E0635	05/06/2022	05/06/2022 15:52	
2050137-04	SPC-SED-4	7.13 @21.9°C	NA	pH Units	1	B2E0635	05/06/2022	05/06/2022 15:52	
2050137-05	SPC-SED-5	7.02 @21.9°C	NA	pH Units	1	B2E0635	05/06/2022	05/06/2022 15:52	
2050137-06	DUP	7.09 @22.1°C	NA	pH Units	1	B2E0635	05/06/2022	05/06/2022 15:52	

Analyte: Redox Potential [SM 2580B-09]

Analyst: PMD

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2050137-01	SPC-SED-1	78.8	NA	mV	1	B2E1012	05/10/2022	05/13/2022 11:30	
2050137-02	SPC-SED-2	117	NA	mV	1	B2E1012	05/10/2022	05/13/2022 11:30	
2050137-03	SPC-SED-3	135	NA	mV	1	B2E1012	05/10/2022	05/13/2022 11:30	
2050137-04	SPC-SED-4	47.8	NA	mV	1	B2E1012	05/10/2022	05/13/2022 11:30	
2050137-05	SPC-SED-5	75.1	NA	mV	1	B2E1012	05/10/2022	05/13/2022 11:30	
2050137-06	DUP	8.10	NA	mV	1	B2E1012	05/10/2022	05/13/2022 11:30	

CET # : 2050137

Project: Superior Plating, Southport

Project Number: 43459.00

Analyte: Total Nickel [EPA 6010C]

Analyst: SS

Prep: EPA 3051A

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2050137-01	SPC-SED-1	18	3.1	mg/kg dry	1	B2E0904	05/09/2022	05/09/2022 21:39	
2050137-02	SPC-SED-2	20	3.8	mg/kg dry	1	B2E0904	05/09/2022	05/09/2022 21:44	
2050137-03	SPC-SED-3	79	2.7	mg/kg dry	1	B2E0904	05/09/2022	05/09/2022 21:48	
2050137-04	SPC-SED-4	14	3.0	mg/kg dry	1	B2E1002	05/10/2022	05/10/2022 16:18	
2050137-05	SPC-SED-5	11	3.5	mg/kg dry	1	B2E1002	05/10/2022	05/10/2022 16:22	
2050137-06	DUP	14	3.0	mg/kg dry	1	B2E1002	05/10/2022	05/10/2022 16:39	

Analyte: Total Chromium [EPA 6010C]

Analyst: SS

Prep: EPA 3051A

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2050137-01	SPC-SED-1	62	3.1	mg/kg dry	1	B2E0904	05/09/2022	05/09/2022 21:39	
2050137-02	SPC-SED-2	32	3.8	mg/kg dry	1	B2E0904	05/09/2022	05/09/2022 21:44	
2050137-03	SPC-SED-3	2700	2.7	mg/kg dry	1	B2E0904	05/09/2022	05/09/2022 21:48	
2050137-04	SPC-SED-4	37	3.0	mg/kg dry	1	B2E1002	05/10/2022	05/10/2022 16:18	
2050137-05	SPC-SED-5	16	3.5	mg/kg dry	1	B2E1002	05/10/2022	05/10/2022 16:22	
2050137-06	DUP	45	3.0	mg/kg dry	1	B2E1002	05/10/2022	05/10/2022 16:39	

CET #: 2050137

Project: Superior Plating, Southport

Project Number: 43459.00

QUALITY CONTROL SECTION

Batch B2E0635 - EPA 9045D

Analyte	Result (pH Units)	RL (pH Units)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2E0635-BLK1)								Prepared: 5/6/22 Analyzed: 5/6/22
pH	6.54							
Duplicate (B2E0635-DUP1)								Prepared: 5/6/22 Analyzed: 5/6/22
pH	7.02			7.02		0.00	5	

CET # : 2050137

Project: Superior Plating, Southport

Project Number: 43459.00

Batch B2E0904 - EPA 6010C

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2E0904-BLK1)					Prepared: 5/9/22 Analyzed: 5/9/22				
Chromium	ND	2.0							
Nickel	ND	2.0							
LCS (B2E0904-BS1)					Prepared: 5/9/22 Analyzed: 5/9/22				
Chromium	23.6	2.0	24.462		96.6	80 - 120			
Nickel	23.6	2.0	24.462		96.6	80 - 120			

CET # : 2050137

Project: Superior Plating, Southport

Project Number: 43459.00

Batch B2E0925 - SM 2540 G

Analyte	Result (%)	RL (%)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Duplicate (B2E0925-DUP1)		Source: 2050137-05		Prepared: 5/9/22 Analyzed: 5/10/22					
Percent Solids	53	1.0		54			2.25	5	

CET # : 2050137

Project: Superior Plating, Southport

Project Number: 43459.00

Batch B2E1002 - EPA 6010C

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2E1002-BLK1)					Prepared: 5/10/22 Analyzed: 5/10/22				
Chromium	ND	2.0							
Nickel	ND	2.0							
LCS (B2E1002-BS1)					Prepared: 5/10/22 Analyzed: 5/10/22				
Chromium	22.9	2.0	25.000		91.8	80 - 120			
Nickel	22.1	2.0	25.000		88.5	80 - 120			
Duplicate (B2E1002-DUP1)		Source: 2050137-05			Prepared: 5/10/22 Analyzed: 5/10/22				
Chromium	17.8	3.6		16.0			11.2	35	
Nickel	12.3	3.6		11.4			7.67	35	
Matrix Spike (B2E1002-MS1)		Source: 2050137-05			Prepared: 5/10/22 Analyzed: 5/10/22				
Chromium	59.0	3.7	46.429	16.0	92.7	75 - 125			
Nickel	56.0	3.7	46.429	11.4	96.1	75 - 125			
Matrix Spike Dup (B2E1002-MSD1)		Source: 2050137-05			Prepared: 5/10/22 Analyzed: 5/10/22				
Chromium	60.2	3.4	42.055	16.0	105	75 - 125	2.12	35	
Nickel	53.7	3.4	42.055	11.4	101	75 - 125	4.30	35	

CET #: 2050137

Project: Superior Plating, Southport

Project Number: 43459.00

Batch B2E1011 - EPA 7196A

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2E1011-BLK1)					Prepared: 5/10/22 Analyzed: 5/10/22				
Hexavalent Chromium	ND	5.0							
LCS (B2E1011-BS1)					Prepared: 5/10/22 Analyzed: 5/10/22				
Hexavalent Chromium	16	5.0	20.000		80.6	80 - 120			
Duplicate (B2E1011-DUP1)					Prepared: 5/10/22 Analyzed: 5/10/22				
Hexavalent Chromium	ND	9.3		ND				20	
Matrix Spike (B2E1011-MS1)					Prepared: 5/10/22 Analyzed: 5/10/22				
Hexavalent Chromium	ND	9.3	37.143	ND		80 - 120			L
Matrix Spike Dup (B2E1011-MSD1)					Prepared: 5/10/22 Analyzed: 5/10/22				
Hexavalent Chromium	ND	9.3	37.143	ND		80 - 120		20	L

CET #: 2050137

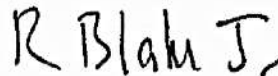
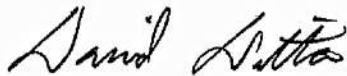
Project: Superior Plating, Southport

Project Number: 43459.00

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Robert Blake



David Ditta
Laboratory Director

Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- *I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CET # : 2050137

Project: Superior Plating, Southport

Project Number: 43459.00



80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration Batch	An analytical standard analyzed with each set of samples to verify initial calibration of the system. Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spiked.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116
Massachusetts Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

Complete Environmental Testing, Inc.

