

Corrective Measures Work Plan

Bridge Cleaners (NYSDEC Site No. 241127)

39-26 30th Street, Long Island City, Queens County, New York

Prepared for

Zhong Chuang Properties, LLC

39-26 30th Street

Long Island City, New York 11101

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Acronyms and Abbreviations

| | |
|-------------|--|
| µg/L | micrograms per liter |
| AS | air sparge |
| AWQS | Class GA Groundwater Ambient Water Quality Standards and Guidance Values |
| CAMP | <i>Community Air Monitoring Plan</i> |
| Carson Voci | Carson Voci Engineering and Geology, D.P.C. |
| cDCE | cis-1,2-dichloroethene |
| DER | Division of Environmental Remediation |
| DER-10 | <i>DER 10 / Technical Requirements for Site Investigation and Remediation</i> |
| Dhc | <i>Dehalococcoides ethenogenes</i> |
| DPT | direct-push technology |
| EECC | Environmental Compliance Control Engineering, D.P.C. |
| EPA | United States Environmental Protection Agency |
| ERD | enhanced reductive dechlorination |
| IRM | interim remedial measure |
| ISCR | in-situ chemical reduction |
| Interim SMP | <i>Interim Site Management Plan</i> |
| mZVI | microscale zero-valent iron |
| NYSDEC | New York State Department of Environmental Conservation |
| PCE | tetrachloroethene |
| QAPP | <i>Quality Assurance Project Plan</i> |
| SVE | soil-vapor extraction |
| TCE | trichloroethene |
| TOGS 1.1.1 | Technical and Operational Guidance Series Memorandum 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" |
| VOC | volatile organic compound |

Engineering Certification

I, Nicholas Krasnecky, P.E., certify that I am a New York State registered Professional Engineer and that this *Corrective Measures Work Plan* was prepared in accordance with applicable statutes and regulations and in substantial conformance with the New York State Department of Conservation, Division of Environmental Remediation Program Policy “DER-10 / Technical Guidance for Site Investigation and Remediation.”



Nicholas Krasnecky, P.E.
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1/30/2024

Date

1 Introduction

Carson Voci Engineering and Geology, D.P.C. (Carson Voci), an affiliate of Terraphase Engineering, Inc., has prepared this *Corrective Measures Work Plan* (CMWP) on behalf of Zhong Chuang Properties, LLC ("Owner") for the Bridge Cleaners site located at 39-26 30th Street, Long Island City, New York (subject site; Figure 1).

During the periodic review process, elevated groundwater concentrations during the April 2023 sampling event indicated a potential deficiency in the air sparge (AS)/soil-vapor extraction (SVE) remedial system at the subject site. The *Record of Decision* (New York State Department of Environmental Conservation [NYSDEC] Division of Environmental Remediation [DER] 2022) required continued operation of the AS/SVE system and continued site monitoring as engineering controls at the subject site in accordance with the *Interim Site Management Plan* (Interim SMP; Environmental Engineering Compliance Control, D.P.C [EECC] 2021a). The Interim SMP is now considered the final SMP, as the *Record of Decision* has been issued and finalized. This CMWP was prepared to address the elevated groundwater concentrations at the subject site per the NYSDEC.

1.1 Site Location and Description

The subject site is currently owned by Zhong Chuang Properties, LLC and is identified by the NYSDEC as Site No. 241127. The subject site is identified as Block 399, Lot 1, on the New York City Tax Map (Figure 2) and is currently being redeveloped via construction of an 11-story residential building with a parking garage on the ground floor. Adjacent buildings to the north and west appear to contain residential units. To the south is a multi-story residential structure. To the east is 30th Street.

1.2 Work Plan Organization

This CMWP is organized by the following sections:

1. **Introduction**
2. **Background.** Presents pertinent information and characteristics of the subject site relevant to the preparation of this CMWP.
3. **Corrective Measures.** Presents a detailed description of the proposed corrective measures at the subject site.
4. **Schedule.** Presents the proposed implementation schedule for the CMWP activities.
5. **Reporting.** Presents the proposed reporting for the activities in this CMWP.
6. **References:** Presents the references utilized in preparation of this CMWP.

This CMWP has been prepared in accordance with paragraphs 6.3(a)6 and 7 of the Program Policy "DER-10 / Technical Requirements for Site Investigation and Remediation" (DER-10; NYSDEC DER 2010).

2 Background

The subject site was previously occupied by a commercial laundry and dry cleaner, Bridge Cleaners, until 2011. Records indicate at least 10 years of use as a commercial dry cleaner. Site investigations were conducted at the subject site and off-site properties from 2009 to 2016. The results of these investigations indicated the presence of dry-cleaning-related compounds tetrachloroethene (PCE) and its breakdown products, including trichloroethene (TCE), in the soil, soil vapor, and groundwater at concentrations exceeding relevant NYSDEC standards and guidelines. The subject site currently has an environmental easement in place, dated March 4, 2019, with an amendment dated April 3, 2023 (Appendix A), and an Interim SMP detailing the institutional and engineering controls and the required inspections, monitoring, maintenance, and reporting activities.

The AS/SVE system was shut down in December 2021 per the *Change of Use Work Plan* (EECC 2021b) to facilitate shut-down monitoring and the demolition of the existing building in preparation for redevelopment of the subject site. The AS/SVE system was intended to be re-started after building demolition per Section 4.2.6 of the *Change of Use Work Plan* yet was not re-started due to the results of the shut-down monitoring and adjustments to the overall redevelopment schedule of the subject site.

The subject site is currently being redeveloped via construction of an 11-story residential building with a parking garage on the ground floor, with activities conducted in accordance with the *Redevelopment Excavation Work Plan* (EECC 2022b) completed in March 2023. The final completed component of the *Redevelopment Excavation Work Plan* activities conducted was the reinstallation and development of the groundwater monitoring well network at the subject site to facilitate groundwater monitoring in accordance with the Interim SMP.

The evaluation of the groundwater data collected from the reinstalled groundwater monitoring well network is the subject of this CMWP.

3 Corrective Measures

A groundwater monitoring event was conducted at the subject site on April 6, 2023, to collect groundwater samples and data in accordance with the Interim SMP and to evaluate the remedial effectiveness of the AS/SVE system after a 16-month shut-down period. Two prior groundwater monitoring events were conducted in January 2022 and April 2022 in accordance with the Interim SMP to also evaluate the effectiveness of the AS/SVE system after a 1-month and 4-month shut-down period, respectively. A second groundwater monitoring event was conducted on August 7, 2023 to confirm the results from the April 2023 groundwater monitoring event.

The results of the April and August 2023 groundwater monitoring events, an evaluation of the current conditions, and the proposed corrective measures to address the on-site groundwater are detailed in this section.

3.1 Groundwater Monitoring - April 2023

Groundwater samples were collected from the on-site groundwater monitoring well network on April 6, 2023, in accordance with Section 4.4.1 of the Interim SMP, and the protocols outlined in the *Quality Assurance Project Plan* (QAPP) included as Appendix 9 of the Interim SMP. A summary of the groundwater monitoring activities and results are presented in the following subsections.

3.1.1 Sampling Procedures

Synoptic water levels were collected from the on-site groundwater monitoring wells prior to sampling and the groundwater flow contours are plotted on Figure 4. The groundwater elevations during the April 2023 sampling event reflected evidence of groundwater at a higher elevation at GW-2R, which flows to both the north and west. Based on the on-site flow direction, groundwater may be flowing on to the subject site from the adjacent property to the southwest.

Groundwater samples were collected from groundwater monitoring wells GW-1R, GW-2R, GW-3R, GW-5R, and GW-6 utilizing low-flow sampling techniques as detailed in the United States Environmental Protection Agency's (EPA) 2022 *Standard Operating Procedure for Low-Stress (Low Flow) / Minimal Drawdown Ground-Water Sample Collection* with dedicated Teflon™-lined tubing for each well. The low-flow purge sheets are included in Appendix B.

The groundwater samples were transported to Alpha Analytical, an Environmental Laboratory Accreditation Program (ELAP) and NYSDEC certified analytical laboratory under chain of custody and analyzed for volatile organic compounds (VOCs) by EPA Method 8260C. The laboratory report (Appendix C) was issued as an Analytical Services Protocol (ASP) Category B deliverable and was validated by a third-party data validator, Alpha Geoscience of Clifton Park, New York (Alpha Geoscience), in accordance with DER-10 requirements. Alpha Geoscience indicated the data was acceptable, with some minor issues identified in the *Data Usability Summary Report* dated June 23, 2023, provided as Appendix D.

The data generated was submitted in an electronic data deliverable that complies with the NYSDEC *Electronic Data Deliverable Manual* (NYSDEC 2018) or as otherwise directed by DER-10.

3.1.2 Analytical Results

The groundwater analytical results were compared to the Class GA Groundwater Ambient Water Quality Standards and Guidance Values (AWQS) in the NYSDEC, Division of Water, 2023 Technical and Operational Guidance Series Memorandum 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (TOGS 1.1.1 AWQS). All five wells exceeded TOGS 1.1.1 AWQS criteria of 5 micrograms per liter ($\mu\text{g}/\text{L}$) for PCE. One well, GW-2R, exceeded the TOGS 1.1.1 AWQS criteria of 5 $\mu\text{g}/\text{L}$ for TCE. All other reported compounds were below the applicable TOGS 1.1.1 AWQS criteria.

The groundwater analytical results from the April 2023 monitoring event are presented in Table 1 and Figure 5, along with the historical groundwater analytical results at the subject site.

3.1.3 Conclusions

Concentrations of PCE in groundwater monitoring wells GW-1R, GW-3R, GW-5R, and GW-6 exceed the TOGS 1.1.1 AWQS criteria, but appear to be stable with respect to historical groundwater data, both during operation and shut-down of the AS/SVE system.

At GW-2R, the groundwater concentrations of PCE and TCE (380 and 25 $\mu\text{g}/\text{L}$, respectively) have increased to levels observed prior to the AS/SVE interim remedial measure modification. The increase in PCE and TCE concentrations at GW-2R could be indicative of potential rebound (the increase of concentrations after the shut-down of a remedial system) after the 16-month (plus) shut down of the AS/SVE system.

On-site groundwater flow is to the north and east and could indicate groundwater from the adjacent property to the southwest is flowing towards and onto the subject site. The property to the south/southwest (upgradient based on current groundwater flow) is the Former Union Wire Die Corporation Site (NYSDEC Site No. C241163), which contained impacts of PCE and TCE in groundwater at concentrations similar to, or higher than, the current concentrations at GW-2R. Groundwater at the Former Union Wire Die Corporation Site was not remediated, as in past investigations groundwater flow was identified to be towards the south/southeast. Therefore, it was determined the impacts migrated from the Bridge Cleaners Site. The current on-site groundwater flow indicates potential residual off-site impact at GW-2R from the Former Union Wire Die Corporation Site. Groundwater flow should be investigated further during one (at minimum) additional groundwater monitoring event.

3.2 AS/SVE System Evaluation

The AS/SVE system, comprised of a single AS well (AS-1) and two SVE wells (RW-2 and RW-3), was installed and began operation in March 2018. In September 2020, the AS/SVE system was modified with the installation of two additional AS wells (AS-2 and AS-3) in the vicinity of groundwater monitoring well GW-2 (currently GW-2R). To facilitate roof and interior demolition activities, the AS/SVE system was shut down on December 8, 2021, having been operating with AS-1, RW-2, and RW-3 for over 3.5 years and with AS-2 and AS-3 for 15 months.

Post-shut-down sub-slab soil vapor, indoor air quality, and groundwater sampling was conducted in January 2022, approximately 30 days after shut down, and the results were presented in the *AS/SVE Remedial Progress Sampling Report* (EECC 2022a) submitted to the NYSDEC. As presented in the report, the sub-slab soil vapor and indoor air quality sampling results indicated remedial effectiveness with respect to the SVE portion of the system. In addition, the groundwater sampling results provided an initial indicator of the remedial effectiveness of the AS portion of the system.

In April 2022, a second post-shut-down groundwater sampling event was conducted to further evaluate the remedial effectiveness of the AS portion of the system. The analytical results from this event continued to be consistent with the groundwater concentrations and trends from the data collected since the modified AS/SVE system start-up in September 2020. These results continued to indicate remedial effectiveness of the AS portion of the system.

