# CONNECTICUT SITING COUNCIL

THE UNITED ILLUMINATING COMPANY	:	CONNECTICUT SITING COUNCIL
APPLICATION FOR A CERTIFICATE OF		
ENVIRONMENTAL COMPATIBILITY AND	:	DOCKET NO. 516
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 <u>Exhibit A</u>.

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 longterm 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 property 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 conduced 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 <a href="https://cfpub.epa.gov/ncea/iris2/chemicalLanding.cfm?substance\_nmbr=144">https://cfpub.epa.gov/ncea/iris2/chemicalLanding.cfm?substance\_nmbr=144</a>.

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



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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 fi Department of Energy and Envronmental Protection. ergy and Environmental P

#### CONSENT ORDER

- A. With the agreement of Superior Plating Company, ("Respondent"), the Commissioner of Energy and Environmental Protection ("the Commissioner") finds:
  - 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:
  - 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 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. <u>Progress reports</u>: 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. <u>Full compliance</u>. 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. <u>Sampling</u>. 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. <u>Sample analyses</u>. 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. <u>Approvals</u>. 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. <u>Definitions</u>. 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 carlier. 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. <u>Certification of documents</u>. 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."

- <u>Noncompliance</u>. 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. <u>False statements</u>. 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. <u>Commissioner's powers</u>. 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. <u>Respondent's obligations under law.</u> Nothing in this consent order shall relieve Respondent of other obligations under applicable federal, state and local law.
- 16. <u>No assurance by Commissioner</u>. 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. <u>Access to site</u>. 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. <u>No effect on rights of other persons.</u> 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.
- 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

oh 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

Michalfilla

Michael Sulliver Robert L. Klee 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 REMEDIATION 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 <u>Transmittal of Documents</u>
- If no Rem ID assigned (new filing) or REM ID is unknown leave field blank

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

ID: (if applicable)
lumber: (if known)

# 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 appl	icable for this docum	ent):	
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 kn Each program has a unique ID (i.e. Rem ID, Spill Case #			

#### 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





# 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

# GZA GeoEnvironmental, Inc. 35 Nutmeg Drive, Suite 325 | Trumbull, CT 06611 203-380-8188

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GEOTECHNICAL ENVIRONMENTAL ECOLOGICAL WATER CONSTRUCTION MANAGEMENT

35 Nutmeg Drive Suite 325 Trumbull, CT 06611 T: 203.380.8188 F: 203.375.1529 www.gza.com March 9, 2023 GZA File No. 05.0043459.00

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.

Shannon Spezzano

Assistant Project Manager

David Rusczyk, P/E

Associate Principal

Marlee NajamyWinnick Project Manager

Muller Robert Lamonica, LEP

Consultant



Hangyan Luo, Superior Plating Company Attorney Christopher P. McCormack, Pullman & Comley, LLP





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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



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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



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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 centraleastern 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  $\mu$ g/l for hexavalent chromium and 50  $\mu$ g/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)<sup>1</sup> 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 2019 sample but was still elevated well above the 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

<sup>&</sup>lt;sup>1</sup> 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,



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depth-to-water measurements from the containment wells were collected approximately monthly until May, then in August, September, and November 2022<sup>2</sup>. 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.

<sup>&</sup>lt;sup>2</sup> GZA notes that only the March and September events are included on Table 2.



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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<sup>®</sup> 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, postinjection 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".

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Superior Plating Company



TABLES

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11	(60)	12.12	124		0.1			16 6.	10 7	-	043	53	35.22			1.1				629		5.14	22	12.74	540		100					1-70	1- 60		15.77
	24	12.60	2014	NG		140	- AL	2010	3 *		2145	1005	14.09		-	26	787	Comme	zar	1410	78X	1769	19.00	91	8.0	ALC: NO.	100	14.51	-			15.50	10.00	181	*0
									-				-	-		114		-	-	620	-	45	315	1915	202		102					14 17	-	1748	
111	20	NG	20	No.		-	2	08	5N	N.C.	No	30	80		-	4.00	DRY	Cetamet	DRY	1610	DBY.	1780	19.00	30	1000	CALIFORT OF	1900	5.00				828	NG		N/S
	-16-62	18.81	14 16	38	10.00	24		19.61	88	-						155	202		1243	115		192	•12	12.00	101	-			1					38.75	
	39.90	202	3915	12.451		1000	No.	11.16	55.90		-					221	1/00	Cautoget	10.41	Ital	NG	16.40	lars.	1	20.44	TRUTH						NG	20	2.2	
	-14+3	-1557	-14.82	-20.04		200	100	-1.22	-20.95			-				1795	9-42	-	21.49	8.8		744	14	11.4	t	-		ľ	1					17.84	
Number of Street	* 余	19.42	19.11	33		22.22	S R	13.8	261			-	-	-		270	17.86	SAMPLE .	11 45	12.40	NG	16.75	10.34	101	10.00	Party in	-					NG.	200	22.4	111
11	**	15.50	in al	300		E 10-	810	11.60	8.0.		-				-	1	416		10.00	4.01		745	3.28		t									11	10.47
	35.60	02.4C	2.20	10.01		100	20.22	16 00 M	1690						-	020	1810	and the	12.04	11:20	NG	10.78	19.10	140	21.05		-	+	-	-		NO.	No.	170	141
11	18.42	15%6	14.65	16.41		1	817	114	10.00						+	1	10.07			6.2			-	1924	t	1	t	ł						1100	1.00
ill:	19.92	19.22	1012	112		1000	20.92	\$535	\$592							x77	1122	Summer .	10.67	1602	NG	15.57	1962	8	49	Durinet	-					NG	246		1
	16.42	11.62	-118	49.5		111	1	21 81	26.927	-					Ī					466		tta		22										1008	20.10
1	116	12520	2015	100		100	205	33.96	10.05			-				804	2642	uaspet.	10.00	2744	NG	16.37	1161	723	2118	Destroyet.		-				NG	20	181	
	16.74	15.40	14 10		1 1		*	31.50	20.85		+				1	19.13	16.23			144			404	1	1	4								10.10	
			ŀ		ł	20.22		5594	1	1				-		741	_		10.40	In an	NG.	16 82	1114	124	21.78	Andrates.						20	NG.	122	
11.	1	1880		10.44		14	1111	1140	1084					-		1	0.00		F	202	H		3.6		177	-	-							1	
	ŀ	-	-		100	13-49	金字	1111	55 12							100	16.90	mirces!	10+6	16.22	NG	16.05	11.50	120	21.00	Annal .		-	+			NG	×c.	132	
11			1965	-	1.00	1140	33.55	3247	0046							8.8			30	121	1	161	8*	28	*1									0.0	225
	.01	7.11	12.12		21.12	1946	2655	53.86	59.4C	-					,	- 52.2	1.12	paleona	10-01	111	004	14.41	611	732	2102	Centres						340	NG	244	
1	1	8		111		12	120	2.02	4011						1000	10,10	t		1244	124		140	1.00	20.22	4.01									10.00	
	1911	14.11	New 1	1111	14.11	1415	Isip	0.11	22.04							1 146	14.40	[manual	1010	10.04	1	16.61	18.05	122	1965	Contract	-					1	1	160	
					•									4			-					4	4	4		-		-	-	1					
1	Text restriction total		ALCONT NO.	100 1 × 1 × 1 × 1 × 1	あられ いたくしまいましい	The restriction to b	The I wai spinster hole.	The canadian and the	in a second second second	Casi residentes last	Sectoration at the	Carl carriester tot	Contraction have	Twel calimities lot	Teel exceptions into		3	244	,	-	244	8	1987	k	240	244	342	2VZ	2vc	1		204	240	2nc	
In the second	27.44	t	t	41 VIII			23.23 24+		225. 28	t	t	t	t	ľ	T	NN	NA	Tellined	1	NA	12.8	TR.	N.	×		Cripping.	22	2.45	1160	112		1.7	20.00	14.47	
Press of the second sec	1912	10 M		10	10/2	21.62	22.60	11.41	24,20	22	24.62	2412	22.40	34.25	7.5	14.45	26.44			21.46	N.	20.00	22.09	生力	-		-	XV	N	W			-	-	
H.	177	-		22	02	210	3.6	2.4	10.10	9 10	1.0	95	20	N.	×		2.2	341	╞	100		20	2.2	3.5	-	82		88	88	2	2	2 37		22	ce.
41	and an other states of the second states of the sec	the second second	ALL AND ALL ALL	LAVE DESCRIPTION	LINE ALLOCATES	Costs Associates	Levis Automat	Levis associates	And Automation	And ALL-LINE	The Assessment of the Party of	All Associate	And Annual Party of the Party o	G.A.200	024,2020	Lotter Associates	Party Associate	Lands Constants	and the second s	Town Association	Contraction of the local division of the loc	Lands Assessing.	Level Amount	Leve Aurolan	Cares Amorean	Creat Addresses	CER Associates	CTRA SECURITY	CTRAMIC NT	FEB. MICHEN	THE ABOUT	COLORIDA DI LI	Contraction of the local division of the loc	The success	TARGOOM TAR
1	Condition of the	t	t	1	Open Holes 24 - 601			t	t	t	t	f	and the second s	1	t	t	t	t		t	Т	100	t	Г	Г		125-27.5 Lan			Ì	Ť	Ť	Ī		
and the second	ł	ł	+	-		Cres .	2 341	0. (unit	100	-	ł			ŀ			ľ	+	ł	ł	╞	10 (term	-		-		119	153		10	E.				-
HI	1	ł	+	+	60 12	80 12			ad 13	+	ł	1				+	ŀ	1	ŀ	+	ŀ	+				20 0		223 25		-		24 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1			+
1		+	+	+	CW-4	CWS D	CWA	-	ŀ	+	ł	+		ł		ŀ	f	╀	ł	ł	ł	ł	+	ŀ	ļ.	1087-04		_		1	61-02-MM	4	t	t	1

Sau Dullage BOARD ON I WAR INCIDENT A Summer of Summ

J. and MWI (24-0). And instanting in Address Text Description and model contribution by GLAs performent and performent by Lowest Association (address) 2020. 22

Not Not Mission No. - Not Application

March 10

	Table 7
0.242	

Sept in: Plating Lang Plan, Section: Consider Ware Lovel Date ProPactigation Sector 2003 2 of 3

w.d. Austice	Walling	- 12		raan Dagat Yana	Salveyad by	Hanna Tapat Casing Divators Unit	Topol Casing Elingthe Shett by Lans Associate	Top of PVC Elevante first by Long Association	Well Marter ad	formal Wall Durning (Becker)	West Talds Elevater (Test	Dogia in Wass Brett Marin 2827	Wate Talde Elevates fret	Depat as Water Stati September 11, 1910	Ware Table Elmaine finti	Dope in Water Simili Jacoby D., 2010	Wate Table Elevates Seit	Depth to Water Of test Marris 18, 7810	Water Table Elevative (fest)	Depts to Water (Fout) September 10, 2010	Water Talah Elevative Chat	Bayla in Water (Fred) Marris 21, 2825	Water Table Eleventian (first	Depait in Water (Fred Separation 10, 70 B		Depts & Water Foot Fringty 5,783	Water Table Slovethe Cost	Depts is Water direct. Nation 25, 2019	Water Table. Elimptics Elim	Dept a West Dept at West May 24 and 22, 2010	Water Table Elevation (frid)	Depth in Water Land Suptomizer 75, 825
244.5	- 1	10		n Hak (183-eth		22.47	2.90	22.40	Savel causing open hole	Contraction of the local division of the loc	111	11.15	11.12	+0.00	-2.5	1920	+17	42.18	-4172	42.05	-1941	A THE PARTY	and the second second	42.11	-14.91	41.94	-19.34	41.95	-49.25	42.02	3847	+200
CW-3 CW-2				en Halette anti	Linux Association	53.64	23.00	22.09	tiers cause open bole		16.64	30.10	1.50	NM		19.41	415	14.74	-14.72	78 21	.18.87	-	-		-40.91		19.24	44.74		78.13	36.90	40.70
CW-2	+1			erc Hale (35 - wil)	Levis Assesses	24.24	21.75	12.14	Sent causagropen hole		-19.94	19.40	447	20.29	164	24.94	-265	42.30	-1642	42.41	1414	-				+207	10.00	4141	4465	4200	1864	4204
CW-4		10		erc Hole (34 - 60)	Laws resources		2.4	52.02	Seei neusgingen hole		30.00	96.00	-11.41	\$1.50	.76.67	11.94	1.92	8.47	-32.45	45.11	-20.96	-		1876	617	\$4.72	AL ULA	911	-11.10	54.07	.1170	5500
CW.s		17			Levis Asserties	34.53	22.47	22.86	Smell zausgrapers hole		11.97	55.50	11 47	35.90	.11 11	19.00	# 21	Tee		80.41	.26.00	-		-		15.55	.22.60	54.80	.3194	54.07	.1202	00.6%
CW.6	40	12		Heart 1 to 401	Leve assesses	24.45	21.60	2111	timel ratiogroups have	4	842	16.40	2.04	26.68	.742	29.15	.1.09	9 71	.30.24	15.26	.73.95	12				\$5.29	.71.96	\$5.12	.31.99	5570	.1206	1120
CW-7	40	9.4			Leve Associates	24.70	21.41	21.40	Time: caused upon hole			10.90	1.40	30.70	-1.41	26.70	-2.31	36.15	-32.26	55.60	-31.35	-				55.25	-31.65	53.26	-31 80	5543	3201	5540
CWA		12		ato Noie (20 - 40)	Lowg rearright	24.97	24.79	2176	Simel casing/open hole			28:00	.3.03	29.90	.492	34.40	.443	54.05	-39-04	14 13	-3916				-	\$295	-39.30	5298	.39.34	17.04	-39.63	1309
CW-0	58	10	0	pen Maier 25-511	Levis Asancers	74.90	24.34	2192	these naming topen holis			917	-27.30	449	.36 40	22.9	140	11.91	-2748	DRY				+		5162	-21.70	NH	354	554	NM	20.00
CW.50	66	10	0	iyan hole i 30.40n	Levis rearring	24.80	24.12	21.19	Sand coningrapes hait	6		28.3	.2.90	24.8	0.00	27.89	0.95	Dw.		36.52	-11.12					54.51	-30 19	NM	204	NM	NM	-910
CW611	43				Lewis Associates.	22,50	26,12	No	their coninground hole	6		NM		NDA		NM		19.0	7.79	15.89	601	15.78	712	16.57	591	15.67	365	1121	2.91	17.19	10.71	1790
CW-22	34	151		openhole	Lewis reportants	24.20	3.40	NA	Swel counground form		20.05	NM	-	NOM		NM		12.95	0.0	11.97	211	10.02	17.34	1233	13.24	10.41	12.99	10.17	12.64	1746	10.94	14.22
- CM-23	м			gen har (be-56)	GZA 2030	Nn	22	27.97	liert neurgingen hole															-			-			1914	494	4763
CW-04	- 54			na Najecił - 13 M	Gala 3020	2714	2.4	No	there course open hole.		17.86	7.16	19.24	4.79	IT IS	NM		4.90	20.24	10	10.01	6.02	20.25		12.28	117	39.00	7.58	10.61	747	10.00	
					Leuis Auto-une						47.8			DBY	11 15	NM			10.75	DRY	1941	0.09	- 40	Day Day	10.19	141		1101	10.01	153	9.00	3413
MW-2				ma Weim (10 5 - 18)	Lewis Associates	27.29	2.19	No		6		16.96	10.11			NDM		36.54	10.75			-	1				10 %		30.78	To 19	9.40	
MW-1			_	an kepinyin	Levis Appoches		Decaying	Destroyed		4		Destroyed		East morest				Desarged		Destanged				Destroyed		Destroyed		Destroyed				Destant
	inis			**Rok:10.5-141	Lavie resonant	22.94	22.14	NA	584	é.,		DRY	-	DRY		NM		9.12	12.12	DRY			+-	Dax		9.17	12.00	199	11.30	10.26	17.12	DRY
	791		2 02	en Bole (11 - 39 9)	Leves resources	1410	2.10	Na	teisi	6	6:0	1414	8.14	18.00	6.30	NM		36.90	1.40	17.67	6.63	16.74	152	17.36	0.54	12.6	6.10	68.61	7.10	.1763	10.4	DRY.
	28.9			.minaim.	Lova Associates	2611	No	71.96	7.45			10.29	137	DRY		304	1. A.	DW.		16.17	7.28	Ettr.	4-	-	-	NM		1.4	14	DRY	+ +	DRY.
MW-10		12		pen Hole (12 - 26)	Leves Associates	2445	건제	No	See	6	7.81	16.98	7.85	14.29	6.04.	NM		12.18	4.81	18.61	1.12	16 10	143	1712	7.11	16.91	0.96	14.7	7.39	.1692	697	11.65
MW-LL	- 29	11		na Rok (12 5 - 29)	Levis Augorisms	22.88	22.19	No	fasi		3.12	10.01	+07	1891	107	204		10.11	4.17	15.99	7.29	18.64	+22	11.0	794	10.7	7.04	10.14	3.81	19.00	331	1913
MW-17	. 10			pen Maiete 5 - 10)	Lawa Acaociema	27.54	2.0	No	1944 I		38.85	7.39	20.34	0.94	14.96	NM		4.12	20.82	8.95	1901	641	20.46	6.54	22.00	733	19.74	222	19.41	133	19 76	DRY
MW-14-0	lf 18	10	1.0	39-14	Leuis Australia	27.66	NA	27.09	215	2	1,10	19.06	400	19.22	194	XM	-	21,24	2.42	20.12	1.65	20.55	111	21.14	2.52	20.97	2.16	20.14	291	20.79	2.50	17.16
MW-154		0		17.10	Levis Augorians	24.90	Destroyed	Destroyed	240	2		Tractorynd		Descoyed		304		Destroyed		Desinyed		141		Deutriged		Decauged	14	Destroyed		Insuranyed.		Desmoyed
MIV-16-1				12 5-22 5	Lawa Association	24.45	No	2410	TVC	1	10 B4	NH		17.9	10.40	NM		12.44	11.96	17.17	11.27	12.45	1191	13.64	10.19	33.02	11.04	8.00	16.10	12.94	11.12	1411
	2 22.5		5	14.5023	LEVIL ALLONGERS	24.50	Na	27.14	240	1	436	1441	119	1532	9.1#	104		14.27	10.28	14.61	9.19	1425	10.25	191	9.40	3447	934	1454	9.47	14.55	9.25	15.60
MV.141				87457	Levis Janniews	20.00	Na	1840	PVC	1	2.94	945	20,75	12.96	704	504		1.12	1112	12.46	7.90	0.72	11.28	11.65	1.15	6.25	11.15	12.52	6.06	12.94	542	12.90
MU.14.	1 10	10		10.30	Levis Associates	Nes	No	2761	PvC					-									-	-		1111	10.56	14.24	14.50	1271	14,96	1292
MW-21-1	1 12	- 11		82-262	Lewis Association		- <u>No</u>	27.45	1 100	- (· · · ·					-				-	-		-	-			1266	14.75	1216	16.70	11.22	14.13	1615
	901			technoon)	Level Associats	2428	Na	24.27	Pré		14.10	0.11	24.19	1.44	27.41	104		040	54.59	104	1	0.00	24.99	1.41	. 52.16	1.01	77.34	1.10		44	21.77	6.02
	1011			usidat-ura	Laws Associates	24.05	-	24.20	240			10.01	14.05	281		104		10.04	1412	1.44	-	100	1 44	1.57	27.76	141						1.802
	961			ARCHINES .	Lines Associates	74.64	No.	24.0	INC	-	17.46	244	14.30	0.55	11.00	104		0.94	20.10	10	11.01	4.74	36.18	110	10.00		18.17		10 11	7.48	11.94	DR1
	77.9			en Hole (1+5-31)	Laws readings	2013	34.14	NA	- Avec		16.15	1.05	16.15	2.0	10.10	100		162	19.00		14.2/	105	1164	1.10	19.10	14	21.00		24	64	71.74	NM

Typy (middle \_ 1900 + 1999 - Min Types / Stagen and Separational Tablet And Dyn Diff (1986 - Med David Hyperiae) Germanak

Near 1 Configuration with 10th Internation VII & International by Sinth Statistical Contention of the Internation 2 Section 2 Section

Table	lapene Ruley ang Play, loomper, Conserve	Wate Lond Data Parket Spreet Sacing Micros
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1]	11	H1	incredupt Cat	Appleant						11		11	and the second s	1			And A war		and a second	The second
170	;	01	Open Kides 1865 - 461	lavia resonant	13.41	22.96	2240	These contractions have		1940	40.01	19-aT	4208	-19-et	+2.20	19.40	202	19-61	10.00	19-41-
CWG.	+		OpenHole (14. 4D)	Laws Associates	2144	80	2.81	Their cause of the local		17.69	477	-17.9	20.92	411	(8 K)	\$11.	2111	425	22	47
CW-1		10	OpenSciences and	leves incomer-	カス	21.22	- 23.74	Their sampling they		-19.12	18.64	+23	1911	1361	28.00	-14.65	19.42	184	244	1.04
CWie	50	-	Open Worker Levelon	Lawle successive	240	27.62	27.04	Their cause spectrule.		21.92	2.0	大村	1546	52.40	4712	され、	13 12	-15.94		11.11
111	19	12	Crem Nore115.54-601	ants reasonably	24.02	22.40	22.44	Their country open hele		-12.1+	5.9	18.00	31.00	4.14	2139	10.17	20.00	-11 04	27.65	8.4
CW16		10	(hes Rob 15. 60)	Larest restriction	2446	23.65	21.12	The increase of the		11.97	2.2	31.	1000	42.02	40.75 F	200	14.10	12.40	**	20.00
1.11	60		Open Kinke 10. 601	Tana resources	56.90	23.45	0412	Their residence have		00,01-	M.F.	業打		100	10.00	出向	#2.0¥	2.2	87	9 X.
2002	3	27	Open 55-661 20-601	Lawly supervises	24.97	時間	227	Thesi musiging of help		3.87	a cr	2.8-	\$2.02	11.05	51,90	19.87	812	主持	10 04	
- 6'M	-	10	Own Row (No. 76)	And Alle and		2.2	1412	The course of a log			20.00	877	51.60	-2744	\$1.65	6.47	21.12	217	27	-23.44
W-10	60	10	(per. tole 1 70-50)	Landa Approprieto		20.02	21.25	Their restance with	*	24.70	40.04	14.16	32	- 229	31.51	84	21.40	461	Nat.	10.2-
W11	4	01	201109	Lance Resonance	22.56	24.17	NV.	Their neural gam hole		2.06	13.50	542	15.22	123	1508.	9.04	13.40	122.	16 all	764
W:12	20	155	own the	Lange Associates	222	11 40	KA.	Thesi council and hole		937	12.06	12/4	11.63	11.17	1305	10.25	16.11	12.63	13 60	11.6
1	2	14	parts bear ( a. 50)	88.425	×	2*2	23.92	tient cauging open hole.			81	88	42.80	18:17	46.60	になっ	41.62	177	43.66	12/21
10.14	7	12.8	(ある()) 泉泉 ()() ()	564 Kin	N.	<b>RR</b>	NA.	Their participation hole	4	32+F	22	18.50	12.29	411	25.90	-11 e2	202	224	21.00	9.72
MML1	13.5		Card Ride (9 - 12.5)	Laws reserves	23.14	100	NA.	Twel	*	16.29	136	11.90	8.07	16.33	629	16.12	722	19.09	946	10.78
1.35	1818	10	Cpen Raie 105-211	layer manuary	27.29	25	¥	18	,	2.2	2.5	1010	10.00	0.40	16.91	975	14.90	22	DAY	
1.101 M	17.24		union n	Lance Manualty.	24.22	Designation	Conterret	740			Contractor		Canada and		Characters		Les trapet		Contrast	
Mar.a	14.11	1 11	Cpen Ride (10.5 - 14)	Invis resourcess	22.94	10.00	NA	law!	4	1	-11-6	1264	DRY		DRY	1000	912	10.8	DRN	1
MIKE	• 81	10.4	Cren Role (11. 19 %)	laves recorden.	24.20	*11	NN	i.	4		12.20	648	17.26	144	1768	682	17.12	4.51	11.97	131
14.4	10.4	10	Unionen.	Jarvis Assessments	2411	£	23.94	244		1000	Dev	10000	787	1.4.1	DRY	1000	DBY		DRY	
MIN-10	2	21.	Open Robel 11 - 261	Larger scale with	2443	10.00	NA.	100	4	4 00	16.66	152	1e.95	6.00	10.10	403	E M	114	17.22	4.87
11.994	2	11	Com Kei 125. 301	Later Association	22.68	12.16	Xv	1941		381	18.27	1+2	19.27	2 92	20.91	12+	2462	354	10.01	100
- 11	61	53	Cyan Bate (6.5 - 22)	Terris Association	1234	2.42	NA.	14		1	150	19.14	1.40	10-00	121	19.62	7.18	11.61	940	17.46
MW-14-07	10	10	20-17	Lawle Associates	23.66	N.	22.09	740	4	5.11	2.01	242	20.02	28	22.51	0.58	22	2.60	11.05	204
MW-15-00	20		46.31	Lever reaveness	24.90	Ductored	Desired	740		States -	Testimet	1.00	Dittore	1.00	Contracted	10.00	Contractor	10.400	Determent	
Mucle-10	2.5	31.4	U. 5225	Lavis New Land	24.43	NA	2410	244		10.1	15.11	1118	2111	10 44	15.07	207	12.70	11.40	11.49	12.61
MULTINES.	1.00	151	14 5-22 5	Lawle Acapitant.	24.50	N.	29	245	4	121	14.01	124	1475	800	1431	3.90	14.46	9.25	15.00	172
MW-19-12	18.3		#7453	LEVIL MANAGER.	20.00	ž	1440	242	1	3.70	515	147	10.47	111	1112	141	440	10.02	11.10	6.60
MW-19-29	20	10	10.00	LEVIL MANUMUL	×	2	2767	244	~	14.75	12 14	16.52	1140	21 28	16.21	13 44	12.64	N. W.	17.12	14.55
10.01	7	111	24	Laws Associates	NV.	ž	21.9	240		1229	12.24	16.75	11.65	4.5	12.00	15.30	10.55	17.01	14.5	12.08
Number of	22	2.5	12,212	Taryla Mascalles.	X	ž	1412	242	-	101	1941	1501	1278	14.30	1369	11.45	11.15	11.14	10.33	910
00.1	906	10	quinters .	Layer Australia	24.10	NA	55	740		1025	246	2141	50	8.8	0.12	1612	0.40	2.47	1.74	22.49
1.2	1631	10.5	minore	large spectrum.	24.49	NA	24.70	240			DRV.		187	+	787		DET	+	DRY	
9.90	9.61	96	unitory.	Levels Reportents	28.95	NV.	28.47	240			324	1905	1 00	18.45	1.09	14.74	7.16	222	808	1113
1.000	-		China Desire Land and and	A DESCRIPTION OF A DESC		10.10	14.	100	-1-		-		2.00	10.15	-		1.	14 44	144	13.64

d monge OM data manina te dan Dating di Chukun. 1440 na MM 1340 menunakan yada. Tat Bangg angen menomenon yada data panakai.

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

In the second	ENCLOSED AND AND AND AND AND AND AND AND AND AN	Sample Name	COLUMN ST	CARLON CO	CANNE	and the second	SPC-SW-15	and Stations of	10000000	10000	In column 2 and 2	2010/07/07 10:410	Section 1	ATL 17 1	10000	120	SPC-S	W-ID	No. of Concession, Name	107127480	a survey of the	
		Depth (feet)	0-1	8-1	0-1	0-1	1-0	0.1	0-1	0-1	0.1	1-0	4.5-5.5	-5-6	34	1.5-2.5	1-2	1.5-2.5	5.6	34	5-6	55-6.5
Analytes	Water Quality Standards- Aquatic Life Criteria*	Unite	4/19/2013	9/14/2015	9/13/2017	914/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/8/2022	4/19/2013	9/14/2016	\$13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2023	9/15/2021	5/5/2022	9-51/2022
Hexavalent Chromaun	50	ugd	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND420	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20
Total Nickel	8.2	ug/1	NA	ND-50	ND-50	ND<50	ND450	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
Total Chromium	42**	ug/1	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	ugʻi	ND<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<40	NA	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	NA
Zine	61	9.01	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	NA

Vgragies/Join\_43,000-43,400-43.400-439 Supress PlangtArmail Report/Armail TabLES AND DOADUE/Envir 3 and 4-test mere are thetiser West Resain\_2003 no.

Natast \*Bracia os SA-Clarone Surface Water Classificantos for Mill Rover Realts a BOLD acceed externa ND - náctaste composad not advected abore laboratory reporting luniz No- náctasta composad not analyzed \*\* = Criseria for travalenz chromann

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

	Contract Sector 12 Oct. Million	Sample Nume	The market	and the	ar - 1 7/1-1	100 - 1 - 1	SPC-1	W-25	NT 2547	ALL STREET	ALC: N	The state of	the second	the state of the	1000	1000	SPC-	W-ID	and the second	California California	Ant	10.70.720
Kin Links	the state of the second state	Depth (feet)	0.1	0.1	9.1	0.1	4-1	0-1	41	61	0-1	8-1	5.6	2.5-3.5	3.4	4.5	34	2.53.5	3.4	2.3	23	3.5-4.5
Analyte	Water Quality Standards- Aquatic LEs Criteria*	Units	4/19/2013	9/14/2016	9/13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/24/21	9/15/2021	5/5/2922	946/2022	4/19/2013	9/14/2016	9.13/2017	9/14/2018	9/17/2819	9/9/2020	4/23/2621	9/15/2021	5/5/2022	9.8.2022
Henava ent Chromium	50	ug/l	ND-120	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	\$2	ug/1	NA	ND-30	ND-\$0	ND<50	ND<50	ND<\$0	ND<50	ND-\$0	ND<50	ND<50	NA	ND-50	ND-50	ND-50	ND<50	ND<50	ND-50	ND<50	ND<50	ND<50
Total Curomium.	42**	ug/l	ND-(50	ND~50	ND<50	ND<50	ND<50	ND-:50	ND-50	ND-\$0	ND<50	ND<50	ND-(50	ND-50	ND-50	ND<50	ND<50	ND-50	50	ND<50	ND<50	ND<50
Copper	3.)	ug/I	ND-40	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<40	NA	NA	NA	NA	NA	NA	NA	NA.	NA
,ead	\$1	ugʻl	ND-13	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<13	NA	NA	NA	NA	NA	NA	NA	NA	NA
inc	81	ug/l	ND-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: \*Boode on SA Chronie Surface Witter Clouds alon for M II River Results in SOLD memoderate in ND - national compound and testeried showe biocratory reporting limit NA - national compound and analogies \*\* e Craenia for travelene chromaum

hgespaniewi\_40,00040,49040490 Sprace Paragounant Repensionant DebLET AND DOADUDTEXE 2 and + Second and Section Wave Resain\_1022 as

Page 2 of 6

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

Internet Street Street		Sample Nume		-	1000	CONTRACT!	SPC-1	W-35	1000		-		10.20037.000	115-16-54	Constant and	al an and a	SPC-S	W-3D	Statistics.		State of the local division of	
		Depth (feet)	0-1	0.]	0-1	0-1	0-1	- 8-1	0-1	0-1	0-1	0.1	5.5-6,5	3-4	34	2.3	2-3	2-3	2-3	2.3	1.5-2.5	15-2.5
Analyte	Water Quality Standards- Aquatic Life Ctiteria*	Unite	4/19/2013	9/14/2016	9/13/2017	¥14/2018	9/17/2019	9/9/2020	4/23/21/21	9/15/2021	5/5/2022	9/8/2022	4/19/2013	9/14/2016	9/13/2017	9/14/2018	9/17/2019	1/2/2020	4/23/2021	9/15/2021	5/5/2022	9.6/2022
fexayalent Chroman	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
Fotal Narkel	8.2	ug/i	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	ND<50
fotal 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	ND<50
Topper	3.1	agil	ND<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
ead	8,1	ugʻl	ND<13	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<13	NA	NA	NA	NA	NA	NA	NA	NA	NA
And .	81	12.07	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: "Based on SA-Chronic Surface Water Classification, for Mill Rover Results in BOLD encode crate is ND-- indicates compound and activities disover laboratory reporting limit NA--indicated compound and anylogical \*\* = Crateria for travelets chroniann.

Separations, 4,000-7,499-01-89 Separat Parageous Report Annal DuBLES AND DOVDUE Date 1 and 4 Sectores are Select West Reads, 2022 ab

Page 3 of 6

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

OTHER DESIGNATION.		Sample Name	All Anna and a	a State of the			SPC-5	W-45	20 3.00	massar	STORE ST	TIP OT	1251 30-51			ALL COMPANY	SPC-S	W-4D				The state of the s
2012年月1月1日	CONTRACTOR STATES	Depth (feet)	0-1	0-1	6.1	#1	0-1	1.0	6-1	0.1	6-1	6-1	67	34	34	34	67	34	2.3	3.54.5	2.7	3.5-4.5
Analytes	Water Quality Standards- Aquatic Life Criteria*	Units	4/19/2013	9/14/2016	9/15/2017	9/34/2038	9/17/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9/8/2022	4/19/2913	9/14/2016	9-13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	98/2022
Hexawa-ent Chromaum	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
Total Nickel	82	upil	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<30	ND<50	ND-50	ND-50	ND<50	ND<50
otal C roman	42**	ugʻl	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
Соррет	31	ugʻl	ND<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	\$1	ug/1	ND<13	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<13	NA	NA	NA	NA	NA	NA	NA	NA	NA
150	81	ug/l	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: \*Breads to SA-Chrone Burlice Water Classification for Mill Rover Results to DOLD exceed errors a ND - inducets compound and deterted showe biomeory reporting limit NA- induceted compound on transform Area for transfer throngam

hgangan filmang 40,000 with 49 with the many financial Representational Deliver and Deliver and Articles an

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

Contraction of the Case	Contraction of the second second second	Sample Name	Sec. Com		-	Sale of the	SPC-	SW-55	Constanting of the	11070	A second		To again	10002.5	17 - 13 - F.J.	SP	C-SW-5S D	UP	260		and the second second
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Depth (feet)	9.1	9.1	0-1	0-1	0-1	0-1	0-1	0.1	9-1	0.1	0-1	0-1	0-1	01	0-1	0-1	0-1	0-1	8-1
Analytes	Water Quality Standards- Aquatic Life Criteria*	Unite	4/19/2013	9/14/2016	9/13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021	\$/5/2022	98/2022	9/14/2016	9/13/2017	9/14/2018	9/17/2019	9/9/2020	4/23/2021	9/15/2021	\$/5/2022	9/8/2022
Hexavalent Chromum	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	8.2	ug/1	NA	ND<50	ND<50	ND<50	ND<50	ND-50	ND<50	ND<50	ND-50	ND-S0	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
Total Chromium	42**	42/1	ND<\$0	ND<50	ND<50	ND<\$0	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
Leid	8,1	ugil	ND<13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Znc	81	1924	ND-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: \* Based on SA-Chrone: Surface Water Classification for Mill River Results in SOLD merced criteria ND-- indicates compound not detected above laboratory reporting linit NA--indicated compound not and Arborn \*\* = Criteria for travalent chromann.