80 Lupes Drive, Stratford, CT 06615 • Tel: 203-377-9984 • Fax: 203-377-9952 • www.cetlabs.com




REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc. **Client:** GZA GeoEnvironmental, Inc.
Project Location: Superior Plating, Southport **Project Number:** 43459.00
Laboratory Sample ID(s): 2050137-01 thru 2050137-06 **Sample Date(s):** 05/05/2022
List RCP Methods Used: EPA 6010C, EPA 7196A **CET #:** 2050137

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b	b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director
Printed Name: David Ditta **Date:** 05/13/2022
Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- The client requested a subset of the RCP metals list.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2E0904	S2E0903	2050137-01	SPC-SED-1	EPA 6010C	Soil	05/05/2022
B2E0904	S2E0903	2050137-02	SPC-SED-2	EPA 6010C	Soil	05/05/2022
B2E0904	S2E0903	2050137-03	SPC-SED-3	EPA 6010C	Soil	05/05/2022
B2E1002	S2E1006	2050137-04	SPC-SED-4	EPA 6010C	Soil	05/05/2022
B2E1002	S2E1006	2050137-05	SPC-SED-5	EPA 6010C	Soil	05/05/2022
B2E1002	S2E1006	2050137-06	DUP	EPA 6010C	Soil	05/05/2022
B2E1011		2050137-01	SPC-SED-1	EPA 7196A	Soil	05/05/2022
B2E1011		2050137-02	SPC-SED-2	EPA 7196A	Soil	05/05/2022
B2E1011		2050137-03	SPC-SED-3	EPA 7196A	Soil	05/05/2022
B2E1011		2050137-04	SPC-SED-4	EPA 7196A	Soil	05/05/2022
B2E1011		2050137-05	SPC-SED-5	EPA 7196A	Soil	05/05/2022
B2E1011		2050137-06	DUP	EPA 7196A	Soil	05/05/2022
B2E0635		2050137-01	SPC-SED-1	EPA 9045D	Soil	05/05/2022
B2E0635		2050137-02	SPC-SED-2	EPA 9045D	Soil	05/05/2022
B2E0635		2050137-03	SPC-SED-3	EPA 9045D	Soil	05/05/2022
B2E0635		2050137-04	SPC-SED-4	EPA 9045D	Soil	05/05/2022
B2E0635		2050137-05	SPC-SED-5	EPA 9045D	Soil	05/05/2022
B2E0635		2050137-06	DUP	EPA 9045D	Soil	05/05/2022
B2E1012		2050137-01	SPC-SED-1	SM 2580B-09	Soil	05/05/2022
B2E1012		2050137-02	SPC-SED-2	SM 2580B-09	Soil	05/05/2022
B2E1012		2050137-03	SPC-SED-3	SM 2580B-09	Soil	05/05/2022
B2E1012		2050137-04	SPC-SED-4	SM 2580B-09	Soil	05/05/2022
B2E1012		2050137-05	SPC-SED-5	SM 2580B-09	Soil	05/05/2022
B2E1012		2050137-06	DUP	SM 2580B-09	Soil	05/05/2022

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Stratford, CT 06615



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Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Marlee NajamyWinnick
GZA GeoEnvironmental, Inc.
35 Nutmeg Drive, Suite 325
Trumbull, CT 06611

Analytical Report

CET# 2090187

Report Date: September 14, 2022
Project: Superior Plating, Southport
Project Number: 43459

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

CET # : 2090187

Project: Superior Plating, Southport

Project Number: 43459

SAMPLE SUMMARY

The sample(s) were received at 6.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
SPC-SW-1S	2090187-01	Water	9/08/2022 12:05	09/08/2022
SPC-SW-1D	2090187-02	Water	9/08/2022 12:15	09/08/2022
SPC-SW-2S	2090187-03	Water	9/08/2022 11:30	09/08/2022
SPC-SW-2D	2090187-04	Water	9/08/2022 11:40	09/08/2022
SPC-SW-3S	2090187-05	Water	9/08/2022 10:45	09/08/2022
SPC-SW-3D	2090187-06	Water	9/08/2022 10:55	09/08/2022
SPC-SW-4S	2090187-07	Water	9/08/2022 10:20	09/08/2022
SPC-SW-4D	2090187-08	Water	9/08/2022 10:30	09/08/2022
SPC-SW-5S	2090187-09	Water	9/08/2022 9:50	09/08/2022
SPC-SW-5D	2090187-10	Water	9/08/2022 10:00	09/08/2022
DUP	2090187-11	Water	9/08/2022 9:50	09/08/2022

CET #: 2090187

Project: Superior Plating, Southport

Project Number: 43459

Analyte: Hexavalent Chromium [SM 3500-Cr B]

Analyst: CGR

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090187-01	SPC-SW-1S	ND	0.020	mg/L	1	B210835	09/08/2022	09/08/2022 15:51	
2090187-02	SPC-SW-1D	ND	0.020	mg/L	1	B210835	09/08/2022	09/08/2022 15:51	
2090187-03	SPC-SW-2S	ND	0.020	mg/L	1	B210906	09/09/2022	09/09/2022 09:57	
2090187-04	SPC-SW-2D	ND	0.020	mg/L	1	B210835	09/08/2022	09/08/2022 15:51	
2090187-05	SPC-SW-3S	ND	0.020	mg/L	1	B210906	09/09/2022	09/09/2022 09:57	
2090187-06	SPC-SW-3D	ND	0.020	mg/L	1	B210906	09/09/2022	09/09/2022 09:57	
2090187-07	SPC-SW-4S	ND	0.020	mg/L	1	B210906	09/09/2022	09/09/2022 09:57	
2090187-08	SPC-SW-4D	ND	0.020	mg/L	1	B210835	09/08/2022	09/08/2022 15:51	
2090187-09	SPC-SW-5S	ND	0.020	mg/L	1	B210835	09/08/2022	09/08/2022 15:51	
2090187-10	SPC-SW-5D	ND	0.020	mg/L	1	B210835	09/08/2022	09/08/2022 15:51	
2090187-11	DUP	ND	0.020	mg/L	1	B210835	09/08/2022	09/08/2022 15:51	

Analyte: Total Nickel [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090187-01	SPC-SW-1S	ND	0.050	mg/L	1	B211220	09/12/2022	09/13/2022 14:00	
2090187-02	SPC-SW-1D	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 14:13	
2090187-03	SPC-SW-2S	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 14:45	
2090187-04	SPC-SW-2D	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 14:50	
2090187-05	SPC-SW-3S	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 14:54	
2090187-06	SPC-SW-3D	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 14:58	
2090187-07	SPC-SW-4S	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 15:03	
2090187-08	SPC-SW-4D	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 15:07	
2090187-09	SPC-SW-5S	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 15:12	
2090187-10	SPC-SW-5D	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 15:16	
2090187-11	DUP	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 15:20	

Complete Environmental Testing, Inc.

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Page 3 of 14

CET # : 2090187

Project: Superior Plating, Southport

Project Number: 43459

Analyte: Total Chromium [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090187-01	SPC-SW-1S	ND	0.050	mg/L	1	B211220	09/12/2022	09/13/2022 14:00	
2090187-02	SPC-SW-1D	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 14:13	
2090187-03	SPC-SW-2S	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 14:45	
2090187-04	SPC-SW-2D	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 14:50	
2090187-05	SPC-SW-3S	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 14:54	
2090187-06	SPC-SW-3D	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 14:58	
2090187-07	SPC-SW-4S	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 15:03	
2090187-08	SPC-SW-4D	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 15:07	
2090187-09	SPC-SW-5S	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 15:12	
2090187-10	SPC-SW-5D	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 15:16	
2090187-11	DUP	ND	0.050	mg/L	1	B211229	09/12/2022	09/13/2022 15:20	

CET # : 2090187

Project: Superior Plating, Southport

Project Number: 43459

QUALITY CONTROL SECTION

Batch B210835 - SM 3500-Cr B

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B210835-BLK1)									Prepared: 9/8/22 Analyzed: 9/8/22
Hexavalent Chromium	ND	0.020							
LCS (B210835-BS1)									Prepared: 9/8/22 Analyzed: 9/8/22
Hexavalent Chromium	0.21	0.020	0.200		105	80 - 120			
Duplicate (B210835-DUP2)		Source: 2090187-02							Prepared: 9/8/22 Analyzed: 9/8/22
Hexavalent Chromium	ND	0.020		ND				20	
Matrix Spike (B210835-MS2)		Source: 2090187-02							Prepared: 9/8/22 Analyzed: 9/8/22
Hexavalent Chromium	0.23	0.020	0.200	ND	114	70 - 130			
Matrix Spike Dup (B210835-MSD2)		Source: 2090187-02							Prepared: 9/8/22 Analyzed: 9/8/22
Hexavalent Chromium	0.23	0.020	0.200	ND	113	70 - 130	0.885	20	