The AS/SVE system had been shut down for approximately 16 months prior to the April 2023 groundwater monitoring event detailed in Section 3.1. The groundwater analytical results indicated stable concentrations of PCE and TCE with respect to historical data in all wells, except GW-2R. The significant increase of PCE and TCE concentrations in GW-2R to pre-system modification levels indicates a potential deficiency with respect to the remedial effectiveness of the AS/SVE system in the vicinity of GW-2R.

3.3 Groundwater Monitoring - August 2023

To confirm the groundwater analytical results from the April 2023 monitoring event, a second groundwater monitoring event was conducted on August 7, 2023. The scope, results, and evaluation of the August 2023 groundwater monitoring event were submitted to the NYSDEC in the letter, *Corrective Measures Work Plan – Second Groundwater Monitoring Event Reporting and In-Situ Remediation Final Design dated October 4, 2023*, and is summarized in the following sections.

3.3.1 Sampling Procedures

Synoptic water levels were collected from the on-site groundwater monitoring wells prior to sampling and the groundwater flow contours are plotted on Figure 5. The groundwater elevations during the August 2023 sampling event reflected evidence of groundwater flow to the northwest.

Groundwater samples were collected from groundwater monitoring wells GW-2R, GW-5R, and GW-6 utilizing EPA low-flow sampling techniques with dedicated Teflon™-lined tubing for each well. The low-flow purge sheets are included in Appendix B. GW-1R was not sampled as a significant amount of equipment and materials from the ongoing building construction were blocking access to the well and could not be moved. GW-3R was not sampled, as multiple attempts to purge the well were unsuccessful due to continued blockages of the sampling pump via silt. GW-3R will need to be redeveloped and/or a different type of sampling pump utilized during the next monitoring event. The August 2023 groundwater monitoring event was to confirm prior results in GW-2R and re-evaluate groundwater flow direction. Therefore, the inability to sample these two wells was deemed to not impact the overall goal of the monitoring event and the data from GW-2R, 5R, and 6 was deemed sufficient.

The groundwater samples were transported to Alpha Analytical, an ELAP and NYSDEC certified analytical laboratory under chain of custody and analyzed for VOCs by EPA Method 8260C. The laboratory report (Appendix C) was issued as an ASP Category B deliverable and was validated by a third-party data validator, Alpha Geoscience, in accordance with DER-10 requirements. Alpha Geoscience indicated the data was acceptable, with some minor issues identified in the *Data Usability Summary Report* dated January 25, 2024, provided as Appendix D.

The data generated will be submitted in an electronic data deliverable that complies with DER-10.

3.3.2 Analytical Results

The groundwater analytical results were compared to the TOGS 1.1.1 AWQS criteria. All three wells exceeded TOGS 1.1.1 AWQS criteria of 5 micrograms per liter ($\mu\text{g}/\text{L}$) for PCE. One well, GW-2R, exceeded the TOGS 1.1.1 AWQS criteria of 5 $\mu\text{g}/\text{L}$ for TCE. One well, GW-5, exceeded the TOGS 1.1.1 AWQS criteria of 5 $\mu\text{g}/\text{L}$ for 1,2,4-trimethylbenzene. All other reported compounds were below the applicable TOGS 1.1.1 AWQS criteria.

The groundwater analytical results from the August 2023 monitoring event are presented in Table 1 and Figure 5, along with the historical groundwater analytical results at the Site.

3.3.3 Conclusions

Concentrations of PCE in groundwater monitoring wells GW-1R, GW-3R, GW-5R, and GW-6 exceed the TOGS 1.1.1 AWQS criteria, but appear to be stable with respect to historical groundwater data, both during operation and shut-down of the AS/SVE system.

At GW-2R, the groundwater concentrations of PCE and TCE (650 and 49 $\mu\text{g}/\text{L}$, respectively) have increased compared to the April 2023 concentrations and are currently at higher than any historical concentrations. The continued increase in PCE and TCE concentrations at GW-2R indicates the corrective measures presented in Section 3.4 will need to be implemented.

3.4 Corrective Measures

The April 2023 preliminary groundwater analytical data was provided to the NYSDEC, and a teleconference to discuss the data was held on May 25, 2023. During the teleconference, the NYSDEC indicated that based on the elevated PCE and TCE concentrations at GW-2R, the first periodic review report could not be certified as the AS/SVE system is not working as designed. Therefore, the NYSDEC stated corrective measures were required for the elevated groundwater concentrations at GW-2R, upon confirming the groundwater concentrations during the August 2023 groundwater monitoring event. The proposed corrective measures are presented in the following subsections.

3.4.1 In-Situ Chemical Reduction/Enhanced Reductive Dechlorination Injections

An in-situ chemical reduction (ISCR) and enhanced reductive dechlorination (ERD) injection is proposed based on the current groundwater analytical results, and an implementation determination will be made in consultation with NYSDEC based on the results of the second groundwater monitoring event. Details regarding the selected remedial technologies are presented in the following subsections.

3.4.1.1 Enhanced Reductive Dechlorination

ERD is the addition of organic substrates as electron donor amendments with nutrients, pH buffers, and/or microorganisms to enhance the biodegradation processes and sustain and activate microorganisms that degrade dissolved-phase VOCs (i.e., dechlorinating bacteria). These dechlorinating bacteria can be indigenous to the subsurface into which the amendments are delivered (biostimulation) or may be exogenous bacteria that are grown in a laboratory and introduced into the subsurface (bioaugmentation).

The primary biologically mediated degradation process for subject site VOCs is reductive dechlorination, where parent VOCs serve as electron acceptors and are dechlorinated sequentially to produce daughter-product VOCs. For chloroethenes, the parent VOC (e.g., PCE) serves as an electron acceptor and is dechlorinated sequentially to daughter products TCE, cis-1,2-dichloroethene (cDCE), vinyl chloride (VC) and, finally, ethene. Ethene can be further reduced to ethane (de Bruin et al. 1992).

Most aquifer environments contain bacteria that are capable of reductively dechlorinating PCE and TCE to cDCE. Microorganisms that can mediate this reaction include *Desulfotobacterium*, *Dehalobacter restrictus*, *Desulfuromonas*, *Dehalococcoides ethenogenes* (Dhc), and *Dehalospirillum multivorans* (Sholz-Muramatsu et al. 1995; Gerritse et al. 1996; Krumholz 1996; Löffler et al. 2000; Maymo-Gatell et al. 1997). However, only cultures that contain Dhc have been shown to dechlorinate cDCE and VC to ethene (Maymo-Gatell et al. 1997; Fennell et al. 2001; Duhamel et al. 2002; Lendvay et al. 2003). The dechlorinating bacteria are not ubiquitous in the subsurface.

Bioaugmentation is the addition of commercial dechlorinating bacterial cultures that are grown specifically to enhance reductive dechlorination in settings that lack sufficient native dechlorinating bacteria populations. Current subject site conditions, including the aerobic nature of the aquifer and historical groundwater data not containing detectable concentrations of VC, indicate that the bacteria capable of completing reductive dechlorination beyond cDCE are not present in the subject site's aquifer environment; therefore, bioaugmentation is necessary to dechlorinate the chlorinated ethenes present to ethene. The goal of an ERD remedial action at the subject site is to engineer the subsurface environment to optimize and maintain conditions for dechlorinating bacteria to facilitate complete degradation of chlorinated VOCs to harmless end products.

3.4.1.2 In-Situ Chemical Reduction

The most common chemical reductant used for ISCR of dissolved-phase VOCs is microscale zero-valent iron (mZVI). Beta-elimination is the primary abiotic treatment mechanism for mZVI, and it occurs when

VOCs come into direct contact with the mZVI material. One advantage of the beta-elimination pathway is that it avoids the creation of intermediate daughter products (e.g., cDCE and VC) as parent VOCs (e.g., PCE and TCE) are transformed directly to ethene and ethane via the production of short-lived intermediates such as chloroacetylene and acetylene. The primary biotic treatment mechanism for mZVI is hydrogenolysis, a stepwise process in which the parent VOCs serve as electron acceptors and are dechlorinated sequentially to produce daughter-product VOCs. When mZVI is delivered to the subsurface, it produces hydrogen as it reacts (oxidizes) with the groundwater and aquifer media. The hydrogen that is released from the mZVI reactions serves as an electron donor to support reductive dechlorination via hydrogenolysis. Biotic treatment via ERD is enhanced by the reducing conditions created during abiotic mZVI reactions, which produces groundwater REDOX and pH within the ranges optimal for the microorganisms that facilitate biological degradation. The use of chemical reductant mZVI will result in decreasing dissolved oxygen and oxidation reduction potential levels, and reduce iron and sulfate as part of conditioning the aquifer for rapid and complete microbially mediated reductive dechlorination.

3.4.2 In-Situ Injection Design and Application

The proposed in-situ injection consists of the co-application of ISCR and bioaugmentation ERD amendments via direct-push technology (DPT) injections to facilitate both immediate abiotic remediation and long-term ongoing biotic remediation of dissolved-phase chlorinated VOCs via ISCR and ERD, respectively. The application of an ISCR amendment will also provide the benefit of enhancing the reducing conditions of the aquifer for biotic treatment, which is necessary due to the current aquifer conditions being in an aerobic and oxidative state. A bioaugmentation Dhc culture will be added due to the assumption that native Dhc microbes are not present in the aquifer.

The ISCR/ERD injection is proposed to be injected into the subsurface at the openings through the slab-on-grade and mat foundation, where AS-1, AS-2 and AS-3 were to be reinstalled if necessary (herein referred to as AS-1R, AS-2R and AS-3R) to treat elevated PCE and TCE concentrations at, and in the vicinity of groundwater monitoring well GW-2R. Both AS-2R and AS-3R are located within 5 feet of GW-2R and AS-1R is located approximately 20 feet side-gradient. The proposed injection locations are shown on Figure 6.

Up to 4,500 gallons of solution is proposed to be injected into the 20- to 30-foot below ground surface vertical interval (approximately 1,500 gallons each at AS-1R, AS-2R and AS-3R). The preliminary proposed solution will consist of 3,750 gallons of water combined with 1,275 pounds of ERD substrate and 750 pounds of mZVI (or a similar combined emulsified ZVI amendment containing both ERD and nano-scale ZVI), with up to 18 liters of Dhc microbial consortium added.

The following ISCR/ERD amendments are proposed to be utilized:

- Tersus Environmental mZVI™ Glycerol, PART A EDS-ZVI™
- Tersus Environmental EDS-ER™ (Electron Donor Solution – Extended Release)
- SiREM KB-1® - Dehalococcoides (Dhc) microbial consortium

Specification sheets and/or Safety Data Sheets for the selected amendments are provided as part of Appendix E.

The solution will be emplaced via DPT bottom-up injections, injecting solution into 2-foot vertical intervals at a time. The DPT injections rods will be driven to the 30-foot below ground surface target depth by a GeoProbe® or equivalent and subsequently pulled up 2 feet and the expendable tip pushed out or screened portion of the rod exposed. Flow of injection material via a double-diaphragm pump or equivalent will be started simultaneously to limit backfill of the borehole via the fine sands that have a tendency to “flow.” Once the target volume is reached in the deepest 2-foot interval, the DPT rods will be raised to the top of the next 2-foot interval and the target volume of solution will be injected. This procedure will continue until the total target solution volume is injected. The proposed injection dosing, target volumes, and vertical intervals are provided in Table 2.

Upon completion of all vertical injection intervals, the DPT rods will be removed, and the boreholes will be backfilled with sand to grade.

3.4.3 Post-Injection Groundwater Monitoring

Groundwater monitoring will be conducted at the subject site 3, 6, and 9 months after the injection event. Groundwater samples will be collected at groundwater monitoring well GW-2R and GW-5R during all three monitoring events. The 3 and 9-month monitoring events will also include sample collection at groundwater monitoring wells GW-1R, GW-3R, and GW-6. The analytical results will be utilized to evaluate the ongoing remedial effectiveness of the ISCR/ERD injections. After the 9-month monitoring event, an evaluation will be conducted to determine if the frequency of groundwater monitoring moving forward may be reduced to be consistent with the Interim SMP.