Spragaariisaal, 41,000-47,499-41455 Supersee Floring-Armed Report-Armed TABLES AND DQADUES Sets Jacob - Sectors in and Statics Water Result, 2003 Au

### Table 3 Summary of Surface W ger Sampling Rowlts Superior Plating Company, Inc. Southport, Connecticut

	A CONTRACTOR OF A CONTRACTOR O	Sample Name	North	AMILE AND	2010-201	104	SPC	W-50	113	-	the second second		SPC-SW-65	SPC-SW-45 DUP	SPC-SW-4D
35 11 120 20	Con Street of Street of Street	Depth (feet)	7-8	6.7	67	4.5	23	34	5.5-6.5	5.5-6.5	34	2.3	6-1	0-1	8-9
Analytes	Water Quality Standards- Aquatic Life Criteria*	Unite	4/19/2013	9142016	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	4/19/2013	4/19/2013
Henavalera Chromana	50	ug/l	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND-520	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20
Total Natel	1.2	ugri	NA	ND<50	ND<50	ND<50	ND<50	ND~50	ND-50	ND-50	ND-50	ND<50	NA	NA	NA
Total Chremitatt	42**	ug/1	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	31	ward .	ND<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<40	ND<40	ND<40
Lead	8	ug/1	ND<13	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND-13	ND<13	ND<13
Zine	81	148/1	ND<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<20	ND<20	50

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hgragiantions, 42,000-42,499/42499 Superior Parageterization Reports count Bubbles AND D (ADDD Table 1 and 4 Second and Ballion Wave Reade, 2022-44

Note: \*Bracia in SA-Channe Surface Water Clansifinition for Mill River Reveks in BOLD exceed strate a ND - induces compound on advected above laboratory reporting linux NA- induces compound on advected \*\*\* Crate is for threaden chromaun

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

	Sample Name		autor in	and sectors	and the state of t	A	SPC-SE	D-1	- Juntie	1. 1. 1. 2	110-110-110-	With Hard Street	and the second	TUT TO CAR		The large states	PC-SED-1	DUP	730- Sec. 10	With Wind	Call Street
and the second	Depth (feet)	0.0.5	0.5-1.0	0.0.5	9-0.5	0.0.5	0.0.5	9-0.5	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	0.8.5	8-0.5	8-0.5
Analytes	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	913/2017	9/14/2018	9/18/2019	9/9/2020	4/23/2021	9/15/2021	5/5/2022	9.8/2022
Henavalent Chromium	mg/kg	ND<5.0	ND<5.0	ND<9.9	ND<[]	ND<10	ND-11	33	ND-8.2	ND-82	ND<8.1	ND-7.0	ND<5.0	ND<11	ND-8.5	ND<96	23	ND<9.0	ND-8.2	ND<7.9	ND<71
Total Chroman	mg/kg	120	130	20	61	\$f	88	76	150	38	62	42	140	51	55	74	62	120	)9	45	30
Nickei	mg/kg	NA	NA	14	15	14	15	19	14	14	18	10	NA	8.7	14	34	19	14	11	14	8.4
Copper	mg/kg	65	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA	NA	NA
Levd	mg/kg	210	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	360	NA	NA	NA	NA	NA	NA	NA	NA
Zne	mg/kg	150	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

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

Contraction of the local data and the	SampleName	of the Party of the		-	- Charles the	SPC-SED	12	Contraction of	And the second second	-11 (m. h. 7-1	CALCULATION OF	SCHER STORE STREET, STORE	1	SPC-SED-3	Constanting of the second		P. S. Baller	- Destroyer	A. 11-20-20	Contraction of the state	SPC	SED 4	10000000	1930	
and the second se	Depth (feet)	0.0.5	0.0.5	0.0.5	0-0.5	4-0.5	0.0.5	0.0.5	0.0.5	0-0.5	0.0.5	0-0.5	0.4.5	0.0.5	0.0,5	0-0.5	0.0.5	0-0.5	0-0.5	0.0.5	8-0.5	0.0.5	0.05	0.45	0.9.5
Analyza	Units	#(14/16	3/13/2017	9/14/2618	9/18/2019	9/9/2020	4/23/2023	9/15/2021	5/5/2022	9/8/2022	-9/13/2017	9/18/2019	9/9/2020	4/23/2021	9/15/2021	\$15/2022	9/8/2022	9/13/2017	9/14/2018	9/18/2019	9/9/2028	4/23/2021	9/15/2021	5/5/2022	9/8/2022
Henavalent Chromiam	mg/kg	ND-98	ND<9.9	ND<93	ND<7.7	13	ND-11	ND-87	ND<10	ND<93	ND<6.8	ND-8.0	ND=6.4	NDKII	ND<8.6	ND<7.0	ND<6.5	ND-9.7	ND<6.8	ND-7.0	7,1	ND-8.3	ND<\$.0	ND<7.9	ND<11
Total Chromaun	matrix a	190	140	91	110	37	46	76	32	75	410	6,700	1,100	19,000	9,400	2,700	570	34	18	34	26	35	58	37	49
Nickel	melke	27	17	19	12	12	15	19	20	17	13	97	27	77	-3)	79	25	21	13	13	17	14	19	14	17
Copper	mailer	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	melke	NA	NA	NA	NA.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zint	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

Notae: ND - indextes compound not detected above laboratory reporting limit NA= Not analyzed

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

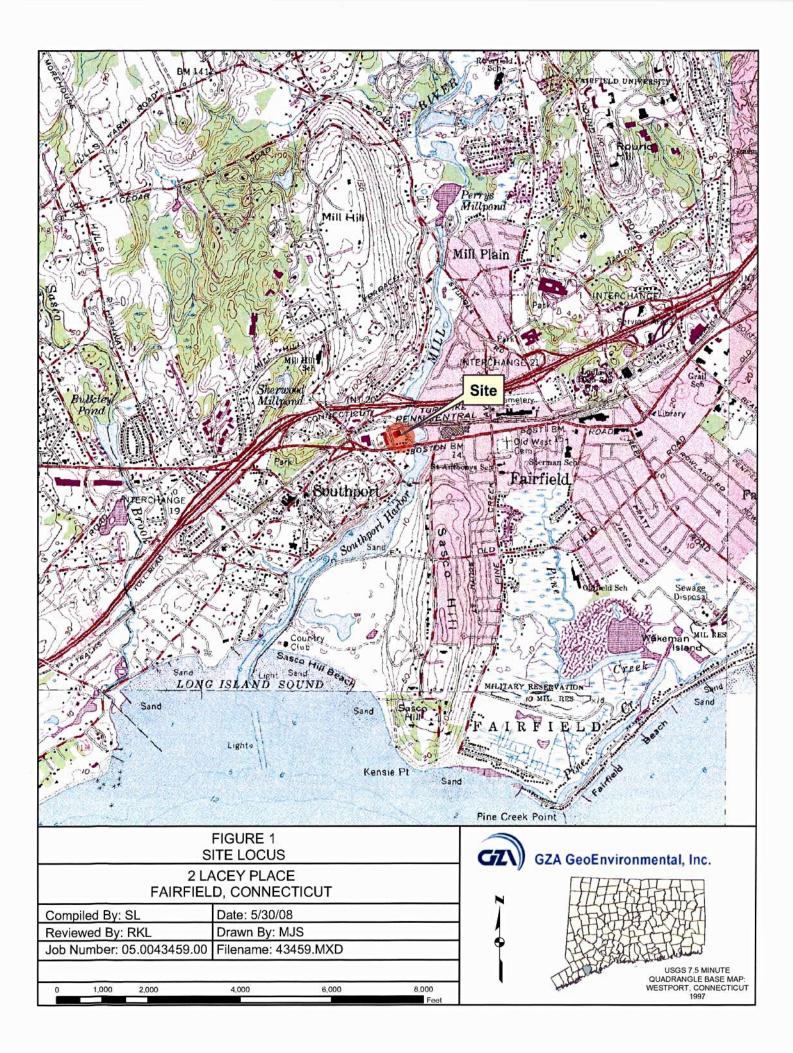
	Sample Name	2 (3) ( ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	A COLORADO	and the second	SF	C-SED-5	100 00-23	Share	11.6-	SPC-SED 7	SPC-SED-8	SPC-SED-9	SPC-SED-10	SPC-SED-11	SPC-	SED 12
	Depth (feet)	0.0.5	0.0.5	0.0.5	0-0.5	0.9.5	0.0.5	0-0.5	0.0.5	0.0.5	0.0.5	0.0.5	0.0.5	0.0.5	0.4.5	0.5-1.6
Analyten	Units	4/22/13	9/14/18	9/38/2019	9/9/2020	4/23/2021	9/15/2421	5/5/2022	9/8/2022	4/22/13	4/22/13	4/22/13	4/22/13	4/22/13	4/22/13	4/22/13
Hexavalent Chromian	mg/kg	6.8	ND<22	ND<200	26	ND-(13	ND<10	ND<9.3	ND-594	ND<5.0	ND-5.0	ND-5.0	ND<5.9	ND<5.0	ND<5.0	ND<5.
Total Chroman	mg/kg	94	26	26	21	37	19	16	16	25	19	28	37	42	23	22
Nickel	tog kg	NA	18	16	15	22	9.7	11	12	NA	NA	NA	NA	NA	NA	NA
Copper	merke	58	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
Zine	merket	100	NA	NA	NA	NA	NA	NA	NA	46	44	53	110	130	53	53

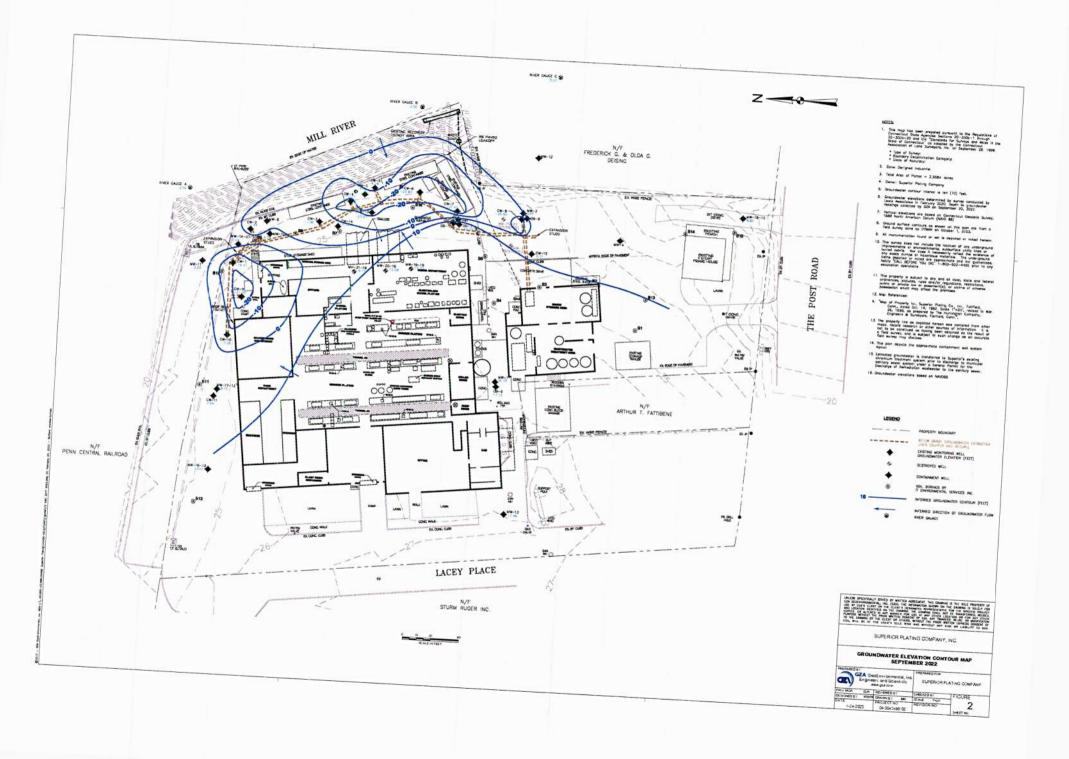
Notes: ND - indicates compound not detected above laboratory reporting limit NA= Not analyzed

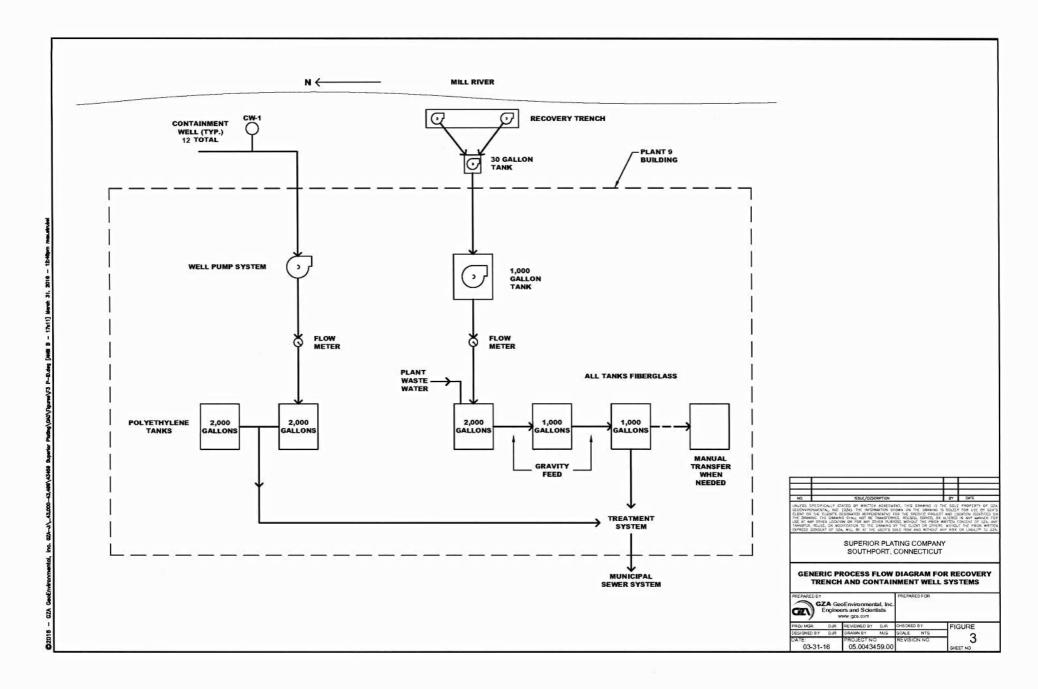
Igzagieturbel, 43.000 43.494/343458 Superor Patergiannial Report/Annial TABLES AND DGADLEClape 3 and 4 Sedment and Subsce Water Result, 2022 Ja

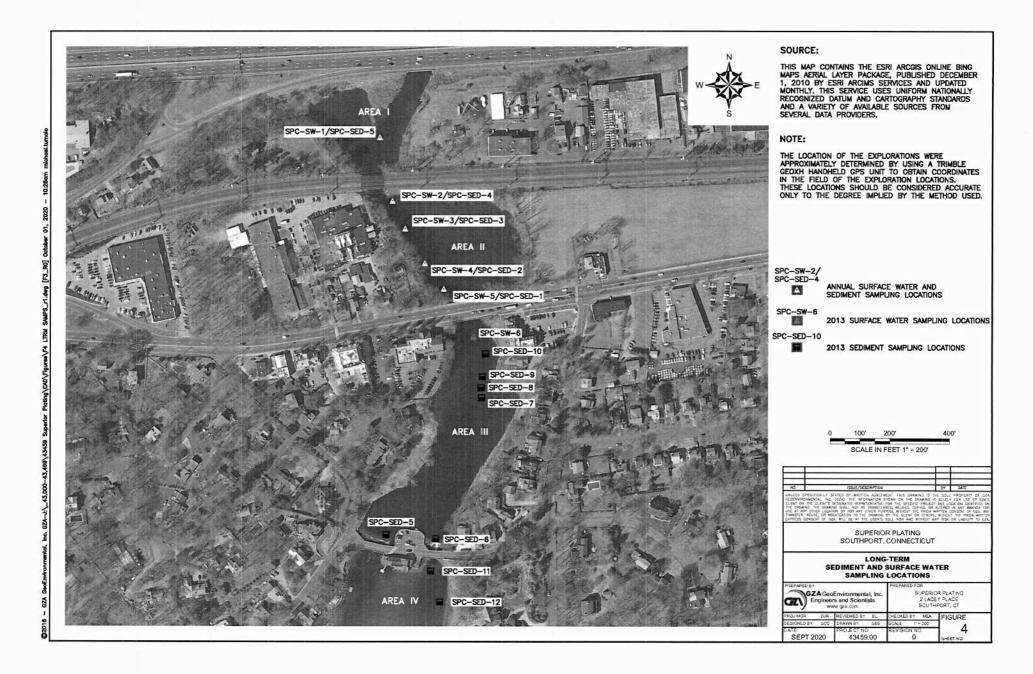


FIGURES











APPENDIX A LIMITATIONS

GEOHYDROLOGICAL LIMITATIONS Page | 1



#### **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 & / hr	GPD	CONC Cr+6 INT
1-4-22	24.0	152	N.D. put 10.3- yellow R.D
1-11-22	9.0	57	N.D pH 10.0 - yellow P.D
1-18-22	15.0	95	ND put 9.8 - yellow A.D
1-26-22	195	123	ND pH 9.1 - yellow P.P
2.2.22	21,0	133	N.D pH 9.1 - yellow 1.D
2-11-22	25.5	161	30ppmp49.1-yellow Rd
2-18-22	27.0	171	18pm pH 8.2. Jellow R.D
2-25-22	• _	-	41 ppm pH7.0-yellow RD
3-8-22	-		99, pr pH.62-yellow RD
3-16-22	-		58 pp 1474 - yellow RD
3-22-22	-	_	57 ppm pH. 8.2 - yellow MA
4-1-22	~	-	76pp~ pH 8.0- yallow RD
4-12-22	33.0	209	BIPPM pH 6.5 - yellow R.D
4-27-22	28.0	178	87pp pt 65 - yellow ap
5.5-22	140	152	79112 pub5 - yellow R.P
5-12-22	27.0	171	28pp- pH.L.3-yellow RP
5-19-22	24.0	152	Suppr pt 6.4. yellow RD
5-26-22	22.5	143	FOPP pH 63 yellow RP
6-2-22	22.5	143	63 pm pH 6.6 yellow RD

# C





#### 10 FOOT PIT GROUND WATER DATA

DATE	FLOWRATE &/hr	GPD	CONC Cr+6	INT
6-10-22	19.5	123	62pp- pit 6.9 yel	low R.D
6-17-22	17.0	108	62ppppt6.8 yes	
6-24-22	15.0	95	61ppm p4 6.8 ye	
6-30-22	12.0	76	62ppm pit. 6.7 ye	
7-7-22	10.5	66	61pp pit 6.7 ye	
7-14-22	9.0	57	61pps pit 6.6 ye	llow RD
7-21-22	6.5	41	64100 pit 6.7 ye	
7-29-22	5.5	35	6500 pH 6.7 ye	1100 p.p
8-5-22	4.5	28	75ppr pH 6.7 y	ellow RD
8-11-22	4.5	28	73m	R.D
8-18-22	3.5	22	Form	R.D
8-25-22	2.5	16	731pm	R.D
9-1-22	2.0	12	74 pm	p.D
9-8-22	2.0	12	78102	p.o
9-15-22	2.5	16	79,00	R.O
9-22.22	3.0	19	7811	R.D
9-29-22	3.0	19	82 fin	RD
10-6-22	3.5	22	86110	R.D
10-13-22	4.0	25	92 pp	R.D.







DATE	FLOWRATE L/hr	GPD	CONC Cr+6	INT
10-20-22	4.0	25	100 ppm	n.D
10-27-22	4.0	25	101000	R.D
11-3-22	4.0	25	100ppn 106ppn 103ppn 103ppn 110pm 111ppn	P.0
11-10-22	4.4	2 23	106100	R.D
11-12-22	4.0	25	103mm	RP
11 -23 - 22	4.8	30	110 pm	R.D
12-1-22	4.8	30	lupp	R.D

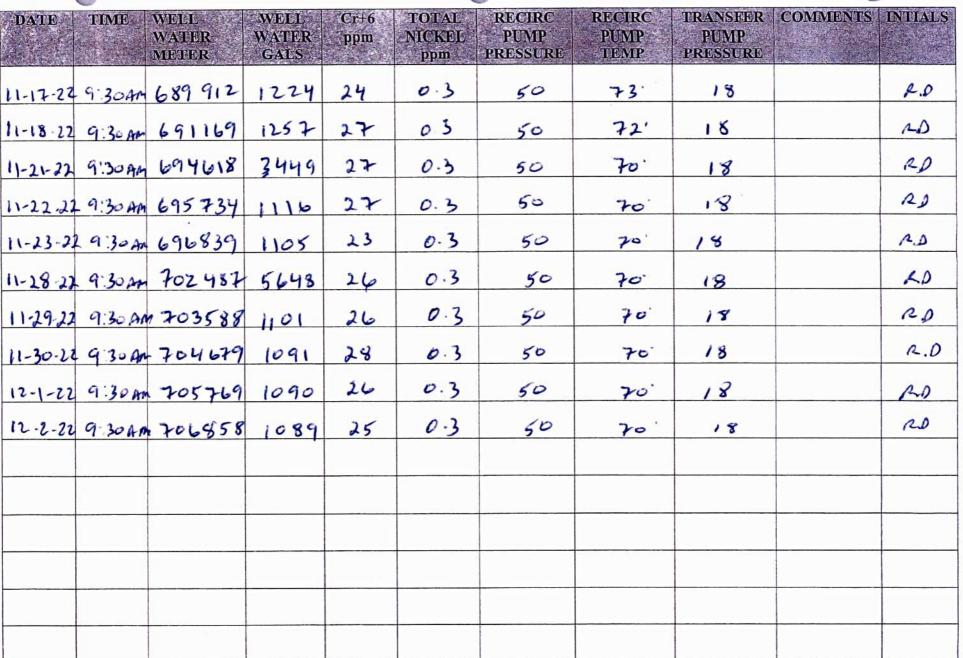
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#### 10 FOOT PIT GROUND WATER DATA

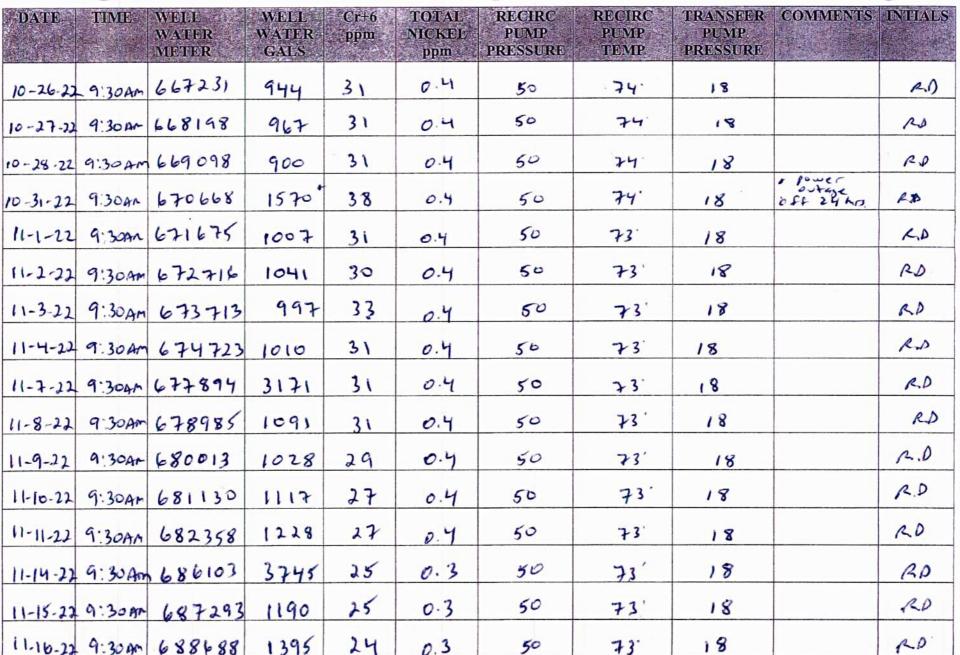
DATE	FLOWRATE 2/61	GPD	CONC Cr+6	INT
9-27-21	16.5	104	212	RP
10-4-21	18.0	114	207	A.D
10-11-21	16.5	104	223	R.D
10-18-21	12.0	76	245	R.D
10-25-21	10.5	66	242	P.D
11-1-21	13.5	85		R.D
	8-MC 11-1-21 10	0:00 Am began	injection treatment	T R.D
	ON 11/30/21 V			p.p
12-1-21	30.0		put 10.2 / orange	R.D
12-2-21	27.0	171	pit 10.6 1. 11	p.D
	105f 12-2-21	- 12-10-21	/	PD
12-10-21	-	-	pit 10.5 pranse/rel	RA.
12-13-21	-	-	pit 10.3 orange	20
12-14-21	-	-	pit 10.5 orange	RD
12-15-21	~	-	pit 10.3 orange	RD
12-16-21	~	-	part 10.3 orange	
12 - 17 - 21	_	-	pH 10.3 pronse	
12 -20 - 21	18.0	114	pit 10.5 yellow	

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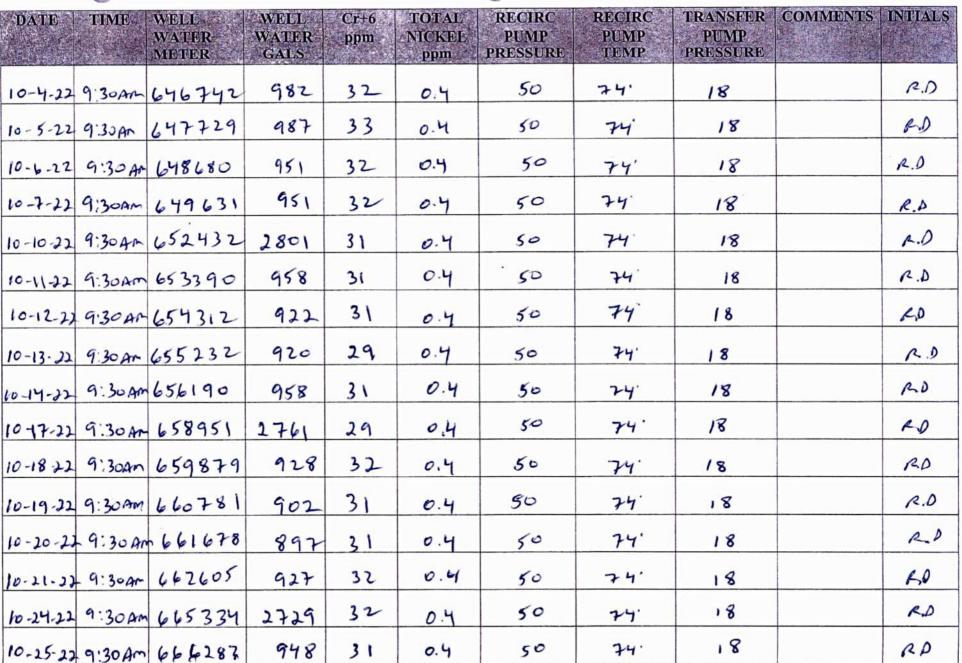
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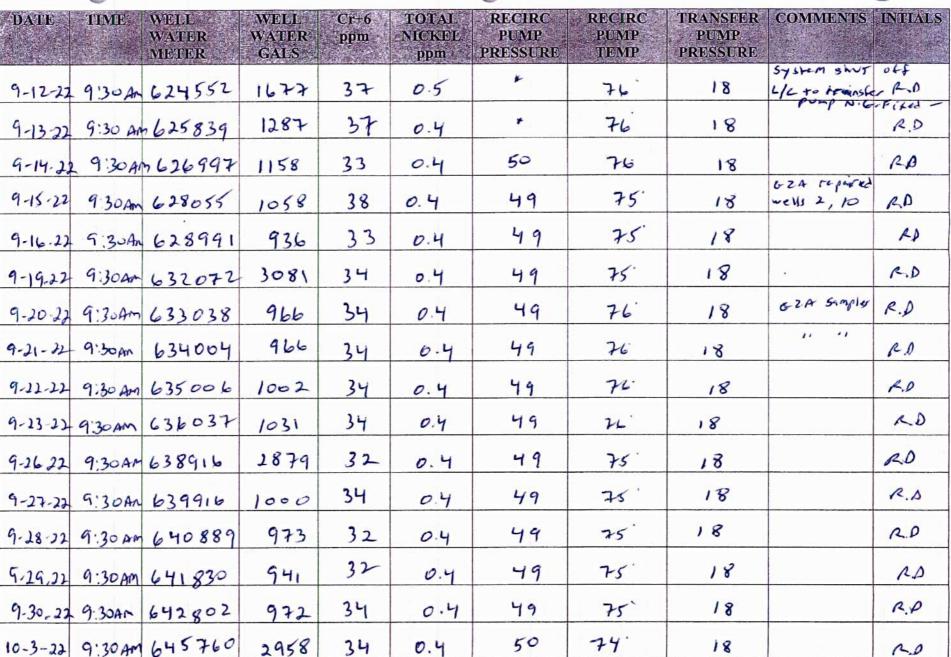
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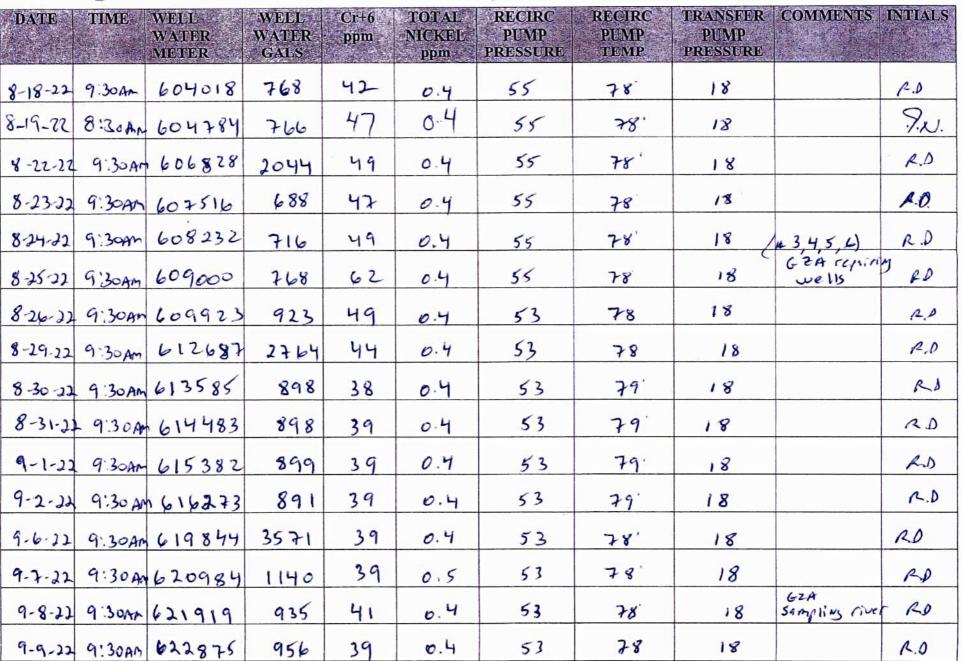
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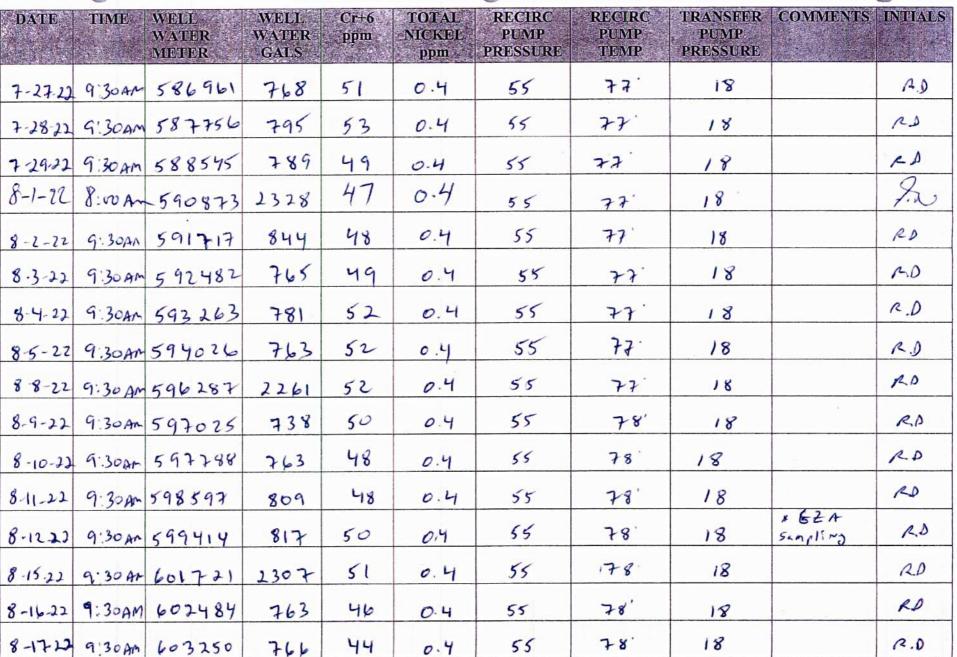


\* pressure gauge N. & - Stuck on 40psi ordered a New one

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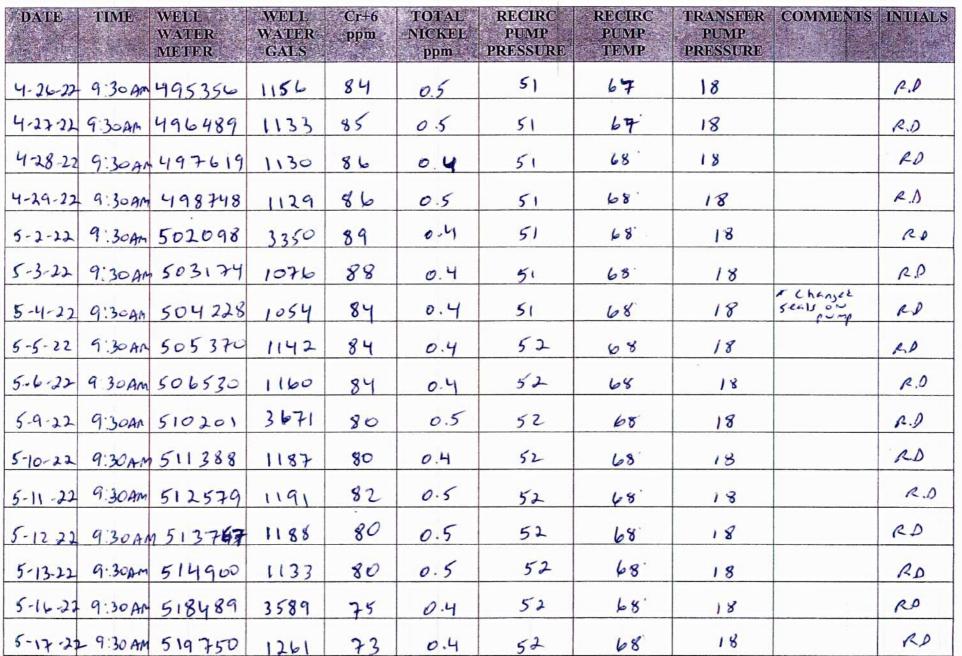
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DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS:	INTIALS
6-10-22	9:30An	545 176	1051	68	0.4	53	73	18		R.D
6-13-22	9:30 Am	548235	3059	68	0.4	53	73	18		RD
6-14-22	9:30 AM	549269	1034	68	0.4	53	73	18		R.D
6-15-22	9:30AM	550353	1084	d d	0.4	53	73	18		R.D
6-16-22	9:30 AM	551408	1055	66	0.4	53	73	18		R.D
6-17-22	9:30 AM	552408	1000	66	0.4	53	73	18		RD
6-20-2	2 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		FD
6-22.22	9:30 AM	557052	900	61	0.4	54	74.	18		R.P
6-23-22	9:30 AM	557974	922	59	0.4	54	74	18		RD
6-24-22	9:30Am	558895	921	61	0.4	54	74	18		RO
6-27-22	9:30Am	561587	2692	60	0.4	54	74'	18		RD
6-28-22	9:30 AM	562487	900	62	0.4	54	74.	18		R.D.
6.29.27	9:30Am	563410	923	58	0.4	54	74'	18		R.J
6-30-22	9:30 AM	564 307	897	58	0.4	54	74'	18		R,D
7-1-22	9:30 Am	565 177	870	60	0.4	55	75	18	e l	RD

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DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INTIALS
5-18-22	9:30 Am	520937	1187	71	0.4	52	68	18		p.D
5-19.22	9:30Am	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.P
5-23-22	9:30 AM	526489	3262	70	0.5	52	69'	18		RD
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		RD
5-26-22	9:30AM	529665	1027	72	0.4	52	76'	18		R.D
5-27-22	9:30 Am	530720	1055	68	0.4	52	70	18		N.
5-31-22	9:30Am	534925	4205	69	0.4	53	72	18		<i>P.0</i>
6-1-22	9:30Am	1535950	1025	69	0.5	53	72'	18		RD
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.A
6-6-22	9:30 An	541120	3086	72	0.4	53	72.	18		RD
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	×	RD
6-9-22	9:30 AM	544125	1003	20	0.4	53	72	18		r.o

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DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS	INTIALS
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	9:30 AM	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	L5.	18		R.D
4-8-22	9:30 AM	470929	1396	20	0.4	50	65	18		RD
4-11-22	9:30AM	475630	4701	72	0.4	51	65	18		RD
4-12-22	9:30Am	476952	1322	76	0.4	51	65	18		A.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	.45	18		RD
4-18-22	1.2	484451	4953	81	0.4	51	65	18		R
4-19-22	8:00am	486103	1652	69	0.11	51	65	18		9.J.
4-20-22		487692	15 89	76	0.4	51	65.	18		9.n.
4-21-22		- 489245	1553	76	0.4	51	65	18		9.N
		490408	1163	78	0.4	51	65	18		-Pr)
4-25-22	9:30AN	494200	3792	80	0.5	51	65.	18		R.D

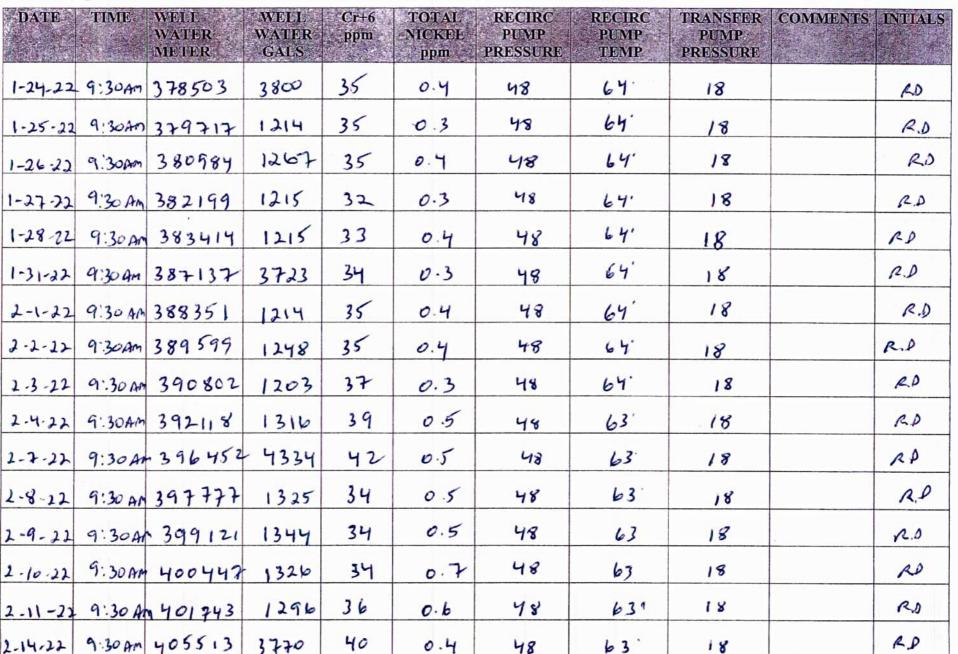
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DATE	TIME	WELL WATER	WELL WATER	Cr+6 ppm	TOTAL NICKEL	RECIRC PUMP	RECIRC PUMP	PUMP	COMMENTS	INTIALS
and the second		METER	GALS		ppm	PRESSURE	TEMP	PRESSURE	H. C. Market	
3-9-22	9:392m	433771	1155	50	0.5	50	64	18		R.D
3-10-22	9:30AM	434973	1202	54	0.5	50	64	18		RD
3-11-22	9:30 Am	436149	1176	56	0.5	50	64	18		R.D
		439688	3539	59	0.4	50	65	18		R.0
3-15-22	9:30Am	440892	1204	58	0.5	50	65	18		R.D
3-16-22		442094	1202	58	6.5	50	65	18		R.D
3-17-22		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	9:30 Am	447990	3563	61	0.5	50	65	18		R.D
3-22-22	9:30 Am	449143	1153	62	0.5	50	65'	18		RO
3-23-22	9:30Am	450 355	1212	60	0.5	50	65	18	62A repair # 3, 10, 14	RD
3-24-22	9:30An	451696	1341	57	0.4	50	65	18		R.D
3-25-22	9:30A1	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 An	459577	1283	65	0.4	51	65	18		RD
3-31-22	9:30 Am	460 834	1257	71	0.5	50	65	18		R.D