CET # : 2090187

Project: Superior Plating, Southport

Project Number: 43459

Batch B2I0906 - SM 3500-Cr B

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2I0906-BLK1)					Prepared: 9/9/22 Analyzed: 9/9/22				
Hexavalent Chromium	ND	0.020							
LCS (B2I0906-BS1)					Prepared: 9/9/22 Analyzed: 9/9/22				
Hexavalent Chromium	0.21	0.020	0.200		105	80 - 120			
Duplicate (B2I0906-DUP1)					Prepared: 9/9/22 Analyzed: 9/9/22				
Hexavalent Chromium	ND	0.020		ND				20	
Matrix Spike (B2I0906-MS1)					Prepared: 9/9/22 Analyzed: 9/9/22				
Hexavalent Chromium	0.18	0.020	0.200	ND	88.5	70 - 130			
Matrix Spike Dup (B2I0906-MSD1)					Prepared: 9/9/22 Analyzed: 9/9/22				
Hexavalent Chromium	0.21	0.020	0.200	ND	106	70 - 130	18.0	20	

CET # : 2090187

Project: Superior Plating, Southport

Project Number: 43459

Batch B2I1220 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2I1220-BLK1)					Prepared: 9/12/22 Analyzed: 9/12/22				
Chromium	ND	0.050							
Nickel	ND	0.050							
LCS (B2I1220-BS1)					Prepared: 9/12/22 Analyzed: 9/12/22				
Chromium	0.200	0.050	0.200		100	85 - 115			
Nickel	0.199	0.050	0.200		99.3	85 - 115			

CET # : 2090187

Project: Superior Plating, Southport

Project Number: 43459

Batch B2I1229 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2I1229-BLK1)					Prepared: 9/12/22 Analyzed: 9/13/22				
Chromium	ND	0.050							
Nickel	ND	0.050							
LCS (B2I1229-BS1)					Prepared: 9/12/22 Analyzed: 9/13/22				
Chromium	0.198	0.050	0.200		99.1	85 - 115			
Nickel	0.198	0.050	0.200		99.0	85 - 115			
Duplicate (B2I1229-DUP1)					Source: 2090187-02 Prepared: 9/12/22 Analyzed: 9/13/22				
Chromium	ND	0.050		ND				20	
Nickel	ND	0.050		ND				20	
Matrix Spike (B2I1229-MS1)					Source: 2090187-02 Prepared: 9/12/22 Analyzed: 9/13/22				
Chromium	0.199	0.050	0.200	ND	99.6	75 - 125			
Nickel	0.213	0.050	0.200	ND	107	75 - 125			
Matrix Spike Dup (B2I1229-MSD1)					Source: 2090187-02 Prepared: 9/12/22 Analyzed: 9/13/22				
Chromium	0.203	0.050	0.200	ND	101	75 - 125	1.74	20	
Nickel	0.211	0.050	0.200	ND	106	75 - 125	0.990	20	

CET #: 2090187

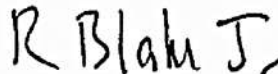
Project: Superior Plating, Southport

Project Number: 43459

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Robert Blake



David Ditta
Laboratory Director

Project Manager

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Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- *I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CET # : 2090187

Project: Superior Plating, Southport

Project Number: 43459



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Stratford, CT 06615

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Fax: (203) 377-9952
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Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration Batch	An analytical standard analyzed with each set of samples to verify initial calibration of the system. Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116
Massachusetts Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

Complete Environmental Testing, Inc.

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REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc.

Client: GZA GeoEnvironmental, Inc.

Project Location: Superior Plating, Southport

Project Number: 43459

Laboratory Sample ID(s):

Sample Date(s):

2090187-01 thru 2090187-11

09/08/2022

List RCP Methods Used:

CET #: 2090187


SM 3500-Cr B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b	b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director

Printed Name: David Ditta **Date:** 09/14/2022

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- The client requested a subset of the RCP metals list.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2I1220	S2I1303	2090187-01	SPC-SW-1S	EPA 200.7	Water	09/08/2022
B2I1229	S2I1303	2090187-02	SPC-SW-1D	EPA 200.7	Water	09/08/2022
B2I1229	S2I1303	2090187-03	SPC-SW-2S	EPA 200.7	Water	09/08/2022
B2I1229	S2I1303	2090187-04	SPC-SW-2D	EPA 200.7	Water	09/08/2022
B2I1229	S2I1303	2090187-05	SPC-SW-3S	EPA 200.7	Water	09/08/2022
B2I1229	S2I1303	2090187-06	SPC-SW-3D	EPA 200.7	Water	09/08/2022
B2I1229	S2I1303	2090187-07	SPC-SW-4S	EPA 200.7	Water	09/08/2022
B2I1229	S2I1303	2090187-08	SPC-SW-4D	EPA 200.7	Water	09/08/2022
B2I1229	S2I1303	2090187-09	SPC-SW-5S	EPA 200.7	Water	09/08/2022
B2I1229	S2I1303	2090187-10	SPC-SW-5D	EPA 200.7	Water	09/08/2022
B2I1229	S2I1303	2090187-11	DUP	EPA 200.7	Water	09/08/2022
B2I0835		2090187-01	SPC-SW-1S	SM 3500-Cr B	Water	09/08/2022
B2I0835		2090187-02	SPC-SW-1D	SM 3500-Cr B	Water	09/08/2022
B2I0835		2090187-04	SPC-SW-2D	SM 3500-Cr B	Water	09/08/2022
B2I0835		2090187-08	SPC-SW-4D	SM 3500-Cr B	Water	09/08/2022
B2I0835		2090187-09	SPC-SW-5S	SM 3500-Cr B	Water	09/08/2022
B2I0835		2090187-10	SPC-SW-5D	SM 3500-Cr B	Water	09/08/2022
B2I0835		2090187-11	DUP	SM 3500-Cr B	Water	09/08/2022
B2I0906		2090187-03	SPC-SW-2S	SM 3500-Cr B	Water	09/08/2022
B2I0906		2090187-05	SPC-SW-3S	SM 3500-Cr B	Water	09/08/2022
B2I0906		2090187-06	SPC-SW-3D	SM 3500-Cr B	Water	09/08/2022
B2I0906		2090187-07	SPC-SW-4S	SM 3500-Cr B	Water	09/08/2022

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Client: Ms. Marlee NajamyWinnick
GZA GeoEnvironmental, Inc.
35 Nutmeg Drive, Suite 325
Trumbull, CT 06611

Analytical Report

CET# 2090198R

Report Date: September 20, 2022
Project: Superior Plating, Southport
PO Number: 43459

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

CET #: 2090198

Project: Superior Plating, Southport

SAMPLE SUMMARY

The sample(s) were received at 6.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
SPC-SED-1	2090198-01	Soil	9/08/2022 10:05	09/08/2022
SPC-SED-2	2090198-02	Soil	9/08/2022 10:35	09/08/2022
SPC-SED-3	2090198-03	Soil	9/08/2022 11:00	09/08/2022
SPC-SED-4	2090198-04	Soil	9/08/2022 11:45	09/08/2022
SPC-SED-5	2090198-05	Soil	9/08/2022 12:20	09/08/2022
DUP	2090198-06	Soil	9/08/2022 10:05	09/08/2022

CET # : 2090198

Project: Superior Plating, Southport

Analyte: Percent Solids [SM 2540 G]

Analyst: RAN

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090198-01	SPC-SED-1	72	1.0	%	1	B211225	09/12/2022	09/12/2022 15:10	
2090198-02	SPC-SED-2	54	1.0	%	1	B211225	09/12/2022	09/12/2022 15:10	
2090198-03	SPC-SED-3	77	1.0	%	1	B211225	09/12/2022	09/12/2022 15:10	
2090198-04	SPC-SED-4	46	1.0	%	1	B211225	09/12/2022	09/12/2022 15:10	
2090198-05	SPC-SED-5	53	1.0	%	1	B211230	09/12/2022	09/12/2022 15:40	
2090198-06	DUP	70	1.0	%	1	B211225	09/12/2022	09/12/2022 15:10	