Prior to the collection of groundwater samples, synoptic water levels at all on-site wells will be collected to determine groundwater table elevation and groundwater flow. All groundwater monitoring wells will be sampled via EPA low-flow sampling techniques with dedicated Teflon™-lined tubing for each well. A sample will be collected from each well and submitted to an ELAP accredited analytical laboratory under chain of custody and analyzed for VOCs by EPA Method 8260D. Quality assurance/quality control samples will be collected in accordance with the QAPP.

Samples for geochemical parameters will also be collected at groundwater monitoring well GW-2R and GW-5R to evaluate the aquifer and ongoing remedial effectiveness of the in-situ injections detailed in Section 3.3.2. The anticipated geochemical parameters to be collected and analyzed include, but are not limited to, total organic carbon, ferrous iron, sulfate, sulfide, nitrate, nitrite, dissolved gases, and Dhc. The proposed sampling plan for the post-injection groundwater monitoring is provided in Table 3.

4 Schedule

The estimated schedule for the implementation of the activities presented within this CMWP are as follows:

Estimated Project Schedule

| CMWP Task | Estimated Implementation Timeframe |
|---|------------------------------------|
| Submittal and Receipt of Approved U.I.C. Permit | February 2024 |
| Implement ISCR/ERD In-Situ Injections | March 2024 |
| Prepare and Submit CCR | May 2024 |
| 3-Month Post-Injection Groundwater Monitoring | June 2024 |
| 6-Month Post-Injection Groundwater Monitoring | September 2024 |
| 9-Month Post-Injection Groundwater Monitoring | December 2024 |

The estimated schedule presented above is dependent on the approval of an underground injection control (U.I.C.) permit with the United States Environmental Protection Agency (EPA) Region 2 in February 2024. The estimated schedule would shift accordingly based on the actual date of the U.I.C. permit approval.

5 Reporting

A Construction Completion Report (CCR) will be submitted to the NYSDEC within 60 days after completion of the ISCR/ERD in-situ injection. The CCR will contain a summary of the injection activities including final dosing, injection volumes, daily monitoring, and any licensed professional-approved field changes to the CMWP.

The results of the post-injection groundwater monitoring events will be reported to the NYSDEC via a letter report and/or incorporated into the Periodic Review Report.

6 References

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Tables

- 1 Historical Groundwater Sampling Results
- 2 In-Situ Injection Dosing
- 3 Proposed Groundwater Monitoring Plan

Table 1**Historical Groundwater Sampling Results**

Corrective Measures Work Plan

Bridge Cleaners (NYSDEC Site No. 241127), 39-26 30th St., Long Island City, New York

| SAMPLE ID: | | GW-1 | | | | | | | | | | | | GW-1R | | | | | | | | | | | | | |
|----------------------------|---------|---------------|-------------|-------------|------|-------------|------|-------------|------|-------------|-----|-------------|------|-------------|------|-------------|-----|-------------|------|------|------|------|-----|------|------|-----|-----|
| LAB ID: | | JB59477-5 | L1628504-06 | L1848820-07 | | L2025069-01 | | L2103234-01 | | L2122042-01 | | L2153072-01 | | L2201942-01 | | L2220362-03 | | L2318419-01 | | | | | | | | | |
| COLLECTION DATE: | | 2/8/2014 | 9/9/2016 | 11/28/2018 | | 6/15/2020 | | 1/25/2021 | | 4/28/2021 | | 9/29/2021 | | 1/12/2022 | | 4/19/2022 | | 4/6/2023 | | | | | | | | | |
| SAMPLER: | | TechSolutions | Integral | Integral | | EECC | | EECC | | EECC | | EECC | | EECC | | EECC | | EECC | | | | | | | | | |
| SAMPLE MATRIX: | | WATER | WATER | WATER | | WATER | | WATER | | WATER | | WATER | | Water | | Water | | Water | | | | | | | | | |
| VOLATILE ORGANICS BY GC/MS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANALYTE | NY-AWQS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ug/L | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | | | | | | |
| Chloroform | 7 | 0.99 | J | 1 | 0.25 | -- | -- | -- | -- | ND | 2.5 | 0.7 | 0.78 | 2.5 | 0.7 | 0.8 | J | 2.5 | 0.7 | 0.82 | J | 2.5 | 0.7 | | | | |
| Tetrachloroethene | 5 | 280 | | 10 | 2.5 | 140 | | 0.5 | 0.18 | 74 | 0.5 | 0.18 | 15 | 0.5 | 0.18 | 19 | 0.5 | 0.18 | 9.1 | 0.5 | 0.18 | 12 | 0.5 | 0.18 | | | |
| Vinyl chloride | 2 | ND | 1 | 0.41 | ND | 1 | 0.07 | ND | 1 | 0.07 | ND | 1 | 0.07 | ND | 1 | 0.07 | ND | 1 | 0.07 | ND | 1 | 0.07 | ND | 1 | 0.07 | | |
| trans-1,2-Dichloroethene | 5 | ND | 1 | 0.38 | ND | 0.75 | 0.16 | ND | 0.75 | 0.16 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | |
| Trichloroethene | 5 | 5.4 | | 1 | 0.5 | 1.6 | | 0.5 | 0.18 | 1.4 | 0.5 | 0.18 | 0.65 | 0.5 | 0.18 | 1.1 | 0.5 | 0.18 | 0.59 | 0.5 | 0.18 | 0.83 | 0.5 | 0.18 | | | |
| cis-1,2-Dichloroethene | 5 | 0.34 | J | 1 | 0.24 | 0.43 | J | 0.5 | 0.19 | 0.3 | J | 0.5 | 0.19 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | |
| 1,2-Dichloroethene, Total | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | |
| Acetone | 50 | ND | 10 | 3.3 | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | ND | 5 | 1.5 | ND | 5 | 1.5 | ND | 5 | 1.5 | ND | 5 | 1.5 | ND | 5 | 1.5 |
| 1,2,4-Trimethylbenzene | 5 | -- | -- | -- | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 |
| 1,3,5-Trimethylbenzene | 5 | -- | -- | -- | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 |
| Isopropanol | -- | -- | -- | -- | -- | ND | 100 | 8.5 | -- | -- | -- | -- | 18 | J | 100 | 3.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Isopropylbenzene | 5 | -- | -- | -- | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 |

Notes

Table only includes contaminants of concern and detections

NY-AWQS: NY - New York TOGS 1.1.1 Ambient Water

Quality Standards criteria reflects all addendum to criteria through June 2004.

ug/l = Micrograms per liter

Conc = concentration in ug/L

Q = qualifier

RL = Reporting Limit

MDL = Method Detection Limit

ND = Non-detect

J = Estimated value

-- = Not sampled

Bold Highlighted = Exceeds AWQS**Bold Grey = Detection below AWQS**

Table 1**Historical Groundwater Sampling Results**

Corrective Measures Work Plan

Bridge Cleaners (NYSDEC Site No. 241127), 39-26 30th St., Long Island City, New York

| SAMPLE ID: | | GW-2 | | | | | | | | | | | | GW-2R | | | | | | | | | | | |
|----------------------------|--|---------------|-------------|--------------------------------------|----|-------------|-------------|-------------|-------------|-------------|--|-----|-------------|-------------|-------------|-------------|-----|-----|------|-----|-----|------|------|------|-----|
| LAB ID: | | JB59477-6 | L1628504-04 | Initial System Start up - March 2018 | | L1848820-05 | L2025069-02 | L2103234-02 | L2122042-02 | L2153072-02 | Post-IRM Modification System Start up - September 2020 | | L2201942-02 | L2220363-01 | L2318419-04 | L2345491-02 | | | | | | | | | |
| COLLECTION DATE: | | 2/8/2014 | 9/9/2016 | | | 11/28/2018 | 6/15/2020 | 1/25/2021 | 4/28/2021 | 9/29/2021 | | | 1/12/2022 | 4/19/2022 | 4/6/2023 | 8/7/2023 | | | | | | | | | |
| SAMPLER: | | TechSolutions | Integral | | | Integral | EECC | EECC | EECC | EECC | | | EECC | EECC | EECC | ECC | | | | | | | | | |
| SAMPLE MATRIX: | | WATER | WATER | | | WATER | WATER | WATER | WATER | WATER | | | WATER | WATER | Water | Water | | | | | | | | | |
| VOLATILE ORGANICS BY GC/MS | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANALYTE | | NY-AWQS | | | | | | | | | | | | | | | | | | | | | | | |
| | | ug/L | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | | | |
| Chloroform | | 7 | 4.2 | | 1 | 0.25 | -- | -- | -- | ND | 6.2 | 1.8 | | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | | |
| Tetrachloroethene | | 5 | 165 | | 10 | 2.5 | 200 | | 0.5 | 0.18 | 240 | 1.2 | 0.45 | 300 | 1.2 | 0.45 | 18 | 0.5 | 0.18 | 0.4 | J | 0.5 | 0.18 | 0.73 | |
| Vinyl chloride | | 2 | ND | | 1 | 0.41 | ND | | 1 | 0.07 | ND | 2.5 | 0.18 | ND | 2.5 | 0.18 | ND | 1 | 0.07 | ND | 1 | 0.07 | ND | | |
| trans-1,2-Dichloroethene | | 5 | ND | | 1 | 0.38 | ND | | 0.75 | 0.16 | ND | 1.9 | 0.41 | ND | 6.2 | 1.8 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | | |
| Trichloroethene | | 5 | 2.4 | | 1 | 0.5 | 14 | | 0.5 | 0.18 | 5.6 | 1.2 | 0.44 | 11 | 1.2 | 0.44 | ND | 0.5 | 0.18 | ND | 0.5 | 0.18 | ND | | |
| cis-1,2-Dichloroethene | | 5 | 0.81 | J | 1 | 0.24 | 0.31 | J | 0.5 | 0.19 | ND | 1.2 | 0.47 | ND | 6.2 | 1.8 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | | |
| 1,2-Dichloroethene, Total | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | |
| Acetone | | 50 | ND | | 10 | 3.3 | -- | -- | -- | ND | 12 | 3.6 | -- | -- | -- | ND | 5 | 1.5 | ND | 5 | 1.5 | ND | 5 | 1.5 | |
| 1,2,4-Trimethylbenzene | | 5 | -- | -- | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | 4.4 | J | 6.2 | 1.8 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 |
| 1,3,5-Trimethylbenzene | | 5 | -- | -- | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | 4.4 | J | 6.2 | 1.8 | -- | -- | -- | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 |
| Isopropanol | | -- | -- | -- | -- | -- | 13 | J | 100 | 8.5 | ND | 250 | 8.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Isopropylbenzene | | 5 | -- | -- | -- | -- | -- | -- | -- | ND | 6.2 | 1.8 | -- | -- | -- | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | |

Notes

Table only includes contaminants of concern and detections

NY-AWQS: NY - New York TOGS 1.1.1 Ambient Water

Quality Standards criteria reflects all addendum to criteria through June 2004.