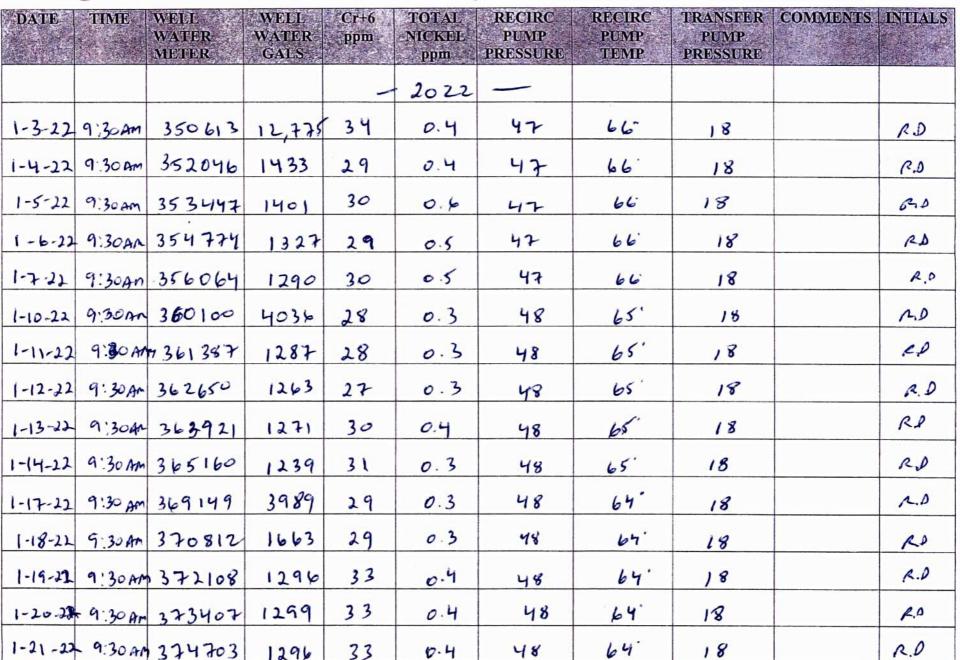
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DATE	TIME	WELL WATER METER	WELL WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RECIRC PUMP PRESSURE	RECIRC PUMP TEMP	TRANSFER PUMP PRESSURE	COMMENTS INTIA	LS
2-15-22	9:30 Am	406779	1266	34	0.4	48	63.	18	RD	
2-16-22	9:30 AM	407994	1215	40	0.4	48	63	18	R.D	
2-17-22	9:30Am	409214	1220	40	0.5	48	63	18	R.D	
2-18-22	9:30 Am	410 430	1216	40	0.4	48	63	18	R.D	
2-21-22	9:30 AM	414152	3722	44	0.5	48	63'	18	RD	
2-22-22	9:30 AM	415357	1205	42	0.4	49	63	18	R.J	
2-23-22	9:30 AM	416596	1239	42	0.4	49	63'	18	RÐ	
2-24-22	9:30 AM	417833	1237	40	0.4	49	63	18	RD	
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.L	0
3-2-22	9:30AM	425372	1269	43	0.4	49	63	18	R.D	
3-3-22	9:30AM	426613	1241	45	0.4	49	63	18	K.J	
3-4-22	9:30 AM	427825	1212	43	0.5	49	63	18	R.0	
3-7-22	9:30 4	1431429	3604	46	0.5	49	63'	18	RD	
3-8-22	9:30 Am	432616	1187	48	0.5	49	63	18	RA	

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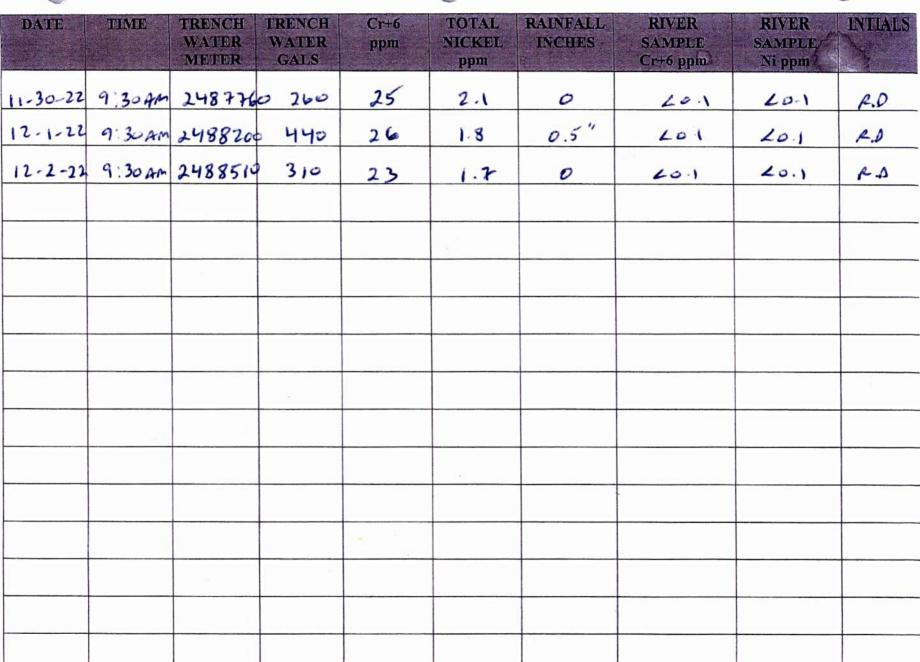




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DATE	TIME	WELL	WELL	Cr+6	TOTAL	RECIRC	RECIRC	I AND IN TRACTORY AND A DEPARTMENT	COMMENTS	INTIALS
	计关系	WATER METER	WATER GALS	ррт	NICKEL ppm	PUMP PRESSURE	PUMP TEMP	PUMP PRESSURE		
12-2-21	9:30An	312099	1246	27	0.3	46	76	18		R.D
12-3-21	9:30 Am	313363	1264	27	0.3	46	70	18		RD
12-6-21	9:30AM	317099	3736	30	0.3	46	70	18		R.D
12-7-21	9:30An	318397	1298	30	0.3	46	70	18		RD
12-8-21	9:30 Am	319616	1219	27	0.3	46	70	18		R.D
12-9-21	9:30AM	320834	1218	17	0.3	44	70'	18		r.)
12-10-21	9:30Am	322079	1245	27	0.3	чь	70	18		RD
12-13-21	9:30AM	325729	3650	32	0.3	46	70'	18		r.0
12-14-21	9:30AM	326972	1243	29	0.3	46	70	18		RP
12-15-21	9:30 AM	328187	1215	27	0.3	46	70	18		RD
12-16-21	9:30 AM	329401	1214	24	0.3	46	70'	18		R.P
12-17-21	9:30AM	330618	1217	27	0.3	46	70	18		R.D
12-20-21	9:30 Am	334238	3620	28	0.3	ЧЬ	20:	18		RD
12-21-21	9:30 AM	335455	1217	28	0.3	47	69	18		R.D
		c UL								
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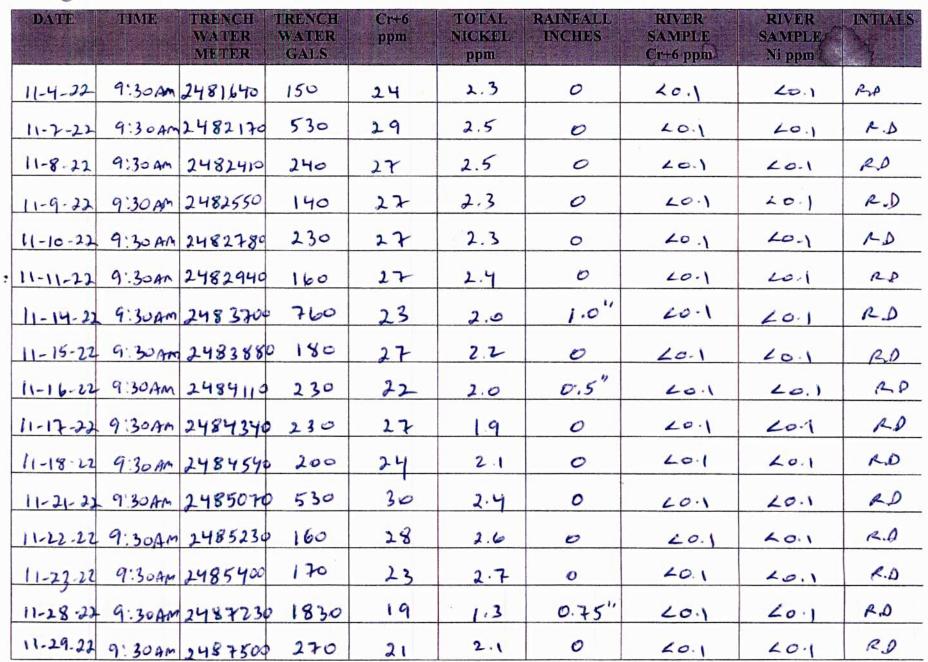
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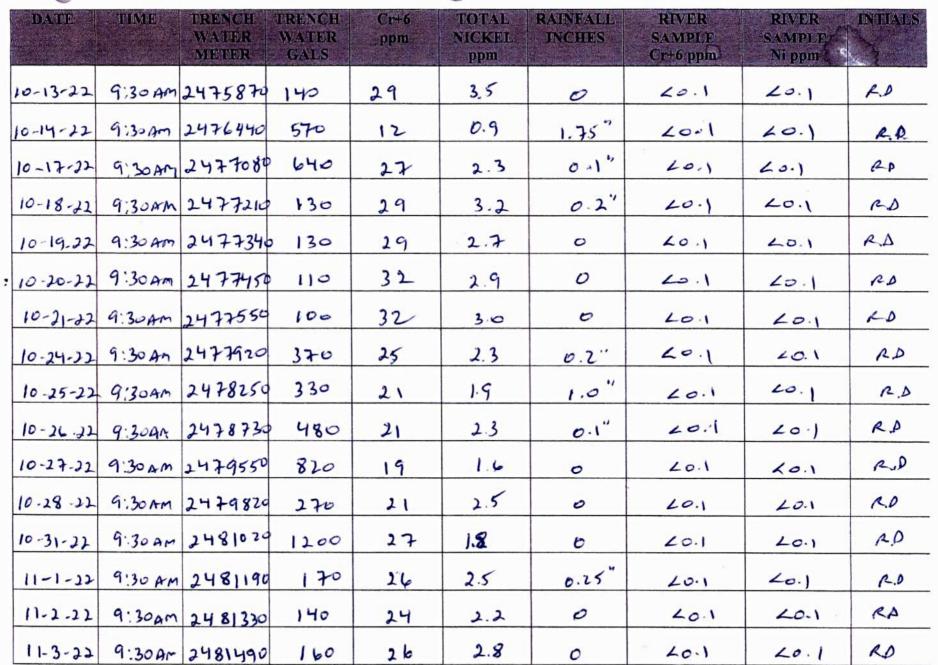
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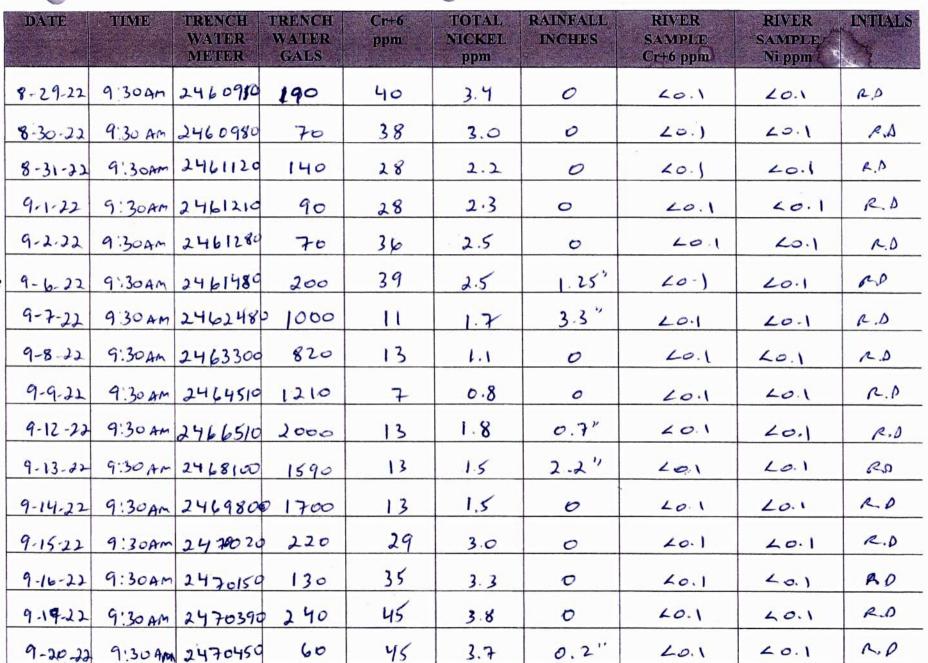
## 4ATAGAHTAWHTSAW

IVILINI	NI DDW SVMBTE BIAEB	Ct+6 ppm SAMPLE RIVER	INCHES	bbur NICKET LOLVT	bbu Ci+te	CVTS MVLEB LBENCH	ALELER AVLER LBUNCH	IIME	DATE
01	1.07	1.07	0	3.5	44	08	cesothT	405.9	72-12-6
52	1.07	107	, 5.0	3.3	th	001	ozgotht	NA 05: P	78-88-6
6.9	1.07	1.07	.40	8.4	88	Col	CELLAT	woof:6	-18-58-6
44	1.02	1.07	1.58.0	5.0	t	oth	writhe	MAOC.P	11-22-6
ダン	1.07	1.07	0	5.8	ET	300	oositht	4405:5	22-22-2
0.5	1.07	1.07	0	5.6	52	-57	OSEILAT	maos:p	27-82-5
0.5	1.02	1.02	0	8.2	30	021	ot81the	4408.9	18-68-6
82.	1.02	1.07	0	18	78	001	ablthr	4405:6	11:08-6
52	1.07	1:07	.5.0	5.1	hI	0201	otosthe	WY OF: 6	22-2-0
52	1.07	1:07	1.58.0	8.1	91	095	pogethe	4.30 000	20-4-0
0.5	1.07	1.07	"1.0	2.5	61	oth	ozohthe	~++ 0E: b	22-5-0
02	1.07	1.02	,, 4:0	0.7	61	048	PIEHtht	wfor: 5	11-9-0
0.2	1.07	1.07	0	七1	81	930	abghtht	NAOE.P	18-2-0
6.9	1'07	1.04	0	£.2	62	065	osesthe	W405:6	20-10-0
0.2	1.07	1.07	Q	4.2	40	ott	05555662	40 02:6	22-11-0
6.9	1.02	1.07	0	0.2	98	081	attsthe	~4 OE: P	22-21-0

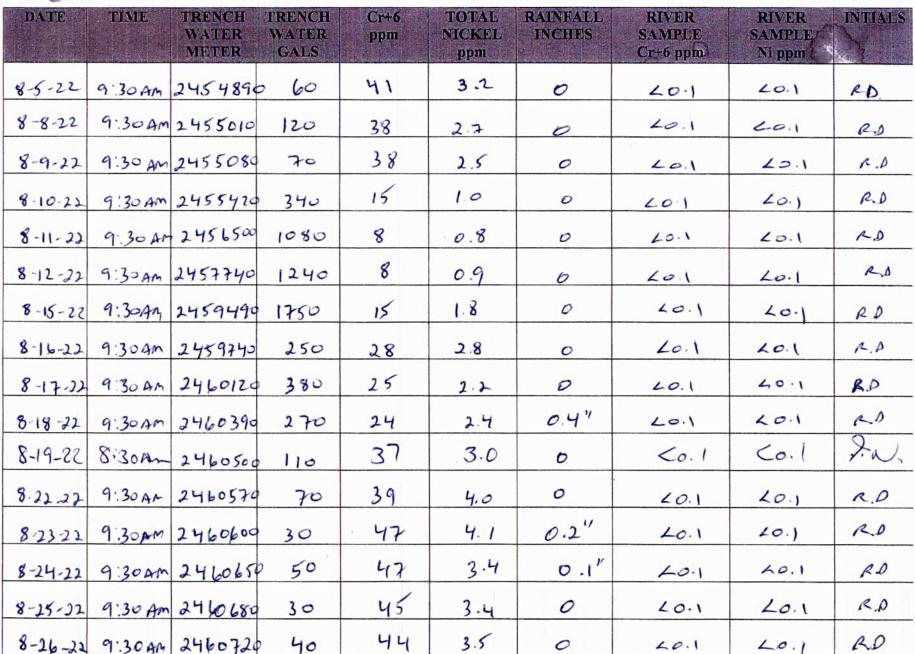
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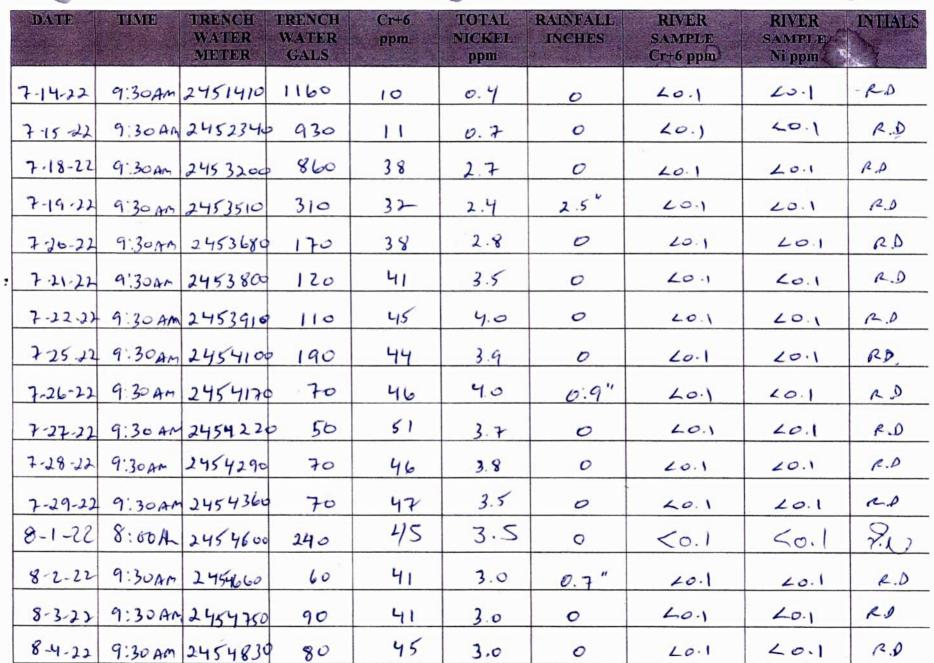
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	DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL INCHES	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INTIALS
	6-21-22	9:30AM	2445620	230	34	1.9	0	20.1	20.1	F.D
	6-22-32	9:30 An	2445820	200	40	2.0	0.2"	20.1	63.7	RD
	6-23-22	9:30 pm	2446060	240	38	2.0	0.3"	20.1	60.1	R.D
	6-24-22	9:30,AM	2446300	240	38	1.8	0	20.1	20.1	RA
	6-27-22	9:30 Am	2446830	530	46	2.4	0	20.1	20.1	RD
;	6-28-22	9:30 AM	2447050	220	42	1.9	1.5 "	20.1	60.1	R.D
	6.29.22	9:30AM	2447240	190	40	2.1	0	20.1	20.1	R.D
	6-30-22	9:30 AM	2447400	160	40	1.9	0	20.1	20.1	RD
	7-1-22	9:30Am	2447530	130	42	1.7	0	20.1	20.1	RD
	2-5-22	1:30 AM	2448000	470	43	2.1	0	20.1	20.1	R.D
	7-6-22		2448080		41	2.0	0	20.1	20.1	R.D
	7-7-22	9:30 AM	2448170	90	39	2.0	0	20.1	20.1	RD
	7-8-22	9:30Am	2448260	90	43	1.7	0	40.1	20.1	RD
	2-11-22	9:30An	244872	0 460	33	1.3	0	4 0.1	20.1	R.D
	7-12-22	9:30 AM	2449120	0 400	17	0.8	0	20.1	20.1	R.0
	7-13-22	9:30 AN	2450250	1130	15	0.7	0	60.1	20.1	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	INTIALS
5-27-22	- 9:30 Am	2430120	340	36	10	0	20.1	×0.)	RD
5-31-22	9:30AM	243 1930	1810	35	1.0	0.6"	20.1	20.1	RD
6-1-22	9:30 AM	243236	\$ \$30	31	0.7	0-25"	20.1	20.1	P.D
6-2-22	9:30AM	2433040	680	21	0.6	0.6"	20.1	20.1	R.D
6-3-22	9:30 AM	2433960	920	25	0.6	1.2"	20.1	20.1	RD
. 6-6-22	9:30 Am	243584	0 1880	35	0.9	0	20.1	20.1	R.D
6.7-22	9:30 AM	2436220	380	35	0.8	0	40.1	KD.1	P.D
6-8-22	9:30An	2436550	330	35	1.0	025"	20-1	20.1	R.D
6-9-22	9:30 AM	2436930	380	35	0.9	0.75"	20.1	20.1	R.P
6-10-22	9:30AM	2437400	470	35	0.9	0	20.1	20.1	R.D
6-13-22	9:30 AM	2439320	1920	26	0.7	0.25"	40.1	20.)	RD
6-14-22	9:30Am	244044	0 1140	18	0.4	0	20.1	20.1	R.P
6-15-22	9:30AM	2441880	0 1420	8	0.3	0	40.1	20.1	RD.
6-16-22	9:30AM	244 3230	1350	8	0.4	0.1"	20.1	40.1	R.D
6-17-22	9:30 Am	2444152	920	20	0.7	0	4 0.1	20.1	R.D
6-20-27	9:30 AN	2445390	1240	34	1.7	0.2"	40.1	20.1	R.0

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	INTIALS	62	61	20	RD	6.2	42	R.D	6.2	50	2.0	62	40	2.0	RD	RD.	KD
	RIVER SAMPLE Ni ppm	1.07	(07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
	RIVER SAMPLE Cr+6 ppm	1.07	X 0.1	20.1	1.07	1.07	1.07	1.07	1.07	1.07	1.02	1.07	1.07	107	1.07	1.07	1.07
	RAINFALL	0	0	0.3 "	0	0	0	0	0	0.2"	Ø	"H.O	0.1'	0.25 "	0	0	0
	TOTAL NICKEL ppm	0,9	0. 8	0.6	0.5	0.7	9.0	0.0	0.4	2.0	t.0	0.0	2.0	4.0	0.9	1.0	1.1
•	Cr+6 ppm	33	33	32	25	34	32	32	15	8	4	31	23	36	34	34	28
	TRENCH WATER GALS	530	530	2400	ott	670	610	540	2630	1650	1300	860	290	1870	n50	004 0	citi
	TRENCH WATER METER	2413900	2414430	2416830	007£142	0478147	2418880	9:30An 2419420	asotthe	2423700	3425000	9.30 AM 2425860	9:30 AM 2426650	9:30AM 2428520	2428970	2429370	9:30 AM 2429780
	TIME	9.30m	9:30AM	9:30 AM	9:30Am	9:30 Am	9.30Am	9:30Am	9:30Am	9.30AM	9:304m	9.30 Am	9:30 44	9:30Am	9:30 AN	9:30Am	9:30 Am
	DATE	5-5-22	5.6.22	26.5.5	5-10-22	5-11-22	12.21.5 :	5-13.22	5-16-23	5-1722	5-18-22	2-19-22	5-20-23	22-22-3	254.23	8-25-27	5-26-22

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DATE	TIME	TRENCH WATER	TRENCH WATER	Cr+6 ppm	TOTAL NICKEL	RAINFALL. INCHES	RIVER	RIVER	INTIALS
		METER	GALS		ppm		Cr+6 ppm	Ni ppm [	No. The second second
4-12-22	9:30 AM	2389200	1260	20	0.5	0	20.1	20.1	F.O
4-13-22	9:30AM	2390350	1150	23	0.7	0	20.1	20.)	Prl
4-14-22	9:30 AM	2391400	1050	25	0.5	0	20.1	20.1	R.D.
4-18-22	8:00 Am	2 395300	3900	25	0.7	0.1	20.1	<0.1	20
4-19-22		2396900	1600	5	0.1	,75	<0.1	<0.1	P.N.
· M-20-22		2399700	1800	23	0.1	0	Ko.1	20.1	90
4-21-22	-	2401800		27	0.2	O	Co.1	20.1	2.N
4-22-22	0	2403100	1300	27	0.1	0	(o.1	Co.1	9.0
4-25-22	_	240647	3370	29	0.4	0	20.1	20.1	RD
4-26-22		240738		27	0.7	o	20.1	20.1	R.D
4-27-22	9:30Am	240824	0 860	31	0.7	0	20.1	20.1	20
4-28 22	9:30AM	240908	0 840	27	0.6	0	20.1	20.1	RP
4-29-22	9:30AM	240982	0 740	30	0.7	0	20.1	20.1	RD
5-2-22	9:30 AM	241210	2280	33	0.8	0	20.1	20.)	R.D
5-3-22	9:30 AM	2412780	680	31	0.7	0	40.1	40.1	R.D
5-4-22	9:30 40	2413370	590	33	0.8	0	20.1	20.1	R.D



DATE	TIME	TRENCH WATER METER	TRENCH WATER GALS	Cr+6 ppm	TOTAL NICKEL ppm	RAINFALL	RIVER SAMPLE Cr+6 ppm	RIVER SAMPLE Ni ppm	INTIALS
3-18-22	9:30 AM	2359300	740	27	0.7	0.2"	20.1	20.)	RD
3-21-22	9:30AM	2361700	2400	23	0.5	0.1"	40.1	20.)	RD
3-22.22	9:30 Am	2362340	640	24	0.7	0	20.1	20.1	R.A
3-23-22	9:30AM	2362910	570	28	0.7	0	20-1	20.1	R.D
3-24-22	9:30 AM	2363870	960	11	0.3	0.2"	20.1	20.1	R.D
. 3-25-22	9:30 Am	2365670	1800	9	0.4	0.2"	20.1	20.1	P.D
3-29-22	9:30 Am	2371150	5480	22	0.7	0	40.1	20.1	R.D
3-30-22	9:30AM	2372100	950	26	0.5	ø	60.1	20.1	R.D
3-31-22	9:30AM	2372950	850	26	0.6	0.1"	20.1	20.)	RD
4-1-22	9:30AM	2373820	0 870	22	0.6	0.1"	20.1	20.1	R.D
4-4-22	9:30 AM	2376430	2610	26	0.6	Ø	20.1	20.1	R.D
4-5-22	9:30AM	237737	0 940	26	0.5	Ø	20.1	20.1	P.D
4-6-22	9:30 Am	2378050	680	29	0.7	0.2"	20.1	20.)	R.0
4-7-22	9:30 Am	2379270	1220	24	0.5	0	20.1	20.1	RD
4-8-22	9:30 Am	2381360	2090	7	0.1	0.2"	20.1	20.1	R.D
4-11-22	9:30 AM	238794	6580	21	0.4	0.111	20.)	20.1	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	INTIALS
2-24-22	9:30 AM	2339970		22	0.5	0	60.1	20.1	R.D
2-25-72	9:30 Am	2340830	860	24	0.5	0.7"	10.1	Lo.)	R.0
2-28-22	9:30 AM	2344140	3310	21	0.5	0	20.1	20.1	RD
3-1-22	9:30 AM	2345000	860	23	0.6	0	20.1	20.1	R.D
3-2-22	9:30 AM	2345860	860	21	0.5	0.1"	201	20-1	R.D
3-3-22	9:30 AM	2346670	810	23	0.6	0.1"	20.1	20.1	R.D
3-4-22	9:30An	2347390	0 720	23	0.2	0	20.1	20.1	R.D
3-7-22	9:30 AM	234940	2010	29	0.5	0.27	20.1	20.1	R.D
3-8-22	9:30 AM	2350040	640	25	0.6	0.1"	20.1	20.1	RP
3-9-22	9:30 Am	2350660	620	25	0.7	0	20.1	20.1	R.D
3-10-22	9:30 Am	2351840	1180	17	0.5	0.8"	20.1	20.1	R.D
3-11-22	9:30 Am	2352750	910	21	0.5	0.1"	20.1	201	R.D
3-14-22	9:30AM	2356050	3300	23	0.6	0.2"	201	20.1	RD
3-15-22	9:30 AM	2356670	620	25	0.7	0	20.1	20.1	R.D
3-16-22	9:30 AT	2357800	1130	23	0.6	0	20.1	20.1	R.D
3-17-22	9:30 AM	1358560	760	25	0.7	0	40.1	20.1	RD

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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	INTIALS
	2.2-22	9:30AM	2319220	490	<b>3</b> 3	0.9	0	101	20.1	R.D
_	2-3-22	9:30An	2319640	420	33	0.7	0	20.1	20-1	RP
0	2-4-22	9:30AM	2321190	1550	10	0.3	1.2"	40.1	60.1	RD
	2-7-22	9:30AM	2325900	4710	18	0.3	0.5"	60.1	20.1	N
0	2-8-22	9:30AM	2327170	1270	14	0.3	0.3"	201	20.1	R.D
;	2-9.22	9:30Am	1328350	1180	18	0.3	0	20.1	20.1	R.D
3	2.10-22	9:30 Am	2329300	950	22	0.5	O	23.1	20.1	R.D
	2-11-22	9:30 Am	2330120	820	18	0.5	Ø	20.1	20.1	20
	2-14-22	9:30 Am	2332280	2160	20	0.5	0	60.1	20.1	RD
	2-15-22	9:30AM	2332920	640	24	0.5	0	40.1	2011	R.D
	2-16-22	9:30 AM	2333540	620	22	0.5	0	20.1	20.1	R.D
	2-12-22	9:30AM	2334120	580	22	0.6	0	20.1	L0.1	RB
	2-18-22	9:30Am	2334820	700	22	0.5	0.8"	20.1	10.1	R.D
	2-21-22	9:30 AN	233747	0 2650	28	0.6	0	20.1	20.1	R.D
	2.12.12	9:30AM	2338200	730	26	0.7	0	20.1	20.)	R.D
	2-23-22	9:30Am	2339040	860	20	0.4	0.3"	20.1	40.1	R.0

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DATE	TIME	TRENCH	TRENCH	Cr+6	TOTAL	RAINFALL	RIVER	INTIALS	
		WATER	WATER	ppm	NICKEL	INCHES	SAMPLE	RIVER SAMPLE	
		METER	GALS		ppm		Cr+6 ppm	Ni ppm 2	1
1-11-22	9:30AM	2304130	540	26	0.7	0	20.1	60.1	R.D
1-12-22	9:30 AM	2304630	500	27	0.8	0	20.1	60.1	R.D
1-13-22	9:30An	2305080	450	28	0.9	0	60.1	20.1	R.D
1-14-22	9:30 AM	2305590	510	27	0.7	0	40.1	20.1	R.P
1-17-22	9:30 Am	2307270	1680	3	0.1	2.2"	20.1	20.1	RD
1-18-22	9:30AM	2309700	2430	20	0.4	0	20.1	20.)	RD
1-19-22	9:30 AM	2310700	1000	18	0.5	0	20.1	20.1	RD
1-20-22	9:30 Am	2311530	830	21	0.5	0.4"	20.1	20.1	R.D
1-21-22	9:30 Am	2312350	820	21	0.4	0	20.1	60.1	R.D
1-24-22	9:30Am	2314360	2010	24	0.7	0	20.1	20.1	R.D
1-25-22	9:30 Am	2314920	560	27	0.6	0	1 20.1	60.1	R.D
1-26-22	9:30 Am	2315440	520	27	0.7	0	60.1	20.1	RJ
1-27-22	9:30 AM	2315910	470	27	0.5	0	20.1	20.1	RD
1-28-22	9:30 AM	2316350	440	27	0.6	0	20.1	20.1	R.D
1-31-27	9:30 Am	2318320	1970	29	0.8	snow mett	40.1	20.1	RD
2-1-22	9:30 An	2318730	410	29	0.7	0	20.1	20.1	RD

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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	INTIALS
12-13-21	9.30 AM	2286420	900	39	0.9	0.25 "	40.1	20.1	R.P
12-14-21	9:30 AM	2286710	290	39	1.0	0	20.1	20.1	R.D
12=15-21	9:30 AM	2286980	270	34	0.8	0	60.1	20.1	RD
12-16-21	9:30 Am	2287230	250	34	0.8	0	20.1	20.1	R.D
12-17-21	9:30AM	2287490	260	34	0.9	0	20.1	20.1	RD
12-20-21	9:30 AM	2288320	830	35	09	0	20.1	40.1	R.P
12 -21-21	9:30 AM	2288650	330	35	0.8	O	20.1	20.1	R.D
12-22-21	9:30AM	2288910	260	35	10	0.3"	20.1	20.1	R.D
12-23-21	9:30 AM	2289200	290	35	0.9	0	20.1	40.1	RD
				- 202	2 —				I
1-3-22	9:30 AM	2297150	7950	22	0.8	1.4"	20.1	60.1	R.D
1-4-22	9:30 Am	2299040	1890	20	0.8	0	20.1	20.1	R.D
1-5-22	9:30 AN	2300 640	1600	18	0.9	0.2"	20.1	20.1	R.D
1-6-22	9-30 AA	2301730	1090	22	1.0	0.3"	20.1	40.1	R.0
1-7.22	91:30 AM	2302240	510	27	1.2	5000-merr 0.7"	20.1	20.1	R.D
1-10-22	9 30 Am	2303590	1350	23	6.7	0	201	20.1	R.D

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## APPENDIX C FIELD DATA SHEETS

GZA GeoEnvironment 95 Glastonbury Blvd., 3 Glastonbury, CT 06033 Phone: (860) 286-8900	3rd floor 1		Project Name: Location:	2		Superior Platin thport, Connec			Date:         5-5-2022         Page         1         of         1           File No.         05.0043459.00         0
Air Temperature (°F):	60s			SAM	IPLING EQUIF	MENT			PID: Calibration Standard: Source lamp:
Weather Conditions:	Sunny		Sample Met	hod/Device:	I	Hand Auger			Calibration Standard: Source lamp: Instrument Reading (start):
veatier conditions.	Sunny		Grab	Hand Auger		Core/Borer	Dredge	 Other	Instrument Reading (finish):
Sample ID	Time	Water Depth (ft.)	Sample Depth (ft.below ground)	OVM Reading	Odor	Moisture Content	Organic Content	Outer	Sample Description
SPC-SED-1/DUP	1005	4	0-0.5	NM	Sl. Org / Sl. Petro	High	Med	Dense, g	grey, MUCK, some Organics, trace Gravel
SPC-SED-2	1035	3	0-0.5	NM	Sl. Sulfur	High	Med	Brow, M	IUCK, 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 bro Silt	own, fine to coarse SAND and GRAVEL, some Organics, litt
SPC-SED-5	1220	6	0-0.5	NM	Org.	Med.	High	Brown,	PEATY MUCK, trace Gravel
SITE SKETCH: Field Duplicate SPC-SED-5 is N									
	SOIL CONDITIO	DNS		DEN	ISITY	1	ABBREVIATIO	NS	ORGANIC MATERIALS
	Too fine to see. est visible particles.	LITTLE (L.)	0-10% 10-20%	Sand V. Loose	V. Soft	V - Very GR - Gray	F - Fine M - Medium		Organic Silt: Dark gray to black, light weight, often H2S odor. Humus: Decomposed root/twig/leaf litter - forest areas.

C - Coarse

F/M - Fine to Medium

F/C - Fine to Coarse

Root Mat:

Peat:

Living root fiber structures, found in marshes.

Note: e.g. logs, branches, roots, shells, black streaks, H2S odor.

Fossiliferous root mat - decomposed fiber structure.

BN - Brown

YEL - Yellow

RD - Red

1/64"-1/16" (granular sugar). SOME (S.)

1/4"-3/4" (pea to grape).

1/6"-1/4" (rock salt). AND

20-35%

35-50%

Loose

Dense

M. Dense

Soft

Stiff

M. Stiff

Med. Sand

Fine gravel

C. Sand

GZA GeoEnvironn					PRO	<u>DJECT</u>			Date:		5-5-2022 Page 1 of 1
95 Glastonbury Blv		loor	Project Nan			Superior			File No.		05.0043459.00
Glastonbury, CT 0	6033		Project Loc	ation:		Southport, 0	Connecticu	ıt	GZA Staff	/Sampler: MSN	W & SHS
Phone: (860) 286-	8900	_									
GZA Staff:	MSNW	P. CUC	Sample Dev	.i.a.a.	Sample M Bomb	lethod/Device			Surface W	ator Dodu	Mill River
Weather:	60s Sun		Grab		Kemmerer	Trap Bot	tle	Other	Surface w	aler bouy	Mill River
			1			Water Qual	ity Meter (	Calibration Data			
H Meter: Model	i i i i i i i i i i i i i i i i i i i	YSI 556A	4	Reading:		pH 4: 4.01	/	pH 7: 7.00	/	pH 10: 10.00	1
Spec. Con. Model:		YSI 556A	A	Standard So	olution:	1000		Reading: (start	t)	1000	(finish)
DO: Model		YSI 556A		Standard Sc		100%		Reading: (start		100%	(finish)
Furbidity: Model		Micro TI		Standard So	olution:	1000/10/0.02	50	Reading: (star	t)	Calibrated	(finish)
Sample ID	Time	Water Depth	Sample	Turbidity	pН	S.C.	DO	Temp.	Sal	ORP	
Sample ID	Time	(ft.)	Depth (ft.)	(ntu)	(su)	(uS)	(mg/L)	(C)	Sai	OKP	
*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

				SEDIM	ENT SA	MPLE F	IELD LO	DG		
GZA GeoEnvironmenta 95 Glastonbury Blvd., 3 Glastonbury, CT 06033 Phone: (860) 286-8900	3rd floor		Project Name: Location:			ior Plating port, CT		-	Date:9/8/2022PageFile No.43459GZA Staff/Sampler:SHS & MSNW	of
Air Temperature (°F):	80s			SAM	PLING EQUI				PID: Calibration Standard: Source lamp:	
Weather Conditions:	Clear		Sample Meth	nod/Device:		Hand Auger		_	Instrument Reading (start):	
			Grab	Hand Auger	Hand	Core/Borer	Dredge	Other	Instrument Reading (finish):	
Sample ID	Time	Water Depth (ft.)	Sample Depth (ff.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, M	IUCK, some fine to coarse Gravel, trace Organics	
SPC-SED-2	1035	4.5	0-0.5	NM	Org/Sulfur	High	Med.	Brown, M	IUCK 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, fir	ne to coarse SAND and GRAVEL, little Muck, trace Or	ganic
SPC-SED-5	1220	6.5	0-0.5	NM	None	Medium	High	Brown, PI	EATY MUCK, trace fine to medium Gravel	
SITE SKETCH: Field duplicate of SPC-SED-5 is N										
	SOIL CONDITIO	ONS		DEN	SITY		ABBREVIATIO	NS	ORGANIC MATERIALS	
Med. Sand 1/64"-1/1 C. Sand 1	Too fine to see. est visible particles. 16" (granular sugar). 1/6"-1/4" (rock salt). -3/4" (pea to grape).	TRACE (TR.) LITTLE (L.) SOME (S.)	0-10% 10-20% 20-35% 35-50%	Sand V. Loose Loose M. Dense	Silt/Clay V. Soft Soft M. Stiff Stiff	V - Very GR - Gray BN - Brown YEL - Yellow RD - Red	F - Fine M - Medium C - Coarse F/M - Fine to Me F/C - Fine to Coa	edium	Organic Silt:       Dark gray to black, light weight, often H2S odor.         Humus:       Decomposed root/twig/leaf litter - forest areas.         Root Mat:       Living root fiber structures, found in marshes.         Peat:       Fossiliferous root mat - decomposed fiber structure.         Note: e.g. logs, branches, roots, shells, black streaks, H2S odor.	