Analyte: Hexavalent Chromium [EPA 7196A]

Analyst: CGR

Prep: EPA 3060A

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090198-01	SPC-SED-1	ND	7.0	mg/kg dry	1	B211418	09/14/2022	09/16/2022 11:40	
2090198-02	SPC-SED-2	ND	93	mg/kg dry	10	B211418	09/14/2022	09/16/2022 11:40	
2090198-03	SPC-SED-3	ND	6.5	mg/kg dry	1	B211418	09/14/2022	09/16/2022 11:40	
2090198-04	SPC-SED-4	ND	11	mg/kg dry	1	B211418	09/14/2022	09/16/2022 11:40	
2090198-05	SPC-SED-5	ND	94	mg/kg dry	10	B211418	09/14/2022	09/16/2022 11:40	
2090198-06	DUP	ND	71	mg/kg dry	10	B211418	09/14/2022	09/16/2022 11:40	

CET # : 2090198

Project: Superior Plating, Southport

Analyte: pH [EPA 9045D]

Analyst: EAS

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090198-01	SPC-SED-1	7.13 @25.9°C	NA	pH Units	1	B2I0936	09/09/2022	09/09/2022 14:36	
2090198-02	SPC-SED-2	7.22 @25.8°C	NA	pH Units	1	B2I0936	09/09/2022	09/09/2022 14:39	
2090198-03	SPC-SED-3	7.07 @25.9°C	NA	pH Units	1	B2I0936	09/09/2022	09/09/2022 14:41	
2090198-04	SPC-SED-4	7.51 @25.7°C	NA	pH Units	1	B2I0936	09/09/2022	09/09/2022 14:43	
2090198-05	SPC-SED-5	7.37 @25.8°C	NA	pH Units	1	B2I0936	09/09/2022	09/09/2022 14:45	
2090198-06	DUP	7.22 @25.9°C	NA	pH Units	1	B2I0936	09/09/2022	09/09/2022 14:49	

Analyte: Redox Potential [SM 2580B-09]

Analyst: CGR

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090198-01	SPC-SED-1	-130	NA	mV	1	B2I1509	09/15/2022	09/15/2022 10:20	
2090198-02	SPC-SED-2	18.2	NA	mV	1	B2I1509	09/15/2022	09/15/2022 10:20	
2090198-03	SPC-SED-3	29.8	NA	mV	1	B2I1509	09/15/2022	09/15/2022 10:20	
2090198-04	SPC-SED-4	49.8	NA	mV	1	B2I1509	09/15/2022	09/15/2022 10:20	
2090198-05	SPC-SED-5	7.20	NA	mV	1	B2I1509	09/15/2022	09/15/2022 10:20	
2090198-06	DUP	34.8	NA	mV	1	B2I1509	09/15/2022	09/15/2022 10:20	

CET # : 2090198

Project: Superior Plating, Southport

Analyte: Total Nickel [EPA 6010C]

Analyst: SS

Prep: EPA 3051A

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090198-01	SPC-SED-1	10	2.8	mg/kg dry	1	B211201	09/12/2022	09/12/2022 14:01	
2090198-02	SPC-SED-2	17	3.7	mg/kg dry	1	B211201	09/12/2022	09/12/2022 14:06	
2090198-03	SPC-SED-3	25	2.5	mg/kg dry	1	B211201	09/12/2022	09/12/2022 14:18	
2090198-04	SPC-SED-4	12	3.7	mg/kg dry	1	B211201	09/12/2022	09/12/2022 14:35	
2090198-05	SPC-SED-5	12	3.7	mg/kg dry	1	B211317	09/13/2022	09/14/2022 13:16	
2090198-06	DUP	8.4	2.6	mg/kg dry	1	B211317	09/13/2022	09/14/2022 13:32	

Analyte: Total Chromium [EPA 6010C]

Analyst: SS

Prep: EPA 3051A

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090198-01	SPC-SED-1	42	2.8	mg/kg dry	1	B211201	09/12/2022	09/12/2022 14:01	
2090198-02	SPC-SED-2	75	3.7	mg/kg dry	1	B211201	09/12/2022	09/12/2022 14:06	
2090198-03	SPC-SED-3	570	2.5	mg/kg dry	1	B211201	09/12/2022	09/12/2022 14:18	
2090198-04	SPC-SED-4	49	3.7	mg/kg dry	1	B211201	09/12/2022	09/12/2022 14:35	
2090198-05	SPC-SED-5	18	3.7	mg/kg dry	1	B211317	09/13/2022	09/14/2022 13:16	
2090198-06	DUP	30	2.6	mg/kg dry	1	B211317	09/13/2022	09/14/2022 13:32	

CET # : 2090198

Project: Superior Plating, Southport

QUALITY CONTROL SECTION

Batch B2I0936 - EPA 9045D

Analyte	Result (pH Units)	RL (pH Units)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2I0936-BLK1)									Prepared: 9/9/2022 Analyzed: 9/9/2022
pH	5.85								
Duplicate (B2I0936-DUP1)									Prepared: 9/9/2022 Analyzed: 9/9/2022
pH	7.31			7.37			0.817	5	

CET # : 2090198

Project: Superior Plating, Southport

Batch B2I1201 - EPA 6010C

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2I1201-BLK1)					Prepared: 9/12/2022 Analyzed: 9/12/2022				
Chromium	ND	2.0							
Nickel	ND	2.0							
LCS (B2I1201-BSI)					Prepared: 9/12/2022 Analyzed: 9/12/2022				
Chromium	24.4	1.9	24.038		102	80 - 120			
Nickel	22.7	1.9	24.038		94.4	80 - 120			

CET # : 2090198

Project: Superior Plating, Southport

Batch B2I1230 - SM 2540 G

Analyte	Result (%)	RL (%)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Duplicate (B2I1230-DUP1)				Source: 2090198-05					Prepared: 9/12/2022 Analyzed: 9/12/2022
Percent Solids	55	1.0		53			3.57	5	

CET #: 2090198

Project: Superior Plating, Southport

Batch B2I1317 - EPA 6010C

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2I1317-BLK1)					Prepared: 9/13/2022 Analyzed: 9/14/2022				
Chromium	ND	2.0							
Nickel	ND	2.0							
LCS (B2I1317-BS1)					Prepared: 9/13/2022 Analyzed: 9/14/2022				
Chromium	22.4	2.0	25.000		89.6	80 - 120			
Nickel	22.4	2.0	25.000		89.5	80 - 120			
Duplicate (B2I1317-DUP1)					Prepared: 9/13/2022 Analyzed: 9/14/2022				
		Source: 2090198-05							
Chromium	17.9	3.7		18.1			0.998	35	
Nickel	12.0	3.7		12.2			1.84	35	
Matrix Spike (B2I1317-MS1)					Prepared: 9/13/2022 Analyzed: 9/14/2022				
		Source: 2090198-05							
Chromium	56.5	3.7	46.875	18.1	81.9	75 - 125			
Nickel	52.8	3.7	46.875	12.2	86.4	75 - 125			
Matrix Spike Dup (B2I1317-MSD1)					Prepared: 9/13/2022 Analyzed: 9/14/2022				
		Source: 2090198-05							
Chromium	60.9	3.7	46.875	18.1	91.2	75 - 125	7.41	35	
Nickel	54.6	3.7	46.875	12.2	90.4	75 - 125	3.46	35	

CET # : 2090198

Project: Superior Plating, Southport

Batch B2I1418 - EPA 7196A

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2I1418-BLK1)					Prepared: 9/14/2022 Analyzed: 9/16/2022				
Hexavalent Chromium	ND	5.0							
LCS (B2I1418-BS1)					Prepared: 9/14/2022 Analyzed: 9/16/2022				
Hexavalent Chromium	17	5.0	20.000		86.0	80 - 120			
Duplicate (B2I1418-DUP1)					Prepared: 9/14/2022 Analyzed: 9/16/2022				
Hexavalent Chromium	ND	94		ND				20	
Matrix Spike (B2I1418-MS1)					Prepared: 9/14/2022 Analyzed: 9/16/2022				
Hexavalent Chromium	ND	94	37.500	ND		80 - 120			L

CET # : 2090198

Project: Superior Plating, Southport

Batch B2I1509 - SM 2580B-09

Analyte	Result (mV)	RL (mV)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Duplicate (B2I1509-DUP1)		Source: 2090198-05		Prepared: 9/15/2022 Analyzed: 9/15/2022					
Redox Potential	7.90			7.20			9.27	200	

CASE NARRATIVE

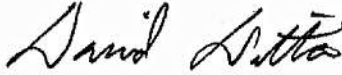
Reporting limits were raised for hexachrome on samples -02, -05, and -06 due to the nature of the sample. The sample extracts were opaque and the test is colorimetric.