ug/l = Micrograms per liter

Conc = concentration in ug/L

Q = qualifier

RL = Reporting Limit

MDL = Method Detection Limit

ND = Non-detect

J = Estimated value

-- = Not sampled

Bold Highlighted = Exceeds AWQS**Bold Grey = Detection below AWQS**

Table 1**Historical Groundwater Sampling Results**

Corrective Measures Work Plan

Bridge Cleaners (NYSDEC Site No. 241127), 39-26 30th St., Long Island City, New York

| SAMPLE ID: | | GW-3 | | | | | | | | | | | | GW-3R | | | | | | | | | | | | | | |
|----------------------------|---------|---------------|------|-------------|----|--------------------------------------|------------|----|-------------|------|-------------|---|-------------|-------|-------------|-------|--|-------------|------|-------------|------|-------------|------|-----|------|------|-----|------|
| LAB ID: | | JB59477-3 | | L1628504-05 | | Initial System Start up - March 2018 | -- | | L2025069-03 | | L2103234-03 | | L2122042-03 | | L2153072-03 | | Post-IRM Modification System Start up - September 2020 | L2201942-03 | | L2220362-04 | | L2318419-04 | | | | | | |
| COLLECTION DATE: | | 2/8/2014 | | 9/9/2016 | | | 11/28/2018 | | 6/15/2020 | | 1/25/2021 | | 4/28/2021 | | 9/29/2021 | | | EECC | | EECC | | EECC | | | | | | |
| SAMPLER: | | TechSolutions | | Integral | | | Integral | | EECC | | EECC | | EECC | | | WATER | | WATER | | WATER | | | | | | | | |
| SAMPLE MATRIX: | | WATER | | WATER | | | WATER | | WATER | | WATER | | WATER | | | WATER | | WATER | | Water | | | | | | | | |
| VOLATILE ORGANICS BY GC/MS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANALYTE | NY-AWQS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ug/L | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | | | | | | |
| Chloroform | | 7 | 2.6 | | 1 | 0.25 | -- | -- | -- | -- | 1.9 | J | 2.5 | 0.7 | 1.5 | 2.5 | 0.7 | 1.8 | J | 2.5 | 0.7 | 1.4 | J | 2.5 | 0.7 | | | |
| Tetrachloroethene | | 5 | 175 | | 10 | 2.5 | 44 | | 0.5 | 0.18 | 25 | | 0.5 | 0.18 | 23 | 0.5 | 0.18 | 23 | | 0.5 | 0.18 | 29 | | 0.5 | 0.18 | | | |
| Vinyl chloride | | 2 | ND | | 1 | 0.41 | ND | | 1 | 0.07 | ND | | 1 | 0.07 | ND | 1 | 0.07 | ND | 1 | 0.07 | ND | 1 | 0.07 | ND | 1 | 0.07 | | |
| trans-1,2-Dichloroethene | | 5 | ND | | 1 | 0.38 | ND | | 0.75 | 0.16 | ND | | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | |
| Trichloroethene | | 5 | 2 | | 1 | 0.5 | 1.2 | | 0.5 | 0.18 | 1.1 | | 0.5 | 0.18 | 0.87 | 0.5 | 0.18 | 0.77 | | 0.5 | 0.18 | 0.81 | | 0.5 | 0.18 | 0.76 | 0.5 | 0.18 |
| cis-1,2-Dichloroethene | | 5 | 0.39 | J | 1 | 0.24 | 0.25 | J | 0.5 | 0.19 | ND | | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | |
| 1,2-Dichloroethene, Total | | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | |
| Acetone | | 50 | ND | | 10 | 3.3 | -- | -- | -- | -- | 1.7 | J | 5 | 1.5 | ND | 5 | 1.5 | ND | 5 | 1.5 | ND | 5 | 1.5 | ND | 5 | 1.5 | | |
| 1,2,4-Trimethylbenzene | | 5 | -- | -- | -- | -- | -- | -- | -- | -- | ND | | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | |
| 1,3,5-Trimethylbenzene | | 5 | -- | -- | -- | -- | -- | -- | -- | -- | ND | | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | |
| Isopropanol | | -- | -- | -- | -- | -- | 8.5 | J | 100 | 8.5 | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| Isopropylbenzene | | 5 | -- | -- | -- | -- | -- | -- | -- | -- | ND | | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | |

Notes

Table only includes contaminants of concern and detections

NY-AWQS: NY - New York TOGS 1.1.1 Ambient Water

Quality Standards criteria reflects all addendum to criteria through June 2004.

ug/l = Micrograms per liter

Conc = concentration in ug/L

Q = qualifier

RL = Reporting Limit

MDL = Method Detection Limit

ND = Non-detect

J = Estimated value

-- = Not sampled

Bold Highlighted = Exceeds AWQS**Bold Grey = Detection below AWQS**

Table 1**Historical Groundwater Sampling Results**

Corrective Measures Work Plan

Bridge Cleaners (NYSDEC Site No. 241127), 39-26 30th St., Long Island City, New York

| SAMPLE ID: | | GW-4 (Abandoned) | | | | | | | | | | | | L2103234-004 | | | L2122042-04 | | | L2153072-04 | | L2201942-04 | | L2220362-02 | | | | | | | | |
|----------------------------|--|------------------|-------------|----|------|-------------|------|-------------|------|-----------|--------------|-------------|-------------|--------------|------------|-------------|-------------|-------------|------|-------------|------------|-------------|------|-------------|------|------|-------------|-----|-----|------|-----|--|
| LAB ID: | | JB59477-4 | L1628504-08 | | | L1848820-09 | | L2025069-04 | | | L2103234-004 | | L2122042-04 | | | L2153072-04 | | L2201942-04 | | L2220362-02 | | | | | | | | | | | | |
| COLLECTION DATE: | | 2/8/2014 | 9/9/2016 | | | 11/28/2018 | | 6/15/2020 | | | 1/24/2021 | | 4/28/2021 | | | 9/29/2021 | | 1/12/2022 | | 4/19/2022 | | | | | | | | | | | | |
| SAMPLER: | | TechSolutions | Integral | | | Integral | | EECC | | | EECC | | EECC | | | EECC | | EECC | | EECC | | | | | | | | | | | | |
| SAMPLE MATRIX: | | WATER | WATER | | | WATER | | WATER | | | WATER | | WATER | | | WATER | | WATER | | WATER | | | | | | | | | | | | |
| VOLATILE ORGANICS BY GC/MS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANALYTE | | NY-AWQS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ug/L | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | | | | | | |
| Chloroform | | 7 | 2.4 | 1 | 0.25 | -- | -- | -- | -- | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | | | | |
| Tetrachloroethene | | 5 | 254 | 10 | 2.5 | 90 | 0.5 | 0.18 | ND | 1 | 0.41 | ND | 1 | 0.07 | 71 | 0.5 | 0.18 | 3.2 | 0.5 | 0.18 | 1.4 | 0.5 | 0.18 | ND | 0.5 | 0.18 | 0.18 | J | 0.5 | 0.18 | | |
| Vinyl chloride | | 2 | ND | 1 | 0.41 | ND | 1 | 0.07 | ND | 0.75 | 0.16 | ND | 0.75 | 0.16 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | | |
| trans-1,2-Dichloroethene | | 5 | ND | 1 | 0.38 | ND | 0.75 | 0.16 | ND | 0.75 | 0.16 | ND | 0.75 | 0.16 | 1.3 | 0.5 | 0.18 | 0.26 | J | 0.5 | 0.18 | 0.23 | J | 0.5 | 0.19 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | |
| Trichloroethene | | 5 | 2.6 | 1 | 0.5 | 1.5 | 0.5 | 0.18 | ND | 1 | 0.24 | 0.24 | J | 0.5 | 0.19 | -- | -- | -- | ND | 2.5 | 0.7 | -- | -- | -- | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | |
| cis-1,2-Dichloroethene | | 5 | 1.1 | 1 | 0.24 | 0.24 | J | 0.5 | 0.19 | ND | 1 | 0.24 | 0.24 | J | 0.5 | 0.19 | -- | -- | -- | ND | 2.5 | 0.7 | -- | -- | -- | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | |
| 1,2-Dichloroethene, Total | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | -- | -- | -- | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | |
| Acetone | | 50 | ND | 10 | 3.3 | -- | -- | -- | -- | ND | 5 | 1.5 | ND | 5 | 1.5 | -- | -- | -- | ND | 5 | 1.5 | -- | -- | -- | ND | 5 | 1.5 | ND | 5 | 1.5 | | |
| 1,2,4-Trimethylbenzene | | 5 | -- | -- | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | -- | -- | -- | ND | 2.5 | 0.7 | -- | -- | -- | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | |
| 1,3,5-Trimethylbenzene | | 5 | -- | -- | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | -- | -- | -- | ND | 2.5 | 0.7 | -- | -- | -- | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | |
| Isopropanol | | -- | -- | -- | -- | ND | 100 | 8.5 | -- | 16 | J | 100 | 3.5 | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | -- | -- | -- | -- | -- | -- | -- | -- | | | |
| Isopropylbenzene | | 5 | -- | -- | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | -- | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | -- | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | | |

Notes

Table only includes contaminants of concern and detections

NY-AWQS: NY - New York TOGS 1.1.1 Ambient Water

Quality Standards criteria reflects all addendum to criteria through June 2004.

ug/l = Micrograms per liter

Conc = concentration in ug/L

Q = qualifier

RL = Reporting Limit

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ND = Non-detect

J = Estimated value

-- = Not sampled

Bold Highlighted = Exceeds AWQS**Bold Grey = Detection below AWQS**

Table 1**Historical Groundwater Sampling Results**

Corrective Measures Work Plan

Bridge Cleaners (NYSDEC Site No. 241127), 39-26 30th St., Long Island City, New York

| SAMPLE ID: | | GW-5 | | | | | | | | | | | | GW-5R | | | | | | | | | | | |
|----------------------------|---------|---------------|-------------|--------------------------------------|-------------|-------------|--|-------------|-------------|-------------|----------------------------------|-------------|-------------|-------------|-------------|------|------------|-----|------|-----|--|--|--|--|--|
| LAB ID: | | JB59477-3 | L1628504-09 | Initial System Start up - March 2018 | L1848820-06 | L2025069-05 | Post-IRM Modification System Start up - September 2020 | L2103234-05 | L2122042-05 | L2153072-05 | System Shut Down - December 2021 | L2201942-05 | L2220362-01 | L2318419-05 | L2345491-03 | | | | | | | | | | |
| COLLECTION DATE: | | 2/8/2014 | 9/9/2016 | | 11/28/2018 | 6/15/2020 | | 1/24/2021 | 4/28/2021 | 9/29/2021 | | 1/12/2022 | 4/19/2022 | 4/6/2023 | 8/7/2023 | | | | | | | | | | |
| SAMPLER: | | TechSolutions | Integral | | Integral | EECC | | EECC | EECC | EECC | | EECC | EECC | EECC | ECC | | | | | | | | | | |
| SAMPLE MATRIX: | | WATER | WATER | | WATER | WATER | | WATER | WATER | WATER | | WATER | WATER | Water | Water | | | | | | | | | | |
| VOLATILE ORGANICS BY GC/MS | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANALYTE | NY-AWQS | | | | | | | | | | | | | | | | | | | | | | | | |
| | ug/L | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | | | | | | | | |
| Chloroform | 7 | ND | 1 | 0.25 | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | -- | 0.74 | J | 2.5 | 0.7 | | | | | | | | |
| Tetrachloroethene | 5 | 340 | 10 | 2.5 | 95 | 0.5 | 0.18 | 87 | 0.5 | 0.18 | 72 | 0.5 | 0.18 | 35 | 0.5 | 0.18 | 100 | 0.5 | 0.18 | | | | | | |
| Vinyl chloride | 2 | ND | 1 | 0.41 | ND | 1 | 0.07 | ND | 1 | 0.07 | ND | 1 | 0.07 | ND | 1 | 0.07 | ND | 1 | 0.07 | | | | | | |
| trans-1,2-Dichloroethene | 5 | ND | 1 | 0.38 | ND | 0.75 | 0.16 | ND | 0.75 | 0.16 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | | | | | |
| Trichloroethene | 5 | 6.9 | 1 | 0.5 | 2.8 | 0.5 | 0.18 | 3.7 | 0.5 | 0.18 | 1.9 | 0.5 | 0.18 | 2.0 | 0.5 | 0.18 | 2.5 | 0.5 | 0.18 | | | | | | |
| cis-1,2-Dichloroethene | 5 | ND | 1 | 0.24 | 0.39 | J | 0.5 | 0.19 | ND | 0.5 | 0.19 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | | | | | |
| 1,2-Dichloroethene, Total | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | | | |
| Acetone | 50 | ND | 10 | 3.3 | -- | -- | -- | -- | -- | ND | 5 | 1.5 | -- | ND | 5 | 1.5 | -- | ND | 5 | 1.5 | | | | | |
| 1,2,4-Trimethylbenzene | 5 | -- | -- | -- | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | -- | ND | 2.5 | 0.7 | -- | ND | 2.5 | 0.7 | | | | | |
| 1,3,5-Trimethylbenzene | 5 | -- | -- | -- | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | -- | ND | 2.5 | 0.7 | -- | ND | 2.5 | 0.7 | | | | | |
| Isopropanol | -- | -- | -- | -- | -- | ND | 100 | 8.5 | -- | 21 | J | 100 | 3.5 | -- | -- | -- | -- | -- | -- | -- | | | | | |
| Isopropylbenzene | 5 | -- | -- | -- | -- | -- | -- | -- | -- | ND | 2.5 | 0.7 | -- | ND | 2.5 | 0.7 | -- | ND | 2.5 | 0.7 | | | | | |