GZA GeoEnvironn 95 Glastonbury Blv	ter service a service		Project Nan	ne:	PRO	<u>OJECT</u> Superior	r Plating		Date: File No.		9/8/2022 Page 1 of 1 05.0043459.00
Glastonbury, CT 0 Phone: (860) 286-3			Project Loca	ation:		Southp	ort, CT		GZA Staff/S	Sampler: SHS/	MSNW
none: (000) 200					Sample M	lethod/Device					
GZA Staff:	80s		Sample Dev			Bomb			Surface Wat	ter Body	Mill River
Weather:	Clear		Grab	Bomb	Kemmerer	Trap Bot	tle	Other			
							ity Meter (	Calibration Da			
oH Meter: Model:		YSI 556A		Reading:	. luci	pH 4: 4.0 /	/	pH 7: 7.0		oH 10: 10.0 1000	/ (f=:-1)
Spec. Con. Model: DO: Model:		YSI 556A YSI 556A		Standard So Standard So		1000		Reading: (sta Reading: (sta		1000	(finish) (finish)
								Reading: (sta		Calibrated	(finish)
Sample ID	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

の日の代の目的		Start Start		WATER	LEVE	L MEA	WATER LEVEL MEASUREMENT LOG									
655 Wind	Environmental, I ling Brook Dr, Su ury, CT 06033		Project Name	8:	PRC Superior Pla	DJECT ating				Date: File No.	3/17/2022 Page 1 of 43459.0					
	860) 286-8900		Location:	S	outhport, Cor	meeticut				GZA Staff/Sampler	2112					
			Location.	M	IEASURING	G EQUIPME	INT			Abbreviations:						
Air Tempe	rature (°F): 50s		-						1	PVC = Top of PVC well riser.						
Weather C	onditions: Fogg	<u>sy</u>	Measuring			Electric Tape			Stl = Top of steel well casing/protec							
		Depth to	FiberglassTap Total Depth		Electric Tape DNAPL	LNAPL	Interface Correct.	Meter	Grnd = Relative to ground surface.							
Time	Well/Stream	Water	of Well	Datum	Thickness		Factor		Comment	s/Well Condition						
	Gauge I.D.	(ft)	(ft)	PVC/Stl/Grnd	(ft)	(ft)	(ft)			_						
	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	s drv							
	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								1						
	MW-13	7.18					5			-						
	CW-8	53.00						Sound								
	MW-2	15.99														

			A Standard	WATER	LEVE	L MEA	SURE	MENT	LOG				
655 Wine	DEnvironmental, I ding Brook Dr, Su oury, CT 06033		Project Nam	e:	PRO Superior Pla	DJECT ating			<u> </u>	Date: File No.	3/17/2022 Page 2 of 2 43459.02		
	860) 286-8900		Location:	S	outhport, Con	inecticut				GZA Staff/Sampler SHS			
Air Tompe	erature (°F): 50s			N	IEASURING	3 EQUIPME	ENT			Abbreviations: PVC = Top of PVC well riser.			
Weather C		ev	Measurin	g Device:		Electric Tape				Stl = Top of steel well casing/protector.			
	<u></u>	57	FiberglassTap		Electric Tape		Interface	Meter		Grnd = Relative to			
Time	Well/Stream Gauge I.D.	Depth to Water (ft)	Total Depth of Well (ft)	Measmnt. Datum PVC/Stl/Grnd	9033	LNAPL Thickness (ft)	Correct. Factor (ft)		Comme	nts/Well Condition	on		
	RW-1	7.46											
	OB-8		10.04					Dry					
	CW-12	10.77											
	MW-4	9.12											
	MW-18-13	8.47											
	MW-12	10.40											
	MW-19-19	10.68											
	MW-20-19	10.58											
	MW-21-19	11.35											

#### GROUNDWATER SAMPLING DATA SHEET

 Well ID:
 CW-12

 Sample Date:
 3/17/2022

PROJECT INFORMATI	The file state of the second second		Superior Platir	g	Location	Sou	hport, CT	File No.	43	459
WATER LEVEL OBSER Reference Point of Measure Well Completion: Difference Between PVC a Well Screened Interval (fbg HACH Kit Type	ment: PVC Ri Stand Pipe and Casing Top (fe	Road Bo	Measurement I ceel Casing □ x ☑		Reference E Ground Elev Difference i	vation (feet) n Elevation (f vation - Ground I	eet):	Collector Initia	ls:	<u>MAN</u>
			om Ref. Point	Depth Below	Ground	(Reference P	oint Measurement -	Difference in Ele	vation)	
Total Length of Well (feet): Depth to Water (feet): Standing Water in Well (fee		- 1	0.72 0.72 1.31				d Sampled Volum rs by 0.2642 to ge	State of the second sec	] gallons or	🖌 liters
Well Condition: Protective Well head vapors: VOCs (			Yes / No; Expa ppmv	nsion Cap - <u>Y</u> Methane (FID		D - <u>Yes / No</u>	Concrete Collar _ppmv		l - <u>poor / good</u>	_ppmv
Sample Method: Bail [ Pump Type: Electr	] Grab 🗌 ic Submersible		Low Flow 🗹 Peristaltic 🗹		d: Bail [ Bladder Pu		☑ Flow-Thru C Other: □	ell Vol: (460m)	L) 🗹 Other	:: 🗆 _250 mL
CALIBRATION DATA: Specific Conductance: pH (s.u.): DO (mg/L): Turbidity (NTU): ORP (mvolts:)	Instrument Moo Instrument Moo Instrument Moo Instrument Moo Instrument Moo	lel: lel: lel:	YSI 556 YSI 556 YSI 556 Micro TPI YSI 556	Standard Solu Reading: Standard Solu Standard Solu Standard Solu	pH 4: ation: ation:	1000 4/4 100% 1000/10/0.0 238	Reading (start) pH 7: Reading (start) 2 Reading (start) Reading (start)	7/7 100.10% 1000/10/0.02	(finish) pH 10: (finish) (finish)	10/10
INSTRUMENT MEASU	REMENTS:									
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 **If ORP is negative an				er than 10 mg/	L; recalibrate	and/or clean	instrument. If pe	rsistent call PM.	2 1	
SAMPLING INFORMA	<u>FION</u> San	nple Depth: (below)	~59' grade or ref		ample Time	: 1340	_	Sample ID:	CW-12 & C	W-12 Filtered
Analysis Hex Chrom & Sulfate	Method		No. Bottles		Type stic	Vol. 125 mL	Preservation		Handling Cooler/Ice	
Total Chrom, Nickel, + Iro	n		1	2007	stic	250 mL	HNO3		Cooler/Ice	
Field Filtered Hex Chrome			1		stic	125 mL			Cooler/Ice	
Field Filtered Total Chrom			1	Pla	stic	250 mL	HNO3		Cooler/Ice	
NOTES/OBSERVATION	IS:									
Color: Orange Particles	Odor:	N/A	Product Thicki	iess*:	N/A		Well Condition		Good	

#### GROUNDWATER SAMPLING DATA SHEET

 Well ID:
 MW-1

 Sample Date:
 3/17/2022

PROJECT INFORMATI	ON Project Name: _		Superior Platin	ıg	Location	Sou	ithport, CT	File No.	4:	1459
WATER LEVEL OBSER Reference Point of Measure Well Completion: Difference Between PVC ar Well Screened Interval (fbg HACH Kit Type	ement: PVC Ria Stand Pipe and Casing Top (fe	Road Bo		Ground 🔲	3/17/2022         Reference Elevation (feet)         Ground Elevation (feet)         Difference in Elevation (feet):         (Reference Elevation - Ground Elevation)         Other Field Method			Collector Initia	ls:	<u>MAN</u>
Total Length of Well (feet): Depth to Water (feet): Standing Water in Well (fee Well Condition: Protective Well head vapors: VOCs (l	et): Casing - <u>poor / g</u>	00d; Lock -	om Ref. Point 11.45 7.26 4.19 • <u>Yes / No;</u> Expa ppmv	7. 4.	.75 56 19 <u>es/No;</u> Well I	` Total Purge Multiply lit	oint Measurement - ed Sampled Volum ers by 0.2642 to ge g Concrete Collar ppmv	a 2.50 [ et gallons - <u>Yes / No;</u> Well	] gallons or	J liters _ppmv
5	] Grab 🗌 ic Submersible		Low Flow 🗹 Peristaltic 🗹		od: Bail [ Bladder Pu		Flow-Thru C Other:	ell Vol: (460m)	L) 🗹 Othe	r: □ _250 mL
Specific Conductance: pH (s.u.): DO (mg/L): Turbidity (NTU): ORP (mvolts:)	Instrument Mod Instrument Mod Instrument Mod Instrument Mod	lel: lel: lel:	YSI 556 YSI 556 YSI 556 Micro TPI YSI 556	Standard Solu Reading: Standard Solu Standard Solu Standard Solu	pH 4: ition: ition:	1000 4/4 100% 1000/10/0.0 238	Reading (start) pH 7: Reading (start) 2 Reading (start) Reading (start)	1000 7/7 100.10% 1000/10/0.02 238	(finish) pH 10: (finish) (finish)	10/10
INSTRUMENT MEASU	REMENTS:									
Parameters	Static*	1000 <b>1</b> 46-16	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 b **If ORP is negative and		of equipme	nt.		L; recalibrate	and/or clean	instrument. If per	sistent call PM.		1 2.70
SAMPLING INFORMAT	<u>'ION</u> Sam	ple Depth:			ample Time:	1015		Sample ID:	М	W-1
Analysis Hex Chrom	Method		rade or ref. No. Bottles	pt. <u>X</u> ) Bottle Pla		Vol. 125 mL	Preservation		Handling Cooler/Ice	
Total Chrom and Nickel			1	Pla		250 mL	HNO3		Cooler/Ice	
NOTES/OBSERVATION	<u>s:</u>									
Color: Clear	Odor:		Product Thickn (*Call PM if pr		N/A		Well Condition:		Good	

#### GROUNDWATER SAMPLING DATA SHEET

95 Glastonbury Boulevard, Glastonbury, CT 06033	3 Floot							Well ID Sample Date		MW 3/17/202
PROJECT INFORMATI	ON									
	Project Name:		Superior Platin	ng	Location	: Sou	uthport, CT	File No.	43	459
WATER LEVEL OBSER Reference Point of Measur Well Completion: Difference Between PVC a Well Screened Interval (fbg HACH Kit Type	ement: PVC Ri Stand Pipe 🗹 nd Casing Top (fe	Road Bo	Measurement   eel Casing x 1.8	Ground	Reference E Ground Ele Difference i	vation (feet) n Elevation ( vation - Ground	feet):	Collector Initia	lls:	<u>MAN</u>
		Denth fro	om Ref. Point	Depth Below	Ground	(Pafaranga I	oint Measurement -	Difference in Ele	untion)	_
fotal Length of Well (feet)		2	20.25	18	.45	]				
Depth to Water (feet): Standing Water in Well (fe	et):		16.18 4.07		.38 07		ed Sampled Volum ers by 0.2642 to ge	24 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	gallons or	✓ liters
Well Condition: Protective Well head vapors: VOCs (			- <u>Yes / No;</u> Exp. _ppmv	ansion Cap - <u>Y</u> Methane (FII		D - <u>Yes / No</u>	; Concrete Collar ppmv	• <u>Yes / No;</u> Wel Other		_ppmv
Sample Method: Bail [ Pump Type: Electr	] Grab ]] ic Submersible		Low Flow 🗹 Peristaltic 🗹		od: Bail [ Bladder Pu		Flow-Thru Co Other:	ell Vol: (460m	L) 🗹 Other	:: □ _250 mL
CALIBRATION DATA: Specific Conductance: 5H (s.u.): DO (mg/L): Furbidity (NTU): DRP (mvolts:)	Instrument Mod Instrument Mod Instrument Mod Instrument Mod Instrument Mod	lel: lel: lel:	Y81 556 Y81 556 Y81 556 Micro TPI Y81 556	Standard Sol Reading: Standard Sol Standard Sol Standard Sol	pH 4: ation: ation:	1000 4/4 100% 1000/10/0.0 238	Reading (start) pH 7: Reading (start) Reading (start) Reading (start)	7/7 100.10%	(finish) pH 10: (finish) (finish)	10/10
NSTRUMENT MEASU										
Parameters Cime:	Static*	1	2	3	4	5	6	7	8	Stabilized
Depth to Water (ft) below Ref. point drawdown <0.3)	1040	1055	1100	1105						1105
Volume Purged (L)		1.5	2.0	2.5						2.5
urge Rate (ml/min)		100	100	100					-	100
emperature (3%) *F		11.98	12.02	11.98						11.98
Spec. Cond. (3%) (µS)		1,031	1,037	1,037						
Salinity (3%) (mg/L)		0.51	0.51	0.51						1,037
DO (10%) (mg/L)		3.35	3.00	2.97						0.51
oH (+/- 0.1) (s.u.)										2.97
ORP** (+/- 10) (mvolts)		6.56	6.56	6.57						6.57
Furbidity (<5) (10%) (ntu)		215.8	215.7	215.4						215.4
*Static measurement is				0.00						0.00
**If ORP is negative an				er utan 10 mg/	L, recambrate	anu/or crean	instrument. If per	sistent call PM.	5	
SAMPLING INFORMAT	<u>rion</u> Sam	iple Depth: (below		f. pt. <u>X</u> )	ample Time:	1105	_	Sample ID:	M	W-2
Analysis	Method		No. Bottles		е Туре	Vol.	Preservation		Handling	
Hex Chrom & Sulfate Fotal Chrom and Nickel			1	SNG 7	stic	125 mL 250 mL	 HNO3		Cooler/Ice Cooler/Ice	
State and Friends				110	ne sku:	200 HIL	11105		COUNTING	
						_				

#### GROUNDWATER SAMPLING DATA SHEET

MW-4
3/17/2022

PROJECT INFORMATI	The second s		Superior Platin	ng	_ Location	: <u> </u>	uthport, CT	File No.	43	3459
WATER LEVEL OBSER Reference Point of Measure Well Completion: Difference Between PVC at Well Screened Interval (fbg HACH Kit Type	ement: PVC R Stand Pipe nd Casing Top (f	Road Bo	-	t Date/Time: 3/17/2022 Collector Initials: Ground Reference Elevation (feet) Ground Elevation (feet) Difference in Elevation (feet): (Reference Elevation - Ground Elevation) Other Field Method						
		Depth fr	om Ref. Point	Depth Below	Ground	(Reference	Point Measurement -	Difference in Ele	vation)	
Total Length of Well (feet): Depth to Water (feet): Standing Water in Well (feet)			9.16			-	ed Sampled Volum ters by 0.2642 to ge	30	] gallons or	✓ liters
Well Condition: Protective Well head vapors: VOCs ()		good; Lock	- <u>Yes / No;</u> Expa _ppmv	ansion Cap - <u>Y</u> Methane (FII		ID - <u>Yes / N</u> e	o; Concrete Collar ppmv		- poor / good	_ppmv
Pump Type: Electr	] Grab 🗌 ic Submersible		Low Flow 🗹 Peristaltic 🗹		od: Bail [ Bladder Pu		✓ Flow-Thru C Other: □	ell Vol: (460m)		r: 🔲 _250 mL
CALIBRATION DATA: Specific Conductance: pH (s.u.): DO (mg/L): Turbidity (NTU): ORP (mvolts:)	Instrument Mo Instrument Mo Instrument Mo Instrument Mo	del: del: del:	YSI 556 YSI 556 YSI 556 Micro TPI YSI 556	Standard Soh Reading: Standard Soh Standard Soh Standard Soh	pH 4: ition: ition:	1000 4/4 100% 1000/10/0. 238	Reading (start) pH 7: Reading (start) 02 Reading (start) Reading (start)	7/7 100.10% 1000/10/0.02	(finish) pH 10: (finish) (finish)	10/10
INSTRUMENT MEASUR	REMENTS:									
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)		14.04.00 C								0.21
DO (10%) (mg/L)		0.21	0.21	0.21						trianale
pH (+/- 0.1) (s.u.)		4.94	4.96	4.90						4.90
ORP** (+/- 10) (mvolts)		6.51	6.45	6.42						6.42
Turbidity (<5) (10%) (ntu)		165.5	161.2	162.0						162.0
*Static measurement is b **If ORP is negative and				3.17 er than 10 mg/	L; recalibrate	and/or clear	instrument. If per	sistent call PM.		3.17
SAMPLING INFORMAT		nple Depth:	~9.5'	s	ample Time:		_	Sample ID:	М	W-4
Analysis Hex Chrom	Method	(below g	grade <u>or ref.</u> No. Bottles 1	pt. <u>X</u> ) Bottle Pla		Vol. 125 mL	Preservation		Handling Cooler/Ice	
Total Chrom and Nickel			1	Pla	stic	250 mL	HNO3		Cooler/Ice	
NOTES/OBSERVATION			B. d. and t.						Cont	
Color: Clear	Odor:	N/A	Product Thickn (*Call PM if pr		N/A		Well Condition:		Good	

GZA GeoEnvironmental, Inc. 95 Glastonbury Boulevard, 3 Floot

#### GROUNDWATER SAMPLING DATA SHEET

95 Glastonbury Boulevard, Glastonbury, CT 06033	3 Floot				MW-5 3/18/2022					
PROJECT INFORMAT			Superior Plati	no	Location	- Sou	thnort CT	File No.	43	2450
	Floject Name.		Superior Platin	ng	_ Location	:	проп, СТ	- File No.	43	3459
WATER LEVEL OBSEH Reference Point of Measur Well Completion: Difference Between PVC a Well Screened Interval (fbg HACH Kit Type	ement: PVC R Stand Pipe and Casing Top (f	Road Bo	Measurement   eel Casing		Ground Ele Difference i	levation (fee vation (feet) n Elevation ( vation - Ground	feet):	Collector Initia	ls:	
		Depth fro	om Ref. Point	Depth Below	Ground	(Reference F	oint Measurement -	Difference in Fle	vation)	
Total Length of Well (feet)			18.48	Depuil Delow	Cround		onn weasarement -			
Depth to Water (feet): Standing Water in Well (fe	et):		1.36		_		d Sampled Volum ers by 0.2642 to go		gallons or	✓ liters
Well Condition: Protective Well head vapors: VOCs (	Casing - poor / p			ansion Cap - <u>Y</u> Methane (FII		- 15 B	; Concrete Collar	Yes / No; Well	- <u>poor / good</u>	_ppmv
Sample Method: Bail [ Pump Type: Elect:	☐ Grab ☐ ric Submersible	2011-10-10-10-10-10-10-10-10-10-10-10-10-	Low Flow 🗹 Peristaltic 🔽		od: Bail [ Bladder Pu		✓ Flow-Thru C Other: □	ell Vol: (460m)	L) 🔽 Other	r: 🗖 _250 mL
CALIBRATION DATA: Specific Conductance: pH (s.u.): DO (mg/L): Turbidity (NTU): ORP (mvolts:)	Instrument Mo Instrument Mo Instrument Mo Instrument Mo Instrument Mo	del: del: del:	YSI 556 YSI 556 YSI 556 Micro TPI YSI 556	Standard Solu Reading: Standard Solu Standard Solu Standard Solu	pH 4: ition: ition:	1000 4/4 100% 1000/10/0.0 238	Reading (start) pH 7: Reading (start) 22 Reading (start) Reading (start)	7/7 100.00% 1000/10/0.2	(finish) pH 10: (finish) (finish)	10/10
INSTRUMENT MEASU	REMENTS:							M		
Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:	0905	0920	0925							0925
Depth to Water (ft)	0905	0920	0923							0923
below Ref. point (drawdown <0.3)	17.12	17.56	18.40							10.40
Volume Purged (L)										18.40
Purge Rate (ml/min)		1.5	2.0							2.0
Temperature (3%) °F		100	100							100
•		15.15	15.05							15.05
Spec. Cond. (3%) (µS)		1,066	1,072				-			1,072
Salinity (3%) (mg/L)		0.53	0.53							0.53
DO (10%) (mg/L)		3.26	4.86							4.86
pH (+/- 0.1) (s.u.)		5.75	5.76							5.76
ORP** (+/- 10) (mvolts)		240.8	224.8							224.8
Turbidity (<5) (10%) (ntu)		3.48	2.29							2.29
*Static measurement is **If ORP is negative an		n of equipme	nt.	er than 10 mg/	L; recalibrate	and/or clean	instrument. If per	sistent call PM.		
SAMPLING INFORMAT	FION Sau	nnla Dantha	19.21	-	amula Tima	0053		Comula ID:	M	W-5
SAMI LEVO INFORMA	<u>IION</u> San	(below §	~18.2' grade or ref.	pt. <u>X</u> )	ample Time:	0952	-	Sample ID:		w-5
Analysis	Method		No. Bottles		Туре	Vol.	Preservation		Handling	
Hex Chrom Total Chrom and Nickel			1	Pla Pla	stic stic	125 mL 250 mL	 HNO3		Cooler/Ice Cooler/Ice	
							an an an Alf Af			
Dry @ 0925, grab sample o										
NOTES/OBSERVATION	IS:									
Color: Light Yellow	Odor:	None	Product Thickr (*Call PM if pr		N/A		Well Condition:		Good	

GZA GeoEnvironmental, la 95 Glastonbury Boulevard, Glastonbury, CT 06033			GROUND	WATER SA	MPLING	DATA SH	EET	Well ID: Sample Date:		MW-10 3/18/2022
PROJECT INFORMATI	ION									
W1	Project Name:		Superior Plat	ing	Location	1: <u>Sot</u>	thport, CT	File No.	4.	3459
WATER LEVEL OBSER Reference Point of Measur Well Completion: Difference Between PVC a Well Screened Interval (fbg HACH Kit Type	ement: PVC Ri Stand Pipe and Casing Top (fo	Road Bo		Ground	Reference I Ground Ele Difference	vation (feet) in Elevation ( evation - Ground	feet):	Collector Initial	755	MAN
				Depth Below		(Reference I	oint Measurement	- Difference in Elev	ration)	
Total Length of Well (feet) Depth to Water (feet):	:		39.50 16.75		5.97	Total Purge	d Sampled Volu	n 2.50 🗆	gallons or	✓ liters
Standing Water in Well (fe	et):	1	22.75	22		- 7:	ers by 0.2642 to g		U	
Well Condition: Protective Well head vapors: VOCs (		ood; Lock	- <u>Yes / No;</u> Ex _ppmv	pansion Cap - <u>Y</u> Methane (FII		ID - <u>Yes / No</u>	; Concrete Collar ppmv		- poor / good	
Sample Method: Bail [ Pump Type: Elect	☐ Grab ☐ ric Submersible	- the state of the state of the	Low Flow Peristaltic		od: Bail [ Bladder P		Flow-Thru C Other:	Cell Vol: (460mI	.) 🗹 Othe	r: 🗖 _250 mL
CALIBRATION DATA:						1000		1000		
Specific Conductance: pH (s.u.):	Instrument Moo Instrument Moo		YSI 556 YSI 556	Standard Sol Reading:	pH 4:	4/4	Reading (start) pH 7:	7/7	(finish) pH 10:	10/10
DO (mg/L):	Instrument Mod		YSI 556	Standard Sol		100%	Reading (start)		(finish)	
Turbidity (NTU): ORP (mvolts:)	Instrument Moo Instrument Moo		Micro TPI YSI 556	Standard Sol		238	2 Reading (start) Reading (start)		(finish)	
INSTRUMENT MEASU	DEMENTS:									
INSTRUMENT MEASU	Static*	1	2	3	4	5	6	7	8	Stabilized
Parameters Time:	0905	1005	1010	1015					0	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)			5000	63	-					63
Salinity (3%) (mg/L)		65 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 **If ORP is negative an				ter than 10 mg/	L; recalibrate	e and/or clean	instrument. If pe	ersistent call PM.		
SAMPLING INFORMA	<u>FION</u> Sau	nple Depth: (below g	~23 grade or re	<u>f.</u> pt. <u>X</u> )	ample Time	: 1015	-	Sample ID:		W-10 /MSD
Analysis	Method		No. Bottles	Bottle	е Туре	Vol.	Preservation		Handling	
Hex Chrom			3	Pla	stic	125 mL			Cooler/Ice	
Total Chrom and Nickel			3	Pla	stic	250 mL	HNO3		Cooler/Ice	

### NOTES/OBSERVATIONS:

62.1		171	
Col	OT:	CI	ear

Product Thickness\*: (\*Call PM if present)

Odor: None

Well Condition:

Good

GZA 95 G Glas

GZA GeoEnvironmental, Ir 95 Glastonbury Boulevard, Glastonbury, CT 06033			GROUNDW	VATER SA	Well ID: Sample Date:	MW-11 3/17/2022				
PROJECT INFORMATI			Superior Platin	ıg	Location	:Sou	thport, CT	File No.	43	3459
WATER LEVEL OBSER Reference Point of Measure Well Completion: Difference Between PVC as Well Screened Interval (fbg HACH Kit Type	ement: PVC Ri Stand Pipe nd Casing Top (fe	Road Bo	Measurement E teel Casing. □ x ✓		Reference E Ground Elev Difference i	vation (feet) n Elevation ( vation - Ground	feet):	Collector Initia	ls:	SHS
Total Length of Well (feet):			om Ref. Point 28.20 18.61	Depth Below	Ground	]	oint Measurement			
Depth to Water (feet): Standing Water in Well (fee	et):		9.59				d Sampled Volun ers by 0.2642 to g		gallons or	✓ liters
Well Condition: Protective Well head vapors: VOCs (I		good; Lock		unsion Cap - <u>Y</u> Methane (FID		D - <u>Yes / No</u>			- <u>poor / good</u>	
Sample Method: Bail Pump Type: Electr	] Grab 🗌 ic Submersible	-	Low Flow 🗹 Peristaltic 🗹		od: Bail [ Bladder Pu		Flow-Thru C Other:	Cell Vol: (460ml	L) 🗌 Othe	r: ☑ 250 mL
CALIBRATION DATA: Specific Conductance: pH (s.u.): DO (mg/L): Turbidity (NTU): ORP (mvolts:)	Instrument Moo Instrument Moo Instrument Moo Instrument Moo Instrument Moo	del: del: del:	YSI 556 YSI 556 YSI 556 Micro TPI YSI 556	Standard Solu Reading: Standard Solu Standard Solu Standard Solu	pH 4: ation: ation:	1000 4.00 100% 1000/10/0.0 238	Reading (start) pH 7: Reading (start) 2 Reading (start) Reading (start)	7.00 100.10% calibrated	(finish) pH 10: (finish) (finish)	10.00
INSTRUMENT MEASU	REMENTS:									
Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time: Depth to Water (ft) below Ref. point (drawdown <0.3)	1245	1300	1305	1310						1310
Volume Purged (L)	10.01			0.0196						1
Purge Rate (ml/min)		1.5	2.0	2.5						2.5
Temperature (3%) °F		100	100	100						100
Spec. Cond. (3%) (µS)		13.6 6,353	13.7 6,349	13.7 6,342						13.7
Salinity (3%) (mg/L)										6,342
DO (10%) (mg/L)		3.48	3.45	3.42			-			3.42
pH (+/- 0.1) (s.u.)		0.59	0.60	0.59						0.59
ORP** (+/- 10) (mvolts)		5.92	5.91	5.90						5.90
Turbidity (<5) (10%) (ntu)		4.41	0.00	0.00						0.00
*Static measurement is **If ORP is negative and		n of equipme	ent.		L: recalibrate	and/or clean	instrument. If pe	rsistent call PM.		0.00
SAMPLING INFORMAT	Market Market	nple Depth:	20.8027	s	ample Time		-	Sample ID:		W-11
Analysis Hex Chrom & Sulfate	Method	<u>,</u>	No. Bottles	Bottle	Type stic	Vol. 125 mL	Preservation		Handling Cooler/Ice	
Total Chrom, Nickel, and I	ron		1	Pla	stic	250 mL	IINO3		Cooler/Ice	

### NOTES/OBSERVATIONS:

Color:	Yellow
COIDI.	I CHOW

Product Thickness\*: (\*Call PM if present) Odor: None

N/A

Well Condition:

Good

## GROUNDWATER SAMPLING DATA SHEET

95 Glastonbury Boulevard, Glastonbury, CT 06033	3 Floot							Sample Date:		3/17/2022
PROJECT INFORMATI	I <mark>ON</mark> Project Name:		Superior Platin	Ig	Location	: Sou	uthport, CT	File No.	43	459
WATER LEVEL OBSER Reference Point of Measure Well Completion: Difference Between PVC a Well Screened Interval (fbg HACH Kit Type	ement: PVC Ri Stand Pipe nd Casing Top (fo	Road Bo	Measurement E eel Casing x 🔽		Reference E Ground Elev Difference i	vation (feet) n Elevation ( vation - Ground	(feet):	Collector Initial	ls:	
Total Length of Well (feet) Depth to Water (feet): Standing Water in Well (fee Well Condition: Protective Well head vapors: VOCs (	et): e Casing - <u>poor / g</u>	1 1 200d; Lock -	om Ref. Point 2.47 0.34 2.13 • <u>Yes / No;</u> Expa ppmv	Depth Below nsion Cap - Y Methane (FII	′ <u>es/No;</u> Well I	Total Purge Multiply lit		ue 2.5 et gallons - <u>Yes / No;</u> Well	gallons or	✓ liters _ppmv
승규는 것을 가지 않는 것을 가지 않는 것을 많이 같이 없는 것이 같이 다 가지 않는 것을 수 있다.	Grab 🗌 ric Submersible		Low Flow 🗹 Peristaltic 🔽		od: Bail [ Bladder Pu		☑ Flow-Thru C Other: □	ell Vol: (460mI	L) 🗹 Other	r: □ _250 mL
Specific Conductance: pH (s.u.): DO (mg/L): Turbidity (NTU): ORP (mvolts:)	Instrument Moo Instrument Moo Instrument Moo Instrument Moo Instrument Moo	lel: lel: lel:	YSI 556 YSI 556 YSI 556 Micro TPI YSI 556	Standard Solo Reading: Standard Solo Standard Solo Standard Solo	pH 4: ution: ution:	1000 4/4 100% 1000/10/0. 238	Reading (start) pH 7: Reading (start) 22 Reading (start) Reading (start)	7/7 100.10%	(finish) pH 10: (finish) (finish)	10/10
INSTRUMENT MEASU	REMENTS:									
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) *Static measurement is 1	hafana installation	1.45	0.44	0.19						0.19
**If ORP is negative and				er than 10 mg/	L; recalibrate	and/or clean	instrument. If pe	rsistent call PM.		
SAMPLING INFORMAT	<u>FION</u> San	ple Depth: (below g	~12 rade or ref.		ample Time:	1415	_	Sample ID:	MV	W-12
Analysis	Method		No. Bottles		Туре	Vol.	Preservation		Handling	
Hex Chrom Total Chrom and Nickel			1		stic	125 mL 250 mL	 HNO3		Cooler/Ice Cooler/Ice	
				- 10						
NOTES/OBSERVATION	<u> S:</u>									
Color: Clear	Odor:	None	Product Thickne	ess*:	N/A		Well Condition		Good	

Color: Clear

### GROUNDWATER SAMPLING DATA SHEET

95 Glastonbury Boulevard, Glastonbury, CT 06033	3 Floot							Well ID: Sample Date:		MW-1 3/17/202
PROJECT INFORMATI	I <mark>ON</mark> Project Name:	2.	Superior Plating	5	Location	:: Sou	thport, CT	File No.	43	459
WATER LEVEL OBSEF Reference Point of Measur Well Completion: Difference Between PVC a Well Screened Interval (fbg HACH Kit Type	ement: PVC Ri Stand Pipe nd Casing Top (fi	iser ☑ Ste Road Bo	Measurement Da eel Casing x 🗹 0.32		Reference H Ground Ele Difference	7/2022 Elevation (feet) in Elevation ( evation - Ground ethod	fe <u>et):</u>	Collector Initial		MAN
Fotal Length of Well (feet) Depth to Water (feet): Standing Water in Well (fe Well Condition: Protective Well head vapors: VOCs (	et): : Casing - <u>poor / s</u>	2000; Lock -		9.1 7.1 2.1	72 50 22 <u>es/<b>No</b>;</u> Well	Total Purge Multiply lite		e 5.0 🗌 et gallons - <u>Yes / No;</u> Well	gallons or	☑ liters _ppmv
Sample Method: Bail [ Pump Type: Elect:	Grab 🗌 Grab 🗍	Contract Contract Contract	Low Flow 🗹 Peristaltic 🔽	Purge Metho	od: Bail [ Bladder Po		✓ Flow-Thru C Other: □	ell Vol: (460mL	) 🗹 Other	:: □ _250 mL
CALIBRATION DATA: Specific Conductance: pH (s.u.): DO (mg/L): Turbidity (NTU): ORP (mvolts:)	Instrument Moo Instrument Moo Instrument Moo Instrument Moo Instrument Moo	del: del: del:	YSI 556 YSI 556 Micro TPI	Standard Solv Reading: Standard Solv Standard Solv Standard Solv	pH 4: ition: ition:	1000 4/4 100% 1000/10/0.0 238	Reading (start) pH 7: Reading (start) Reading (start) Reading (start)	1000 7/7 100.10% 1000/10/0.02 238	(finish) pH 10: (finish) (finish)	10/10
INSTRUMENT MEASU	REMENTS:									
Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time: Depth to Water (ft) Delow Ref. point	0805	0820	0830	0840	0845	0850	0855			0855
drawdown <0.3) Volume Purged (L)	7.18	7.67	2.5	3.5	7.96 4.0	4.5	5.0			8.18
Purge Rate (ml/min)		100	100	100	100	100	100			5.0
Cemperature (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
oH (+/- 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
Furbidity (<5) (10%) (ntu)		19.33	14.16	5.26	4.56	3.27	3.09			3.09
*Static measurement is **If ORP is negative an				than 10 mg/l	L; recalibrate	e and/or clean	instrument. If per	sistent call PM.		
SAMPLING INFORMA	<u>FION</u> San	nple Depth: (below g		Si ot. <u>X</u> )	ample Time	: 0855	_	Sample ID:	MV	W-13
Analysis Hex Chrom	Method	1	No. Bottles 1	Bottle Pla	Type stic	Vol. 125 mL	Preservation		Handling Cooler/Ice	
Total Chrom and Nickel			1	Pla	stic	250 mL	HNO3		Cooler/Ice	
NOTES/OBSERVATION	<u>:8:</u>									
Color: Clear	Odor:	None	Product Thickne	ss*:	N/A		Well Condition		Good	

Product Thickness\*: (\*Call PM if present)

#### GROUNDWATER SAMPLING DATA SHEET

95 Glastonbury Boulevard, Glastonbury, CT 06033	, 3 Floot							Well ID: Sample Date:		MW-14-0 3/17/202
PROJECT INFORMAT	ION Project Name:		Superior Plat	ing	Location	: Sou	thport, CT	File No.	43	3459
			_				inport, er		-	
WATER LEVEL OBSER Reference Point of Measur		ser 🗹 St	Measurement teel Casing	Date/Time:	-	7/2022 Elevation (feet	)	Collector Initia	ls:	SHS
Vell Completion: Difference Between PVC a Vell Screened Interval (fbg IACH Kit Type	and the second	Road Bo eet):	ж I	=	Difference	vation (feet) in Elevation ( evation - Ground ethod	and the second se			-
		Denth fr	om Ref. Point	Depth Below	Ground	(Reference P	oint Measurement -	Difference in Ele	vation)	
otal Length of Well (feet)	:		34.78	Depui Delow	Ground					-
Depth to Water (feet): tanding Water in Well (fe	et):		20.29 14.49				d Sampled Volun ers by 0.2642 to g		gallons or	✓ liters
Vell Condition: Protective Vell head vapors: VOCs (		<u>ood;</u> Lock	- <u>Yes / No;</u> Exp _ppmv	oansion Cap - <u>Y</u> Methane (FII		ID - <u>Yes / No</u>	; Concrete Collar _ ppmv		l - <u>poor / good</u>	
Sample Method: Bail [ Pump Type: Elect	☐ Grab ☐ ric Submersible		Low Flow Peristaltic		od: Bail [ Bladder Pu		✓ Flow-Thru C Other: □	Cell Vol: (460ml	L) 🗌 Other	r: 🗹 250 mL
CALIBRATION DATA:							_			
Specific Conductance: oH (s.u.):	Instrument Moo Instrument Moo		YSI 556 YSI 556	Standard Solu Reading:	ution: pH 4:	4.00	_Reading (start) pH 7:	1000 7.00	<ul> <li>(finish)</li> <li>pH 10:</li> </ul>	10.00
DO (mg/L):	Instrument Mod	lel:	YSI 556	Standard Solu	ution:	100%	Reading (start)	100.10%	(finish)	-
Furbidity (NTU): ORP (mvolts:)	Instrument Moo Instrument Moo		Micro TPI YSI 556	Standard Solution		238	2 Reading (start) Reading (start)		(finish)	
NSTRUMENT MEASU	REMENTS:									
Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
ime:	1315	1330	1335	1340						1340
Depth to Water (ft) elow Ref. point drawdown <0.3)	20.29	20.40	20.47	20.50						20.50
olume Purged (L)		1.5	2.00	2.50						2.50
Purge Rate (ml/min)		100	100	100					_	100
Cemperature (3%) °F		13.6	13.6	13.6						13.6
Spec. Cond. (3%) (µS)		Maria		1,274	5					1,274
Salinity (3%) (mg/L)		1,265	1,272						-	0.64
DO (10%) (mg/L)		0.64	0.64	0.64						
oH (+/- 0.1) (s.u.)		7.04	7.00	6.97						6.97
ORP** (+/- 10) (mvolts)		5.65	5.65	5.64						5.64
Curbidity (<5) (10%) (ntu)		172.8	177.4	181.2						181.2
*Static measurement is				2.04					I	2.04
**If ORP is negative an	d DO is greater th	an 2 mg/L c	or if DO is grea	ter than 10 mg/	L; recalibrate	and/or clean	instrument. If pe	rsistent call PM.		
AMPLING INFORMA	<u>FION</u> San	ple Depth: (below )		S	ample Time	: 1340	-	Sample ID:	MW-14	-07/DUP
Analysis	Method		No. Bottles	Bottle	: Туре	Vol.	Preservation		Handling	
Hex Chrom			2		stic	125 mL			Cooler/Ice	
Total Chrom and Nickel			2	Pla	stic	250 mL	HNO3		Cooler/Ice	
NOTES/OBSERVATION	(S:									