Revision: Original report dated 9/16/2022; Narration added to report.

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta
Laboratory Director

Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- *I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit
Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.



80 Lupes Drive
Stratford, CT 06615

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email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration Batch	An analytical standard analyzed with each set of samples to verify initial calibration of the system. Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate Result	Result from the duplicate analysis of a sample. Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spiked.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116
Massachusetts Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

Complete Environmental Testing, Inc.

80 Lupes Drive, Stratford, CT 06615 • Tel: 203-377-9984 • Fax: 203-377-9952 • www.cetlabs.com




REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc. **Client:** GZA GeoEnvironmental, Inc.
Project Location: Superior Plating, Southport **Project Number:**
Laboratory Sample ID(s): **Sample Date(s):**
 2090198-01 thru 2090198-06 09/08/2022
List RCP Methods Used: **CET #:** 2090198
 EPA 6010C, EPA 7196A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b	b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
 This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director
Printed Name: David Ditta **Date:** 09/16/2022
Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- Client requested a subset of the RCP metals list.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2I1201	S2I1204	2090198-01	SPC-SED-1	EPA 6010C	Soil	09/08/2022
B2I1201	S2I1204	2090198-02	SPC-SED-2	EPA 6010C	Soil	09/08/2022
B2I1201	S2I1204	2090198-03	SPC-SED-3	EPA 6010C	Soil	09/08/2022
B2I1201	S2I1204	2090198-04	SPC-SED-4	EPA 6010C	Soil	09/08/2022
B2I1317	S2I1404	2090198-05	SPC-SED-5	EPA 6010C	Soil	09/08/2022
B2I1317	S2I1404	2090198-06	DUP	EPA 6010C	Soil	09/08/2022
B2I1418		2090198-01	SPC-SED-1	EPA 7196A	Soil	09/08/2022
B2I1418		2090198-02	SPC-SED-2	EPA 7196A	Soil	09/08/2022
B2I1418		2090198-03	SPC-SED-3	EPA 7196A	Soil	09/08/2022
B2I1418		2090198-04	SPC-SED-4	EPA 7196A	Soil	09/08/2022
B2I1418		2090198-05	SPC-SED-5	EPA 7196A	Soil	09/08/2022
B2I1418		2090198-06	DUP	EPA 7196A	Soil	09/08/2022
B2I0936		2090198-01	SPC-SED-1	EPA 9045D	Soil	09/08/2022
B2I0936		2090198-02	SPC-SED-2	EPA 9045D	Soil	09/08/2022
B2I0936		2090198-03	SPC-SED-3	EPA 9045D	Soil	09/08/2022
B2I0936		2090198-04	SPC-SED-4	EPA 9045D	Soil	09/08/2022
B2I0936		2090198-05	SPC-SED-5	EPA 9045D	Soil	09/08/2022
B2I0936		2090198-06	DUP	EPA 9045D	Soil	09/08/2022
B2I1509		2090198-01	SPC-SED-1	SM 2580B-09	Soil	09/08/2022
B2I1509		2090198-02	SPC-SED-2	SM 2580B-09	Soil	09/08/2022
B2I1509		2090198-03	SPC-SED-3	SM 2580B-09	Soil	09/08/2022
B2I1509		2090198-04	SPC-SED-4	SM 2580B-09	Soil	09/08/2022
B2I1509		2090198-05	SPC-SED-5	SM 2580B-09	Soil	09/08/2022
B2I1509		2090198-06	DUP	SM 2580B-09	Soil	09/08/2022



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

Page 16 of 16

80 Lupes Drive Stratford, CT 06615 Bottle Request e-mail: bottleorders@cetlabs.com		Tel: (203) 377-9984 Fax: (203) 377-9952 e-mail: cet1@cetlabs.com		Matrix A=Air S=Soil W=Water DW=Drinking Water C=Cassette Solid Wipe Other (Specify)		Turnaround Time ** (check one)														Metals		Additional Analysis			TOTAL # OF CONT.	NOTE #								
Sample ID/Sample Depths (include Units for any sample depths provided)		Collection Date/Time		Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAS	PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Hex. Chrom	Total Chrom	Nickel						
SPC-SED-1		9-8-22/1005		sed				X																	X	X	X				1			
SPC-SED-2		9-8-22/1035		sed				X																	X	X	X				1			
SPC-SED-3		9-8-22/1100		sed				X																	X	X	X				1			
SPC-SED-4		9-8-22/1145		sed				X																	X	X	X				1			
SPC-SED-5		9-8-22/1220		sed				X																	X	X	X				3	1		
DUP		9-8-22/1005		sed				X																	X	X	X				1			
PRESERVATIVE (CI-HCl, N-HNO ₃ , S-H ₂ SO ₄ , Na-NaOH, C=Cool, O-Other)																																	8	
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)																																		
Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)																																		
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:																														
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:																														
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:																														
Client / Reporting Information																																		
Company Name		GZA																																
Address		35 Nutmeg Dr. Suite 325																																
City		Trumbull	CT	06611																														
Report To:		Marlee Najamy Winnick		@gza.com																														
Phone #																																		
Project Information		Project: Superior Plating		PO #:																														
Location:		Southport, CT		Project #:	43459																													
CET Quote #				Collector(s):	SHS + MSNW																													
QA/QC		<input type="checkbox"/> Std	<input checked="" type="checkbox"/> Site Specific (MS/MSD) *	<input checked="" type="checkbox"/> RCP Pkg *	<input type="checkbox"/> DQAW *																													
Data Report		<input checked="" type="checkbox"/> PDF	<input type="checkbox"/> EDD - Specify Format	Other																														
RSR Reporting Limits (check one)		<input checked="" type="checkbox"/> GA	<input type="checkbox"/> GB	<input checked="" type="checkbox"/> SWP	<input type="checkbox"/> Other																													
Laboratory Certification Needed (check one)		<input checked="" type="checkbox"/> CT	<input type="checkbox"/> NY	<input type="checkbox"/> RI	<input type="checkbox"/> MA																													
Temp Upon Receipt		60	°C	Evidence of Cooling:	N																													

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

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Stratford, CT 06615



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Client: Ms. Marlee NajamyWinnick
GZA GeoEnvironmental, Inc.
35 Nutmeg Drive, Suite 325
Trumbull, CT 06611

Analytical Report

CET# 2090543

Report Date: September 26, 2022
Project: Superior Plating, Southport
PO Number: 43459

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

CET # : 2090543

Project: Superior Plating, Southport

SAMPLE SUMMARY

The sample(s) were received at 5.1°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
CW-12	2090543-01	Water	9/20/2022 10:23	09/20/2022
CW-12 Filtered	2090543-02	Water	9/20/2022 10:23	09/20/2022
MW-5	2090543-03	Water	9/20/2022 11:15	09/20/2022
MW-12	2090543-04	Water	9/20/2022 9:45	09/20/2022
MW-19-19	2090543-05	Water	9/20/2022 12:20	09/20/2022
MW-20-19	2090543-06	Water	9/20/2022 12:50	09/20/2022
MW-21-19	2090543-07	Water	9/20/2022 13:20	09/20/2022
OB-7	2090543-08	Water	9/20/2022 11:05	09/20/2022