Notes

Table only includes contaminants of concern and detections

NY-AWQS: NY - New York TOGS 1.1.1 Ambient Water

Quality Standards criteria reflects all addendum to criteria through June 2004.

ug/l = Micrograms per liter

Conc = concentration in ug/L

Q = qualifier

RL = Reporting Limit

MDL = Method Detection Limit

ND = Non-detect

J = Estimated value

-- = Not sampled

Bold Highlighted = Exceeds AWQS**Bold Grey = Detection below AWQS**

Table 1**Historical Groundwater Sampling Results**

Corrective Measures Work Plan

Bridge Cleaners (NYSDEC Site No. 241127), 39-26 30th St., Long Island City, New York

| SAMPLE ID: | GW-6 | | | | MW-5 (Missing) | | | | | | | | | |
|----------------------------|-------------|-------------|-------------|--------------------------------------|----------------|-------------|--|-------------|-------------|------|-------------|------|------|------|
| LAB ID: | L2318419-02 | L2345491-01 | L1628504-01 | Initial System Start up - March 2018 | L1848820-01 | L2103234-06 | Post-IRM Modification System Start up - September 2020 | L2122042-06 | L2153072-06 | | | | | |
| COLLECTION DATE: | 4/6/2023 | 8/7/2023 | 9/9/2016 | | 11/28/2018 | 1/24/2021 | | 4/28/2021 | 9/29/2021 | | | | | |
| SAMPLER: | EECC | ECC | Integral | | Integral | EECC | | EECC | EECC | | | | | |
| SAMPLE MATRIX: | Water | Water | WATER | | WATER | WATER | | WATER | WATER | | | | | |
| VOLATILE ORGANICS BY GC/MS | | | | | | | | | | | | | | |
| ANALYTE | NY-AWQS | | | | | | | | | | | | | |
| | ug/L | Conc | Q | RL | MDL | Conc | Q | RL | MDL | Conc | Q | RL | MDL | |
| Chloroform | 7 | 1 | J | 2.5 | 0.7 | 0.95 | J | 2.5 | 0.7 | -- | -- | -- | -- | |
| Tetrachloroethene | 5 | 7.9 | 0.5 | 0.18 | 14 | 0.5 | 0.18 | 22 | 0.5 | 0.18 | 31 | 0.5 | 0.18 | |
| Vinyl chloride | 2 | ND | 1 | 0.07 | ND | 1 | 0.07 | ND | 1 | 0.07 | ND | 1 | 0.07 | |
| trans-1,2-Dichloroethene | 5 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 0.75 | 0.16 | ND | 0.75 | 0.16 | |
| Trichloroethene | 5 | 0.64 | 0.5 | 0.18 | 0.64 | 0.5 | 0.18 | 0.59 | 0.5 | 0.18 | 0.73 | 0.5 | 0.18 | |
| cis-1,2-Dichloroethene | 5 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | ND | 0.5 | 0.19 | 0.2 | J | 0.5 | 0.19 |
| 1,2-Dichloroethene, Total | -- | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | -- | -- | -- | ND | 2.5 | 0.7 | ND |
| Acetone | 50 | ND | 5 | 1.5 | ND | 5 | 1.5 | -- | -- | -- | ND | 5 | 1.5 | ND |
| 1,2,4-Trimethylbenzene | 5 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | -- | -- | -- | ND | 2.5 | 0.7 | ND |
| 1,3,5-Trimethylbenzene | 5 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | -- | -- | -- | ND | 2.5 | 0.7 | ND |
| Isopropanol | -- | -- | -- | -- | -- | -- | -- | ND | 100 | 8.5 | -- | -- | -- | -- |
| Isopropylbenzene | 5 | ND | 2.5 | 0.7 | ND | 2.5 | 0.7 | -- | -- | -- | ND | 2.5 | 0.7 | ND |

Notes

Table only includes contaminants of concern and detections

NY-AWQS: NY - New York TOGS 1.1.1 Ambient Water

Quality Standards criteria reflects all addendum to criteria through June 2004.

ug/l = Micrograms per liter

Conc = concentration in ug/L

Q = qualifier

RL = Reporting Limit

MDL = Method Detection Limit

ND = Non-detect

J = Estimated value

-- = Not sampled

Bold Highlighted = Exceeds AWQS**Bold Grey = Detection below AWQS**

Table 2**In-Situ Injection Dosing**

Corrective Measures Work Plan

Bridge Cleaners (NYSDEC Site No. 241127), 39-26 30th St., Long Island City, New York

| Injection Location | Target Treatment Depth (feet bgs) | Treatment Zone Thickness (feet) | Vertical Treatment Injection Interval Thickness (feet) | Number of Vertical Treatment Injection Intervals | Total Solution per Vertical Treatment Injection Interval (gallons) | mZVI Mass per Vertical Treatment Injection Intervals (pounds) | ERD Mass per Vertical Treatment Injection Intervals (pounds) | Dhc Volume per Vertical Treatment Injection Intervals (Liters) |
|--------------------|-----------------------------------|---------------------------------|--|--|--|---|--|--|
| AS-1R | 20 - 30 | 10 | 2.0 | 5 | 250 | 50 | 85 | 1.2 |
| AS-2R | 20 - 30 | 10 | 2.0 | 5 | 250 | 50 | 85 | 1.2 |
| AS-3R | 20 - 30 | 10 | 2.0 | 5 | 250 | 50 | 85 | 1.2 |

Notes:

bgs = below ground surface

Dhc = *Dehalococcoides ethenogenes* (SiREM KB-1®)

ERD = Enhanced Reductive Dechlorination Amendment (Tersus EDS-ER™)

mZVI = microscale zero valent iron (Tersus mZVI™, PART A EDS-ZVI™)

Table 3**Proposed Groundwater Monitoring Plan**

Corrective Measures Work Plan

Bridge Cleaners (NYSDEC Site No. 241127), 39-26 30th St., Long Island City, New York

| Groundwater Monitoring Well | Screened Interval | Second Monitoring Event (Completed) | | | | | | | 3-Month Post-Injection | | | | | | | 6-Month Post-Injection | | | | | | | 9-Month Post-Injection | | | | | | | | | | |
|-----------------------------|-------------------|-------------------------------------|------|------|--------|-----|---------|-------------------|------------------------|----|------|------|--------|-----|---------|------------------------|-----|----|------|------|--------|-----|------------------------|-------------------|-----|----|------|------|--------|-----|---------|-------------------|-----|
| | | FP | VOCs | DHGs | Anions | TOC | Sulfide | Ferrous Iron [FM] | DHC | FP | VOCs | DHGs | Anions | TOC | Sulfide | Ferrous Iron [FM] | DHC | FP | VOCs | DHGs | Anions | TOC | Sulfide | Ferrous Iron [FM] | DHC | FP | VOCs | DHGs | Anions | TOC | Sulfide | Ferrous Iron [FM] | DHC |
| GW-1R | 20-30 | X | X | | | | | | | X | X | | | | | | X | | | | | | | | | X | X | | | | | | |
| GW-2R | 20-30 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| GW-3R | 20-30 | X | X | | | | | | | X | X | | | | | | X | | | | | | | | | X | X | | | | | | |
| GW-5R | 20-30 | X | X | | | | | | | X | X | X | X | X | X | X | X | X | X* | X* | X* | X* | X* | X* | X* | X | X | X* | X* | X* | X* | X* | |
| GW-6 | 20-30 | X | X | | | | | | | X | X | | | | | | X | | | | | | | | | X | X | | | | | | |

Notes:

Post-injection groundwater monitoring events are contingent on the application of the proposed injections

Abbreviations:

Anions = sulfate, nitrate, nitrite

DHC = assay for dehalococcoides

DHGs = dissolved hydrocarbon gases: methane, ethane, ethene

[FM] = field measurement

FP = field parameters: pH, dissolved oxygen, oxidation reduction potential, specific conductance, temperature, turbidity, and depth to water

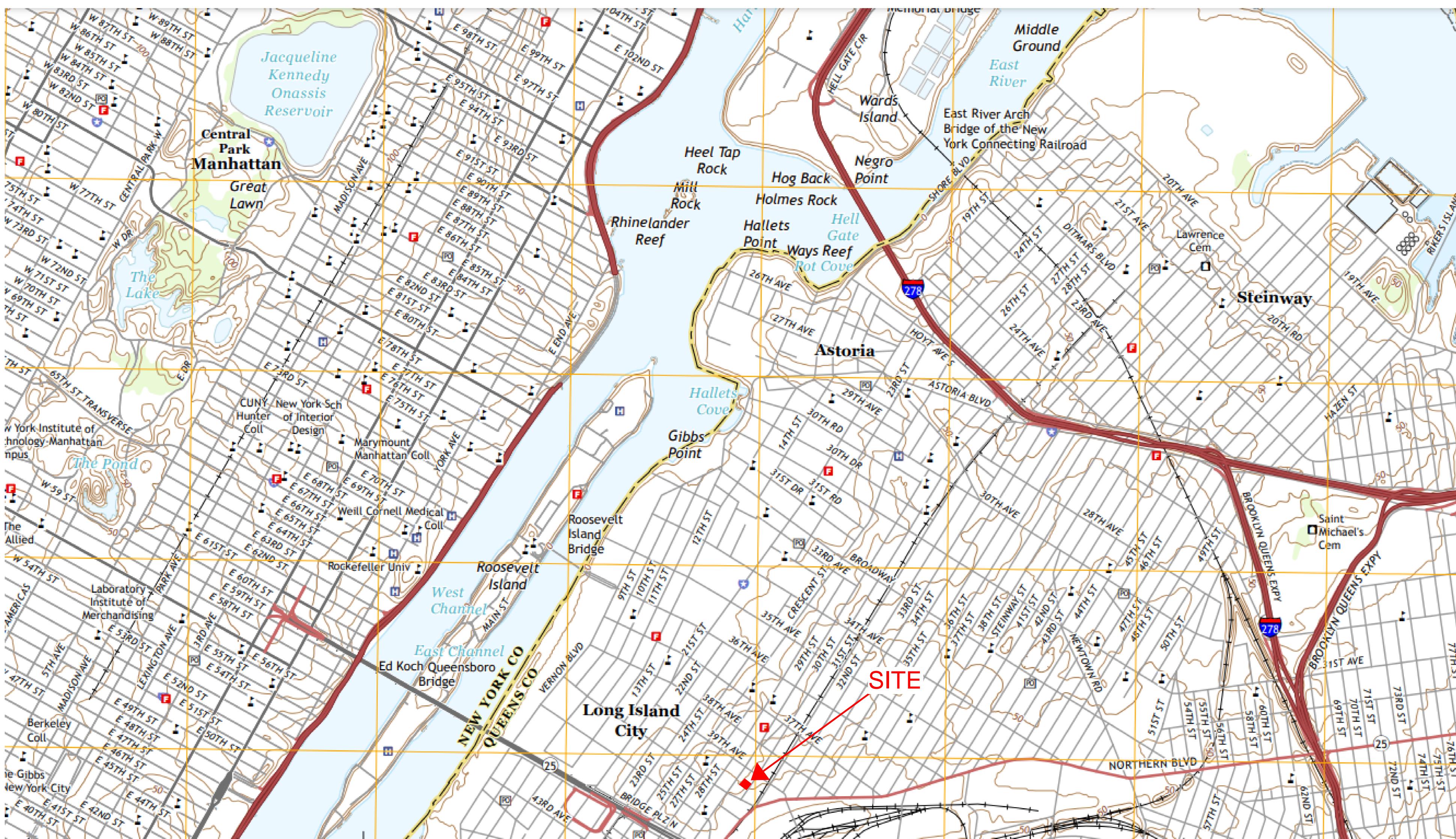
TOC = total organic carbon

VOCs = chlorinated volatile organic compounds by EPA Method 8260D

X* = Post-injection sample analysis to be collected based on prior quarter sample results