Color: Light Yellow

Odor: None

N/A

Well Condition:

#### GROUNDWATER SAMPLING DATA SHEET

95 Glastonbury Boulevard, Glastonbury, CT 06033	3 11001							Well ID: Sample Date:		MW-17- 3/17/20
PROJECT INFORMATI	<u>ON</u> Project Name:		Superior Platin	ıg	Location	:So	uthport, CT	File No.	43	459
WATER LEVEL OBSER Reference Point of Measure Well Completion: Difference Between PVC au Well Screened Interval (fbg HACH Kit Type	ment: PVC Ri Stand Pipe nd Casing Top (f	Road Bo	Measurement I cel Casing □ x ☑			vation (feet) n Elevation vation - Ground	(feet):	Collector Initia	is:	SHS
otal Length of Well (feet): Depth to Water (feet): tanding Water in Well (fee	et):	2	om Ref. Point 1.34 4.46 6.88	Depth Below		Total Purg Multiply li	Point Measurement - ed Sampled Volum ters by 0.2642 to ge	ue 3.0 ⊑ et gallons	gallons or	☑ liters
Vell Condition: Protective Vell head vapors: VOCs (I	Casing - <u>poor / s</u> PID/FID)		Yes / No; Expa ppmv	nsion Cap - <u>)</u> Methane (FII		ID - <u>Yes / N</u>		- <u>Yes / No;</u> Well Other	- <u>poor / good</u>	_ppmv
ample Method: Bail Pump Type: Electr	] Grab 🗌 ic Submersible		Low Flow 🗹 Peristaltic 🔽	Construction and the second second	od: Bail [ Bladder Pu		Flow-Thru C Other:	ell Vol: (460ml	.) 🗌 Other	:: ☑ _250 mL
CALIBRATION DATA: specific Conductance: HI (s.u.): OO (mg/L): "urbidity (NTU): ORP (mvolts:)	Instrument Moo Instrument Moo Instrument Moo Instrument Moo	del: del: del:	YSI 556 YSI 556 YSI 556 Micro TPI YSI 556	Standard Sol Reading: Standard Sol Standard Sol Standard Sol	pH 4: ution: ution:	1000 4.00 100% 1000/10/0. 238	Reading (start) pH 7: Reading (start) 02 Reading (start) Reading (start)	1000 7.00 100.10% calibrated 238	(finish) pH 10: (finish) (finish)	10.00
NSTRUMENT MEASUR										1
Parameters ime:	Static*	1	2	3	4	5	6	7	8	Stabilized
epth to Water (ft)	1202	1222	1227	1232						1232
elow Ref. point Irawdown <0.3)	14.46	14.49	14.52	14.58						14.58
olume Purged (L)		2.0	2.50	3.00						3.00
arge Rate (ml/min)		100	100	100						100
emperature (3%) °F		14.40	14.40	14.30						14.30
pec. Cond. (3%) (µS)		932	930							
linity (3%) (mg/L)		0.46	0.46	928						928
O (10%) (mg/L)		7.18	7.12	0.46						0.46
H (+/- 0.1) (s.u.)			Transfer Sector 111							7.08
RP** (+/- 10) (mvolts)		5.92	5.90	5.88						5.88
urbidity (<5) (10%) (nuu)		140.5	141.0	143.4						143.4
*Static measurement is b **If ORP is negative and				0.00	I : recalibrate	and/or clear	instrument. If per	sistent call PM		0.00
AMPLING INFORMAT		ple Depth:	~18	S	ample Time		_	Sample ID:	MW	-17-13
nalysis	Method		rade or ref. No. Bottles	Bottl	е Туре	Vol.	Preservation		Handling	
ex Chrom otal Chrom and Nickel			2	0.0.90	astic astic	125 mL 250 mL	 HNO3	1	Cooler/Ice Cooler/Ice	
OTES/OBSERVATION	5:									
olor: Clear	Odor:	None	Product Thickn	ess*·	N/A		Well Condition		Broken Cap	

#### GROUNDWATER SAMPLING DATA SHEET

Standing Water in Well (feet):       19.32       19.32       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       poor / good         Well head vapors: VOCs (PID/FID)	5 Glastonbury Boulevard, 3 I lastonbury, CT 06033	Floot							Well ID Sample Date	): n	MW-19-1 3/18/202
WATER LIVEL OBSERVATIONS       Measurement Date/Time:       J18/2022       Collector Initials:         Reference Point of Measurement:       PVC Rior       Stated Casing:       Ground III       Reference Elevation (feet)       Ground IIII       Ground IIII       Ground IIIII       Reference Elevation (feet)       Ground IIIII       Ground IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				Superior Plating	ţ	Location:	So	uthport, CT	File No	. 4	3459
Reference Point of Measurement.       PVC Rior       Stand Bog       Ground       Reference Elevation (feet)									-		
Total Lengtor Well (feet):         30.00         30.27           Doght to Werl (feet):         10.68         10.93         Total Purged Sampled Volum         2.50         gallons or         [2]           Samding Water in Well (feet):         19.32         19.32         Multiply liters by 0.2642 to get gallons         .         [2]           Well Condition:         Frotective Casing - poor/geed;         Lock - Yes/No; Expansion Cap - Yes/No; Well D - Yes/No; Well - poor/geed         . </td <td>eference Point of Measurem /ell Completion: S ifference Between PVC and /ell Screened Interval (fbg)</td> <td>ent: PVC Ri Stand Pipe Casing Top (fo</td> <td>Road Bo</td> <td>eel Casing 🔲</td> <td></td> <td>Reference E Ground Elev Difference in (Reference Elev</td> <td>levation (feet) ation (feet) n Elevation ation - Ground</td> <td>(feet):</td> <td>Collector Initi</td> <td>als:</td> <td>MAN</td>	eference Point of Measurem /ell Completion: S ifference Between PVC and /ell Screened Interval (fbg)	ent: PVC Ri Stand Pipe Casing Top (fo	Road Bo	eel Casing 🔲		Reference E Ground Elev Difference in (Reference Elev	levation (feet) ation (feet) n Elevation ation - Ground	(feet):	Collector Initi	als:	MAN
Depth to Water (ficet):         10.68         10.95         Total Purged Sampled Volum         2.50         gallons or         2           Samding Water in Well (feet):         19.32         19.32         Multiply liters by 0.2642 to get gallons         get gat gallons         get			Depth fro	om Ref. Point	Depth Below	Ground	(Reference	Point Measurement	Difference in El	evation)	
Sanding Water in Well (feet):       19.32       19.32       Multiply Iters by 0.2642 to get galons         Well Condition:       Protective Casing - poor/good:       Lock - Yes/Ng: Expansion Cap - Yes/Ng: Well ID - Yes/Ng: Concrete Collar - Yes/Ng: Multiply Iters by 0.2642 to get galons       Pump Other ppmv       Pump         Sample Method:       Bail       Grab       Pump       Low Flow /       Purge Method: Bail       Pump       Iow Flow /       Pump       Iow Flow /       Pump       Flow-Thrue Cell Vol: (460mL) /       Other:       259         CALIBRATION DATA:       Standard Solution:       Bladder Pump /       1000       Reading (ctart)       1000 /       (finish) /         O(mg/L):       Instrument Model: YS1556       Standard Solution:       1000 /       Reading (ctart)       1000 /							Total Pure	ad Samplad Volun	2 50 [		✓ liters
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)       Coller:       238         CALIBRATION DATA:       Specific Conductance:       Instrument Model:       Ysi 556       Standard Solution:       1000       Chins:       1000       (finish)       1000									이야이 이 이야지 않는 것은 것을 가지 않는 것을 했다.	gations of	1 mers
Parame Type:         Electric Submersible         Peristaltic         Bladder Pump         Other:			<u>ood;</u> Lock				D - <u>Yes / N</u>		- <u>Yes / No</u> ; We Othe	ll - <u>poor / <b>200</b>0</u> r	l ppmv
Specific Conductance:       Instrument Model:       YS1556       Standard Solution:       1000       Reading:       pH (s. L):         D0 (my/L):       Instrument Model:       YS1556       Standard Solution:       1000%       Reading (start)       1000.0%       (finish)       pH (s. L):         D0 (my/L):       Instrument Model:       YS1556       Standard Solution:       1000%       Reading (start)       1000.0%       (finish)			and the second		Purge Metho				cell Vol: (460m	1L) 🗹 Othe	r: □ _250 mL
pH (s.u.): DO (ng/L): tnstrument Model:       YS1556 YS1556       Reading: Standard Solution: Micro TPI       pH 4: 100% Standard Solution: 1000/100.02       pH 10: Reading (start)       77/ 100.00% (finish)       pH 10: (finish)         DRP (nrvolts:)       Instrument Model:       Micro TPI       Standard Solution: YS1556       1000/100.02       Reading (start)       1000/100.02       (finish)         INSTRUMENT MEASUREMENTS:       Instrument Model:       YS1556       Standard Solution:       238       Reading (start)       238       (finish)         INSTRUMENT MEASUREMENTS:       Instrument Model:       YS1556       Standard Solution:       238       Reading (start)       238       (finish)         INSTRUMENT MEASUREMENTS:       Instrument Model:       1130       1145       1150       1155       Instrument Model:       PI       PI       238       Reading (start)       238       Reading (start)       238       Reading (start)       238       Reading (start)       238       Instrument Model:       Instrument Model:       Instrument Model:       Instrument Model:       238       Instrument Model:       238       Instrument Model:		nstrument Mor	lel:	YSI 556	Standard Sol	ation:	1000	Reading (start)	1000	(finish)	
Harbidity (NTU): Instrument Model:         Micro TPI Ys1556         Standard Solution:         1000/10/0.02 238         Reading (start)         1000/10/0.2         238         (finish)           INSTRUMENT MEASUREMENTS:         3         4         5         6         7         8         5           INSTRUMENT MEASUREMENTS:         1130         1145         1150         1155				YSI 556	Reading:	pH 4:	4/4	pH 7:	7/7	pH 10:	10/10
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         5           Time:         1130         1145         1150         1155										(finish)	
Parameters         Static*         1         2         3         4         5         6         7         8         5           Time:         1130         1145         1150         1155				and the second s					and the second state of the local day is the second state of the s	(finish)	
Time:       1130       1145       1150       1155       Image: Constraint of the second	NSTRUMENT MEASURE	MENTS:									
Depth to Water (ft) below Ref. point (drawdown -0.3)         11.30         11.33 <t< td=""><td>Parameters</td><td>Static*</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>Stabilized</td></t<>	Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Depth to Water (ft) below Ref. point (drawdown <0.3)         10.68         12.17         12.41         12.69         Image: constraint of the state of the sta	ime:	1130	1145	1150	1155						1155
(drawdown < 0.3)											
Volume Purged (L)         1.5         2.0         2.5         Image: Constraint of the second sec		10.69	12.17	12.41	12.60						12.69
Purge Rate (ml/min)       1.3       2.0       2.3       1.0       1.0       1.0       1.00       100		10.08		· · · · · · · · · · · · · · · · · · ·							
Temperature (3%) *F       100			1.5	2.0	2.5						2.5
Spec. Cond. $(3\%)$ (µS)       19.23       19.24       19.25       19.26       19.25       19.26       19.26       19.25       19.26       1	irge Rate (mi/min)		100	100	100						100
Salinity (3%) (mg/L)       1.06       1.06       1.06       1.06         DO (10%) (mg/L)       0.64       0.64       0.63       1.06       1.06         pH (+/- 0.1) (s.u.)       0.64       0.64       0.63       1.06       1.06         ORP** (+/- 10) (mvolts)       1.56.7       148.4       139.7       1.06       1.06         Turbidity (<5) (10%) (au)	emperature (3%) °F		19.23	19.24	19.24						19.24
DO (10%) (mg/L)       0.64       0.64       0.63       0       0         pH (+/- 0.1) (s.u.)       4.40       4.39       4.40       0       0         DRP** (+/- 10) (mvolts)       156.7       148.4       139.7       0       0         Turbidity (<5) (10%) (nm)	pec. Cond. (3%) (µS)		2,069	2,069	2,067						2,067
and the sector of the secto	alinity (3%) (mg/L)		1.06	1.06	1.06						1.06
oH (+/- 0.1) (s.u.)       4.40       4.39       4.40       Image: constraint of the second secon	O (10%) (mg/L)		0.64	0.64	0.63						0.63
DRP** (+/- 10) (mvolts)       156.7       148.4       139.7       Image: Constraint of the state of the sta	H (+/- 0.1) (s.u.)										4.40
Furbidity (<5) (10%) (ntu)       4.63       3.26       3.14       Image: Constraint of the state of the sta	RP** (+/- 10) (mvolts)										139.7
*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	urbidity (<5) (10%) (ntu)		10/800		and the second				A		
SAMPLING INFORMATION       Sample Depth:27       Sample Time:1155       Sample ID:MW-19-1         (below grade or ref. ptX_)	*Static measurement is bef	ore installation	of equipme	nt.		L : racalibrata	and/or clear	instrument. If pe	reistant call PM		3.14
(below grade or ref. pt)       Analysis     Method     No. Bottles     Bottle Type     Vol.     Preservation     Handling       Hex Chrom and Sulfate     1     Plastic     125 mL      Cooler/Ice				- and the second				rinstrument. If pe		100000	10.10
Hex Chrom and Sulfate 1 Plastic 125 mL Cooler/Ice	AMPLING INFORMATIC	<u>511</u> San		grade or ref. ]	st. <u>X</u> )	ample rune:	1155		sample ID:	101 W	A A CA A
	nalysis N	Method		No. Bottles				Preservation			
Total Chrom, Nickel, and Iron I Plastic 250 mL HNO3 Cooler/Ice						and the second se		14145515 201			
	otal Chrom, Nickel, and Iron	1		1	Pla	stic	250 mL	HNO3		Cooler/Ice	

NOTES/OBSERVATIONS:

Color: Yellow

> Product Thickness\*: (\*Call PM if present)

Odor: None

N/A

Good

Well Condition:

GZA GeoEnvironmental, Inc. 05 CL D 1 ot.

### GROUNDWATER SAMPLING DATA SHEET

WATER LEVEL OBSERV:         Reference Point of Measurem         Well Completion:       S         Difference Between PVC and         Well Screened Interval (fbg)         HACH Kit Type       t         Total Length of Well (feet):         Depth to Water (feet):         Standing Water in Well (feet):         Well Condition:       Protective Cr         Well head vapors:       VOCs (PII         Sample Method:       Bail	Project Name: ATIONS hent: PVC Ri Stand Pipe Casing Top (fe NA Casing - poor / g D/FID)	ser  Sta Road Bo eet): Depth fro 2 1 1 000d; Lock - 1 1 000d; Lock -	Measurement D eel Casing x 2 0.20 0 m Ref. Point 28.34 10.58 17.76 • Yes / No; Expa ppmv Low Flow 2 Peristaltic 2 YSI 556	Depth Below Compared Compared	Reference E Ground Elev Difference in (Reference Elev Other Field Me 2 Ground 3,54 0.78 2.76 (es/No; Well I D/Other)	3/2022 levation (feet) n Elevation ( ration - Ground thod (Reference F Multiply lit D - <u>Yes / No</u>	feet): Elevation) Point Measurement - Rd Sampled Volum ers by 0.2642 to go y; Concrete Collar	Collector Initial Difference in Elev 2.50 et gallons - <u>Yes / No;</u> Well Other	ration)   gallons or - <u>poor / good</u>	   
WATER LEVEL OBSERV, Reference Point of Measurem Well Completion: S Difference Between PVC and Well Screened Interval (fbg) HACH Kit Type n Total Length of Well (feet): Depth to Water (feet): Standing Water in Well (feet): Well Condition: Protective Cr Well head vapors: VOCs (PH Sample Method: Bail	ATIONS hent: PVC Ri Stand Pipe  Casing Top (fe NA Casing Top (fe NA Casing - poor / g Casing - poor /	ser  Sta Road Bo eet): Depth fro 2 1 1 000d; Lock - 1 1 000d; Lock -	Measurement D eel Casing x 2 0.20 0 m Ref. Point 28.34 10.58 17.76 • Yes / No; Expa ppmv Low Flow 2 Peristaltic 2 YSI 556	Depth Below 28 10 27 17 nsion Cap - <u>Y</u> Methane (FII Purge Metha	3/18 Reference E Ground Elev Difference in (Reference Elev Other Field Me (Ground 3,54 0.78 7.76 (es/No; Well I D/Other) od: Bail	3/2022 levation (feet) n Elevation ( ration - Ground thod (Reference F Multiply lit D - <u>Yes / No</u>	t) feet): Elevation) Point Measurement - ed Sampled Volum ers by 0.2642 to ga point Concrete Collar ppmv Flow-Thru C	Collector Initial Difference in Elev 2.50 et gallons - <u>Yes / No;</u> Well Other	s: /ation)   gallons or - <u>poor / good</u>	  ] liters ppmv ∵ □
Reference Point of Measurem Well Completion: 5 Difference Between PVC and Well Screened Interval (fbg) IACH Kit Type 1 Cotal Length of Well (feet): Depth to Water (feet): Banding Water in Well (feet): Well Condition: Protective Ca Well head vapors: VOCs (PII Sample Method: Bail	ent: PVC Ri Stand Pipe Casing Top (fe NA NA Casing - poor / 2 D/FID) Grab Submersible	ser  Sta Road Bo cet): Depth fro 2 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 0 0 0 0 1 0	eel Casing □ x 2 0.20	Ground Depth Below 28 10 17 nsion Cap - <u>Y</u> Methane (FII Purge Metha	Reference E Ground Elev Difference in (Reference Elev Other Field Me 2 Ground 3,54 0,78 2,76 (es/No; Well I D/Other) od: Bail	levation (fee vation (feet) n Elevation ( vation - Ground thod (Reference F Total Purge Multiply lit D - <u>Yes / No</u>	feet): Elevation) Point Measurement - ed Sampled Volum ers by 0.2642 to ge g: Concrete Collar ppmv I Flow-Thru C	Difference in Elev 2.50 et gallons - <u>Yes / No</u> ; Well Other	ration)   gallons or - <u>poor / good</u>	_  
Depth to Water (feet): Standing Water in Well (feet): Well Condition: Protective Ca Well head vapors: VOCs (PII Sample Method: Bail	asing - <u>poor / g</u> D/FID) Grab Submersible Instrument Moo Instrument Moo Instrument Moo	2 1 1 2000d; Lock - Pump [] [] lel: lel:	28.34 10.58 17.76 • <u>Yes / No;</u> Expa ppmv Low Flow ≠ Peristaltic ₹ YSI 556	28 10 17 nsion Cap - <u>¥</u> Methane (FII <b>Purge Meth</b>	8.54 0.78 7.76 ( <u>es/No;</u> Well I D/Other) od: Bail [	Total Purge Multiply lit D - <u>Yes / No</u>	xd Sampled Volum ers by 0.2642 to ga g; Concrete Collar ppmv ☑ Flow-Thru C	2.50 [] et gallons - <u>Yes / No;</u> Well Other	gallons or - <u>poor / good</u>	_ppmv
Depth to Water (feet): Standing Water in Well (feet): Well Condition: Protective Co Well head vapors: VOCs (PII Sample Method: Bail	asing - <u>poor / g</u> D/FID) Grab Submersible Instrument Moo Instrument Moo Instrument Moo	I ood; Lock - Pump Pump iel: iel:	10.58 17.76 • <u>Yes / No;</u> Expa ppmv Low Flow Peristaltic YSI 556	10 17 nsion Cap - <u>Y</u> Methane (FII <b>Purge Meth</b>	).78 /.76 /.76; Well I D/Other) od: Bail [	Multiply lit D - <u>Yes / No</u>	ers by 0.2642 to ge y; Concrete Collar ppmv F Flow-Thru C	et gallons - <u>Yes / No;</u> Well Other	- <u>poor / good</u>	_ppmv
Well Condition: Protective Cr Well head vapors: VOCs (PII Sample Method: Bail	asing - <u>poor / g</u> D/FID) Grab Submersible Instrument Moo Instrument Moo Instrument Moo	eood; Lock -	Y <u>es / No;</u> Expa ppmv Low Flow I Peristaltic I YSI 556	nsion Cap - <u>Y</u> Methane (FII Purge Metho	<u>(es/No;</u> Well I D/Other) od: Bail [	D - <u>Yes / No</u>	; Concrete Collar ppmv Flow-Thru C	- <u>Yes / No;</u> Well Other		_ppmv :: 🗆
Well head vapors: VOCs (PII	D/FID) Grab	Pump 🗋	ppmv Low Flow 🖌 Peristaltic 🗹 YSI 556	Methane (FII Purge Meth	D/Other) od: Bail [	] Pump	ppmv Flow-Thru C	Other		_ppmv :: 🗆
and the second	Submersible Instrument Moo Instrument Moo Instrument Moo Instrument Moo	lel: lel:	Peristaltic 🗹 YSI 556					ell Vol: (460mI	.) 🗹 Other	
	Instrument Mod Instrument Mod Instrument Mod	lel:		Standard Col						- 20
CALIBRATION DATA:	Instrument Mod Instrument Mod Instrument Mod	lel:		Standard Col-	100			0000		
	Instrument Mod	lel:	101000	Reading:	ution: pH 4:	1000	Reading (start) pH 7:	1000	(finish) pH 10:	10/10
			Provide the second s	Standard Solu		100%	Reading (start)		(finish)	
			and the second s	Standard Solu Standard Solu		238	2 Reading (start) Reading (start)		(finish)	
INSTRUMENT MEASURE	EMENTS:									
Parameters	Static*	1.00	2	3	4	5	6	7	8	Stabilized
l'ime:	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
oH (+/- 0.1) (s.u.)		3.47	3.46	3.46						th a showa
ORP** (+/- 10) (mvolts)		La carra com		100000000						3.46
Turbidity (<5) (10%) (ntu)		275.2	283.7	283.2						283.2
*Static measurement is bef **If ORP is negative and E				3.60 r than 10 mg/	I : recalibrate	and/or clean	instrument. If ner	sistent call PM		3.60
SAMPLING INFORMATIO	2004-00 10 1	ple Depth:	(1976s)		Sample Time:	20.00	motunen. n per	Sample ID:	MW	-20-19
SAMELING INFORMATIC	<u>011</u> 341	(below g			ample rine.	1230	-	Sample ID.	141 44	20-19
	Method		No. Bottles		е Туре	Vol.	Preservation		Handling	
Hex Chrom and Sulfate Fotal Chrom, Nickel and Iron			1	22.00	nstic nstic	125 mL 250 mL	 IINO3		Cooler/Ice Cooler/Ice	
			•	1 10		and mu	111100			
										1
NOTES/OBSERVATIONS:										
Color: Deep Orange	~	None	Product Thickne	ess*:	N/A		Well Condition:		Good	

Product Thickness\*: (\*Call PM if present)

N/A

#### GROUNDWATER SAMPLING DATA SHEET

Well ID: \_\_\_\_\_ Sample Date: \_\_\_\_\_

MW-21-19
 3/18/2022

PROJECTINFORMATI	ON Project Name:	_	Superior Platin	ng	Location:	: Sout	hport, CT	File No.	43	1459
WATER LEVEL OBSER Reference Point of Measure Well Completion: Difference Between PVC an Well Screened Interval (fbg HACH Kit Type	ement: PVC Ri Stand Pipe and Casing Top (fo	Road Bo	Measurement I	Ground	Reference E Ground Elev Difference in	n Elevation (f vation - Ground E	eet):	Collector Initia	ls:	
		Depth fr	om Ref. Point	Depth Below	Ground	(Reference Po	oint Measurement -	Difference in Ele	vation)	
Total Length of Well (feet): Depth to Water (feet):	·		27.44 11.35		.84	Total Purger	i Sampled Volum	2.50	] gallons or	✓ liters
Standing Water in Well (fee	et):		16.09		.09	- and the second second	rs by 0.2642 to ge	21 860	Building of	
Well Condition: Protective Well head vapors: VOCs (I		good; Lock	- <u>Yes / No;</u> Expa _ <sup>ppmv</sup>	ansion Cap - <u>Y</u> Methane (FID		D - <u>Yes / No;</u>	Concrete Collar _ppmv	- <u>Yes / No;</u> Well Other	- <u>poor / good</u>	_ppmv
Pump Type: Electr	] Grab 🗌 ic Submersible		Low Flow 🗹 Peristaltic 🗹		od: Bail [ Bladder Pu		Flow-Thru C Other:	ell Vol: (460ml	L) 🗹 Other	r: 🔲 250 mL
CALIBRATION DATA: Specific Conductance: pH (s.u.): DO (mg/L): Turbidity (NTU): ORP (mvolts:)	Instrument Moo Instrument Moo Instrument Moo Instrument Moo Instrument Moo	del: del: del:	YSI 556 YSI 556 YSI 556 Micro TPI YSI 556	Standard Solu Reading: Standard Solu Standard Solu Standard Solu	pH 4: ation: ation:	1000 4/4 100% 1000/10/0.07 238	Reading (start) pH 7: Reading (start) 2 Reading (start) Reading (start)	1000 7/7 100.00% 1000/10/0.2 238	(finish) pH 10: (finish) (finish)	10/10
INSTRUMENT MEASUF	REMENTS:									
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					42	0.00
*Static measurement is b **If ORP is negative and				er than 10 mg/l	L; recalibrate	and/or clean i	instrument. If per	sistent call PM.		
SAMPLING INFORMAT	<u>TON</u> San	n <b>ple Depth:</b> (below į		S: pt. <u>X</u> )	ample Time:	1120	-	Sample ID:	MW	-21-19
Analysis	Method		No. Bottles	Bottle		Vol.	Preservation		Handling	
Hex Chrom and Sulfate	2220		1	Pla: Pla:		125 mL 250 mL	 HNO3		Cooler/Ice Cooler/Ice	
Total Chrom, Nickel, and Ir	on			Tia	suc	250 mc	intos		contract	
NOTES/OBSERVATION	<u>S:</u> Odor:	None	Product Thickn	ess*:	N/A		Well Condition:		Good	
			(*Call PM if pr							

### GROUNDWATER SAMPLING DATA SHEET

Glastonbury, CT 06033	3 Floot							Well ID Sample Date		OB- 3/18/202
PROJECT INFORMATI	and the second se		Superior Platin	g	Location	: So	uthport, CT	File No.	43	3459
WATER LEVEL OBSER			Measurement D	3 1020	- 2/1	8/2022		a and a second second		
Reference Point of Measure	and the second second barrant	ser 🗹 St	eel Casing			the second se	et)	Collector Initia	us:	MAN
Well Completion:	Stand Pipe	Road Bo				vation (feet)				-
Difference Between PVC a			0.15			n Elevation	(feet):			-
Well Screened Interval (fbg						vation - Ground	and faither			-
IACH Kit Type	NA				Other Field Me					-
		Denth fro	om Ref. Point	Denth Below	Ground	(Reference)	Point Measurement -	Difference in Ele	wation)	
Fotal Length of Well (feet)	:		9.30		.45		ont oreastrement -	Difference in Ex	valiony	
Depth to Water (feet):		-	0.40	0.	.55	Total Purg	ed Sampled Volun	ie 2.5	gallons or	✓ liters
Standing Water in Well (fe	et):		8.90	18	.90	Multiply li	ters by 0.2642 to g	et gallons		
Well Condition: Protective Well head vapors: VOCs (				nsion Cap - <u>Y</u> Methane (FII		D - <u>Yes / N</u>	<u>o;</u> Concrete Collar ppmv		l - <u>poor / good</u> r	ppmv
ample Methods Doil	] Grab []	Dumm 🗖	I and Flam 🖂	Dames Marth		7 D			L) 🗹 Other	
Contraction and a second second second second	ric Submersible		Peristaltic	rurge wieth	Bladder Pu		✓ Flow-Thru C Other:	ell vol: (460m	L) 🖸 Other	250 mL
CALIBRATION DATA:										
Specific Conductance:	Instrument Mod	lel:	YSI 556	Standard Solu	ution:	1000	Reading (start)	1000	(finish)	
oH (s.u.):	Instrument Moo	iel:	YSI 556	Reading:	pH 4:	4/4	pH 7:	7/7	pH 10:	10/10
DO (mg/L):	Instrument Mod		YSI 556	Standard Solu		100%	Reading (start)	100.00%	(finish)	
Furbidity (NTU): ORP (mvolts:)	Instrument Moo Instrument Moo		Micro TPI YSI 556	Standard Solu Standard Solu		238	02 Reading (start) Reading (start)	238	(finish)	
INSTRUMENT MEASU	REMENTS:									
Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
ĩme:	0810	0925	0970	0975						
Depth to Water (ft)	0810	0825	0830	0835						0835
elow 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
OO (10%) (mg/L)		4.79	4.76	4.80						4.80
oH (+/- 0.1) (s.u.)		6.09	6.03	6.01						6.01
ORP** (+/- 10) (mvolts)		89.3	79.9	84.5						84.5
Curbidity (<5) (10%) (ntu)		0.00	0.00	0.00						0.00
*Static measurement is **If ORP is negative and	before installation d DO is greater th	of equipme	nt.		I : recalibrate	and/or clear	instrument. If pe	rsistent call PM		0.00
	1.000000	COACTAR NO.							8.0	2/11
SAMPLING INFORMAT	<u>FION</u> San	iple Depth: (below g	~18 rade or ref.	s pt. <u>X</u> )	ample Time:	0835	_	Sample ID:	0	B-7
Analysis	Method		No. Bottles		е Туре	Vol.	Preservation		Handling	
lex Chrom			1		istic	125 mL	-		Cooler/Ice	
fotal Chrom, Nickel			1	Pla	istic	250 mL	HNO3		Cooler/Ice	
OTES/OBSERVATION	<u>'S:</u>									
Color: Clear	Odor:	None	Product Thickne	ess*:	N/A		Well Condition		Good	

### GROUNDWATER SAMPLING DATA SHEET

 Well ID:
 OB-9

 Sample Date:
 3/17/2022

PROJECT INFORMAT			Superior Plating	ş	Location	: <u>Sou</u>	thport, CT	File No.	4	3459
WATER LEVEL OBSEI Reference Point of Measur Well Completion: Difference Between PVC a Well Screened Interval (fb) HACH Kit Type	ement: PVC Ri Stand Pipe and Casing Top (fo g)	Road Bo	Measurement D eel Casing x 0.20		Reference I Ground Ele Difference	vation (feet) in Elevation ( evation - Ground	feet):	Collector Initia	ls:	<u>MAN</u>
Total Length of Well (feet) Depth to Water (feet): Standing Water in Well (fe Well Condition: Protectiv Well head vapors: VOCs (	eet): e Casing - <u>poor / g</u>		9.55 7.18 2.37 - <u>Yes / No;</u> Expar	7. 2.	75 38 37 ( <u>es/No;</u> Well	Total Purge Multiply lit	oint Measurement xd Sampled Volur ers by 0.2642 to g ;; Concrete Collar ppmv	ne 3.0 cet gallons - <u>Yes / No;</u> Well	] gallons or	☑ liters L ppmv
Sample Method: Bail[ Pump Type: Elect CALIBRATION DATA:	ric Submersible		Low Flow 🗹 Peristaltic 🗹	Purge Meth	od: Bail [ Bladder Pu		✓ Flow-Thru C Other: □	Cell Vol: (460ml	.) 🔽 Othe	r: 🗖 250 mL
Specific Conductance: pH (s.u.): DO (mg/L): Turbidity (NTU): ORP (m volts:)	Instrument Moo Instrument Moo Instrument Moo Instrument Moo Instrument Moo	lel: lel: lel:	YSI 556 YSI 556 Micro TPI	Standard Soli Reading: Standard Soli Standard Soli Standard Soli	pH 4: ution: ution:	1000 4/4 100% 1000/10/0.0 238	Reading (start) pH 7: Reading (start) 22 Reading (start) Reading (start)	7/7 100.10% 1000/10/0.02	(finish) pH 10: (finish) (finish)	10/10
INSTRUMENT MEASU	REMENTS:									
Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time: Depth to Water (ft) below Ref. point (drawdown <0.3)	7.18	0920	0925	0930	0935					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 **If ORP is negative an				than 10 mg/	L; recalibrate	and/or clean	instrument. If pe	ersistent call PM.		
GAMPI INC INFORMA	TION for	ple Depth:	~9.20	c	ample Time	: 0935		Sample ID:	0	)B-9
SAMPLING INFORMA	<u>110N</u> 5au	(below g		ot. <u>X</u> )	ample Thie		-	Sample ID.		<b>1</b> -7
Analysis Hex Chrom	Method		No. Bottles 1		e Type istic	Vol. 125 mL	Preservation		Handling Cooler/Ice	
Total Chrom and Nickel			1	Pla	istic	250 mL	HNO3		Cooler/Ice	
NOTES/OBSERVATION	<u> </u>									
Color: Clear	Odor:	None	Product Thickne	ss*:	N/A		Well Condition	:	Good	

	Brook Dr, Sui CT 06033 286-8900 e (°F): <u>70s</u>		Project Name Location: Measuring Fiberglass Tape Total Depth of Well (ft) 22.40 21.29	So M g Device: e	Superior Pla outhport, Con IEASURING Electric Tape DNAPL Thickness	necticut 3 EQUIPME Electric Tape			Date: File No. GZA Staff/Samp Abbreviations: PVC = Top of PV Stl = Top of steel Grnd = Relative to nents/Well Condition	C well riser. well casing/protector. 9 ground surface.			
Phone: (860) 2 Air Temperature Weather Condition Time We Gra N N N N N N N	286-8900           e (°F):         70s           ions:         Partle           /ell/Stream         Bauge I.D.           MW-16-13         CW-11           MW-17-13         CW-10           CW-9         MW-11	Depth to Water (ft) 11.49 16.48 15.09 30.87	Measuring FiberglassTape Total Depth of Well (ft) 22.40	M g Device: e Measmnt. Datum	Electric Tape DNAPL Thickness	3 EQUIPME Electric Tape LNAPL Thickness	Interface Correct. Factor		Abbreviations: PVC = Top of PV Stl = Top of steel Grnd = Relative to	C well riser. well casing/protector. 9 ground surface.			
Air Temperature Weather Conditio Time We Ga N N N N N N N N N N N N N N N N N N	e (°F): 70s ions: Partl /ell/Stream Gauge I.D. MW-16-13 CW-11 MW-17-13 CW-10 CW-9 MW-11	Depth to Water (ft) 11.49 16.48 15.09 30.87	Measuring FiberglassTape Total Depth of Well (ft) 22.40	M g Device: e Measmnt. Datum	Electric Tape DNAPL Thickness	3 EQUIPME Electric Tape LNAPL Thickness	Interface Correct. Factor		Abbreviations: PVC = Top of PV Stl = Top of steel Grnd = Relative to	C well riser. well casing/protector. 9 ground surface.			
Weather Condition	ions: Parth /ell/Stream Gauge I.D. MW-16-13 CW-11 MW-17-13 CW-10 CW-9 MW-11	Depth to Water (ft) 11.49 16.48 15.09 30.87	FiberglassTap Total Depth of Well (ft) 22.40	e Measmnt. Datum	Electric Tape DNAPL Thickness	LNAPL Thickness	Interface Correct. Factor		Stl = Top of steel Grnd = Relative to	well casing/protector. ) ground surface.			
Time Wo Ga M M M M M M M	/ell/Stream Gauge I.D. MW-16-13 CW-11 MW-17-13 CW-10 CW-9 MW-11	Depth to Water (ft) 11.49 16.48 15.09 30.87	FiberglassTap Total Depth of Well (ft) 22.40	e Measmnt. Datum	Electric Tape DNAPL Thickness	LNAPL Thickness	Interface Correct. Factor		Grnd = Relative to	o ground surface.			
	Gauge I.D. MW-16-13 CW-11 MW-17-13 CW-10 CW-9 MW-11	Water (ft) 11.49 16.48 15.09 30.87	Total Depth of Well (ft) 22.40	Measmnt. Datum	DNAPL Thickness	LNAPL Thickness	Correct. Factor						
	Gauge I.D. MW-16-13 CW-11 MW-17-13 CW-10 CW-9 MW-11	Water (ft) 11.49 16.48 15.09 30.87	of Well (ft) 22.40	Datum	Thickness	Thickness	Factor	Com	nents/Well Condition	on			
N	CW-11 MW-17-13 CW-10 CW-9 MW-11	16.48 15.09 30.87											
N	MW-17-13 CW-10 CW-9 MW-11	15.09 30.87	21.29			Q9		Good					
N	CW-10 CW-9 MW-11	30.87	21.29					Cracked cover					
N	CW-9 MW-11							Broken cover					
M	MW-11	51.40						Sound faint					
N	- second of							Sound faint					
	CW-1	19.19	27.36					Good					
		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, A	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 w	ell				
	MW-1	9.68	11.44					Good					
	OB-9	9.30	9.40					Cover does not sit flush					