CET # : 2090543

Project: Superior Plating, Southport

Analyte: Hexavalent Chromium [SM 3500-Cr B]

Analyst: CGR

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090543-01	CW-12	0.060	0.020	mg/L	1	B2I2049	09/20/2022	09/20/2022 16:38	
2090543-02	CW-12 Filtered	ND	0.020	mg/L	1	B2I2049	09/20/2022	09/20/2022 16:38	
2090543-03	MW-5	36	1.0	mg/L	50	B2I2049	09/20/2022	09/20/2022 16:38	
2090543-04	MW-12	0.041	0.020	mg/L	1	B2I2049	09/20/2022	09/20/2022 16:38	
2090543-05	MW-19-19	210	5.0	mg/L	250	B2I2049	09/20/2022	09/20/2022 16:38	
2090543-06	MW-20-19	810	20	mg/L	1000	B2I2049	09/20/2022	09/20/2022 16:38	
2090543-07	MW-21-19	700	20	mg/L	1000	B2I2049	09/20/2022	09/20/2022 16:38	
2090543-08	OB-7	ND	0.020	mg/L	1	B2I2049	09/20/2022	09/20/2022 16:38	

Analyte: Total Nickel [EPA 200.7]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090543-01	CW-12	ND	0.050	mg/L	1	B2I2245	09/22/2022	09/23/2022 13:18	
2090543-02	CW-12 Filtered	ND	0.050	mg/L	1	B2I2245	09/22/2022	09/23/2022 13:22	
2090543-03	MW-5	0.60	0.050	mg/L	1	B2I2245	09/22/2022	09/23/2022 13:35	
2090543-04	MW-12	0.17	0.050	mg/L	1	B2I2245	09/22/2022	09/23/2022 13:39	
2090543-05	MW-19-19	7.9	0.25	mg/L	5	B2I2245	09/22/2022	09/23/2022 14:43	
2090543-06	MW-20-19	2.4	1.0	mg/L	20	B2I2310	09/23/2022	09/23/2022 14:47	
2090543-07	MW-21-19	4.8	1.0	mg/L	20	B2I2310	09/23/2022	09/23/2022 14:52	
2090543-08	OB-7	ND	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 17:15	

CET # : 2090543

Project: Superior Plating, Southport

Analyte: Total Chromium [EPA 200.7]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090543-01	CW-12	0.058	0.050	mg/L	1	B212245	09/22/2022	09/23/2022 13:18	
2090543-02	CW-12 Filtered	ND	0.050	mg/L	1	B212245	09/22/2022	09/23/2022 13:22	
2090543-03	MW-5	37	0.050	mg/L	1	B212245	09/22/2022	09/23/2022 13:35	
2090543-04	MW-12	ND	0.050	mg/L	1	B212245	09/22/2022	09/23/2022 13:39	
2090543-05	MW-19-19	190	0.25	mg/L	5	B212245	09/22/2022	09/23/2022 14:43	
2090543-06	MW-20-19	820	1.0	mg/L	20	B212310	09/23/2022	09/23/2022 14:47	
2090543-07	MW-21-19	600	1.0	mg/L	20	B212310	09/23/2022	09/23/2022 14:52	
2090543-08	OB-7	0.11	0.050	mg/L	1	B212310	09/23/2022	09/23/2022 17:15	

CET #: 2090543

Project: Superior Plating, Southport

QUALITY CONTROL SECTION

Batch B2I2049 - SM 3500-Cr B

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2I2049-BLK1)									Prepared: 9/20/22 Analyzed: 9/20/22
Hexavalent Chromium	ND	0.020							
LCS (B2I2049-BS1)									Prepared: 9/20/22 Analyzed: 9/20/22
Hexavalent Chromium	0.21	0.020	0.200		107	80 - 120			

CET # : 2090543

Project: Superior Plating, Southport

Batch B2I2245 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2I2245-BLK1)					Prepared: 9/22/22 Analyzed: 9/22/22				
Chromium	ND	0.050							
Nickel	ND	0.050							
LCS (B2I2245-BS1)					Prepared: 9/22/22 Analyzed: 9/22/22				
Chromium	0.204	0.050	0.200		102	85 - 115			
Nickel	0.202	0.050	0.200		101	85 - 115			
Matrix Spike (B2I2245-MS2)					Prepared: 9/22/22 Analyzed: 9/23/22				
		Source: 2090543-04							
Chromium	0.238	0.050	0.200	ND	119	75 - 125			
Nickel	0.371	0.050	0.200	0.167	102	75 - 125			

CET # : 2090543

Project: Superior Plating, Southport

Batch B2I2310 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2I2310-BLK1)					Prepared: 9/23/22 Analyzed: 9/23/22				
Chromium	ND	0.050							
Nickel	ND	0.050							
LCS (B2I2310-BS1)					Prepared: 9/23/22 Analyzed: 9/23/22				
Chromium	0.197	0.050	0.200		98.4	85 - 115			
Nickel	0.194	0.050	0.200		96.8	85 - 115			

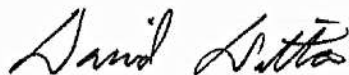
CET # : 2090543

Project: Superior Plating, Southport

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta
Laboratory Director

Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- *I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration Batch	An analytical standard analyzed with each set of samples to verify initial calibration of the system. Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116
Massachusetts Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199




REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc. **Client:** GZA GeoEnvironmental, Inc.
Project Location: Superior Plating, Southport **Project Number:**
Laboratory Sample ID(s): 2090543-01 thru 2090543-08 **Sample Date(s):** 09/20/2022
List RCP Methods Used: SM 3500-Cr B **CET #:** 2090543

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b	b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director
Printed Name: David Ditta **Date:** 09/26/2022
Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- The client requested a subset of the RCP metals list.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2I2245	S2I2214	2090543-01	CW-12	EPA 200.7	Water	09/20/2022
B2I2245	S2I2214	2090543-02	CW-12 Filtered	EPA 200.7	Water	09/20/2022
B2I2245	S2I2214	2090543-03	MW-5	EPA 200.7	Water	09/20/2022
B2I2245	S2I2214	2090543-04	MW-12	EPA 200.7	Water	09/20/2022
B2I2245	S2I2214	2090543-05	MW-19-19	EPA 200.7	Water	09/20/2022
B2I2310	S2I2305	2090543-06	MW-20-19	EPA 200.7	Water	09/20/2022
B2I2310	S2I2305	2090543-07	MW-21-19	EPA 200.7	Water	09/20/2022
B2I2310	S2I2305	2090543-08	OB-7	EPA 200.7	Water	09/20/2022
B2I2049		2090543-01	CW-12	SM 3500-Cr B	Water	09/20/2022
B2I2049		2090543-02	CW-12 Filtered	SM 3500-Cr B	Water	09/20/2022
B2I2049		2090543-03	MW-5	SM 3500-Cr B	Water	09/20/2022
B2I2049		2090543-04	MW-12	SM 3500-Cr B	Water	09/20/2022
B2I2049		2090543-05	MW-19-19	SM 3500-Cr B	Water	09/20/2022
B2I2049		2090543-06	MW-20-19	SM 3500-Cr B	Water	09/20/2022
B2I2049		2090543-07	MW-21-19	SM 3500-Cr B	Water	09/20/2022
B2I2049		2090543-08	OB-7	SM 3500-Cr B	Water	09/20/2022



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer
 Client:
 CET:

80 Lupes Drive Stratford, CT 06615		Tel: (203) 377-9984 Fax: (203) 377-9952 e-mail: cetservices@cetlabs.com e-mail: bottleorders@cetlabs.com		Matrix A=Air S=Soil W=Water DW=Drinking Water C=Cassette Solid Wipe Other (Specify)	Turnaround Time ** (check one)															Metals			Additional Analysis			TOTAL # OF COMT.	NOTE #				
Sample ID/Sample Depths (include Units for any sample depths provided)		Collection Date/Time			Same Day *	Next Day *	Two Day *	Three Day *	Std (6-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered			Lab to Filter	Total Chrom.	Hex. Chrom.	Nickel
CW-12		9-20-22/1023		GW					X																		X	X	X	2	
CW-12 Filtered		9-20-22/1023		GW					X																		X	X	X	2	
MW-5		9-20-22/1115		GW					X																		X	X	X	2	
MW-12		9-20-22/0945		GW					X																		X	X	X	2	
MW-19-19		9-20-22/1220		GW					X																		X	X	X	2	
MW-20-19		9-20-22/1250		GW					X																		X	X	X	2	
MW-21-19		9-20-22/1320		GW					X																		X	X	X	2	
OB-7		9-20-22/1105		GW					X																		X	X	X	2	