Figures

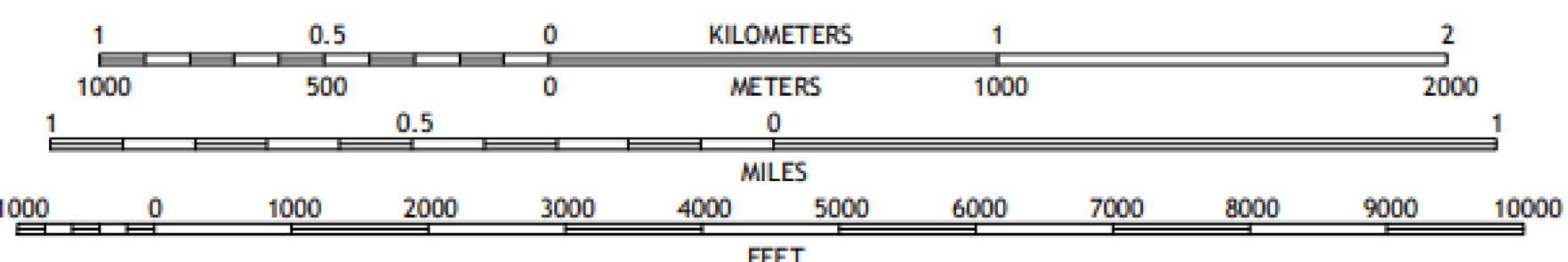
- 1 Site Location – Topo Map
- 2 Site Location – Tax Map
- 3 Site Layout
- 4a April 2023 Groundwater Flow Map
- 4b August 2023 Groundwater Flow Map
- 5 Historical Groundwater Analytical Data
- 6 Proposed Injection Locations



LEGEND

- Expressway
- Secondary Hwy
- Ramp
- Local Connector
- Local Road
- 4WD
- State Route
- Interstate Route
- US Route

SCALE 1:24 000



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)

World Geodetic System of 1984 (WGS84). Projection and

1 000-meter grid: Universal Transverse Mercator, Zone 18T

10 000-foot ticks: New York Coordinate System of 1983 (long

island zone), New Jersey Coordinate System of 1983

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, August 2013
Roads.....U.S. Census Bureau, 2015 - 2016

Names.....GNIS, 2016

Hydrography.....National Hydrography Dataset, 2013

Contours.....National Elevation Dataset, 2015

Boundaries.....Multiple sources; see metadata file 1972 - 2016

Wetlands.....FWS National Wetlands Inventory 1977 - 2014

★
MN
GN
13° 1' 231 MILS
0° 42' 12 MILS

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid

100,000-m Square ID

WL

Grid Zone Designation

18T

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the
National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.19



QUADRANGLE LOCATION

| 1 | 2 | 3 |
|---|---|---|
| 4 | | 5 |
| 6 | 7 | 8 |

1 Hackensack
2 Yonkers
3 Mount Vernon
4 Weehawken
5 Flushing
6 Jersey City
7 Brooklyn
8 Jamaica

ADJOINING QUADRANGLES

CENTRAL PARK, NY-NJ

2016

Zhong Chuang Properties, LLC
BRIDGE CLEANERS SITE
39-26 30th ST
LONG ISLAND CITY NEW YORK

| | | | |
|-------|----------|-------------|-----------------|
| DRN | NC | DATE | 5/23/2023 |
| DES | NK | DATE | 5/23/2023 |
| CHK | NK | DATE | 5/23/2023 |
| SCALE | AS NOTED | PROJECT NO. | BRIDGE CLEANERS |

SITE LOCATION -
TOPO MAP

FIGURE

1

LEGEND

| | |
|--------------------------------------|--|
| Borough Boundary | C50 Condo Flag/Condo Number |
| Tax Block Boundary | A50 Air Right Flag/Lot Number |
| 50 Tax Block Number | S50 Subterranean Right Flag/Lot Number |
| Tax Lot Boundary | R REUC Flag |
| 50 Tax Lot Number | Under Water Tax Lot Boundary |
| -50 Condo FKA Tax Lot Number | Other Boundary |
| 50.5 Tax Lot Dimension | 1 Possession Hook |
| +/-5.5 Approximate Tax Lot Dimension | Misc Miscellaneous Text |
| (100-1000) Condo Units Range Label | Small Tax Lot Dimension |
| Building Footprint | Surface Water |
| Subject Property | Site and Property Boundary |



Zhong Chuang Properties, LLC
BRIDGE CLEANERS SITE
39-26 30th ST

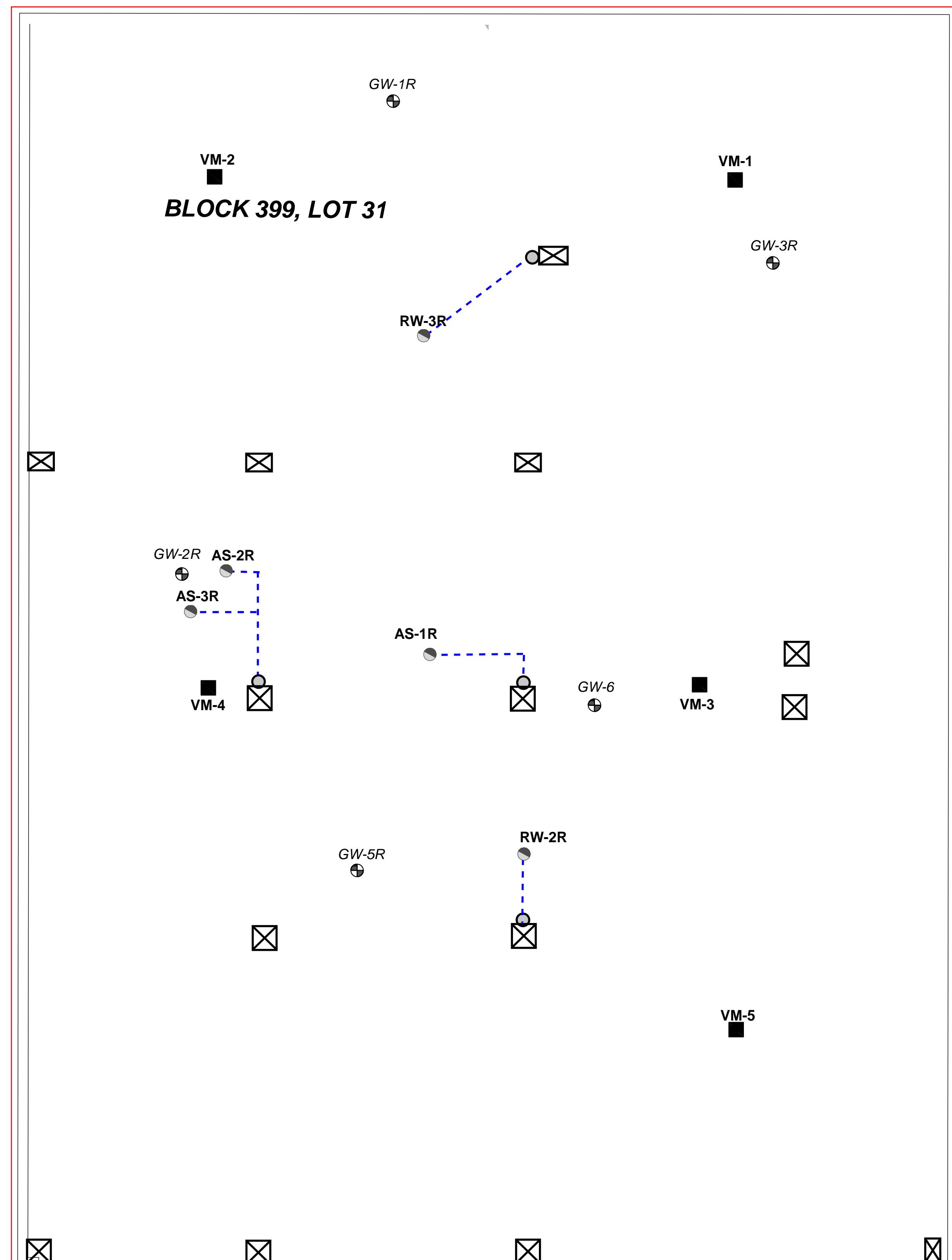
LONG ISLAND CITY NEW YORK

| | | | |
|-------|----------|-------------|-----------------|
| DRN | NC | DATE | 5/23/2023 |
| DES | NK | DATE | 5/23/2023 |
| CHK | NK | DATE | 5/23/2023 |
| SCALE | AS NOTED | PROJECT NO. | BRIDGE CLEANERS |

SITE LAYOUT - TAX MAP

FIGURE

2



CONCRETE

30th STREET

SIDEWALK

CURB



LEGEND

- [Light gray square] EXTENT OF EXCAVATION / APPROXIMATE BUILDING FOOTPRINT
- [Red square] CONCRETE COVER
- [Dashed blue line] SUB-GRADE PVC PIPING
- [Circle with cross] GROUNDWATER MONITORING WELL
- [Black square] VACUUM MONITORING POINTS
- [Gray circle] AS/SVE REPLACEMENT WELL LOCATIONS (IF REQUIRED)
- [Open circle] VERTICAL RISER STUB-UP LOCATION
- [Black square with cross] APPROXIMATE CONCRETE COLUMN LOCATIONS

Zhong Chuang Properties, LLC
BRIDGE CLEANERS SITE
39-26 30th ST

LONG ISLAND CITY NEW YORK

| | | | |
|-------|----------|-------------|-----------------|
| DRN | NC | DATE | 5/23/2023 |
| DES | NK | DATE | 5/23/2023 |
| CHK | NK | DATE | 5/23/2023 |
| SCALE | AS NOTED | PROJECT NO. | BRIDGE CLEANERS |

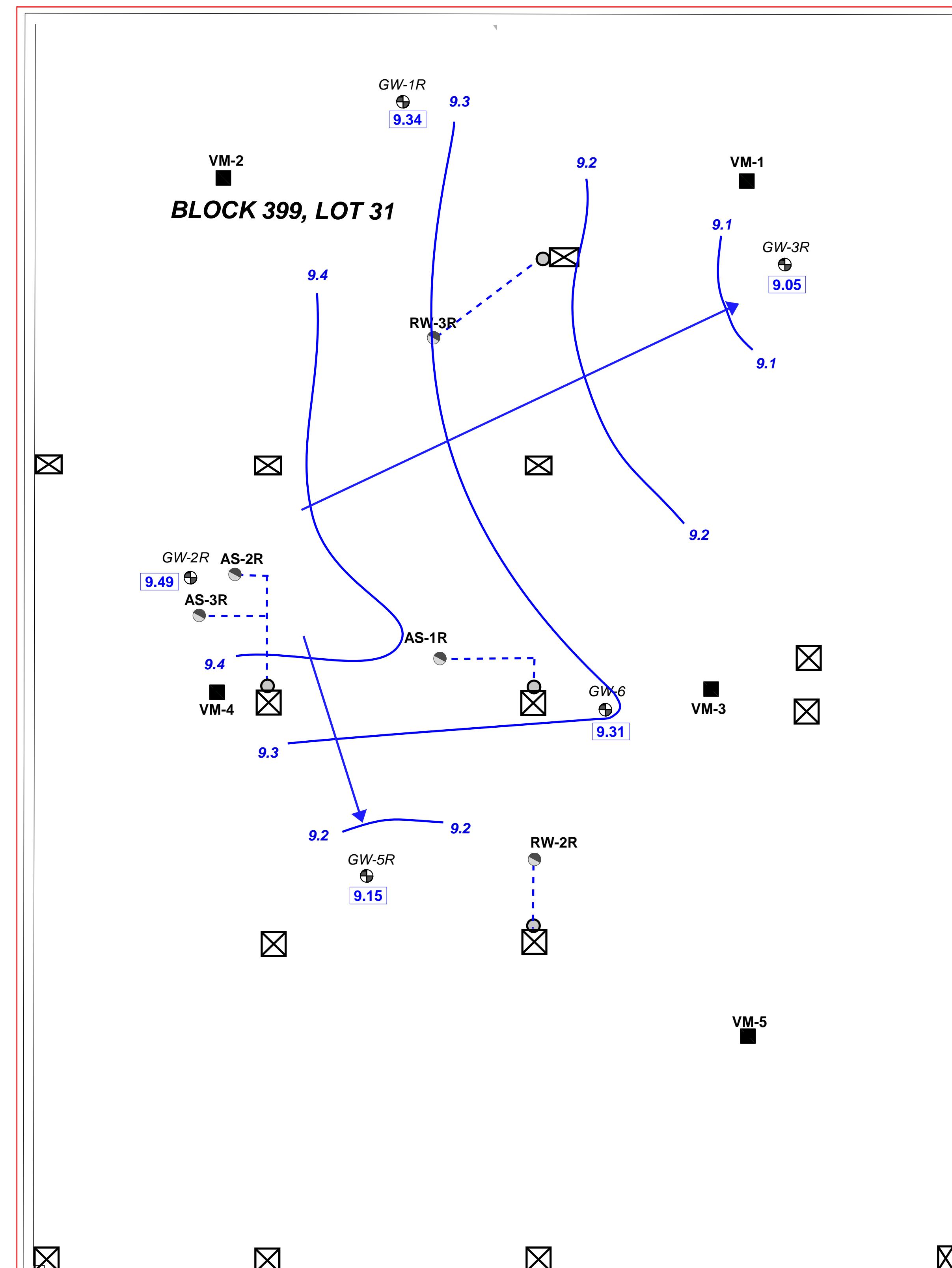
CURRENT SITE LAYOUT

FIGURE

3

SOURCES:

- BASEMAP: WELL ELEVATION SURVEY, BRIDGE CLEANERS, 39-26 30th STREET, LONG ISLAND CITY, NEW YORK, DONALD R. STEDGE, P.L.S., OCTOBER 30, 2015.