				WATER	LEVE	L MEA	SURE	MENT LOG	
655 Wine	oEnvironmental, I ding Brook Dr, Su oury, CT 06033	nc. ite 402	Project Nam			DJECT			Date:         9/20/2022         Page 2 of 2           File No.         43459
	860) 286-8900		Location:	S	outhport, Cor	mecticut			GZA Staff/Sampler SHS
				N	IEASURING	G EQUIPMI	ENT		Abbreviations:
	erature (°F): 70s		-	Declass		P1			PVC = Top of PVC well riser.
Weather C	onditions: Part	ly Cloudy	Measurin FiberglassTap		Electric Tape	Electric Tape	Interface	Meter Other	Stl = Top of steel well casing/protector. Grnd = Relative to ground surface.
		Depth to		Measmnt.	DNAPL	LNAPL	Correct.		
Time	Well/Stream Gauge I.D.	Water (ft)	of Well (ft)	Datum PVC/Stl/Grnd	Thickness (ft)	Thickness (ft)	Factor (ft)	Con	unents/Well Condition
	CW-8	53.05	í.					Sound	
	OB-8		10.04					Dry	
_	MW-2		18.03					Dry	
	CW-12	13.69						Good	
	MW-4		9.96					Dry	
	MW-18-13	11.80						Good	_
	MW-12	12.20	12.60					Good	
	MW-19-19	13.12	29.74					Good	
	MW-20-19	14.51	28.36					Good	
	MW-21-19	18.30	27.48					Good	
				· · · · · · · · · · · · · · · · · · ·					
							8		
							-		

GZA GeoEnvironmental, Inc. 95 Glastonbury Boulevard, 3 Floot

#### GROUNDWATER SAMPLING DATA SHEET

95 Glastonbury Boulevard, Glastonbury, CT 06033	, 3 Floot							Well ID: Sample Date:		CW-12 9/20/2022
PROJECT INFORMAT	ION									
	Project Name:	¢	Superior Platin	Ig	_ Location:	Sou	thport, CT	File No.	43	459
WATER LEVEL OBSEI Reference Point of Measur Well Completion: Difference Between PVC a Well Screened Interval (fbg HACH Kit Type	ement: PVC Ris Stand Pipe and Casing Top (fe	Road Bo	Measurement E eel Casing 🗹 x 🔽		Reference E Ground Elev Difference in	vation (feet) n Elevation ( vation - Ground	feet):	Collector Initial	s:	SHS
		Depth fro	om Ref. Point	Depth Below	Ground	(Reference P	oint Measurement -	Difference in Elev	ation)	
Total Length of Well (feet) Depth to Water (feet):	1		53.32 13.69							-
Standing Water in Well (fe	et):		39.63				d Sampled Volum ers by 0.2642 to ge	Alexandre and a second	gallons or	✓ liters
Well Condition: Protective Well head vapors: VOCs (		ood; Lock	- <u>Yes / No;</u> Expa _ppmv	nsion Cap - <u>Y</u> Methane (FII		D - <u>Yes / No</u>			- poor / good	_ppmv
Pump Type: Elect <u>CALIBRATION DATA:</u> Specific Conductance: pH (s.u.): DO (mg/L): Turbidity (NTU):	ric Submersible Instrument Mod Instrument Mod Instrument Mod Instrument Mod	lel: lel: lel: lel: lel:	Peristaltic YSI 556 YSI 556 YSI 556 Micro TPI	Standard Solu Reading: Standard Solu Standard Solu	Bladder Pu ution: pH 4: ution: ution:	mp  1000 4.00 100% 1000/10/0.0	Flow-Thru C Other: C Reading (start) PH 7: Reading (start) Reading (start) Reading (start)	1000 7.01 100.00% calibrated	(finish) pH 10: (finish)	250 mL
ORP (mvolts:) INSTRUMENT MEASU	Instrument Mod	el:	YSI 556	Standard Solu	ation:	238	Reading (start)	238	(finish)	
Parameters	Static*		2	3	4	5	6	7	8	Stabilized
Time:	102-01-020-02						0		d	ana ana
Depth to Water (ft) below Ref. point (drawdown <0.3)	0958	1013	1018	1023						1023
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						and the second se
ORP** (+/- 10) (mvolts)		November 2	and a start of the			_			-	7.26
Turbidity (<5) (10%) (ntu)		-66.0	-62.4	-59.7						-59.7
*Static measurement is **If ORP is negative an				39.11 er than 10 mg/	L; recalibrate	and/or clean	instrument. If per	sistent call PM.		39.11
SAMPLING INFORMA	<u>TION</u> Sam	ple Depth: (below	~50' grade or ref	S . pt. <u>X</u> )	ample Time:	1023	-	Sample ID:		-12 & Filtered
Analysis Total Chrom + Nickel	Method		No. Bottles	Bottle Pla	Type stic	Vol. 250 mL	Preservation HNO3		Handling Cooler/Ice	
Hox Chrom			2	Pla		125 mL			Cooler/Ice	
NOTES/OBSERVATION	JS.									
NOTES/OBSERVATION	ND: Odor:	None	Product Thickn	ess*:	N/A		Well Condition:		Good	

#### GROUNDWATER SAMPLING DATA SHEET

95 Glastonbury Boulevard, Glastonbury, CT 06033	3 Floot							Well ID: Sample Date:		MW- 9/21/202
PROJE CT INFORMAT	ION Project Name:		Superior Platin	ng	Location	1: Soi	uthport, CT	File No.	43	459
WATER LEVEL OBSER Reference Point of Measur Well Completion: Difference Between PVC a Well Screened Interval (fbg HACH Kit Type	RVATIONS ement: PVC R Stand Pipe and Casing Top (f	iser 🔲 St Road Bo	Measurement I eel Casing  ☑	Date/Time: ] Ground 🔲	Reference I Ground Ele Difference	1/2022 Elevation (feet) in Elevation ( evation - Ground ethod	(feet):	Collector Initia		SHS
						(Reference l	Point Measurement -	Difference in Ele	vation)	
Total Length of Well (feet) Depth to Water (feet):	10 10		9.68	9.	.74	Total Purge	ed Sampled Volum	4.0	] gallons or	✓ liters
Standing Water in Well (fe	et):		1.76		76		ters by 0.2642 to ge			
Well Condition: Protective Well head vapors: VOCs (		good; Lock -	Yes / No; Expa ppmv	ansion Cap - <u>Y</u> Methane (FIE		ID - <u>Yes / No</u>	o; Concrete Collar ppmv	- <u>Yes / No;</u> Well Other	- <u>poor</u> / good	_ppmv
Sample Method: Bail [ Pump Type: Elect	☐ Grab ☐ ric Submersible	Contraction of the second second	Low Flow 🗹 Peristaltic 🔽		od: Bail [ Bladder Pu		Flow-Thru Co Other:	ell Vol: (460ml	L) 🗹 Other	r: □ _250 mL
CALIBRATION DATA: Specific Conductance: pH (s.u.): DO (mg/L): Furbidity (NTU): ORP (mvalts:)	Instrument Moo Instrument Moo Instrument Moo Instrument Moo Instrument Moo	del: del: del:	YSI 556 YSI 556 YSI 556 Micro TPI YSI 556	Standard Solu Reading: Standard Solu Standard Solu Standard Solu	pH 4: ntion: ntion:	1000 4.00 100% 1000/10/0. 238	Reading (start) pH 7: Reading (start) 02 Reading (start) Reading (start)	7.01 100.00% calibrated	(finish) pH 10: (finish) (finish)	10.01
NSTRUMENT MEASU	REMENTS:									
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
Femperature (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
oH (+/- 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
Furbidity (<5) (10%) (ntu)		13.10	4.99	4.86	2.92					2.92
*Static measurement is **If ORP is negative an		n of equipme	nt.			and/or clean	instrument. If per	sistent call PM.		4.74
SAMPLING INFORMA	<u>FION</u> San	nple Depth: (below	~11.00 grade or re		ample Time	: 0857	_	Sample ID:	М	W-1
Analysis	Method		No. Bottles	Bottle		Vol.	Preservation HNO3		Handling	
Total Chrom + Nickel lex Chrom			1	Pla: Pla:	198	250 mL 125 mL			Cooler/Ice Cooler/Ice	
NOTES/OBSERVATION							W 11 (5 11)		<b>C</b> 1	
Color: Light Yellow	Odor:	none	Product Thickn	CSS*:	N/A		Well Condition:		Good	

Odor: None

GZA GeoEnvironmental, Inc. 95 Clastonbury Bouley -1 2 El.-+

#### GROUNDWATER SAMPLING DATA SHEET

95 Glastonbury Boulevard, Glastonbury, CT 06033	3 Floot							Well ID: Sample Date:		MW-5 9/20/2022
PROJECT INFORMATI										
	Project Name:		Superior Platin	g	Location:	Sou	thport, CT	File No.	43	459
WATER LEVEL OBSER Reference Point of Measure Well Completion: Difference Between PVC a Well Screened Interval (fbg HACH Kit Type	ement: PVC Ris Stand Pipe nd Casing Top (fe	ser 🔲 Ste Road Boy	Measurement E cel Casing 🗹 x 🔽 0.30	Ground	9/20 Reference El Ground Elev Difference ir (Reference Elev Other Field Met	ation (feet) 1 Elevation ( ation - Ground	feet):	Collector Initial	s:	<u>SHS</u>
			m Ref. Point	Depth Below	Ground	(Reference P	oint Measurement -	Difference in Elev	ation)	
Total Length of Well (feet): Depth to Water (feet):			8.44 7.97			Total Purge	d Sampled Volum	e 🗆	gallons or	✓ liters
Standing Water in Well (fee	et):	0	).47				ers by 0.2642 to ge		5	
Well Condition: Protective Well head vapors: VOCs (			<u>Yes / No;</u> Expa ppmv	nsion Cap - <u>Y</u> Methane (FID		D - <u>Yes / No</u>	; Concrete Collar ppmv		- poor / good	_ppmv
5 C	Grab Grab ic Submersible Instrument Mod Instrument Mod Instrument Mod Instrument Mod	lel: lel: lel: lel:	Low Flow Peristaltic YSI 556 YSI 556 YSI 556 Micro TPI YSI 556		Bladder Pur tion: pH 4: tion: tion:	mp □ 1000 4.00 100%	Flow-Thru C         Other:	1000 7.01 100.00% calibrated	.)	: □ _250 mL 
INSTRUMENT MEASU	REMENTS:									
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 **If ORP is negative and				r than 10 mg/l	L; recalibrate	and/or clean	instrument. If per	rsistent call PM.		
SAMPLING INFORMAT	T <u>ION</u> Sau	ple Depth: (below)		Si . pt. <u>X</u> )	ample Time:	1115	_	Sample ID:	М	W-5
Analysis	Method		No. Bottles	Bottle	1.11	Vol.	Preservation		Handling	
Total Chrom + Nickel Hex Chrom			1	Pla: Pla:		250 mL 125 mL	HNO3		Cooler/Ice Cooler/Ice	
				1 14					- osteriee	
Discussed w/PM. Grab san	nple collected.									
NOTES/OBSERVATION	S: Odor:	None					Well Condition		Good	

#### GROUNDWATER SAMPLING DATA SHEET

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

PROJECTINFORMATI	and the second second		Superior Platin	ng	Location	: <u>Sou</u>	ithport, CT	File No.	43	459
WATER LEVEL OBSER Reference Point of Measure Well Completion: Difference Between PVC at Well Screened Interval (fbg HACH Kit Type	ement: PVC Ri Stand Pipe nd Casing Top (f	Road Bo	Measurement I eel Casing 🔽 x 🔽 0.22	Ground	Reference E Ground Ele Difference i	1/2022 Elevation (feet) n Elevation ( vation - Ground ethod	feet):	Collector Initial	ls:	<u>SHS</u>
Total Length of Well (feet): Depth to Water (feet): Standing Water in Well (fee Well Condition: Protective	et):		om Ref. Point 24.57 17.32 7.25 - Yes / No; Expa	17	1.79 7.54 25	Total Purge Multiply lit	Point Measurement - ed Sampled Volum ers by 0.2642 to ge g: Concrete Collar	2.5 □ et gallons	] gallons or	liters
Well head vapors: VOCs () Sample Method: Bail [ Pump Type: Electr CALIBRATION DATA: Specific Conductance: pH (s.u.):		del:	ppmv Low Flow Peristaltic <u>YSI 556</u> <u>YSI 556</u>		od: Bail [ Bladder Pu		ppmv Flow-Thru C Other: Reading (start) pH 7:			_ppmv : □ _250 mL
DO (mg/L): Turbidity (NTU): ORP (mvolts:)	Instrument Moo Instrument Moo Instrument Moo	del: del:	YSI 556 Micro TPI YSI 556	Standard Sol Standard Sol Standard Sol	ution: ution:	100%	Reading (start) 2 Reading (start) Reading (start)	100.00% calibrated 238	(finish)	
INSTRUMENT MEASUR	REMENTS:									
Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time: Depth to Water (ft) below Ref. point (drawdown <0.3)	1015	1030 17.84	1035	1040						1040
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 b **If ORP is negative and		of equipme	nt.	04 - 10-50 - 14	L; recalibrate	and/or clean	instrument. If per	sistent call PM.		0.00
SAMPLING INFORMAT	<u>'ION</u> San	nple Depth: (below	~21 grade or ref		ample Time:	1040		Sample ID:	MV	V-10
Analysis Total Chrom + Nickel Hex Chrom	Method		No. Bottles 3 3	Pla	e Type stic stic	Vol. 250 mL 125 mL	Preservation HNO3		Handling Cooler/Ice Cooler/Ice	
MS/MSD										
NOTES/OBSERVATION	s.									
Color: Clear	Odor:	None	Product Thickn	ess*:	N/A		Well Condition:		Good	

#### GROUNDWATER SAMPLING DATA SHEET

95 Glastonbury Boulevard, Glastonbury, CT 06033	, 3 Floot							Well ID: Sample Date:		MW-1 9/21/202
PROJECT INFORMAT	ION Project Name:		Superior Plati	ng	Location	1:So	uthport, CT	File No.	43	3459
WATER LEVEL OBSER Reference Point of Measur Well Completion: Difference Between PVC a Well Screened Interval (fbg HACH Kit Type	ement: PVC R Stand Pipe und Casing Top (f	Road Bo	Measurement I eel Casing 🔽 x 🗹 0.15	Ground	Reference I Ground Ele Difference	vation (feet) in Elevation evation - Ground	(feet):	Collector Initia	ls:	<u>SHS</u>
Fotal Length of Well (feet) Depth to Water (feet): Standing Water in Well (fe Well Condition: Protective Well head vapors: VOCs (	et): e Casing - <u>poor / ş</u>	2 1 200d; Lock -	om Ref. Point (7.36 9.19 8.17 ( <u>Yes / No;</u> Expa ppmv	27 19 8.	.51 .34 17 	Total Purg Multiply li		n 3 et gallons - <u>Yes / No;</u> Well	] gallons or	
Sample Method: Bail [ Pump Type: Electr	☐ Grab □ ric Submersible		Low Flow 🗹 Peristaltic 🔽		od: Bail   Bladder P	] Pump	✓ Flow-Thru C Other: □			
CALIBRATION DATA: Specific Conductance: DH (s.u.): DO (mg/L): Furbidity (NTU): DRP (mvolts:)	Instrument Moo Instrument Moo Instrument Moo Instrument Moo Instrument Moo	del: del: del:	YSI 556 YSI 556 YSI 556 Micro TPI YSI 556	Standard Solu Reading: Standard Solu Standard Solu Standard Solu	pH 4: ation: ation:	1000 450 / 4.0 238	Reading (start) 0 pH 7: Reading (start) Reading (start) Reading (start)	7/24 / 7.00	(finish) pH 10: (finish) (finish)	1000 10.22 / 10.0 
NSTRUMENT MEASU	REMENTS:									
Parameters	Static*	isour 1. Hog	2	3	4	5	6	7	8	Stabilized
ime: Depth to Water (ft)	940	955	1000	1005	1010	-				1010
elow Ref. point drawdown <0.3)	10.10	10.21	10.24	10.05	10.25					
olume Purged (L)	19.19	19.24	19.24	19.25	19.25		-			19.25
urge Rate (ml/min)		1.5	2.0	2.5	3.0					3.0
emperature (3%) °F		17.6	17.7							100
pec. Cond. (3%) (µS)				17.6	17.7					17.7
alinity (3%) (mg/L)		11,663	11,597	11,603	11,553					11,553
OO (10%) (mg/L)		6.65	6.64	6.64	6.64					6.64
H (+/- 0.1) (s.u.)		5.56	1.51	1.43	1.37 5.40					1.37
RP** (+/- 10) (mvolts)		312.5	5.40 313.0	5.37 313.9	5.40	-1 II. II.				5.40
urbidity (<5) (10%) (ntu)		0.09	0.00	0.00	0.00					315.2
*Static measurement is **If ORP is negative an		n of equipme	nt.	*		and/or clear	instrument. If per	reistant call PM		0.00
AMPLING INFORMA	-240-140-1 - 240-1	nple Depth:		s	ample Time	10:000 VAN		Sample ID:		w-11
nalysis	Method		No. Bottles	Bottle	туре	Vol.	Preservation		Handling	
otal Chrom + Nickel lex Chrom			1		stic stic	250 mL 125 mL	HNO3		Cooler/Ice Cooler/Ice	
OTES/OBSERVATION	I <u>S:</u> Odor:	None	Product Thickr	acc#:	N/A		Well Condition		Good	
A CHOW	Ouol,	1 YONG	1 TOTAL THICKI	10.00	ANCEN		wen contaiton	0.0	Good	

#### GROUNDWATER SAMPLING DATA SHEET

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

PROJECT INFORMATI	ON Project Name:		Superior Plati	ng	Location	: Sou	thport, CT	File No.	43	3459
WATER LEVEL OBSER Reference Point of Measure Well Completion: Difference Between PVC as Well Screened Interval (fbg HACH Kit Type	ement: PVC R Stand Pipe nd Casing Top (f	Road B	Measurement teel Casing ox 🖌	-	Reference E Ground Ele Difference i	0/2022 Elevation (feet) in Elevation (i vation - Ground i ethod	feet):	Collector Initia	ls:	SHS
·····		the second se	om Ref. Point	Depth Below	Ground	(Reference P	oint Measurement -	Difference in Ele	vation)	
Total Length of Well (feet): Depth to Water (feet):			12.60 12.20			Total Purge	d Sampled Volum	а Г	] gallons or	✓ liters
Standing Water in Well (fee	et):		0.40				ers by 0.2642 to ge		ganons or	C Inters
Well Condition: Protective Well head vapors: VOCs ()		good; Lock	- <u>Yes / No;</u> Exp _ppmv	ansion Cap - <u>Y</u> Methane (FII		ID - <u>Yes / No</u>			l - <u>poor / good</u>	_ppmv
	] Grab 🗹 ic Submersible		Low Flow Peristaltic		od: Bail [ Bladder Pu		<b>Flow-Thru C</b> Other:	ell Vol: (460m)	L) 🗌 Other	r: 🗖 _250 mL
CALIBRATION DATA: Specific Conductance:	Instrument Mo	del:	YSI 556	Standard Solu	ution:	1000	Reading (start)	1000	(finish)	
pH (s.u.):	Instrument Mo		YSI 556	Reading:	pH 4:	4.00	pH 7:	7.01	pH 10:	10.01
DO (mg/L): Turbidity (NTU):	Instrument Mo		YSI 556 Micro TPI	_Standard Solu Standard Solu		100%	Reading (start) 2 Reading (start)		(finish)	
ORP (mvolts:)	Instrument Mo		YSI 556	Standard Sol		238	Reading (start)	238	(finish)	
INSTRUMENT MEASUF	REMENTS:									
Parameters	Static*	1 1	2	3	4	5	6	7	8	Stabilized
Time:	0940									
Depth to Water (ft)										
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 b **If ORP is negative and				ter than 10 mg/	L; recalibrate	and/or clean	instrument. If per	sistent call PM.		
SAMPLING INFORMAT	<u>TON</u> San		~12.50 grade or re	the second se	ample Time:	0945	-	Sample ID:	MV	W-12
Analysis	Method		No. Bottles	Bottle	Туре	Vol.	Preservation		Handling	
Total Chrom + Nickel			1	Pla	stic	250 mL	HNO3		Cooler/Ice	
Hex Chrom			1	Pla	stic	125 mL			Cooler/Ice	
Discussed w/PM. Grab san	ple collected									
NOTES/OBSERVATION	<u>S:</u>									
Color: Clear	Odor:	None	Product Thicks (*Call PM if p	and a second	N/A		Well Condition:		Good	

#### GROUNDWATER SAMPLING DATA SHEET

95 Glastonbury Boulevard, Glastonbury, CT 06033	, 3 Floot							Well ID Sample Date		MW-13 9/21/2022
PROJECT INFORMATI	The second s									
	Project Name:		Superior Platin	ng	_ Location:	Sout	hport, CT	- File No.	43	3459
WATER LEVEL OBSEF Reference Point of Measur Well Completion: Difference Between PVC a Well Screened Interval (fbg HACH Kit Type	ement: PVC Ri Stand Pipe and Casing Top (f	Road Bo	Measurement I	Ground	Reference E Ground Elev Difference in	n Elevation (f	eet):	Collector Initia	als:	SHS
			om Ref. Point	Depth Below		(Reference Po	oint Measurement -	Difference in Ele	evation)	
Total Length of Well (feet) Depth to Water (feet):	:		9.60 9.43		92 75	Total Purgeo	l Sampled Volum	е Г	gallons or	✓ liters
Standing Water in Well (fe	et):	7	0.17	0.	17		rs by 0.2642 to g			
Well Condition: Protective Well head vapors: VOCs (		good; Lock	- <u>Yes / No;</u> Exp _ppmv	ansion Cap - <u>Y</u> Methane (FII		D - <u>Yes / No;</u>		- <u>Yes / No;</u> Wel Othe	ll - <u>poor / good</u> r	l ppmv
Sample Method: Bail [ Pump Type: Electr	☐ Grab ☐ ric Submersible		Low Flow  Peristaltic		od: Bail [ Bladder Pu		<b>Flow-Thru C</b> Other:	ell Vol: (460m	L) 🗌 Other	r: 🗖 250 mL
CALIBRATION DATA: Specific Conductance:	Instrument Mo	lel:	YSI 556	Standard Solu	ution:	1000	_Reading (start)	1000	(finish)	
pH (s.u.): DO (mg/L):	Instrument Moo Instrument Moo		YSI 556 YSI 556	Reading: Standard Solu	pH 4:	4.00	pH 7: Reading (start)	7.01	pH 10: (finish)	10.01
Turbidity (NTU): ORP (mvolts:)	Instrument Moo Instrument Moo	del:	Micro TPI YSI 556	Standard Soli Standard Soli	ution:	Provide and the second s	2 Reading (start) Reading (start)	calibrated	(finish)	·
INSTRUMENT MEASU	REMENTS:									
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)									2	
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										
**If ORP is negative an	d DO is greater th	an 2 mg/L o	or if DO is great	er than 10 mg/	L; recalibrate	and/or clean	instrument. If pe	rsistent call PM	•	
SAMPLING INFORMA	<u>TION</u> Sau	nple Depth: (below		ef. pt)	ample Time:		-	Sample ID:		
Analysis	Method		No. Bottles	Bottle	е Туре	Vol.	Preservation		Handling	
Could not get water to pur	-	llected								
NOTES/OBSERVATION			D. 1				N/ II /2 - 152	0	6 1	
Color:	Odor:		Product Thickr	ICSS*:			Well Condition		Good	

Odor:

GZA GeoEnvironmental, I 95 Glastonbury Boulevard, Glastonbury, CT 06033			GROUND	WATER SA	MPLING	DATA SH	EET	Well ID: Sample Date:		MW-14-07 9/21/2022
PROJECT INFORMAT	The second second second		Superior Plat	ina	Location		uthport CT	File No.	4	2450
	Project Name:		Superior Flat	ing	Location		uthport, CT	Flie No.	4	5459
WATER LEVEL OBSER Reference Point of Measur Well Completion: Difference Between PVC a Well Screened Interval (fbg HACH Kit Type	ement: PVC R Stand Pipe and Casing Top (f	Road Bo			Reference I Ground Ele Difference	vation (feet) in Elevation vation - Ground	(feet):	Collector Initial	ls:	
		Depth fr	om Ref. Point	Depth Below	Ground	(Reference )	Point Measurement	- Difference in Elev	vation)	
Total Length of Well (feet)	:		34.84 21.05	-		Total Pura	ed Sampled Volu	m 2.5 🗆	gallons or	✓ liters
Depth to Water (feet): Standing Water in Well (fe	et):		13.79				ters by 0.2642 to		ganous or	1 ners
Well Condition: Protective Well head vapors: VOCs (		good; Lock	- <u>Yes / No;</u> Exp _ppmv	oansion Cap - <u>Y</u> Methane (FII		ID - <u>Yes / Ne</u>			- <u>poor / good</u>	ppmv
	ric Submersible		Low Flow 🗹 Peristaltic 🗔		od: Bail [ Bladder Pi		Flow-Thrue Other:	Cell Vol: (460mI	.) 🗹 Othe	r: 🔲 250 mL
CALIBRATION DATA: Specific Conductance: pH (s.u.): DO (mg/L): Turbidity (NTU):	Instrument Mo Instrument Mo Instrument Mo Instrument Mo	tel: tel:	YSI 556 YSI 556 YSI 556 Micro TPI	Standard Sol Reading: Standard Sol Standard Sol	pH 4: ution:	1000 450 / 4.0	Reading (start ) pH 7: Reading (start Reading (start	7/24 / 7.00	(finish) pH 10: (finish)	1000 10.22 / 10.00
ORP (mvolts:)	Instrument Mo	lel:	YSI 556	Standard Sol	ution:	238	Reading (start		(finish)	238
INSTRUMENT MEASU	REMENTS:									
Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time:										
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										
Spec. Cond. (3%) (µS)		17.9	17.90	18.10						18.10
Salinity (3%) (mg/L)		14,928 8.72	14,893 8.70	8.62						14,777 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 **If ORP is negative and		of equipme	nt.		L; recalibrate	and/or clean	instrument. If p	ersistent call PM.		
SAMPLING INFORMAT	<u>FION</u> San	nple Depth: (below	~33 grade or re		ample Time	: 1055		Sample ID:	MW-14	-07/DUP
Analysis	Method		No. Bottles		е Туре	Vol.	Preservation		Handling	
Total Chrom + Nickel			2		istic	250 mL	HNO3		Cooler/Ice	
Hex Chrom		29	2	rla	istic	125 mL			Cooler/Ice	

NOTES/OBSERVATIONS:

Color:	Light Yellow	

Well Condition:

#### GROUNDWATER SAMPLING DATA SHEET

 Well ID:
 MW-17-13

 Sample Date:
 9/21/2022

PROJECT INFORMATI	ON Project Name:		Superior Platin	g	Location:	Sout	hport, CT	File No.	434	459
WATER LEVEL OBSER Reference Point of Measure Well Completion: Difference Between PVC ar Well Screened Interval (fbg HACH Kit Type	ement: PVC Ria Stand Pipe nd Casing Top (fe	ser ☑ Sto Road Bo		Ground	Reference El Ground Elev Difference ir	vation (feet) n Elevation (f vation - Ground E	)	Collector Initial	s:	SHS
Total Length of Well (feet): Depth to Water (feet): Standing Water in Well (fee Well Condition: Protective	et):	1	1.29 5.09 5.20		09 89 20	Total Purgeo Multiply lite	oint Measurement - l Sampled Volum rs by 0.2642 to ge Concrete Collar	2.5 🔲 et gallons	gallons or	☑ liters
Well head vapors: VOCs ( Sample Method: Bail [ Pump Type: Electric	PID/FID)	Pump 🗌	ppmv	Methane (FID Purge Metho	/Other)	] Pump [		Other		_ppmv : □ _250 mL
CALIBRATION DATA: Specific Conductance: pH (s.u.): DO (mg/L): Turbidity (NTU): ORP (mvolts:)	Instrument Moo Instrument Moo Instrument Moo Instrument Moo Instrument Moo	lel: lel: lel:	YSI 556 YSI 556 YSI 556 Micro TPI YSI 556	Standard Solu Reading: Standard Solu Standard Solu Standard Solu	pH 4: ition: ition:	1000 4.00 100% 1000/10/0.0 238	Reading (start) pH 7: Reading (start) 2 Reading (start) Reading (start)	7.01 100.00% calibrated	(finish) pH 10: (finish) (finish)	10.01
INSTRUMENT MEASU	REMENTS:									
Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time: Depth to Water (ft) below Ref. point (drawdown <0.3)	0925	0940	0945	0950						0950
Volume Purged (L)		1.5	0.5	0.5			1			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 **If ORP is negative an				er than 10 mg/	L; recalibrate	and/or clean	instrument. If pe	rsistent call PM.		
SAMPLING INFORMA	<u>TION</u> San	nple Depth: (below		5. pt. <u>X</u> )	ample Time:	. 0950		Sample ID:	MW	-17-13
Analysis Total Chrom + Nickel	Method		No. Bottles	Pla	e Type Istic	Vol. 250 mL	Preservation HNO3		Handling Cooler/Ice Cooler/Ice	
Hex Chrom			1	Pla	astic	125 mL			COOTET/ICe	
NOTES/OBSERVATION									p. 1 2	
Color: Light Yellow	Odor:	None	Product Thicks (*Call PM if p	and the second	N/A		Well Condition	:	Broken Cove	r

#### GROUNDWATER SAMPLING DATA SHEET

Well ID: Sample Date:

PROJECT INFORMAT			Superior Plating	g	Location	: <u>Sou</u>	ithport, CT	File No.	43	459
WATER LEVEL OBSEF Reference Point of Measur Well Completion: Difference Between PVC a Well Screened Interval (fbg HACH K it Type	ement: PVC Ri Stand Pipe and Casing Top (for	Road Bo	Measurement D eel Casing x 🗹 0.27		Reference E Ground Ele Difference	0/2022 Elevation (feet) vation (feet) in Elevation ( evation - Ground ethod	feet):	Collector Initia	ls:	<u>SHS</u>
Total Length of Well (feet) Depth to Water (feet): Standing Water in Well (fe Well Condition: Protective Well head vapors: VOCs (	eet): e Casing - <u>poor / g</u>		29.74 3.12 6.62 • <u>Yes / No;</u> Expan	13	.01 .39 .62 <u>(es/No;</u> Well	Total Purge Multiply lit	Point Measurement - ed Sampled Volum ers by 0.2642 to go 2; Concrete Collar ppmv	et gallons - <u>Yes / No;</u> Well	] gallons or	☑ liters _ppmv
Sample Method: Bail [ Pump Type: Elect CALIBRATION DATA:	ric Submersible		Low Flow 🗹 Peristaltic 🗹	Purge Meth	od: Bail [ Bladder Pu		Flow-Thru C Other:	ell Vol: (460m)	L) 🗹 Other	: □ _250 mL
Specific Conductance: pH (s.u.): DO (mg/L): Turbidity (NTU): ORP (mvolts:)	Instrument Moo Instrument Moo Instrument Moo Instrument Moo Instrument Moo	lel: lel: lel:	YSI 556 YSI 556 Micro TPI	Standard Sole Reading: Standard Sole Standard Sole Standard Sole	pH 4: ution: ution:	1000 4.00 100% 1000/10/0.0 238	Reading (start) pH 7: Reading (start) 22 Reading (start) Reading (start)	1000 7.01 100.00% calibrated 238	(finish) pH 10: (finish) (finish)	10.01
INSTRUMENT MEASU	REMENTS:									
Parameters	Static*	1	2	3	4	5	6	7	8	Stabilize
Time: Depth to Water (ft) below Ref. point (drawdown <0.3)	1155	1210	1215	1220						1220
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 **If ORP is negative an	before installation d DO is greater th	i of equipme an 2 mg/L o	nt. r if DO is greate:	r than 10 mg/	L; recalibrate	and/or clean	instrument. If per	sistent call PM.		
SAMPLING INFORMA	<u>TION</u> San	nple Depth: (below		S . pt. <u>X</u> )	ample Time	: 1220		Sample ID:	MW	-19-19
Analysis Total Chrom + Nickel Hex Chrom	Method		No. Bottles	Pla	e Type istic istic	Vol. 250 mL 125 mL	Preservation HNO3		Handling Cooler/Ice Cooler/Ice	
	sart e la la maine e									
Fast drawdown	18.									
NOTES/OBSERVATION	VS: Odor:	None	Product Thickne	see *.	N/A		Well Condition:		Good	
Color: Yellow	Ouor:	HONG	1 TOURGET HICKING	nau .			tren condition.		5004	

#### GROUNDWATER SAMPLING DATA SHEET

 Well ID:
 MW-20-19

 Sample Date:
 9/20/2022

WATER LEVEL OBSER Reference Point of Measure Well Completion: Difference Between PVC ar Well Screened Interval (fbg HACH Kit Type	ment: PVC Ri Stand Pipe 🗖 ad Casing Top (fe	Road Bo	Measurement I reel Casing x 2 0.20	Ground		vation (feet) n Elevation vation - Ground	(feet):	Collector Initial	<u></u>	
		Depth fr	om Ref. Point	Depth Below	Ground	(Reference	Point Measurement -	Difference in Elev	vation)	
Total Length of Well (feet): Depth to Water (feet):			28.86 15.01		.56	Total Dura	ed Sampled Volum	2.5	gallons or	✓ liters
Standing Water in Well (fee	t):		13.85		.85		ters by 0.2642 to ge		ganons or	o mers
Well Condition: Protective Well head vapors: VOCs (I		ood; Lock	- <u>Yes / No;</u> Expa _ppmv	ansion Cap - <u>Y</u> Methane (FII		D - <u>Yes / N</u>		Yes / No; Well - poor / good Other		_ppmv
Sample Method: Bail Pump Type: Electr	] Grab 🗌 ic Submersible	CONTRACTOR CONTRACT	Low Flow 🗹 Peristaltic 🔽	production - monthly and a series	od: Bail [ Bladder Pu		✓ Flow-Thru C Other: □	ell Vol: (460mI	.) 🗹 Other	:□ _250 mL
CALIBRATION DATA:										
Specific Conductance: pH (s.u.):	Instrument Mod Instrument Mod		YSI 556 YSI 556	Standard Solu Reading:	ution: pH 4:	4.00	Reading (start) pH 7:	1000 7.01	(finish) pH 10:	10.01
DO (mg/L):	Instrument Mod		YSI 556	Standard Solu		100%	Reading (start)	100.00%	(finish)	10.01
Furbidity (NTU):	Instrument Mod		Micro TPI	Standard Solu		and the second se	02 Reading (start)	and the second s	(6-1-1-)	
ORP (mvolts:)	Instrument Mod	iel:	<u>YSI 556</u>	_Standard Solu	tion:	238	Reading (start)	238	(finish)	-
INSTRUMENT MEASUF										
Parameters Time:	Static*	1	2	3	4	5	6	7	8	Stabiliz
Depth to Water (ft)	1225	1240	1245	1250						1250
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
Femperature (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 b **If ORP is negative and		of equipmo	ent.		L: recalibrate	and/or clear	n instrument. If ne	rsistent call PM		
	a constant and a second						1			20.10
SAMPLING INFORMAT	<u>ION</u> San	ple Depth (below		f. pt. X_)	ample Time:	1250	-	Sample ID:	MW	-20-19
Analysis	Method		No. Bottles	Bottle	е Туре	Vol.	Preservation		Handling	
Total Chrom + Nickel			1	1073	stic	250 mL	HNO3		Cooler/Ice	
Hex Chrom			1	Pla	stio	125 mL			Cooler/Ice	
NOTES/OBSERVATION	<u>S:</u>									
	11 C C C C C C C C C C C C C C C C C C									

#### GROUNDWATER SAMPLING DATA SHEET

95 Glastonbury Boulevard, Glastonbury, CT 06033	3 Floot							Well ID Sample Date		MW-21-19 9/20/2022
PROJECTINFORMATI			Superior Plating	g	Location	: So	uthport, CT	File No.	4	3459
WATER LEVEL OBSER Reference Point of Measur Well Completion: Difference Between PVC a Well Screened Interval (fbg HACH Kit Type	ement: PVC Ri Stand Pipe and Casing Top (fi	Road B	Measurement D teel Casing ox 2 0.40		Reference E Ground Ele Difference i	vation (feet) n Elevation vation - Ground	(feet):	Collector Initia	ls:	SHS
Total Length of Well (feet) Depth to Water (feet): Standing Water in Well (fe			om Ref. Point 27.48 18.30 9.18	18	Ground 7.88 3.70 .18	Total Purg	Point Measurement - ed Sampled Volun ters by 0.2642 to g	2.5	vation) ] gallons or	☑ liters
Well Condition: Protective Well head vapors: VOCs (		good; Lock		nsion Cap - <u>)</u> Methane (FII		D - <u>Yes / N</u>	o; Concrete Collar ppmv	- <u>Yes / No;</u> Wel Other	l - poor / good	<u>d</u> ppmv
Pump Type: Electr	☐ Grab ☐ ric Submersible		Low Flow 🗹 Peristaltic 🗹		od: Bail [ Bladder Pu		✓ Flow-Thru C Other: □	ell Vol: (460m	L) 🗹 Othe	r: 250 mL
CALIBRATION DATA: Specific Conductance: 5H (s.u.): DO (mg/L): Furbidity (NTU): DRP (m volts:)	Instrument Moo Instrument Moo Instrument Moo Instrument Moo Instrument Moo	iel: iel: iel:	YSI 556 YSI 556 Micro TPI	Standard Sol Reading: Standard Sol Standard Sol Standard Sol	pH 4: ution: ution:	1000 4.00 100% 1000/10/0. 238	Reading (start) pH 7: Reading (start) 02 Reading (start) Reading (start)	7.01 100.00% calibrated	(finish) pH 10: (finish) (finish)	10.01
NSTRUMENT MEASU	REMENTS:									
Parameters	Static*	1	2	3	4	5	6	7	8	Stabilized
Time: Depth to Water (ft) below Ref. point drawdown <0.3)	1255	1310	1315	20.00						20.00
/olume Purged (L)		1.5	0.5	0.5						0.5
Purge Rate (ml/min)		100	100	100						100
Cemperature (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
OO (10%) (mg/L)		2.95	2.93	2.90						2.90
H (+/- 0.1) (s.u.)		6.08	6.07	6.07						6.07
ORP** (+/- 10) (mvolts)		231.3	227.8	226.5						226.5
urbidity (<5) (10%) (ntu)		1.45	0.60	0.31						0.31
*Static measurement is b **If ORP is negative and	d DO is greater th	an 2 mg/L o ple Depth:	or if DO is greater	5	/L; recalibrate Sample Time:		n instrument. If per	rsistent call PM. Sample ID:	MW	-21-19
Analysis Total Chrom + Nickel	Method		No. Bottles 1		e Type astic	Vol. 250 mL	Preservation HNO3		Handling Cooler/Ice	
Hex Chrom			1	Pla	astic	125 mL			Cooler/lce	

#### NOTES/OBSERVATIONS:

Color: Orange

Product Thickness\*: (\*Call PM if present)

Odor: None

N/A

Good

Well Condition:

#### GROUNDWATER SAMPLING DATA SHEET

95 Glastonbury Boulevard, Glastonbury, CT 06033	, 3 Floot							Well ID: Sample Date:		OI 9/20/20
PROJECT INFORMAT	ION									
	Project Name:	ki.	Superior Platin	ng	_ Location	So	uthport, CT	File No.	43	459
VATER LEVEL OBSEN Leference Point of Measur Vell Completion: Difference Between PVC a Vell Screened Interval (fby IACH Kit Type	ement: PVC Ri Stand Pipe and Casing Top (for	ser 🗹 Ste Road Bo	Measurement   eel Casing x 2 0.15	Ground		ation (feet) n Elevation ation - Ground	(feet):	Collector Initial	s:	<u>SHS</u>
0.00 m		Depth fro	m Ref. Point	Depth Below	Ground	(Reference	Point Measurement -	Difference in Elev	vation)	
otal Length of Well (feet) epth to Water (feet):	:		19.31 19.46							[]]
anding Water in Well (fe	et):		17.53 17.5							
Vell Condition: Protective Vell head vapors: VOCs (			<u>Yes / No;</u> Exp ppmv	ansion Cap - <u>Y</u> Methane (FII		D - <u>Yes / N</u>	o; Concrete Collar ppmv	- <u>Yes / No;</u> Well Other	- <u>poor / good</u>	_ppmv
ample Method: Bail [ ump Type: Elect	☐ Grab ☐ ric Submersible		Low Flow 🗹 Peristaltic 🔽		od: Bail [ Bladder Pu		Flow-Thru C Other:	ell Vol: (460mL	.) 🗹 Other	r: □ _250 mL
ALIBRATION DATA: pecific Conductance: H (s.u.): O (mg/L): urbidity (NTU): RP (mvolts:)	Instrument Moo Instrument Moo Instrument Moo Instrument Moo Instrument Moo	tel: tel: tel:	YSI 556 YSI 556 YSI 556 Micro TPI YSI 556	Standard Sol Reading: Standard Sol Standard Sol Standard Sol	pH 4: ution: ution:	1000 4.00 100% 1000/10/0. 238	Reading (start) pH 7: Reading (start) 02 Reading (start) Reading (start)	1000 7.01 100.00% calibrated 238	(finish) pH 10: (finish) (finish)	10.01
STRUMENT MEASU	REMENTS:									
Parameters	Static*	1	2	3	4	5	6	7	8	Stabilize
me: epth to Water (ft)	1040	1055	1100	1105						1105
low Ref. point rawdown <0.3)	1.78	3.42	4.02	4.42						4.42
olume Purged (L)		1.5	0.5	0.5						0.5
rge Rate (ml/min)		100	100	100						100
emperature (3%) °F		19.42	19.42	19.45						19.45
ec. Cond. (3%) (µS)		37	33	32						32
linity (3%) (mg/L)		0.02	0.01	0.01						0.01
O (10%) (mg/L)		0.18	0.15	0.17						0.17
I (+/- 0.1) (s.u.)		7.18	7.15	7.14						7.14
RP** (+/- 10) (mvolts)		-60.2	-58.0	-55.3						-55.3
urbidity (<5) (10%) (ntu)		2.61	1.28	1.12						1.12
*Static measurement is **If ORP is negative an		of equipment	nt.		/L: recalibrate	and/or clear	n instrument. If per	rsistent call PM.		1.12
AMPLING INFORMA		nple Depth:	~17 grade or re		Sample Time:	-40 Mar 194	_	Sample ID:	0	B-7
nalysis	Method		No. Bottles	Bottl	е Туре	Vol.	Preservation		Handling	
tal Chrom + Nickel			1	1000	astic astic	250 mL 125 mL	HNO3		Cooler/Ice Cooler/Ice	
			•	1 10					Conteriet	
<b><b>JTES/OBSERVATION</b></b>	NS:									
olor: Clear	Odor:	None	Product Thick	ness*:	N/A		Well Condition		No Expansion	n Cap

#### GROUNDWATER SAMPLING DATA SHEET

Location:

Superior Plating

Southport, CT

 Well ID:
 OB-9

 Sample Date:
 9/21/2022

43459

File No.