PRESERVATIVE (CI-HCl, N-HNO₃, S-H₂SO₄, Na-NaOH, C=Cool, O-Other) N C N
 CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other) P P P
 Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY: *[Signature]* DATE/TIME: 9-20-22 14:35 RECEIVED BY: *[Signature]*
 RELINQUISHED BY: *[Signature]* DATE/TIME: 9/20/22 15:20 RECEIVED BY: *[Signature]* 09/20/22 15:20
 RELINQUISHED BY: DATE/TIME: RECEIVED BY:

NOTES:

Client / Reporting Information
 Company Name: GZA
 Address: 35 Nutmeg Dr. Suite 325
 City: Trumbull State: CT Zip: 06611
 Report To: MacLee, Najamy Winsick @ gza.com E-mail:
 Phone #: Fax #:

Project Information
 Project: Superior Plating PO #: _____
 Location: Southport, CT Project #: 43459
 CET Quote # _____ Collector(s): SHS
 QA/QC Std Site Specific (MS/MSD) * RCP Pkg * DQAW *
 Data Report PDF EDD - Specify Format _____ Other _____
 RSR Reporting Limits (check one) GA GB SWP Other _____
 Laboratory Certification Needed (check one) CT NY RI MA PA
 Temp Upon Receipt 57 °C Evidence of Cooling: N PAGE 1 OF _____

80 Lupes Drive
Stratford, CT 06615



Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Marlee NajamyWinnick
GZA GeoEnvironmental, Inc.
35 Nutmeg Drive, Suite 325
Trumbull, CT 06611

Analytical Report

CET# 2090565

Report Date: September 26, 2022
Project: Superior Plating, Southport
Project Number: 43459

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

CET # : 2090565

Project: Superior Plating, Southport

Project Number: 43459

SAMPLE SUMMARY

The sample(s) were received at 5.2°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
MW-1	2090565-01	Water	9/21/2022 8:57	09/21/2022
MW-10	2090565-02	Water	9/21/2022 10:40	09/21/2022
MW-11	2090565-03	Water	9/21/2022 10:10	09/21/2022
MW-14-07	2090565-04	Water	9/21/2022 10:55	09/21/2022
MW-17-13	2090565-05	Water	9/21/2022 9:50	09/21/2022
OB-9	2090565-06	Water	9/21/2022 8:10	09/21/2022
Dup	2090565-07	Water	9/21/2022 10:55	09/21/2022

CET #: 2090565

Project: Superior Plating, Southport

Project Number: 43459

Analyte: Hexavalent Chromium [SM 3500-Cr B]

Analyst: CGR

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090565-01	MW-1	13	1.0	mg/L	50	B2I2151	09/21/2022	09/21/2022 17:12	
2090565-02	MW-10	ND	0.020	mg/L	1	B2I2151	09/21/2022	09/21/2022 17:12	
2090565-03	MW-11	39	5.0	mg/L	250	B2I2151	09/21/2022	09/21/2022 17:12	
2090565-04	MW-14-07	15	1.0	mg/L	50	B2I2151	09/21/2022	09/21/2022 17:12	
2090565-05	MW-17-13	7.2	1.0	mg/L	50	B2I2151	09/21/2022	09/21/2022 17:12	
2090565-06	OB-9	ND	0.020	mg/L	1	B2I2151	09/21/2022	09/21/2022 17:12	
2090565-07	Dup	15	1.0	mg/L	50	B2I2151	09/21/2022	09/21/2022 17:12	

Analyte: Total Nickel [EPA 200.7]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090565-01	MW-1	0.061	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 15:17	
2090565-02	MW-10	0.058	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 15:22	
2090565-03	MW-11	0.15	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 15:38	
2090565-04	MW-14-07	0.073	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 15:43	
2090565-05	MW-17-13	ND	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 15:47	
2090565-06	OB-9	0.27	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 15:51	
2090565-07	Dup	0.076	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 15:55	

CET # : 2090565

Project: Superior Plating, Southport

Project Number: 43459

Analyte: Total Chromium [EPA 200.7]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090565-01	MW-1	13	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 15:17	
2090565-02	MW-10	ND	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 15:22	
2090565-03	MW-11	32	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 15:38	
2090565-04	MW-14-07	15	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 15:43	
2090565-05	MW-17-13	7.3	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 15:47	
2090565-06	OB-9	0.76	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 15:51	
2090565-07	Dup	15	0.050	mg/L	1	B2I2310	09/23/2022	09/23/2022 15:55	

CET # : 2090565

Project: Superior Plating, Southport

Project Number: 43459

QUALITY CONTROL SECTION

Batch B2I2151 - SM 3500-Cr B

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2I2151-BLK1)									Prepared: 9/21/22 Analyzed: 9/21/22
Hexavalent Chromium	ND	0.020							
LCS (B2I2151-BS1)									Prepared: 9/21/22 Analyzed: 9/21/22
Hexavalent Chromium	0.23	0.020	0.200		114	80 - 120			
Duplicate (B2I2151-DUP1)		Source: 2090565-02							Prepared: 9/21/22 Analyzed: 9/21/22
Hexavalent Chromium	ND	0.020		ND				20	
Matrix Spike (B2I2151-MS1)		Source: 2090565-02							Prepared: 9/21/22 Analyzed: 9/21/22
Hexavalent Chromium	0.20	0.020	0.200	ND	99.5	70 - 130			
Matrix Spike Dup (B2I2151-MSD1)		Source: 2090565-02							Prepared: 9/21/22 Analyzed: 9/21/22
Hexavalent Chromium	0.21	0.020	0.200	ND	107	70 - 130	6.80	20	

CET # : 2090565

Project: Superior Plating, Southport

Project Number: 43459

Batch B2I2310 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2I2310-DLK1)					Prepared: 9/23/22 Analyzed: 9/23/22				
Chromium	ND	0.050							
Nickel	ND	0.050							
LCS (B2I2310-BS1)					Prepared: 9/23/22 Analyzed: 9/23/22				
Chromium	0.197	0.050	0.200		98.4	85 - 115			
Nickel	0.194	0.050	0.200		96.8	85 - 115			
Duplicate (B2I2310-DUP1)					Source: 2090565-02 Prepared: 9/23/22 Analyzed: 9/23/22				
Chromium	ND	0.050		ND					20
Nickel	0.0567	0.050		0.0584			2.95		20
Matrix Spike (B2I2310-MS1)					Source: 2090565-02 Prepared: 9/23/22 Analyzed: 9/23/22				
Chromium	0.208	0.050	0.200	ND	104	75 - 125			
Nickel	0.254	0.050	0.200	0.0584	97.9	75 - 125			
Matrix Spike Dup (B2I2310-MSD1)					Source: 2090565-02 Prepared: 9/23/22 Analyzed: 9/23/22				
Chromium	0.208	0.050	0.200	ND	104	75 - 125	0.192		20
Nickel	0.258	0.050	0.200	0.0584	99.6	75 - 125	1.37		20

CET #: 2090565

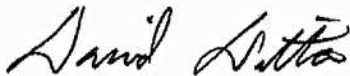
Project: Superior Plating, Southport

Project Number: 43459

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta
Laboratory Director

Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- *I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CET # : 2090565

Project: Superior Plating, Southport

Project Number: 43459



80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration Batch	An analytical standard analyzed with each set of samples to verify initial calibration of the system. Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116
Massachusetts Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

Complete Environmental Testing, Inc.

80 Lupes Drive, Stratford, CT 06615 • Tel: 203-377-9984 • Fax: 203-377-9952 • www.cetlabs.com



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc.

Client: GZA GeoEnvironmental, Inc.