CONCRETE

SIDEWALK

30th STREET

CURB

HYDRANT

0 3 6 12 Feet
THIS SHEET PLOTS FULL SCALE AT 11x17 IN.

SOURCES:

1. BASEMAP: WELL ELEVATION SURVEY, BRIDGE CLEANERS, 39-26 30th STREET, LONG ISLAND CITY, NEW YORK, DONALD R. STEDGE, P.L.S., OCTOBER 30, 2015.

LEGEND

| | |
|--|---|
| | EXTENT OF EXCAVATION / APPROXIMATE BUILDING FOOTPRINT |
| | CONCRETE COVER |
| | SUB-GRADE PVC PIPING |
| | FORMER GROUNDWATER MONITORING WELL |
| | GROUNDWATER MONITORING WELL |
| | VACUUM MONITORING POINTS |
| | AS/SVE REPLACEMENT WELL LOCATIONS (IF REQUIRED) |
| | VERTICAL RISER STUB-UP LOCATION |
| | APPROXIMATE CONCRETE COLUMN LOCATIONS |
| | GROUNDWATER ELEVATION (ft. AMSL) |
| | GROUNDWATER FLOW DIRECTION |
| | GROUNDWATER CONTOUR WITH ELEVATION (ft. AMSL) |

ZHONG CHUANG PROPERTIES, LLC
BRIDGE CLEANERS SITE
39-26 30th ST

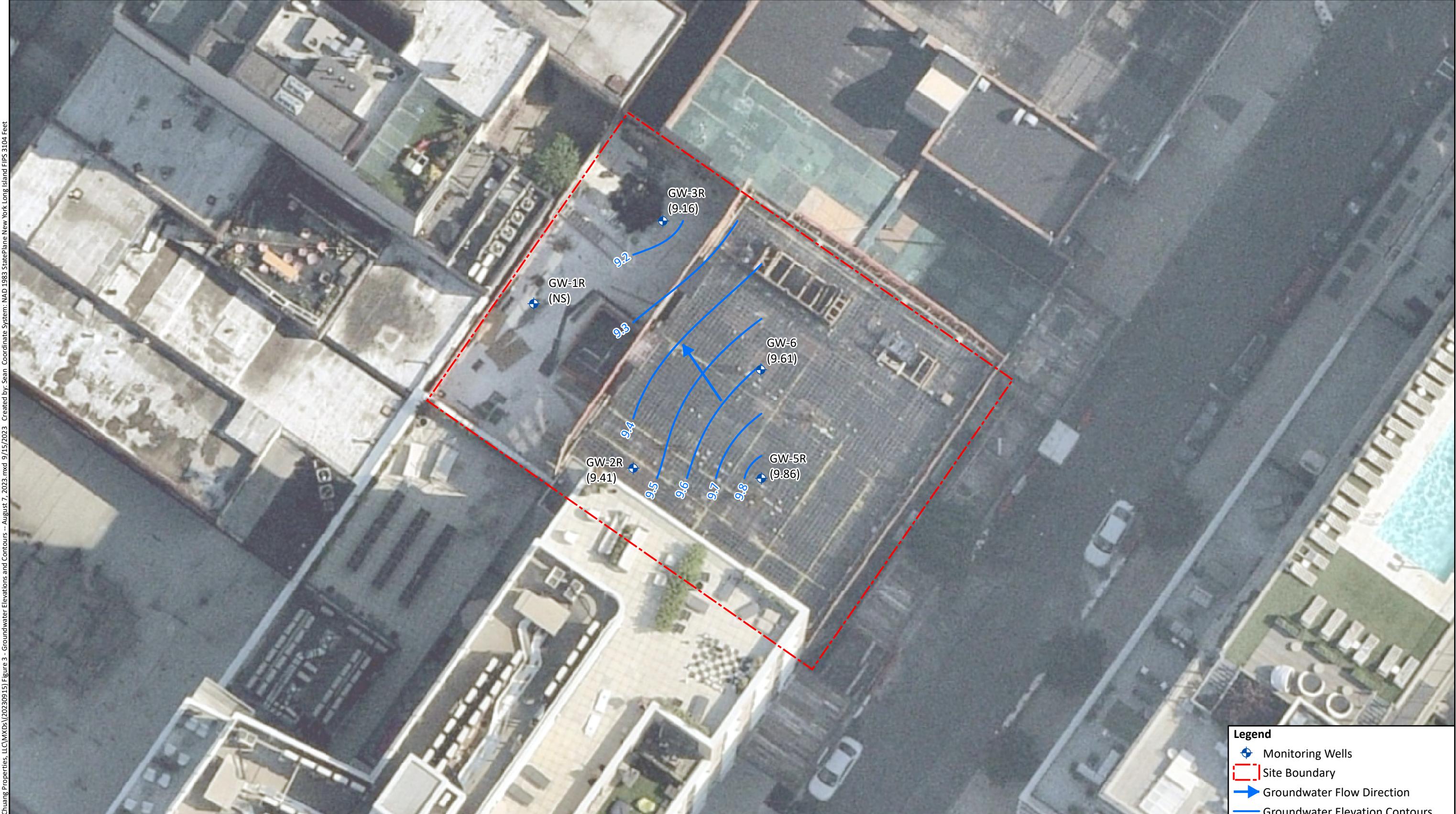
LONG ISLAND CITY NEW YORK

| | |
|----------------|-----------------------------|
| DRN NC | DATE 6/22/2023 |
| DES NK | DATE 6/22/2023 |
| CHK NK | DATE 6/22/2023 |
| SCALE AS NOTED | PROJECT NO. BRIDGE CLEANERS |

APRIL 2023 GROUNDWATER FLOW MAP

FIGURE

4a



File: N:\GIS\CV01.001\Zhong Chuang Properties, LLC\WINDS\20230915\Figure 3 - Groundwater Elevations and Contours - August 7, 2023.mxd | Created by: Sean | Coordinate System: NAD 1983 StatePlane New York Long Island FIPS 3104 Feet

Notes:
 - Aerial Imagery Source: Nearmap (May 28, 2023)
 - Elevations are in Feet Above Mean Sea Level
 - NS = Not Sampled

0 10 20 30 40
 Feet
 1 inch = 20 feet



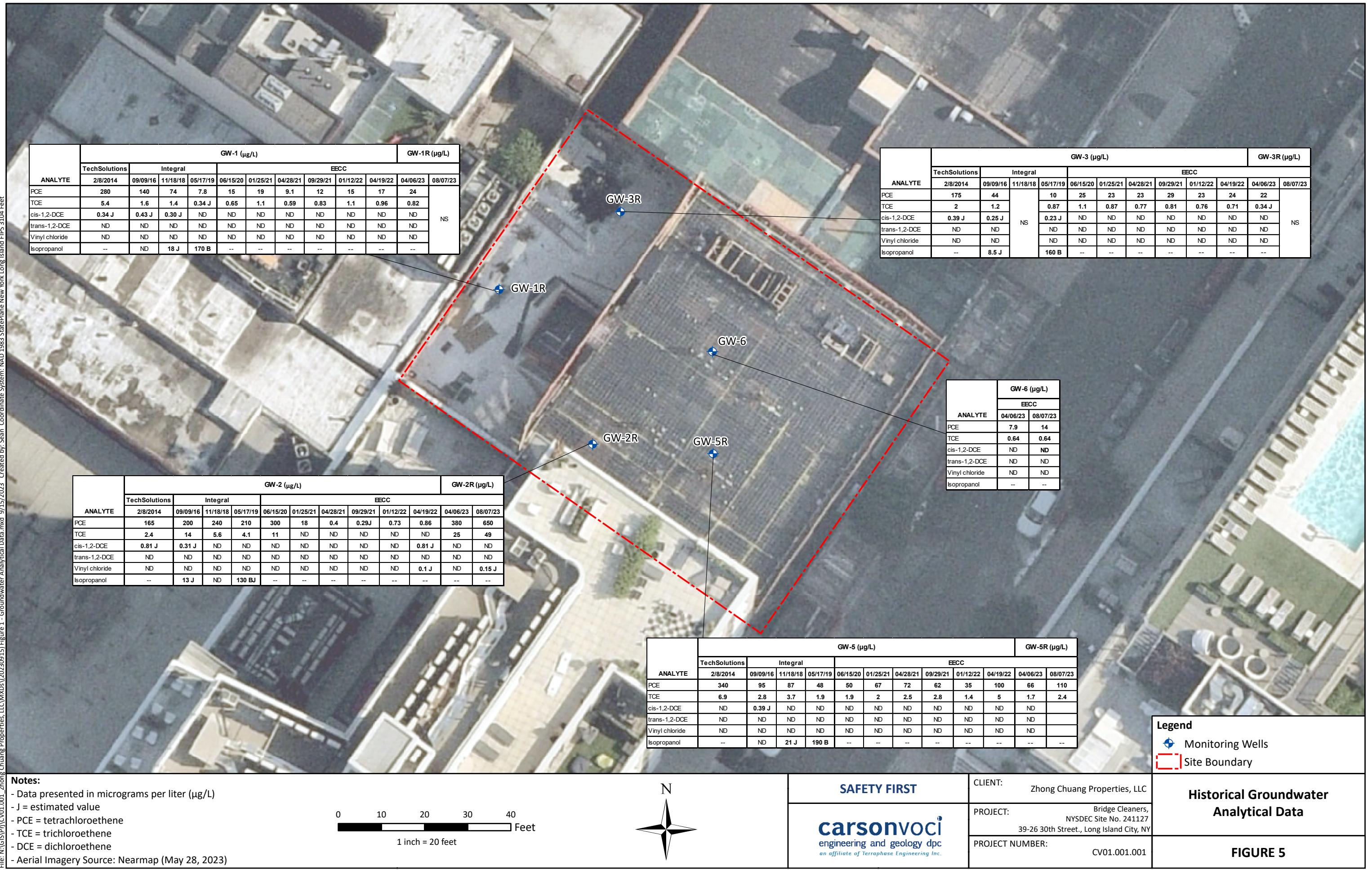
SAFETY FIRST
carsonvoci
 engineering and geology dpc
an affiliate of Terraphase Engineering Inc.

| |
|---|
| CLIENT: Zhong Chuang Properties, LLC |
| PROJECT: Bridge Cleaners, NYSDEC Site No. 241127 39-26 30th Street., Long Island City, NY |
| PROJECT NUMBER: CV01.001.001 |

Legend
◆ Monitoring Wells
◻ Site Boundary
→ Groundwater Flow Direction
— Groundwater Elevation Contours