PROJECT INFO	RMATION
	Project Name
	OBCERNINE

WATER LEVEL OBSER	sector of the providence of the sector	_	Measurement			1/2022		Collector Init	als:	SHS
Reference Point of Measure			teel Casing	Ground		levation (fee	et)			-11
Well Completion:	Stand Pipe	Road Bo	A153	0	Ground Ele		(r <del>- 0</del>			-
Difference Between PVC a Well Screened Interval (fbg		eet):	0.2	0		n Elevation ( vation - Ground	1. <del>- 0.</del>			-00
HACH Kit Type	NA			_	Other Field Me					
		Depth fr	om Ref. Point	Depth Below	Ground	(Reference l	Point Measurement -	Difference in El	evation)	
Fotal Length of Well (feet)			9.40		.60	]				-
Depth to Water (feet):		9.30		0.50			ed Sampled Volum		gallons or	✓ liters
Standing Water in Well (fee	and the second sec		0.10			-	ters by 0.2642 to ge	1997 - Televine State 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997		
Well Condition: Protective Well head vapors: VOCs (		good; Lock	- <u>Yes / No;</u> Exp _ppmv	oansion Cap - <u>Y</u> Methane (FII		ID - <u>Yes / No</u>	o; Concrete Collar ppmv	- <u>Yes / No;</u> We Othe		_ppmv
Sample Method: Bail	] Grab 🗌	Pump 🗌	Low Flow	] Purge Meth			🗹 Flow-Thru C	ell Vol: (460n	nL) 🗹 Other	: 🗆
Pump Type: Electr	ic Submersible		Peristaltic		Bladder Pu	ımp 🗖	Other:			250 mL
CALIBRATION DATA:										
Specific Conductance:	Instrument Mo	del:	YSI 556	Standard Soli	ution:	1000	Reading (start)	1000	(finish)	
pH (s.u.):	Instrument Mo		YSI 556	Reading:	pH 4:	4.00	pH 7:	7.01	pH 10:	10.01
DO (mg/L):	Instrument Mo	del:	YSI 556	Standard Solu		100%	Reading (start)	100.00%	(finish)	
Furbidity (NTU):	Instrument Mo		Micro TPI	_Standard Solu			02 Reading (start)	calibrated	(Galab)	
ORP (mvolts:)	Instrument Mo	del:	<u>YSI 556</u>	Standard Solu	uuon:	238	Reading (start)	238	(finish)	-
NSTRUMENT MEASU								-		
Parameters	Static*		2	3	1 198 B 4 199 B	5	6	7	8	Stabilized
Fime:	0810			2						
Depth to Water (ft)										
below Ref. point	0.20									
(drawdown <0.3)	9.30									
Volume Purged (L)										
Purge Rate (ml/min)								1		
Temperature (3%) °F										
Spec. Cond. (3%) (µS)										
Salinity (3%) (mg/L)							_			
DO (10%) (mg/L)										
oH (+/- 0.1) (s.u.)			111							
ORP** (+/- 10) (mvolts)										
Furbidity (<5) (10%) (ntu)										
*Static measurement is a **If ORP is negative and	before installation d DO is greater th	n of equipme han 2 mg/L o	ent. or if DO is grea	ter than 10 mg/	L; recalibrate	and/or clean	instrument. If per	sistent call PM	ſ.	
SAMPLING INFORMAT	TION San	nple Depth: (below	~9.38 grade or re	S	ample Time:	0810	-	Sample ID:	O	3-9
		(00101			There	1/-1	D		Headly	
Analysis Each Channa I Nichol	Method		No. Bottles		e Type	Vol.	Preservation HNO3		Handling Cooler/lee	
Total Chrom + Nickel			1	1-10-00	stic	250 mL			Cooler/Ice	
Hex Chrom			1	Pla	stic	125 mL			Cooler/Ice	
inter children										

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

Page 1 of 23

### 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	
'W-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	
W-10	2030467-09	Water	3/17/2022 11:40	03/17/2022	
W-12	2030467-10	Water	3/17/2022 13:40	03/17/2022	
W-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	
4W-1	2030467-13	Water	3/17/2022 10:15	03/17/2022	
4W-2	2030467-14	Water	3/17/2022 11:05	03/17/2022	
1W-4	2030467-15	Water	3/17/2022 11:50	03/17/2022	
4W-11	2030467-16	Water	3/17/2022 13:10	03/17/2022	
4W-12	2030467-17	Water	3/17/2022 14:15	03/17/2022	
1W-13	2030467-18	Water	3/17/2022 8:55	03/17/2022	
1W-14-07	2030467-19	Water	3/17/2022 13:40	03/17/2022	
1W-17-13	2030467-20	Water	3/17/2022 12:32	03/17/2022	
)B-9	2030467-21	Water	3/17/2022 9:35	03/17/2022	
DUP	2030467-22	Water	3/17/2022 13:40	03/17/2022	

# 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	

#### 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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# 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	

# 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	

#### 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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# 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	

# 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 Analy	zed: 3/18/202	22	
Chromium	ND	0.050							
Nickel	ND	0.050							
ron	ND	0.10							
LCS (B2C1805-BS1)					Prepared: 3	/18/2022 Analy	zed: 3/18/202	22	
Chromium	0.193	0.050	0.200		96.4	85 - 115			
Nickel	0.203	0.050	0.200		102	85 - 115			
ron	4.87	0.10	5.000		97.4	85 - 115			
Matrix Spike (B2C1805-MS2)		Source: 2030	467-18		Prepared: 3	/18/2022 Analy:	zed: 3/18/202	2	
Chromium	0.190	0.050	0.200	ND	94.9	75 - 125			
vickel	0.455	0.050	0.200	0.251	102	75 - 125			
ron	7.14	0.10	5.000	2.64	90.0	75 - 125			

Project: Superior Plating, Southport

#### Batch B2C1820 - SM 3500-Cr B RL Result Spike Source % Rec RPD RPD Analyte (mg/L)(mg/L)Level Result % Rec Limits 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

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 Analy	zed: 3/17/202	22		
Dissolved Hexavalent Chromium	ND	0.020								
Hexavalent Chromium	ND	0.020								
LCS (B2C1821-BS1)					Prepared: 3	/17/2022 Analy	zed: 3/17/202	22		
Dissolved Hexavalent Chromium	0.21	0.020				80 - 120			L	
Hexavalent Chromium	0.21	0.020	0.200		103	80 - 120				

Project: Superior Plating, Southport

		Batch B	32C2105 - I	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 Analy	zed: 3/21/20	22	
Chromium	ND	0.050							
Nickel	ND	0.050							
LCS (B2C2105-BS1)					Prepared: 3	/21/2022 Analy	zed: 3/21/202	22	
Chromium	0.195	0.050	0.200		97.6	85 - 115			
Nickel	0.195	0.050	0.200		97.5	85 - 115			

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 (B2C21 20-BLK1)					Prepared: 3	/21/2022 Analy	zed: 3/22/202	22							
Chromium	ND	0.050													
Nickel	ND	0.050													
LCS (B2C2120-BS1)					Prepared: 3	/21/2022 Analy	zed: 3/22/202	22							
Chromium	0.202	0.050	0.200		101	85 - 115									
Nickel	0.204	0.050	0.200		102	85 - 115									

Project: Superior Plating, Southport

		Batch B	32C2130 - I	EPA 300.0			1		
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 Analy	zed: 3/21/20	22	
Sulfate	ND	1.0							
LCS (B2C2130-BS1)					Prepared: 3	/21/2022 Analy	zed: 3/21/20	22	
Sulfate	5.2	1.0	5.000		104	90 - 110			

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

Sincerely,

David Sitta

David Ditta Laboratory Director

This technical report was reviewed by Robert Blake

R Blah J

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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#### 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	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	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 Massachussets 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 I	(D(s):	Sample Date(s):
2030467-01 thru 20304	467-22	03/17/2022
List RCP Methods U	sed:	<b>CET #:</b> 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?	Yes No
1A	Were the method specified preservation and holding time requirements met?	Yes 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)?	Yes No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	Yes No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes No
5b	b) Were these reporting limits met?	Yes No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes 🛛 No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	Yes 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:

1AP

Position: Laboratory Director

Date: 03/23/2022

Printed Name: David Ditta

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

B2C1805S2C18052030467-01CW-1EPA 200.7Water03/17/2022B2C1805S2C18052030467-02CW-2EPA 200.7Water03/17/2022B2C1805S2C18052030467-03CW-3EPA 200.7Water03/17/2022B2C1805S2C18052030467-04CW-5EPA 200.7Water03/17/2022B2C1805S2C18052030467-05CW-6EPA 200.7Water03/17/2022B2C1805S2C18052030467-06CW-7EPA 200.7Water03/17/2022B2C1805S2C18052030467-07CW-8EPA 200.7Water03/17/2022B2C1805S2C18052030467-08CW-9EPA 200.7Water03/17/2022B2C1805S2C18052030467-10CW-10EPA 200.7Water03/17/2022B2C1805S2C18052030467-10CW-12EPA 200.7Water03/17/2022B2C1805S2C18052030467-12CW-13EPA 200.7Water03/17/2022B2C1805S2C18052030467-13MW-1EPA 200.7Water03/17/2022B2C1805S2C18052030467-13MW-1EPA 200.7Water03/17/2022B2C1805S2C18052030467-14MW-2EPA 200.7Water03/17/2022B2C1805S2C18052030467-15MW-4EPA 200.7Water03/17/2022B2C1805S2C18052030467-16MW-11EPA 200.7Water03/17/2022B2C1805S2C18052030467-16	Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	<b>Collection Date</b>
B2 C1805       S2C1805       2030467-03       CW-3       EPA 200.7       Water       03/17/2022         B2 C1805       S2C1805       2030467-04       CW-5       EPA 200.7       Water       03/17/2022         B2 C1805       S2C1805       2030467-05       CW-6       EPA 200.7       Water       03/17/2022         B2 C1805       S2C1805       2030467-06       CW-7       EPA 200.7       Water       03/17/2022         B2 C1805       S2C1805       2030467-06       CW-7       EPA 200.7       Water       03/17/2022         B2 C1805       S2C1805       2030467-07       CW-8       EPA 200.7       Water       03/17/2022         B2 C1805       S2C1805       2030467-07       CW-8       EPA 200.7       Water       03/17/2022         B2 C1805       S2C1805       2030467-08       CW-9       EPA 200.7       Water       03/17/2022         B2 C1805       S2C1805       2030467-10       CW-12       EPA 200.7       Water       03/17/2022         B2 C1805       S2C1805       2030467-12       CW-13       EPA 200.7       Water       03/17/2022         B2 C1805       S2C1805       2030467-13       MW-1       EPA 200.7       Water       03/17/2022	B2C1805	S2C1805	2030467-01	CW-1	EPA 200.7	Water	03/17/2022
B2C1805S2C18052030467-04CW-5EPA 200.7Water03/17/2022B2C1805S2C18052030467-05CW-6EPA 200.7Water03/17/2022B2C1805S2C18052030467-06CW-7EPA 200.7Water03/17/2022B2C1805S2C18052030467-07CW-8EPA 200.7Water03/17/2022B2C1805S2C18052030467-07CW-8EPA 200.7Water03/17/2022B2C1805S2C18052030467-08CW-9EPA 200.7Water03/17/2022B2C1805S2C18052030467-09CW-10EPA 200.7Water03/17/2022B2C1805S2C18052030467-10CW-12EPA 200.7Water03/17/2022B2C1805S2C18052030467-12CW-13EPA 200.7Water03/17/2022B2C1805S2C18052030467-13MW-1EPA 200.7Water03/17/2022B2C1805S2C18052030467-14MW-2EPA 200.7Water03/17/2022B2C1805S2C18052030467-15MW-4EPA 200.7Water03/17/2022B2C1805S2C18052030467-16MW-11EPA 200.7Water03/17/2022B2C1805S2C18052030467-16MW-11EPA 200.7Water03/17/2022B2C1805S2C18052030467-16MW-11EPA 200.7Water03/17/2022B2C1805S2C18052030467-16MW-12EPA 200.7Water03/17/2022B2C1805S2C18052030467	B2C1805	S2C1805	2030467-02	CW-2	EPA 200.7	Water	03/17/2022
B2C1805S2C18052030467-05CW-6EPA 200.7Water03/17/2022B2C1805S2C18052030467-06CW-7EPA 200.7Water03/17/2022B2C1805S2C18052030467-07CW-8EPA 200.7Water03/17/2022B2C1805S2C18052030467-08CW-9EPA 200.7Water03/17/2022B2C1805S2C18052030467-09CW-10EPA 200.7Water03/17/2022B2C1805S2C18052030467-10CW-12EPA 200.7Water03/17/2022B2C1805S2C18052030467-12CW-13EPA 200.7Water03/17/2022B2C1805S2C18052030467-12CW-13EPA 200.7Water03/17/2022B2C1805S2C18052030467-13MW-1EPA 200.7Water03/17/2022B2C1805S2C18052030467-14MW-2EPA 200.7Water03/17/2022B2C1805S2C18052030467-15MW-4EPA 200.7Water03/17/2022B2C1805S2C18052030467-16MW-11EPA 200.7Water03/17/2022B2C1805S2C18052030467-16MW-11EPA 200.7Water03/17/2022B2C1805S2C18052030467-16MW-11EPA 200.7Water03/17/2022B2C1805S2C18052030467-17MW-12EPA 200.7Water03/17/2022B2C1805S2C18052030467-18MW-13EPA 200.7Water03/17/2022B2C1805S2C180520304	B2C1805	S2C1805	2030467-03	CW-3	EPA 200.7	Water	03/17/2022
B2 C1805S2C18052030467-06CW-7EPA 200.7Water03/17/2022B2 C1805S2C18052030467-07CW-8EPA 200.7Water03/17/2022B2 C1805S2C18052030467-08CW-9EPA 200.7Water03/17/2022B2 C1805S2C18052030467-09CW-10EPA 200.7Water03/17/2022B2 C1805S2C18052030467-10CW-12EPA 200.7Water03/17/2022B2 C1805S2C18052030467-12CW-13EPA 200.7Water03/17/2022B2 C1805S2C18052030467-13MW-1EPA 200.7Water03/17/2022B2 C1805S2C18052030467-14MW-2EPA 200.7Water03/17/2022B2 C1805S2C18052030467-15MW-4EPA 200.7Water03/17/2022B2 C1805S2C18052030467-16MW-11EPA 200.7Water03/17/2022B2 C1805S2C18052030467-16MW-11EPA 200.7Water03/17/2022B2 C1805S2C18052030467-16MW-11EPA 200.7Water03/17/2022B2 C1805S2C18052030467-17MW-12EPA 200.7Water03/17/2022B2 C1805S2C18052030467-18MW-13EPA 200.7Water03/17/2022B2 C1805S2C18052030467-18MW-13EPA 200.7Water03/17/2022	B2C1805	S2C1805	2030467-04	CW-5	EPA 200.7	Water	03/17/2022
B2C1805S2C18052030467-07CW-8EPA 200.7Water03/17/2022B2C1805S2C18052030467-08CW-9EPA 200.7Water03/17/2022B2C1805S2C18052030467-09CW-10EPA 200.7Water03/17/2022B2C1805S2C18052030467-10CW-12EPA 200.7Water03/17/2022B2C1805S2C18052030467-12CW-13EPA 200.7Water03/17/2022B2C1805S2C18052030467-13MW-1EPA 200.7Water03/17/2022B2C1805S2C18052030467-14MW-2EPA 200.7Water03/17/2022B2C1805S2C18052030467-15MW-4EPA 200.7Water03/17/2022B2C1805S2C18052030467-16MW-4EPA 200.7Water03/17/2022B2C1805S2C18052030467-16MW-4EPA 200.7Water03/17/2022B2C1805S2C18052030467-16MW-11EPA 200.7Water03/17/2022B2C1805S2C18052030467-16MW-12EPA 200.7Water03/17/2022B2C1805S2C18052030467-17MW-12EPA 200.7Water03/17/2022B2C1805S2C18052030467-18MW-13EPA 200.7Water03/17/2022	B2C1805	S2C1805	2030467-05	CW-6	EPA 200.7	Water	03/17/2022
B2 C1805S2C18052030467-08CW-9EPA 200.7Water03/17/2022B2 C1805S2C18052030467-09CW-10EPA 200.7Water03/17/2022B2 C1805S2C18052030467-10CW-12EPA 200.7Water03/17/2022B2 C1805S2C18052030467-12CW-13EPA 200.7Water03/17/2022B2 C1805S2C18052030467-13MW-1EPA 200.7Water03/17/2022B2 C1805S2C18052030467-14MW-2EPA 200.7Water03/17/2022B2 C1805S2C18052030467-15MW-4EPA 200.7Water03/17/2022B2 C1805S2C18052030467-16MW-4EPA 200.7Water03/17/2022B2 C1805S2C18052030467-16MW-11EPA 200.7Water03/17/2022B2 C1805S2C18052030467-17MW-12EPA 200.7Water03/17/2022B2 C1805S2C18052030467-18MW-13EPA 200.7Water03/17/2022	B2C1805	S2C1805	2030467-06	CW-7	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-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       2030467-15       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	B2C1805	S2C1805	2030467-07	CW-8	EPA 200.7	Water	03/17/2022
B2C1805S2C18052030467-10CW-12EPA 200.7Water03/17/2022B2C1805S2C18052030467-12CW-13EPA 200.7Water03/17/2022B2C1805S2C18052030467-13MW-1EPA 200.7Water03/17/2022B2C1805S2C18052030467-14MW-2EPA 200.7Water03/17/2022B2C1805S2C18052030467-15MW-4EPA 200.7Water03/17/2022B2C1805S2C18052030467-16MW-11EPA 200.7Water03/17/2022B2C1805S2C18052030467-17MW-12EPA 200.7Water03/17/2022B2C1805S2C18052030467-17MW-12EPA 200.7Water03/17/2022B2C1805S2C18052030467-18MW-13EPA 200.7Water03/17/2022	B2C1805	S2C1805	2030467-08	CW-9	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-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       2030467-17       MW-12       EPA 200.7       Water       03/17/2022         B2C1805       S2C1805       2030467-18       MW-13       EPA 200.7       Water       03/17/2022         B2C1805       S2C1805       2030467-18       MW-13       EPA 200.7       Water       03/17/2022	B2C1805	S2C1805	2030467-09	CW-10	EPA 200.7	Water	03/17/2022
B2C1805S2C18052030467-13MW-1EPA 200.7Water03/17/2022B2C1805S2C18052030467-14MW-2EPA 200.7Water03/17/2022B2C1805S2C18052030467-15MW-4EPA 200.7Water03/17/2022B2C1805S2C18052030467-16MW-11EPA 200.7Water03/17/2022B2C1805S2C18052030467-17MW-12EPA 200.7Water03/17/2022B2C1805S2C18052030467-17MW-13EPA 200.7Water03/17/2022	B2C1805	S2C1805	2030467-10	CW-12	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         2030467-16         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	B2C1805	S2C1805	2030467-12	CW-13	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         2030467-17         MW-12         EPA 200.7         Water         03/17/2022           B2C1805         S2C1805         2030467-18         MW-13         EPA 200.7         Water         03/17/2022	B2C1805	S2C1805	2030467-13	MW-1	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	B2C1805	S2C1805	2030467-14	MW-2	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	B2C1805	S2C1805	2030467-15	MW-4	EPA 200.7	Water	03/17/2022
B2C1805 S2C1805 2030467-18 MW-13 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
B2C2105 S2C2107 2030467-19 MW-14-07 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	2030467-20	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	2030467-21	OB-9	EPA 200.7	Water	03/17/2022
B2C2105 S2C2107 2030467-22 DUP 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	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	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		2030467-01	CW-1	EPA 300.0	Water	03/17/2022
B2C2130 2030467-02 CW-2 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		2030467-03	CW-3	EPA 300.0	Water	03/17/2022
B2C2130 2030467-04 CW-5 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		2030467-05	CW-6	EPA 300.0	Water	03/17/2022
B2C2130 2030467-06 CW-7 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		2030467-07	CW-8	EPA 300.0	Water	03/17/2022
B2C2130 2030467-08 CW-9 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		2030467-09	CW-10	EPA 300.0	Water	03/17/2022
B2C2130 2030467-10 CW-12 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		2030467-12	CW-13	EPA 300.0	Water	03/17/2022
B2C2130 2030467-16 MW-11 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		2030467-01	CW-1	SM 3500-Cr B	Water	03/17/2022
B2C1820 2030467-02 CW-2 SM 3500-Cr B Water 03/17/2022	B2C1820		2030467-02	CW-2	SM 3500-Cr B	Water	03/17/2022
B2C1820 2030467-03 CW-3 SM 3500-Cr B Water 03/17/2022	B2C1820		2030467-03	CW-3	SM 3500-Cr B	Water	03/17/2022
B2C1820 2030467-04 CW-5 SM 3500-Cr B Water 03/17/2022	B2C1820		2030467-04	CW-5	SM 3500-Cr B	Water	03/17/2022
B2C1820 2030467-05 CW-6 SM 3500-Cr B Water 03/17/2022	B2C1820		2030467-05	CW-6	SM 3500-Cr B	Water	03/17/2022
B2C1820 2030467-06 CW-7 SM 3500-Cr B Water 03/17/2022	B2C1820		2030467-06	CW-7	SM 3500-Cr B	Water	03/17/2022
B2C1820 2030467-07 CW-8 SM 3500-Cr B Water 03/17/2022	B2C1820		2030467-07	CW-8	SM 3500-Cr B	Water	03/17/2022
B2C1820 2030467-08 CW-9 SM 3500-Cr B Water 03/17/2022	B2C1820		2030467-08	CW-9	SM 3500-Cr B	Water	03/17/2022
B2C1820 2030467-09 CW-10 SM 3500-Cr B Water 03/17/2022	B2C1820		2030467-09	CW-10	SM 3500-Cr B	Water	03/17/2022
B2C1820 2030467-10 CW-12 SM 3500-Cr B Water 03/17/2022	B2C1820		2030467-10	CW-12	SM 3500-Cr B	Water	03/17/2022
B2C1820 2030467-12 CW-13 SM 3500-Cr B Water 03/17/2022	B2C1820		2030467-12	CW-13	SM 3500-Cr B	Water	03/17/2022
B2C1820 2030467-13 MW-1 SM 3500-Cr B Water 03/17/2022	B2C1820		2030467-13	MW-1	SM 3500-Cr B	Water	03/17/2022
B2C1820 2030467-14 MW-2 SM 3500-Cr B Water 03/17/2022	B2C1820		2030467-14	MW-2	SM 3500-Cr B	Water	03/17/2022

CTDEP RCP Laboratory Analysis QA/QC Certification Form - November 2007 Laboratory Quality Assurance and Quality Control Guidance Reasonable Confidence Protocols

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





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CW-1	3-17-22/1110	Gw			-	X														X	X	X	X	X				2	
CW-2	3617-22/1100	GW			+	X														X	X	X	X	X		T	T	2	
CW-3	3-17-22/1050					X														X	X	X	X	X			;"··	2	Γ
CW-5	3-17-22 1030			T		X														X	X	X	X	X		1		2	
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Cw-7	3-17-22/1000					X							1			1				X	X	X	X	X		1		2	
CW-8	3-17-22 0940					X								$\square$	T				T	X	X	X	X	X		1		2	T
CW-9	3.17-22/11/20					X														X	X	X	X	X	1	1		2	
CW-10	3-17-22/1140					X								$\square$						X	X	X	X	X				2	Γ
Cw-12	3-17-22/1340					X														X	X	X	X	X				2	
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\* 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.

Receipt





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CW-13	3-17-22 1045 GW					X															$\times \times$	X	$\langle X \rangle$				2	1
MW-1	3-17-22/1015 GW					X															XX	X					2	
MW-2	3-17-22 1105 GW					X															XX	X					2	1
MW-4	3-17-22/1150 GW					X			Γ									-		0	XX	X				T	2	1
MW-11	3-17-22/1310 GW					X															XX	X	$\langle X \rangle$				2	1
MW-12	3-17-22/1415 GW					X															XX	X					2	1
MW-13	3-17-22 0855 GW					X															XX	X					2	1
MW-14-07	3-17-22/1340 GW					X															XX	X			1		2	1
MW-17-13	3-17-22/1232 GW					X															XX	X				· ·	2	1
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\* 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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DUP	3-17-22 1340	GW				X																X	X	X				100		2	1
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Receipt

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

#### 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

#### 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	<b>OB-7</b>	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	<b>OB-7</b>	ND	0.050	mg/L	1	B2C2225	03/22/2022	03/22/2022 18:11	

#### 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	

# 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 Analyze	d: 3/18/22		
Iexavalent Chromium	ND	0.020							
LCS (B2C1838-BS1)					Prepared: 3	/18/22 Analyze	d: 3/18/22		
Iexavalent Chromium	0.21	0.020	0.200		103	80 - 120			
Duplicate (B2C1838-DUP1)		Source: 2030	507-02		Prepared: 3	/18/22 Analyze	d: 3/18/22		
Iexavalent Chromium	0.010	0.020		0.011			9.52	20	
Matrix Spike (B2C1838-MS1)		Source: 2030	507-02		Prepared: 3	/18/22 Analyze	d: 3/18/22		
Iexavalent Chromium	0.22	0.020	0.200	0.011	103	70 - 130			
Matrix Spike Dup (B2C1838-MSD1)		Source: 2030	507-02		Prepared: 3	/18/22 Analyze	d: 3/18/22		
Iexavalent Chromium	0.22	0.020	0.200	0.011	102	70 - 130	0.464	20	

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 Analyze	d: 3/21/22		
Sulfate	ND	1.0							
LCS (B2C2130-BS1)					Prepared: 3	/21/22 Analyze	d: 3/21/22		
Sulfate	5.2	1.0	5.000		104	90 - 110			

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 Analyze	d: 3/22/22			
Chromium	ND	0.050								
Nickel	ND	0.050								
LCS (B2C2206-BS1)					Prepared: 3	/22/22 Analyze	d: 3/22/22			
Chromium	0.200	0.050	0.200		100	85 - 115				
Nickel	0.200	0.050	0.200		100	85 - 115				

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 (B2C2 225-BLK1)					Prepared: 3	/22/22 Analyze	d: 3/22/22		
Chromium	ND	0.050							
vickel	ND	0.050							
ron	ND	0.10							
.CS (B2C2225-BS1)					Prepared: 3	22/22 Analyze	d: 3/22/22		
hromium	0.225	0.050	0.200		112	85 - 115			
lickel	0.204	0.050	0.200		102	85 - 115			
on	4.80	0.10	5.000		96.0	85 - 115			
Duplicate (B2C2225-DUP1)		Source: 2030	507-02		Prepared: 3	22/22 Analyze	1: 3/22/22		
hromium	ND	0.050		ND				20	
lickel	ND	0.050		ND				20	
ron	0.143	0.10		0.114			23.3	444	
Aatrix Spike (B2C2225-MS1)		Source: 2030	507-02		Prepared: 3/	22/22 Analyzed	1: 3/22/22		
hromium	0.224	0.050	0.200	ND	112	75 - 125			
lickel	0.232	0.050	0.200	ND	116	75 - 125			
on	5.13	0.10	5.000	0.114	100	75 - 125			
fatrix Spike Dup (B2C2225-MSD1)		Source: 2030	507-02		Prepared: 3/	22/22 Analyzed	1: 3/22/22		
hromium	0.215	0.050	0.200	ND	107	75 - 125	4.11	20	
lickel	0.226	0.050	0.200	ND	113	75 - 125	2.53	20	
on	4.96	0.10	5.000	0.114	96.9	75 - 125	3.43	20	

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

Sincerely,

David Sitta

David Ditta Laboratory Director

This technical report was reviewed by Robert Blake

R Blah J

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 # : 2030507 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	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	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.



New York NELAP Accreditation 11982 Rhode Island Certification 199

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



# 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):
2030507-01 thru 2030:	507-06	03/18/2022
List RCP Methods U	ised:	<b>CET #:</b> 2030507
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?	Yes No
1A	Were the method specified preservation and holding time requirements met?	Yes 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)?	Yes No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	Yes No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes 🔲 No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes No
5b	b) Were these reporting limits met?	Yes No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes 🛛 No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	Yes 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:

1.AP

Position: Laboratory Director

Date: 03/24/2022

Printed Name: David Ditta

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	<b>Collection Date</b>
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





2030307							(	CHAIN OF CUSTODY												Client:										
	COMPLETE ENVIR	ONMENTAL	TESTI	NG, I	NC.		1				•						-					CE	T:		Sec			1.		-
Stratford, CT 06615 Fax	: (203) 377-9984 : (203) 377-9952	Matrix A=Air S=Soll W=Water	Turnaround Time ** (check one)				**						🗆 ASE	-	T		M	etals			Π	<u>\$</u>	• •	Addi	dition	nal Analys		sis	-	
e-mail: cetservic e-mail: bottleorde		DW=Drinking Water C=Cassette	· /u	•		ay *	ays)	8260 CT List	alogens	H	T List	NAS	SOX □ SOX		ritv Poll	EP			be	Itered	Filter	Chyname	aun.	-	010	M K				TOTAL # OF CONT. NOTE # T
Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Solid Wipe Other (Specify)	Samo Day	Next Day	Two Day	Three Day	Std (5-7 Days)	8260 CT List	8260 H	CT ETPH	8270 C	8270 PNAs	PCBs	B BCBA	13 Prior	15 CT DEP	Total	SPLP	Dissolved	Fleid Filterad	Lab to Filter	Hex. (	Total CN/DM	NICKE	LID/1	うろう		* 		
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MW-21-19	3-18-22/1120	W					X	_	_				_	1	-	-		-		_		A	Ņ/	$\langle \rangle$	17			-		0
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CONTAINER TYPE (P-Plastic, G-Glass, V-	Service States and a service of the		585	_			-						1	+		1			_			PI	1	1	1	+			Ц	14
	W=Water F= Empty E						-+		V.	<u> </u>	_					_					_									
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Client / Reporting Information	S	24						Proj	ect:	20	ipe	n0	ry	12	nr	ng.				PO #	:			-					-	
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GZA GeoEnvironmental Address							Location: SOUTOPOTT, CT Project #: 43459																							
								CET Quote # Collector(s): MAN																						
35 Nutmeg Dr, Suite 325 City State Zip Trumbull CT 0661								QA/QC     Std     Site Specific (MS/MSD)*     RCP Pkg*     DQAW*       Data Report     PDF     EDD - Specify Format     Other																						
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13

Volatile Soils Only:

Date and Time in Freezer

\* 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 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# 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

#### 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		

#### 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	

#### 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	

#### 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)					Prepared: 5	6/2022 Analyz	ed: 5/6/2022		
Hexavalent Chromium	ND	0.020							
LCS (B2E0601-B§1)					Prepared: 5	6/2022 Analyz	ed: 5/6/2022		
Hexavalent Chromium	0.20	0.020	0.200		99.0	80 - 120			
Duplicate (B2E0601-DUP1)		Source: 2050	136-02		Prepared: 5	6/2022 Analyze	ed: 5/6/2022		
lexavalent Chromium	0.013	0.020		0.016			20.7	20	D
Matrix Spike (B2E0601-MS1)		Source: 2050	136-02		Prepared: 5	6/2022 Analyze	ed: 5/6/2022		
Hexavalent Chromium	0.22	0.020	0.200	0.016	99.5	70 - 130			
Matrix Spike Dup (B2E0601-MSD1)		Source: 2050	136-02		Prepared: 5	6/2022 Analyze	ed: 5/6/2022		
Hexavalent Chromium	0.20	0.020	0.200	0.016	93.0	70 - 130	6.24	20	

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 Analyz	ed: 5/9/2022			
Chromium	ND	0.050								
lickel	ND	0.050								
LCS (B2E0902-BS1)					Prepared: 5	/9/2022 Analyz	ed: 5/9/2022			
Thromium	0.194	0.050	0.200		97.1	85 - 115				
lickel	0.208	0.050	0.200		104	85 - 115				
uplicate (B2E0902-DUP1)		Source: 2050	136-02		Prepared: 5	/9/2022 Analyz	ed: 5/9/2022			
hromium	ND	0.050		ND				20		
lickel	ND	0.050		ND				20		
fatrix Spike (B2E0902-MS1)		Source: 2050	136-02		Prepared: 5	/9/2022 Analyz	ed: 5/9/2022			
hromium	0.202	0.050	0.200	ND	101	75 - 125				
lickel	0.220	0.050	0.200	ND	110	75 - 125				
Aatrix Spike Dup (B2E0902-MSD1)		Source: 2050	136-02		Prepared: 5	/9/2022 Analyz	ed: 5/9/2022			
Chromium	0.205	0.050	0.200	ND	103	75 - 125	1.42	20		
Vickel	0.218	0.050	0.200	ND	109	75 - 125	0.869	20		

#### CET #: 20 50136

Project: Superior Plating, Southport

Project Number: 43459.00

#### Batch B2E0906 - EPA 200.7 % Rec RPD Result RL Spike Source % Rec RPD (mg/L)Result Limits Limit Notes Analyte (mg/L)Level Blank (B2E0906-BLK1) Prepared: 5/9/2022 Analyzed: 5/11/2022 Chromium ND 0.050 ND 0.050 Nickel Prepared: 5/9/2022 Analyzed: 5/11/2022 LCS (B2E0906-BS1) 103 0.206 0.050 0.200 85 - 115 Chromium Nickel 0.215 0.050 0.200 108 85 - 115 Duplicate (B2E0906-DUP1) Source: 2050136-03 Prepared: 5/9/2022 Analyzed: 5/11/2022 ND ND 20 0.050 Chromium 20 0.050 ND Nickel ND Source: 2050136-03 Prepared: 5/9/2022 Analyzed: 5/11/2022 Matrix Spike (B2E0906-MS1) 0.213 0.050 0.200 ND 107 75 - 125 Chromium 0.200 75 - 125 0.228 0.050 ND 114 Nickel Source: 2050136-03 Prepared: 5/9/2022 Analyzed: 5/11/2022 Matrix Spike Dup (B2E0906-MSD1) 107 75 - 125 Chromium 0.213 0.050 0.200 ND 0.0469 20 0.225 0.050 0.200 ND 112 75 - 125 1.59 20 Nickel

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

Sincerely,

David Litta

David Ditta Laboratory Director

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.