Project Location: Superior Plating, Southport

Project Number: 43459

Laboratory Sample ID(s):

Sample Date(s):

2090565-01 thru 2090565-07

09/21/2022

List RCP Methods Used:

CET #: 2090565


SM 3500-Cr B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b	b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director

Printed Name: David Ditta **Date:** 09/26/2022

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- The client requested a subset of the RCP metals list.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2I2310	S2I2305	2090565-01	MW-1	EPA 200.7	Water	09/21/2022
B2I2310	S2I2305	2090565-02	MW-10	EPA 200.7	Water	09/21/2022
B2I2310	S2I2305	2090565-03	MW-11	EPA 200.7	Water	09/21/2022
B2I2310	S2I2305	2090565-04	MW-14-07	EPA 200.7	Water	09/21/2022
B2I2310	S2I2305	2090565-05	MW-17-13	EPA 200.7	Water	09/21/2022
B2I2310	S2I2305	2090565-06	OB-9	EPA 200.7	Water	09/21/2022
B2I2310	S2I2305	2090565-07	Dup	EPA 200.7	Water	09/21/2022
B2I2151		2090565-01	MW-1	SM 3500-Cr B	Water	09/21/2022
B2I2151		2090565-02	MW-10	SM 3500-Cr B	Water	09/21/2022
B2I2151		2090565-03	MW-11	SM 3500-Cr B	Water	09/21/2022
B2I2151		2090565-04	MW-14-07	SM 3500-Cr B	Water	09/21/2022
B2I2151		2090565-05	MW-17-13	SM 3500-Cr B	Water	09/21/2022
B2I2151		2090565-06	OB-9	SM 3500-Cr B	Water	09/21/2022
B2I2151		2090565-07	Dup	SM 3500-Cr B	Water	09/21/2022



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

80 Lupes Drive Stratford, CT 06615		Tel: (203) 377-9984 Fax: (203) 377-9952 e-mail: cetservices@cetlabs.com e-mail: bottleorders@cetlabs.com		Matrix: A=Air S=Soil W=Water DW=Drinking Water C=Cassette Solid Wipe Other (Specify)		Turnaround Time ** (check one)												Metals		Additional Analysis					TOTAL # OF CONT.	NOTE #																													
Sample ID/Sample Depths (include Units for any sample depths provided)		Collection Date/Time		Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAS	PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Tested Chlorides	Hex Chrom.	Nickel																											
MW-1		9-21-22/0857						X																	X	X	X							2																					
MW-10		9-21-22/1040						X																	X	X	X							6	1																				
MW-11		9-21-22/1010						X																	X	X	X							2																					
MW-14-07		9-21-22/1055						X																	X	X	X							2																					
MW-17-13		9-21-22/0950						X																	X	X	X							2																					
OB-9		9-21-22/0810						X																	X	X	X							2																					
DUP		9-21-22/1055						X																	X	X								2																					
PRESERVATIVE (Cl-HCl, N-HNO ₃ , S-H ₂ SO ₄ , Na-NaOH, C=Cool, O=Other)																										N	C	N							18																				
CONTAINER TYPE (P=Plastic, G=Glass, V=Vial, O=Other)																										P	P	P																											
Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)																																																							
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:																																																			
<i>Walter Winnick</i>		9-21-22/1354		<i>R. B. D. J.</i>																																																			
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:																																																			
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:																																																			
Client / Reporting Information										Project Information																																													
Company Name		GZA		Project:		Superior Plating		PO #:				Location:		Southport, CT		Project #:		43459		CET Quote #:				Collector(s):		SHS, LEB		QA/QC		<input type="checkbox"/> Std <input checked="" type="checkbox"/> Site Specific (MS/MSD) * <input checked="" type="checkbox"/> RCP Pkg * <input type="checkbox"/> DQAW *		Data Report		<input checked="" type="checkbox"/> PDF <input type="checkbox"/> EDD - Specify Format <input type="checkbox"/> Other		RSR Reporting Limits (check one)		<input checked="" type="checkbox"/> GA <input type="checkbox"/> GB <input checked="" type="checkbox"/> SWP <input type="checkbox"/> Other		Laboratory Certification Needed (check one)		<input checked="" type="checkbox"/> CT <input type="checkbox"/> NY <input type="checkbox"/> RI <input type="checkbox"/> MA <input type="checkbox"/> PA		Temp Upon Receipt		5.2 °C		Evidence of Cooling:		Y N		PAGE		1 OF 1	
Address		35 Nutmeg Dr., Suite 325		City		Trumbull		State		CT		Zip		06611		Report To:		Marcel. Najamy Winnick @ gza.com		E-mail				Phone #				Fax #																											

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.



APPENDIX E
DATA QUALITY ASSESSMENT AND DATA USABILITY EVALUATION

APPENDIX E
DATA QUALITY ASSESSMENT AND DATA USABILITY EVALUATION
 Superior Plating Company
 2 Lacey Place, Southport Connecticut

Lab/Lab Report ID:	CET #2030467	CET #2030507	CET #2050136	CET #2050137	CET #2090187	CET #2090198R	CET #2090543	CET #2090565
Report Dates:	3/23/2022	3/25/2022	5/12/2022	5/13/2022	9/14/2022	9/20/2022	9/26/2022	9/26/2022
Data Package Inspection	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package
Chain of Custody Evaluation	20 groundwater samples analyzed for hexavalent chromium, total chromium, and nickel. 12 groundwater samples analyzed for sulfate and iron. 1 groundwater sample analyzed for dissolved hexavalent chromium, dissolved chromium, dissolved sulfate, dissolved iron, and dissolved	6 groundwater samples analyzed for hexavalent chromium and total chromium. 3 groundwater samples analyzed for sulfate, nickel, and iron.	10 surface water samples analyzed for hexavalent chromium, total chromium, and nickel.	5 sediment samples analyzed for hexavalent chromium, total chromium, and nickel.	10 surface water samples analyzed for hexavalent chromium, total chromium, and nickel.	5 sediment samples analyzed for hexavalent chromium, total chromium, and nickel.	7 groundwater samples analyzed for hexavalent chromium, total chromium, and nickel. 1 groundwater sample analyzed for dissolved hexavalent chromium, dissolved chromium, and dissolved nickel.	6 groundwater samples analyzed for hexavalent chromium, total chromium, and nickel.
Preservation and Holding Time	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.
Site-specific MS/MSD	None	No issues reported	No issues reported	The surrogate recovery is below the control limits, indicating a potential low bias.	No issues reported	The surrogate recovery is below the control limits, indicating a potential low bias.	No issues reported	No issues reported
Duplicate Samples	Results within acceptable limits	None	The relative percent different between the sample and the sample duplicate is high, indicating a potential high bias.	Results within acceptable limits	Results within acceptable limits	Results within acceptable limits	None	Results within acceptable limits
Surrogates	None	None	None	None	None	None	None	None
LCS/LCSD	LCS surrogate recovery for dissolved hexavalent chromium is below the control limit	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
Method Blanks	No detects	No detects	No detects	No detects	No detects	No detects	No detects	No detects
Lab Contaminants	None	None	None	None	None	None	None	None
Trip Blank	None	None	None	None	None	None	None	None
Calibration/Etc.	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
RL Evaluation: Criteria/RL	RL are below criteria	RL are below criteria	RL are below criteria	RL are below criteria	RL are below criteria	RL are below criteria	RL are below criteria	RL are below criteria
Other QC Data	No other QC Data Issues	No other QC Data Issues	No other QC Data Issues	No other QC Data Issues	No other QC Data Issues	No other QC Data Issues	No other QC Data Issues	No other QC Data Issues
Conclusion:	Data are usable as reported	Data are usable as reported	Data are usable as reported	Data are usable as reported	Data are usable as reported	Data are usable as reported	Data are usable as reported	Data are usable as reported



GZA GeoEnvironmental, Inc.

CERTIFICATE OF SERVICE

This is to certify that a true copy of the foregoing was electronically mailed and/or deposited in the United States mail, first-class, postage pre-paid this 2nd day of November, 2023 to the individuals on the Service List for this Docket, dated October 26, 2023.



Lee D. Hoffman, Esq.