This technical report was reviewed by Robert Blake

R Blah J

Project Manager

CET # : 2050136 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	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	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 Massachussets 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: 43459.00
Laboratory Sample	ID(s):	Sample Date(s):
2050136-01 thru 2050	136-11	05/05/2022
List RCP Methods U	sed:	<b>CET #:</b> 2050136
SM 3500-Cr B		

1 Yes No No 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? ✓ Yes No No Were the method specified preservation and holding time requirements met? 14 No No Yes 1B VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)? ✓ N/A ✓ Yes No No 2 Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)? ✓ Yes No No 3 Were samples received at an appropriate temperature (< 6 degrees C.)? **N/A** Yes 🖌 No 4 Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved? ✓ Yes No No 5a a) Were reporting limits specified or referenced on the chain-of-custody? No No ✓ Yes 5b b) Were these reporting limits met? Yes 🖌 No 6 For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents? 1 Yes No No 7 Are project specific matrix spikes and laboratory duplicates included with this data set?

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:

LAP

Position: Laboratory Director

Date: 05/12/2022

Printed Name: David Ditta

Name of Laboratory: Complete Environmental Testing, Inc.

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

#### **RCPCase Narrative**

4- See Exceptions Report Below

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

#### 4- Exceptions Report

				1 1		Recovery	<b>Batch/Sequence</b>
Analyte		QC Type	Exception	Result	RPD	(%)	Sample ID
Hexavalent Ch	romium	DUP	>RPD		20.7		2050136-02
			QC Batch/Seque	ence Report			
Batch	Sequence	CET ID	Sample ID	Specific Me	ethod	Matrix	<b>Collection Date</b>
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 3500-0	Cr B	Water	05/05/2022
B2E0601		2050136-02	SPC-SW-1D	SM 3500-0	Cr B	Water	05/05/2022
B2E0601		2050136-03	SPC-SW-2S	SM 3500-0	Cr B	Water	05/05/2022
B2E0601		2050136-04	SPC-SW-2D	SM 3500-0	Cr B	Water	05/05/2022
B2E0601		2050136-05	SPC-SW-3S	SM 3500-0	Cr B	Water	05/05/2022
B2E0601		2050136-06	SPC-SW-3D	SM 3500-0	Cr B	Water	05/05/2022
B2E0601		2050136-07	SPC-SW-4S	SM 3500-0	Cr B	Water	05/05/2022
B2E0601		2050136-08	SPC-SW-4D	SM 3500-C	Cr B	Water	05/05/2022
B2E0601		2050136-09	SPC-SW-5S	SM 3500-0	Cr B	Water	05/05/2022
B2E0601		2050136-10	SPC-SW-5D	SM 3500-0	Cr B	Water	05/05/2022
B2E0601		2050136-11	DUP	SM 3500-0	Cr B	Water	05/05/2022





### CHAIN OF CUSTODY

Volatile Soils Only:
Date and Time in Freezer

Client:

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Page

COMPLETE ENVIRONMENTAL TESTING, INC. CET: ASE Additional Analysis Metals Matrix Tel: (203) 377-9984 80 Lupes Drive Turnaround Time \*\* A=Air chroin CONT. Stratford, CT 06615 Fax: (203) 377-9952 (check one) S=Soll . chrom e-mail: cetservices@cetlabs.com W=Water PCBs SOX 8260 Aromatics 8260 Halogens DW=Drinkion Poll e-mail: bottleorders@cetlabs.com 8270 CT List TOTAL # OF List Water 15-CT DEP Std (5-7 Days) 8270 PNAs Lab to Filter es Same Day 13 Priority Three Day Pesticides C=Cassette CT ETPH Dissolved Next Day 8260 CT I Two Day 8 RCRA total Solid NOTE SPLP TOLP Collection Sample ID/Sample Depths Wipe Kar Lex Field 3 Total Other Date/Time (include Units for any sample depths provided) (Specify) 2 - W-10 55-20221865 SIN 6 1215 SW 2 135 SW 2 IIYS SW 2 Sw 10SO 0 SW 1100 30 2 SW ¥ 4.5 1020 2 40 SW 1030 2 55 4 6940 SW 2 SD 10950 SW PRESERVATIVE (CI-HCI, N-HNO3, S-H2SO4, Na-NaOH, C=Cool, O-Other) OL CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other) B=Sodium Bisulfate W=Water F= Empty E=Encore) Soil VOCs Only (M=MeOH RELINQUISHED BY: DATE/TIME RECEIVED BY: NOTES: hum 5/5/22 ( MUN MSINSD on SPC-SW-ID 515122 RELINQUISHED BY DATE/TIME RECEIVED BY: 15:40 **RELINQUISHED BY:** DATE/TIME **RECEIVED BY: Project Information** Derior Project SU Client / Reporting Information PO"#: 1. A 4 1 4 1 43459.00 Company Name Location: OCTNPOR Project #: GZA Collector(s): MSNW 75HS CET Quote # 35 nutweg drive Site Specific (MS/VSD) \* RCP Pkg DQAW \* QA/QC Std . C. Zip Data Report VPDF Other EDD - Specify Format ALC CT Other RSR Reporting Limits (check one) X GA □ GB SWP Laboratory Certification Needed (check one) I CT D NY D RI D MA D PA Phone Temp Upon 2.5 °C Evidence of  $(\mathbf{Y})$ N PAGE OF

REV. 12/18 \* 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.

Cooling:





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·(i	Sample ID/Sample Depths include Units for any sample depths provided)	Collection Date/Time	C=Cassette Solid Wipe Other (Specify)	Same Day	Next Day	Two Day	Three Day *	8260 CT LIS	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT 1 8270 PN/	PCBs	Pesticides	8 RCRA	13 Priority Poll 15 CT DEP	Total	SPLP	TCLP	Dissolved Field Filtered	Lab to Filter	THOMA CHINOM	Hexc	nickee	•		.*	а 1		20 J.	NOTE #
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Volatile Soils Only:

Date and Time in Freezer

\* 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 REV.-12/18  $\sim 10^{-1}$ 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# 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

#### 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

#### 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]

#### Prep: EPA 3060A

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	

#### Analyst: PMD

#### Matrix: Soil

#### 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℃	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	

#### Analyte: Total Nickel [EPA 6010C]

#### Prep: EPA 3051A

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]

#### Prep: EPA 3051A

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	I	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	

#### Analyst: SS

#### Matrix: Soil

### Analyst: SS

#### Matrix: Soil

#### QUALITY CONTROL SECTION

#### Batch B2E0635 - EPA 9045D

Analyte	Result (pH Units)	RL (pH Units)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2E0635-BLK1)					Prepared: 5/	6/22 Analyzed	: 5/6/22		
pH	6.54								
Duplicate (B2E0635-DUP1)		Source: 20501	37-05		Prepared: 5/	6/22 Analyzed	: 5/6/22		
рН	7.02			7.02			0.00	5	

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			

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	

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 Analyze	d: 5/10/22			
Chromium	ND	2.0								
lickel	ND	2.0								
.CS (B2E1002-BS1)					Prepared: 5	/10/22 Analyze	d: 5/10/22			
hromium	22.9	2.0	25.000		91.8	80 - 120				
lickel	22.1	2.0	25.000		88.5	80 - 120				
uplicate (B2E1002-DUP1)		Source: 2050	137-05		Prepared: 5	/10/22 Analyze	d: 5/10/22			
hromium	17.8	3.6		16.0			11.2	35		
ickel	12.3	3.6		11.4			7.67	35		
fatrix Spike (B2E1002-MS1)		Source: 2050	137-05		Prepared: 5	/10/22 Analyze	1: 5/10/22			
Chromium	59.0	3.7	46.429	16.0	92.7	75 - 125				
lickel	56.0	3.7	46.429	11.4	96.1	75 - 125				
latrix Spike Dup (B2E1002-MSD1)		Source: 2050	137-05		Prepared: 5	/10/22 Analyze	i: 5/10/22			
hromium	60.2	3.4	42.055	16.0	105	75 - 125	2.12	35		
lickel	53.7	3.4	42.055	11.4	101	75 - 125	4.30	35		

Project: Superior Plating, Southport

Project Number: 43459.00

Batch B2E1011 - EPA /196A										
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 Analyze	d: 5/10/22			
Iexavalent Chromium	ND	5.0								
LCS (B2E1011-BS1)					Prepared: 5/	10/22 Analyze	d: 5/10/22			
lexavalent Chromium	16	5.0	20.000		80.6	80 - 120				
Duplicate (B2E1011-DUP1)		Source: 2050	137-05		Prepared: 5/	10/22 Analyze	d: 5/10/22			
Iexavalent Chromium	ND	9.3		ND				20		
Matrix Spike (B2E1011-MS1)		Source: 2050	137-05		Prepared: 5/	10/22 Analyzed	d: 5/10/22			
lexavalent Chromium	ND	9.3	37.143	ND		80 - 120			L	
Matrix Spike Dup (B2E1011-MSD1)		Source: 2050	137-05		Prepared: 5/	10/22 Analyzed	d: 5/10/22			
lexavalent Chromium	ND	9.3	37.143	ND		80 - 120		20	L	

### Batch B2E1011 - EPA 7196A

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

Sincerely,

Daniel Sitta

David Ditta Laboratory Director

This technical report was reviewed by Robert Blake

R Blah J

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	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	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.



New York NELAP Accreditation 11982 Rhode Island Certification 199

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



#### REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	Complete Environmental Testing, Inc.	Client: GZA GeoF	Invironmental, Inc.
Project Location:	Superior Plating, Southport	<b>Project Number:</b>	43459.00
Laboratory Sample	ID(s):	Sample Date(s):	
2050137-01 thru 2050	137-06	05/05/2022	
List RCP Methods U	ised:	CET #: 205013	7
EPA 6010C, EPA 7196A			
<u> </u>			

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?	Z Yes D No
1A	Were the method specified preservation and holding time requirements met?	Yes 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)?	Yes No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	Yes No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes No
5b	b) Were these reporting limits met?	Yes No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes 🛛 No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	Yes 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:** 

LAP

Position: Laboratory Director

Date: 05/13/2022

Printed Name: David Ditta

Name of Laboratory: Complete Environmental Testing, Inc.

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

-

#### **RCPCase 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	<b>Collection Date</b>
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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## **CHAIN OF CUSTODY**

Volatile Soils Only: e 15 of 15 Date and Time in Freezer Client:

CET:

GOMPLE E ENTITORMENTAL LEGING, I	COMPLETE	ENVIRONMENTAL	TESTING,	IN
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80 Lupes Drive Stratford, CT 06615       Tel: (203) 377-9984 Fax: (203) 377-9952 e-mail: cottleorders@cettabs.com e-mail: bottleorders@cettabs.com       Matrix a-bit www. memericitabs.com       Turnaround Time + (check one)       Metals       Additional Analysis         Sample ID/Sample Depths (include Units for any sample depths provided)       Collection Date/Time       Collection Date/Time       Turnaround Time + (check one)       Image: second www. www. www. www. www. www. www. ww	Page
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	TOTAL # OF CONT. NOTE #
SPC-SED-2     1/1035     Redmant     Y     XXX       SPC-SED-3     1/105     Redmant     Y     XXX       SPC-SED-4     1/105     Redmant     Y     XXX       SPC-SED-5     1/105     redmant     Y     XXX       SPC-SED-5     1/105     redmant     Y     XXX       OUP     V     1005     redmant     Y	TOTAL # NOTE #
SPC-SED-2     1/1035     Redmant     Y     XXX       SPC-SED-3     1/105     Redmant     Y     XXX       SPC-SED-4     1/105     Redmant     Y     XXX       SPC-SED-5     1/1220     redmant     Y     XXX       OUP     V     1005     redinant     Y	T
SPC-SED-3 / 1105 Edment Y SPC-SED-4 / 1150 Edment Y SPC-SED-5 / 1220 Edment V DUP V/1005 Sedinant V SPC-SED-5 / 1220 Edment V	7
SPC-SED-4 / NSO edment 4 SPC-SED-5 / 1270 sedwint V DUP V / 1005 sedwint V V	1
SPC-SED-5 1/1220 sedwant V DUP V/1005 sedinant V V/1005 sedinant V	1
DUP V/1005Sedinant V XXX	3
	1
PRESERVATIVE (CI-HCI, N-HNO3, S-H2SO4, Na-NaOH, C=Cool, O-Other)	
PRESERVATIVE         (CI-HCI, N-HNO3, S-H2SO4, Na-NaOH, C=Cool, O-Other)	
PRESERVATIVE         (CI-HCI, N-HNO3, S-H2SO4, Na-NaOH, C=Cool, O-Other)	
PRESERVATIVE (CI-HCI, N-HNO3, S-H2SO4, Na-NaOH, C=Cool, O-Other)	
	8
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)	0
Soil VOCs Only (M=MeOH B= Sodium W=Water F= Empty E=Encore)	
RELINQUISHED BY: DATE/TIME RECEIVED BY NOTES:	
RELINQUISHED BY: DATE/TIME RECEIVED BY: 5/5/20 NIN MS/MSD ON SPC-SED-S	
RELINQUISHED BY: DATE/TIME RECEIVED BY:	
Project Information	
Client / Reporting Information	+
Company Name Project # 43459,07	
35 NUT MEG ANVE WITH 375	
Address       CET Quote #       Collector(s): MMW TOHS         35 NUT MEG drive grade       State       CET Quote #       Collector(s): MMW TOHS         Grade       GA/QC       State       State       CRCP Pkg*       DQAW*         Thimbuil       CT       CUCCTI       Data Report       PDF       EDD - Specify Format       Other         Report To:       MARCE       E-mail       RSR Reporting Limits (check one)       GA       GB       SWP       Other	
TWINDUI     CT     Cultor       Benort To:     A     E-mail       RSR Reporting Limits (check one)     A GB     SWP       Other	
Mariee, Malam-1 Winnick PGZA, COM Laboratory Certification Needed (check one) SCT NY RI MA PA	
Phone # Temp Upon 2.3 °C Evidence of N PAGE OF OF	

\* 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# 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

#### 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

#### 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	B2I0835	09/08/2022	09/08/2022 15:51	
2090187-02	SPC-SW-1D	ND	0.020	mg/L	1	B2I0835	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	B2I0835	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	B2I0835	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	B2I1220	09/12/2022	09/13/2022 14:00	
2090187-02	SPC-SW-1D	ND	0.050	mg/L	1	B2I1229	09/12/2022	09/13/2022 14:13	
2090187-03	SPC-SW-2S	ND	0.050	mg/L	1	B2I1229	09/12/2022	09/13/2022 14:45	
2090187-04	SPC-SW-2D	ND	0.050	mg/L	1	B2I1229	09/12/2022	09/13/2022 14:50	
2090187-05	SPC-SW-3S	ND	0.050	mg/L	1	B2I1229	09/12/2022	09/13/2022 14:54	
2090187-06	SPC-SW-3D	ND	0.050	mg/L	1	B2I1229	09/12/2022	09/13/2022 14:58	
2090187-07	SPC-SW-4S	ND	0.050	mg/L	1	B2I1229	09/12/2022	09/13/2022 15:03	
2090187-08	SPC-SW-4D	ND	0.050	mg/L	1	B2I1229	09/12/2022	09/13/2022 15:07	
2090187-09	SPC-SW-5S	ND	0.050	mg/L	1	B2I1229	09/12/2022	09/13/2022 15:12	
2090187-10	SPC-SW-5D	ND	0.050	mg/L	1	B2I1229	09/12/2022	09/13/2022 15:16	
2090187-11	DUP	ND	0.050	mg/L	1	B2I1229	09/12/2022	09/13/2022 15:20	

#### 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	B2I1220	09/12/2022	09/13/2022 14:00	
2090187-02	SPC-SW-1D	ND	0.050	mg/L	1	B2I1229	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	B2I1229	09/12/2022	09/13/2022 14:50	
2090187-05	SPC-SW-3S	ND	0.050	mg/L	1	B2I1229	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	B2I1229	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	B2I1229	09/12/2022	09/13/2022 15:16	
2090187-11	DUP	ND	0.050	mg/L	1	B2I1229	09/12/2022	09/13/2022 15:20	

#### QUALITY CONTROL SECTION

#### Batch B2I0835 - 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		
lexavalent Chromium	ND	0.020							
LCS (B210835-BS1)					Prepared: 9	/8/22 Analyzed	: 9/8/22		
lexavalent Chromium	0.21	0.020	0.200		105	80 - 120			
Duplicate (B2I0835-DUP2)		Source: 2090	187-02		Prepared: 9	/8/22 Analyzed	: 9/8/22		
Iexavalent Chromium	ND	0.020		ND				20	
Matrix Spike (B2I0835-MS2)		Source: 2090	187-02		Prepared: 9/8/22 Analyzed: 9/8/22				
Iexavalent Chromium	0.23	0.020	0.200	ND	114	70 - 130			
Matrix Spike Dup (B2I0835-MSD2)		Source: 2090	187-02		Prepared: 9	/8/22 Analyzed:	9/8/22		
Iexavalent Chromium	0.23	0.020	0.200	ND	113	70 - 130	0.885	20	

Project: Superior Plating, Southport

Project Number: 43459

	Batch B210906 - 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)		20.54			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)		Source: 2090	187-03		Prepared: 9/9/22 Analyzed: 9/9/22				
Hexavalent Chromium	ND	0.020		ND				20	
Matrix Spike (B2I0906-MS1)		Source: 2090	187-03		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)		Source: 2090	187-03		Prepared: 9	/9/22 Analyzed:	9/9/22		
Hexavalent Chromium	0.21	0.020	0.200	ND	106	70 - 130	18.0	20	

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 Analyze	d: 9/12/22			
Chromium	0.200	0.050	0.200		100	85 - 115				
Nickel	0.199	0.050	0.200		99.3	85 - 115				

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							
lickel	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			
lickel	0.198	0.050	0.200		99.0	85 - 115			
Duplicate (B2I1229-DUP1)	Source: 2090187-02			Prepared: 9/12/22 Analyzed: 9/13/22					
hromium	ND	0.050		ND				20	
lickel	ND	0.050		ND				20	
fatrix 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			
lickel	0.213	0.050	0.200	ND	107	75 - 125			
Aatrix 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	

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

This technical report was reviewed by Robert Blake

R Blah J

Project Manager

Sincerely,

David Sitta

David Ditta Laboratory Director

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 # : 2090187 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 determ method performance.			
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.			
Batch	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 Massachussets 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: 43459
Laboratory Sample	ID(s):	Sample Date(s):
2090187-01 thru 2090	187-11	09/08/2022
List RCP Methods U	sed:	<b>CET #:</b> 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?	Yes No
1A	Were the method specified preservation and holding time requirements met?	Yes 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)?	Yes No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	Yes No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes No
5b	b) Were these reporting limits met?	Yes No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes 🔽 No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	Yes 🔲 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:** 

LAP

Position: Laboratory Director

Date: 09/14/2022

Printed Name: David Ditta

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	<b>Collection Date</b>
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
B210906		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
B210906		2090187-07	SPC-SW-4S	SM 3500-Cr B	Water	09/08/2022





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

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

#### 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

#### 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	B2I1225	09/12/2022	09/12/2022 15:10	
2090198-02	SPC-SED-2	54	1.0	%	1	B2I1225	09/12/2022	09/12/2022 15:10	
2090198-03	SPC-SED-3	77	1.0	%	1	B2I1225	09/12/2022	09/12/2022 15:10	
2090198-04	SPC-SED-4	46	1.0	%	1	B2I1225	09/12/2022	09/12/2022 15:10	
2090198-05	SPC-SED-5	53	1.0	%	1	B2I1230	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]

#### Prep: EPA 3060A

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	B2I1418	09/14/2022	09/16/2022 11:40	
2090198-02	SPC-SED-2	ND	93	mg/kg dry	10	B2I1418	09/14/2022	09/16/2022 11:40	
2090198-03	SPC-SED-3	ND	6.5	mg/kg dry	1	B2I1418	09/14/2022	09/16/2022 11:40	
2090198-04	SPC-SED-4	ND	11	mg/kg dry	1	B2I1418	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	B2I1418	09/14/2022	09/16/2022 11:40	

Analyst: CGR

Matrix: Soil

#### 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	B210936	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 1D	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	B211509	09/15/2022	09/15/2022 10:20	

#### Analyte: Total Nickel [EPA 6010C]

#### Prep: EPA 3051A

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	B2I1201	09/12/2022	09/12/2022 14:01	
2090198-02	SPC-SED-2	17	3.7	mg/kg dry	1	B2I1201	09/12/2022	09/12/2022 14:06	
2090198-03	SPC-SED-3	25	2.5	mg/kg dry	1	B2I1201	09/12/2022	09/12/2022 14:18	
2090198-04	SPC-SED-4	12	3.7	mg/kg dry	1	B2I1201	09/12/2022	09/12/2022 14:35	
2090198-05	SPC-SED-5	12	3.7	mg/kg dry	1	B2I1317	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]

#### Prep: EPA 3051A

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	B2I1201	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	B2I1201	09/12/2022	09/12/2022 14:35	
2090198-05	SPC-SED-5	18	3.7	mg/kg dry	1	B2I1317	09/13/2022	09/14/2022 13:16	
2090198-06	DUP	30	2.6	mg/kg dry	1	B2I1317	09/13/2022	09/14/2022 13:32	

#### Analyst: SS

#### Matrix: Soil

Analyst: SS

Matrix: Soil

#### QUALITY CONTROL SECTION

#### Batch B210936 - EPA 9045D

Analyte	Result (pH Units)	RL (pH Units)	Spikc Level	Source Result	% Rec	% Rcc Limits	RPD	RPD Limit	Notes
Blank (B210936-BLK1)					Prepared: 9/	/9/2022 Analyz	ed: 9/9/2022		
pH	5.85								
Duplicate (B2I0936-DUP1)		Source: 20901	98-05		Prepared: 9/	/9/2022 Analyz	ed: 9/9/2022		
pH	7.31			7.37			0.817	5	

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

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 (B2I120 1-BLK1)					Prepared: 9	/12/2022 Analy	zed: 9/12/202	22				
Chromium	ND	2.0										
Nickel	ND	2.0										
LCS (B2I1201-BS1)					Prepared: 9	/12/2022 Analy	zed: 9/12/202	22				
Chromium	24.4	1.9	24.038		102	80 - 120						
Nickel	22.7	1.9	24.038		94.4	80 - 120						

Page 7 of 16

Project: Superior Plating, Southport

#### Batch B2I1230 - SM 2540 G % Rec RPD Result RL Spike Source % Rec Limits RPD Notes Analyte (%) (%) Level Result Limit Prepared: 9/12/2022 Analyzed: 9/12/2022 Duplicate (B2I1230-DUP1) Source: 2090198-05 Percent Solids 55 1.0 53 3.57 5

Project: Superior Plating, Southport

Analyte	Result (mg/kg) (t						RPD	RPD Limit	Notes	
Blank (B2I1317-BLK1)					Prepared: 9	/13/2022 Analy:	zed: 9/14/202	.2		
Chromium	ND	2.0								
Nickel	ND	2.0								
LCS (B2I1317-BS1)					Prepared: 9	/13/2022 Analy:	zed: 9/14/202	22		
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)		Source: 20901	198-05		Prepared: 9/13/2022 Analyzed: 9/14/2022					
Chromium	17.9	3.7		18.1			0.998	35		
Nickel	12.0	3.7		12.2			1.84	35		
Matrix Spike (B2I1317-MS1)		Source: 20901	198-05		Prepared: 9	/13/2022 Analy:	zed: 9/14/202	2		
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)		Source: 20901	198-05		Prepared: 9	/13/2022 Analy:	zed: 9/14/202	2		
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		

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 Analy	zed: 9/16/202	22			
Hexavalent Chromium	ND	5.0									
LCS (B2I1418-BS1)					Prepared: 9	/14/2022 Analy	zed: 9/16/202	22			
Hexavalent Chromium	17	5.0	20.000		86.0	80 - 120					
Duplicate (B2I1418-DUP1)		Source: 2090	198-05		Prepared: 9	/14/2022 Analy	zed: 9/16/202	22			
Hexavalent Chromium	ND	94		ND				20			
Matrix Spike (B2I1418-MS1)		Source: 2090	198-05		Prepared: 9	/14/2022 Analy	zed: 9/16/202	22			
Hexavalent Chromium	ND	94	37.500	ND		80 - 120			L		

CET # : 2090198 Project: Superior Plating, Southport

Batch B211509 - SM 2580B-09										
Analyte	Result (mV)	RL (mV)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes	
Duplicate (B2I 1509-DUP1)	l) Source: 2090198-0				Prepared: 9	/15/2022 Analy	zed: 9/15/20	22		
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 colormetric.

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,

David Sitta

David Ditta Laboratory Director

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This technical report was reviewed by Timothy Fusco

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 # : 2090198 Project: Superior Plating, Southport

80 Lupes Drive Stratford, CT 06615



Tel: (203) 377-9984 Fax: (203) 377-9952 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	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	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.



New York NELAP Accreditation 11982 Rhode Island Certification 199

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



### REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Labor	atory Name:	Complete Environmental Testing, Inc.	Client: GZA	GeoEnvironmental, Inc.
Projec	ct Location:	Superior Plating, Southport	Project Numb	ber:
Labor	atory Sample	ID(s):	Sample Date(	(s):
20901	98-01 thru 2090	198-06	09/08/2022	
	CP Methods U 0C, EPA 7196A	ised:	<b>CET #:</b> 20	90198
1	performance cr	ical method referenced in this laboratory report package, we iteria followed, including the requirement to explain any crit lelines, as specified in the CTDEP method-specific Reasonal tents?	eria falling outside of	Yes 🗆
1A	Were the metho	od specified preservation and holding time requirements met	?	☑ Yes □
1B		Methods only: Was the VPH and EPH method conducted w see Section 11.3 of respective RCP methods)?	ithout significant	Yes I
2	<ul> <li>Statistics (Statistics)</li> </ul>	es received by the laboratory in a condition consistent with t n-of-custody document(s)?	hat described on the	Yes 🗖

	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?	
1A	Were the method specified preservation and holding time requirements met?	Yes 🗋 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)?	Yes No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	Yes No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes No
5b	b) Were these reporting limits met?	Yes No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes 🔽 No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	Yes 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:** 

1.A

Position: Laboratory Director

Date: 09/16/2022

Printed Name: David Ditta

Name of Laboratory: Complete Environmental Testing, Inc.

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

No

#### **RCPCase Narrative**

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

#### QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	<b>Collection Date</b>
B211201	S2I1204	2090198-01	SPC-SED-1	EPA 6010C	Soil	09/08/2022
B211201	S2I1204	2090198-02	SPC-SED-2	EPA 6010C	Soil	09/08/2022
B211201	S2I1204	2090198-03	SPC-SED-3	EPA 6010C	Soil	09/08/2022
B211201	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
B210936		2090198-02	SPC-SED-2	EPA 9045D	Soil	09/08/2022
B210936		2090198-03	SPC-SED-3	EPA 9045D	Soil	09/08/2022
B210936		2090198-04	SPC-SED-4	EPA 9045D	Soil	09/08/2022
B210936		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
B211509		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





### CHAIN OF CUSTODY

Volatile Soils Only: Date and Time in Freezer

Client:

CET

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#### COMPLETE ENVIRONMENTAL TESTING, INC.

			-			-			-	-			-							-			-					
80 Lupes Drive	Tel: (203) 377-9984	Matrix A-Air	Tur	narour	nd Tin	ne **						□ ASE	L			Me	tais	-	1	_	4		Addit	ional	Analy	ysis		
	Fax: (203) 377-9952 cet1@cetlabs.com rders@cetlabs.com	S=Scil W=Water DW=Drinking		(chec	< one			tics	2	+		□ X0		llo							Chicom	Chiam	er					CONT.
Sample ID/Sample Depths	Collection	Water C=Cassette Solid Wipe Other	Samo Day *	Next Day •	Three Day *	Std (5-7 Days)	8260 CT List	8260 Aromatics 8260 Halogens	T ETPH	270 CT Lis	8270 PNAs	CBs CB	8 RCRA	3 Priority P	5 CT DEP	Total SDI D	CLP	lssolved	Field Filtered	Lab to Filter	Hex. Ch		Nickel					TOTAL # OF
(include Units for any sample depths provided)		(Specify)	1 vi		- F	SI	80	0 0	. 0	8	8		8	-	-	0 =1	2		ш	-	F	17		$\vdash$		++	_	
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SPC-SED-3	9-8-22 1100				_	X		_				_	-				-	+		_	$\Delta$	$\Delta$	<u>\</u>	++		+	_	1
SPC-SED-4	9-8-22/1145		-		-	X		_				+			_		+	+			X	Y)	XI_	+		++		1
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CONTAINER TYPE (P-Plastic, G-Glass,						_																						2
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\* 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.

1

REV. 10/16

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# 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

#### 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			

#### 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	B212049	09/20/2022	09/20/2022 16:38	
2090543-07	MW-21-19	700	20	mg/L	1000	B212049	09/20/2022	09/20/2022 16:38	
2090543-08	OB-7	ND	0.020	mg/L	1	B212049	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	B212245	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	

#### 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	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	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	B2I2245	09/22/2022	09/23/2022 13:39	
2090543-05	MW-19-19	190	0.25	mg/L	5	B2I2245	09/22/2022	09/23/2022 14:43	
2090543-06	MW-20-19	820	1.0	mg/L	20	B2I2310	09/23/2022	09/23/2022 14:47	
2090543-07	MW-21-19	600	1.0	mg/L	20	B2I2310	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	

#### 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 (B2I2O49-BLK1)					Prepared: 9	/20/22 Analyze	d: 9/20/22		
Hexavalent Chromium	ND	0.020							
LCS (B2I2049-BS1)					Prepared: 9	20/22 Analyze	d: 9/20/22		
Hexavalent Chromium	0.21	0.020	0.200		107	80 - 120			

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)			анал — — — — — — — — — — — — — — — — — — —		Prepared. 9	/22/22 Analyze	d: 9/22/22						
Chromium	ND	0.050											
Nickel	ND	0.050											
LCS (B2I2245-BS1)					Prepared: 9	/22/22 Analyze	d: 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)		Source: 2090	543-04		Prepared: 9	/22/22 Analyze	d: 9/23/22						
Chromium	0.238	0.050	0.200	ND	119	75 - 125							
Nickel	0.371	0.050	0.200	0.167	102	75 - 125							

Project: Superior Plating, Southport

n	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 Analyze	d: 9/23/22						
Chromium	ND	0.050											
Nickel	ND	0.050											
LCS (B2I2310-BS1)					Prepared: 9	23/22 Analyze	d: 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							

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

Sincerely,

David Sitta

David Ditta Laboratory Director

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This technical report was reviewed by Timothy Fusco

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. 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	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	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.



New York NELAP Accreditation 11982 Rhode Island Certification 199

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



### 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):
2090543-01 thru 2090	543-08	09/20/2022
List RCP Methods U	sed:	<b>CET #:</b> 2090543

SM 3500-Cr B

Yes No For each analytical method referenced in this laboratory report package, were all specified QA/QC 1 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? Yes No 14 Were the method specified preservation and holding time requirements met? Yes No VPH and EPH Methods only: Was the VPH and EPH method conducted without significant 1B ✓ N/A modifications (see Section 11.3 of respective RCP methods)? Yes No 2 Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)? Yes No 3 Were samples received at an appropriate temperature (< 6 degrees C.)? N/A Yes No 4 Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved? ✓ Yes No No 5a a) Were reporting limits specified or referenced on the chain-of-custody? Yes No No 5b b) Were these reporting limits met? Yes 🖌 No For each analytical method referenced in this laboratory report package, were results reported for 6 all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents? ✓ Yes No 7 Are project specific matrix spikes and laboratory duplicates included with this data set?

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:

1 LAP

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	<b>Collection Date</b>
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	S212305	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	<b>OB-7</b>	SM 3500-Cr B	Water	09/20/2022





Volatile Soils Only:

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MW-20-19	9-20-22/1250	GW					Х													ŀ		X	X	X						2	
MW-21-19	9-20-22 1320						X															X	JX	JX	$\langle $					2	
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\* 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. we start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes. Page 12 of 12 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

#### 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

#### 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	B212310	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	B212310	09/23/2022	09/23/2022 15:51	
2090565-07	Dup	0.076	0.050	mg/L	1	B212310	09/23/2022	09/23/2022 15:55	

#### 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	<b>MW-1</b>	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	

#### 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 Analyze	1: 9/21/22		
lexavalent Chromium	ND	0.020							
LCS (B2I2151-BS1)					Prepared: 9	/21/22 Analyzed	<b>i</b> : 9/21/22		
lexavalent Chromium	0.23	0.020	0.200		114	80 - 120			
Duplicate (B2I2151-DUP1)		Source: 2090	565-02		Prepared: 9	/21/22 Analyzed	i: 9/21/22		
Iexavalent Chromium	ND	0.020		ND				20	
Matrix Spike (B2I2151-MS1)		Source: 2090	565-02		Prepared: 9	/21/22 Analyzed	i: 9/21/22		
Hexavalent Chromium	0.20	0.020	0.200	ND	99.5	70 - 130			
Matrix Spike Dup (B2I2151-MSD1)		Source: 2090	565-02		Prepared: 9	/21/22 Analyzed	l: 9/21/22		
Iexavalent Chromium	0.21	0.020	0.200	ND	107	70 - 130	6.80	20	

Project: Superior Plating, Southport

Project Number: 43459

		Batch I	3212310 - E	PA 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 Analyze	d: 9/23/22		
Chromium	ND	0.050							
lickel	ND	0.050							
LCS (B2I2310-BS1)					Prepared: 9	/23/22 Analyze	d: 9/23/22		
Inomium	0.197	0.050	0.200		98.4	85 - 115			
lickel	0.194	0.050	0.200		96.8	85 - 115			
ouplicate (B2I2310-DUP1)		Source: 2090	565-02		Prepared: 9	/23/22 Analyze	d: 9/23/22		
hromium	ND	0.050		ND				20	
lickel	0.0567	0.050		0.0584			2.95	20	
fatrix Spike (B2I2310-MS1)		Source: 2090	565-02		Prepared: 9	/23/22 Analyze	d: 9/23/22		
Inomium	0.208	0.050	0.200	ND	104	75 - 125			
lickel	0.254	0.050	0.200	0.0584	97.9	75 - 125			
Matrix Spike Dup (B2I2310-MSD1)		Source: 2090	565-02		Prepared: 9	/23/22 Analyze	d: 9/23/22		
hromium	0.208	0.050	0.200	ND	104	75 - 125	0.192	20	
Vickel	0.258	0.050	0.200	0.0584	99.6	75 - 125	1.37	20	

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

Sincerely,

David Litta

David Ditta Laboratory Director

This technical report was reviewed by Timothy Fusco

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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	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	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 Massachussets 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: 43459
Laboratory Sample 1	(D(s):	Sample Date(s):
2090565-01 thru 20905	565-07	09/21/2022
List RCP Methods U	sed:	<b>CET #:</b> 2090565
SM 3500-Cr B		

Ĩ	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?	Yes No
1A	Were the method specified preservation and holding time requirements met?	Yes 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)?	Yes No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	Yes No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes 🔲 No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes No
5b	b) Were these reporting limits met?	Yes No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes 🔽 No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	Yes 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:

1AP

Position: Laboratory Director

Date: 09/26/2022

Printed Name: David Ditta

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	<b>Collection Date</b>
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	S212305	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



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Volatile Soils Only:

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80 Lupes Drive Tel: Stratford, CT 06615 Fax: e-mail: cetservice	(203) 377-9984 (203) 377-9952	A=Alr S=Soil W=Water	1.0.925 (5)	12000	ck on	ime * 1e)						K 🗆 ASE								ľ		CDC00	-						UNT.
e-mail: bottleorder		DW=Drinking Water C=Cassette	122	i		, (svi	List	omatics	logens		IAS	ZOX □	Se	thy Poll	E du			1	Dered	liter	-		Long Kolo						1 OF C
Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Solid Wipe	Same Day	Next Day *	Two Day	Three Day - Std (5-7 Davs)	8260 CT List	8260 Aromatics	8260 Halogens	APTO CT	8270 PNAs	PCBs	Pesticides	8 HCHA 13 Prioriti	15 CT DEP	Total	SPLP	TCLP	DISSOIVE	Lah to Filter	- I	Harry	いう						TOTAL # OF CONT. NOTE #
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MW-10	9-21-22/104	OGW							_												X	X	XX						60
MW-11	9-21-22 101					X			_	_											P	XX	X			_			2
MW-14-07	9-21-22 105	5 GW							-	_			_		_						X	XX	$\frac{1}{X}$						2
MW-17-13	9-21-22/09	50 GW					$\langle  $				-											$\langle X \rangle$	X						2
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CONTAINER TYPE (P-Plastic, G-Glass, V-V	ial, O-Other)					210															9	>P	>P	>					18
Soil VOCs Only (M=MeOH B= Sodium Bisulfate	W=Water F= Empty	E=Encore)					V	$\mathcal{N}$	$\wedge$																				
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\* 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. w Page 11 of 11



# APPENDIX E DATA QUALITY ASSESSMENT AND DATA USABILITY EVALUATION

#### APPENDIX E DATA QUALITY ASSESSMENT AND DATA USABILITY EVALUATION Superior Plaing 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 Date:	3/23/2022	3/25/2022	5/12/2022	2/2022 5/13/2022 9/14/2022		9/20/2022	9/26/2022	9/26/2022
Data Package Inspection	RCP Dara Package	RCP Data Package	RCP Dam Package	RCP Data Package	RCP Data Package	RCP Dam Package	RCP Data Package	RCP Data Package
Chain of Cusudy Evaluation	20 groundwater samples analyzed for hexavalter chromium, noil -chromium, and rickel. 12 groundwater samples analyzed for sulfate and iron. 1 groundwater sample analyzed for dissolved hexavalter chromium, dissolved chromium, dissolved nulfate, dissolved iron, and dissolved	6 groundwater samples analyzed for hexavalent chromaun and total chromaun. 3 groundwater samples analyzed for sulfate, nickel, and iron.	10 surface water samples analyzed for hesavalent obsonium, total obsonium, and nickel.	5 sediment samples analyzed for hesavalent chromium, total chromium, and nickel	10 surface water samples analyzed for hexavalent shormum, total shromum, and nackel	5 sediment samples analyzed for hexavalent ohromium, total chromium, and nickel	7 groundwater samples analyzed for hexavulers chromium, total chromium, and rickel. 1 groundwater sample analyzed for dissolved hexavalens chromium, dissolved inhomium, 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 enterna	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	Duta are usable as reported	Data are usable as reported	Data are usable as reported

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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 2<sup>nd</sup> day of November, 2023 to the individuals on the Service List for this Docket, dated October 26, 2023.

Lee D. Hoffin

Lee D. Hoffman, Esq.