August 2023 Groundwater Flow Map

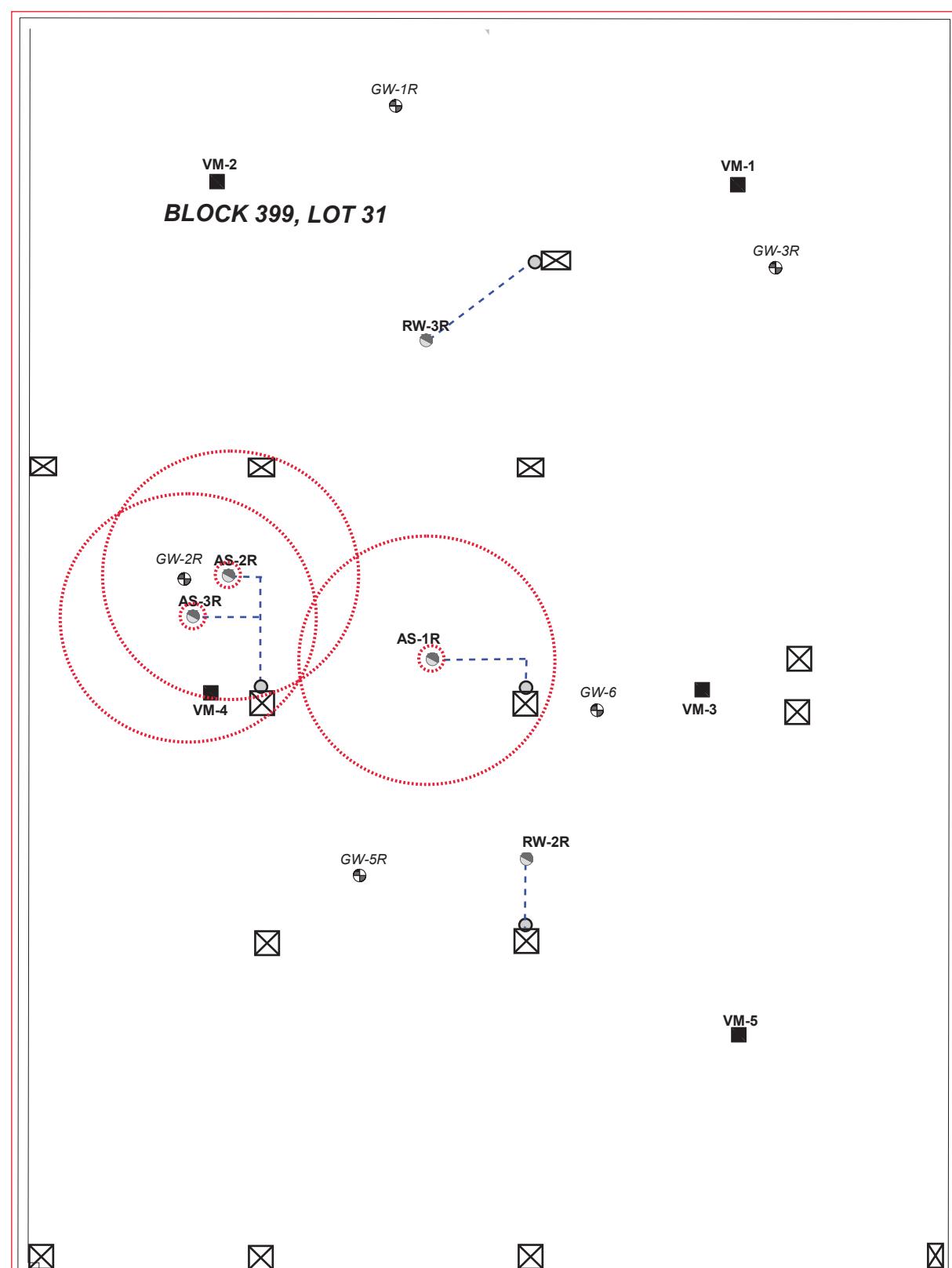
FIGURE 4b



LEGEND

- EXTENT OF EXCAVATION / APPROXIMATE BUILDING FOOTPRINT
- CONCRETE COVER
- SUB-GRADE PVC PIPING
- GROUNDWATER MONITORING WELL
- VACUUM MONITORING POINTS
- AS/SVE REPLACEMENT WELL LOCATIONS (IF REQUIRED)
- VERTICAL RISER STUB-UP LOCATION
- ☒ APPROXIMATE CONCRETE COLUMN LOCATIONS
- PROPOSED INJECTION LOCATION AND ESTIMATED RADIUS OF INFLUENCE

BLOCK 399, LOT 31



CONCRETE

SIDEWALK

30th STREET

CURB

HYDRANT

0 3 6 12 Feet
THIS SHEET PLOTS FULL SCALE AT 11x17 IN.

SOURCES:

1. BASEMAP: WELL ELEVATION SURVEY, BRIDGE CLEANERS, 39-26 30th STREET, LONG ISLAND CITY, NEW YORK, DONALD R. STEDGE, P.L.S., OCTOBER 30, 2015.

ZHONG CHUANG PROPERTIES, LLC
BRIDGE CLEANERS SITE
39-26 30th ST

LONG ISLAND CITY NEW YORK

| | | | |
|-------|----------|-------------|-----------------|
| DRN | NC | DATE | 6/22/2023 |
| DES | NK | DATE | 6/22/2023 |
| CHK | NK | DATE | 6/22/2023 |
| SCALE | AS NOTED | PROJECT NO. | BRIDGE CLEANERS |

PROPOSED INJECTION LOCATIONS

FIGURE

6

Appendix A

Environmental Easement (March 4, 2019) and
Amendment (April 3, 2023)

**ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36
OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW**

THIS INDENTURE made this 4th day of March, 2017, between Owner(s) Zhong Chuang Properties, LLC, having an office at 37-24 30th Street, Long Island City, New York 11101, County of Queens, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 39-26 30th Street in the City of New York, County of Queens and State of New York, known and designated on the tax map of the New York City Department of Finance as tax map parcel number: Block 399 Lot 31, being the same as that property conveyed to Grantor by deed dated March 9, 2012 and recorded in the City Register of the City of New York as CRFN # 2012000122920. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.17 +/- acres, and is hereinafter more fully described in the Land Title Survey dated November 27, 2018 prepared by Gerald T. O'Buckley, P.L.S., which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Order on Consent Index Number: CO2-20170509-174, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. **Purposes.** Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.
2. **Institutional and Engineering Controls.** The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

- (2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);
- (3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;
- (4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the New York City Department of Health and Mental Hygiene to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- (5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- (6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

- (7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

**This property is subject to an Environmental Easement held
by the New York State Department of Environmental Conservation
pursuant to Title 36 of Article 71 of the Environmental Conservation**

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by

Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to: Site Number: 241127
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to: Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Zhong Chuang Properties, LLC:

By: _____



Print Name: _____

Steve Lin

Title: _____

member

Date: 01/25/19

Grantor's Acknowledgment

STATE OF NEW YORK)
COUNTY OF New York) ss:
New York)

On the 25th day of January, in the year 2019, before me, the undersigned, personally appeared Steve Lin, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.


Notary Public - State of New York

SAMMIE HUANG
Notary Public, State of New York
Qualified in New York County
No. 01HUB114472
Commission Expires 8/18/ 2020

**THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE
PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of
Environmental Conservation as Designee of the Commissioner,**

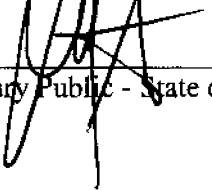
By:


Michael J. Ryan, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
)
) ss:
COUNTY OF ALBANY)

On the 4th day of March, in the year 2019, before me, the undersigned,
personally appeared Michael J. Ryan, personally known to me or proved to me on the basis of
satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within
instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as
Designee of the Commissioner of the State of New York Department of Environmental
Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon
behalf of which the individual acted, executed the instrument.


Notary Public - State of New York

David J. Chiavano
Notary Public, State of New York
No. 01CH5092148
Qualified in Schenectady County
Commission Expires August 22, 2022

SCHEDULE "A" PROPERTY DESCRIPTION

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITuate, LYING AND BEING IN THE BOROUGH AND COUNTY OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE WESTERLY SIDE OF 30TH STREET, DISTANT 133.72 FEET (DEED) (133.73 FEET ON TAX MAP) NORtherly FROM THE CORNER FORMED BY THE INTERSECTION OF THE WESTERLY SIDE OF 30TH STREET WITH THE NORtherly SIDE OF 40TH AVENUE AS SAID STREET AND AVENUE ARE SHOWN AND LAID OUT ON THE FINAL TOPOGRAPHICAL MAP OF THE CITY OF NEW YORK FOR THE BOROUGH OF QUEENS;

RUNNING THENCE WESTERLY AT RIGHT ANGLES TO THE WESTERLY SIDE OF 30TH STREET, 100.10 FEET;

THENCE NORtherly PARALLEL WITH THE WESTERLY SIDE OF 30TH STREET, 75.06 FEET;

THENCE EASTERLY AGAIN AT RIGHT ANGLES TO THE WESTERLY SIDE OF 30TH STREET, 100.10 FEET TO THE WESTERLY SIDE OF 30TH STREET;

THENCE SOUTHERLY ALONG THE WESTERLY SIDE OF 30TH STREET, 75.06 FEET TO THE POINT OR PLACE OF BEGINNING.

CONTAINING APPROXIMATELY 0.17 ACRES MORE OR LESS.

FOR INFORMATION ONLY: SAID PREMISES BEING KNOWN AS 39-28 30TH STREET, LONG ISLAND CITY, NEW YORK 11101, BLOCK: 399 LOT: 31

AMENDMENT TO ENVIRONMENTAL EASEMENT

This Amendment to Environmental Easement is made as of this 3rd day of April,
2023, between Owner(s) Zhong Chuang Properties, LLC, having an office at 37-24 30th Street,
Long Island City, New York 11101, County of Queens, State of New York (the "Grantor"), and
The People of the State of New York (the "Grantee"), acting through their Commissioner of the
Department of Environmental Conservation ("NYSDEC" or the "Department") with its
headquarters located at 625 Broadway, Albany, New York 12233.

RECITALS

1. Grantor is the owner of certain land known and designated on the tax map of the New York City Department of Finance, County of Queens and State of New York as tax map parcel number: Block 399 Lot 31, being the same as the property conveyed to Grantor by deed dated March 9, 2012 and recorded in the City Register of the City of New York as CRFN # 2012000122920.
2. The Department and Grantor entered into that certain Environmental Easement ("Easement Agreement") dated as of March 4, 2019, and recorded in the NYC Department of Finance Office of the City Register on March 4, 2019 as CRFN # 2019000081445. Capitalized terms used herein without definition have the meanings ascribed to them in the Environmental Easement Agreement.
3. Pursuant to Section 1, 2, 3, 4, and 5 of the Easement Agreement, Grantor granted the Department rights and interests that run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of the Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of certain maintenance, monitoring or operation requirements; and to ensure the potential restriction of future uses of the land that are inconsistent with the stated purpose.
4. This Amendment to Environmental Easement is filed solely in order to revise Section 2 A of the Easement Agreement, the use of the Controlled Property.
5. Pursuant to Section 8 of the Easement Agreement, the Department agrees to amend the Easement Agreement in the manner prescribed by Article 9 of the Real Property Law.

AMENDMENT OF ENVIRONMENTAL EASEMENT

- A. The above recitals are hereby incorporated into this Amendment of Environmental Easement.
- B. The Department and Grantor hereby agree Section 2 A of the Easement Agreement is hereby amended to read as follows:
 - A. (1) The Controlled Property may be used for:
Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)
- C. The Department and Grantor hereby agree Section B of the Easement Agreement is hereby amended to read as follows:
 - B. The Controlled Property shall not be used for Residential purposes as defined in 6 NYCRR 375-1.8(g)(2)(i) and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.
- D. All other terms of the March 4, 2019 Environmental Easement shall remain in effect.
- E. This Amendment of Environmental Easement inures to and binds the parties hereto and their respective successors and assigns.
- F. This Amendment of Environmental Easement shall be governed by and interpreted in accordance with the laws of the State of New York.

IN WITNESS WHEREOF, Grantor has caused this Amendment to Environmental Easement to be signed in its name.

Zhong Chuang Properties, LLC:

By: _____

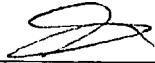
Print Name: Qi Hong Lin

Title: President Date: 01/26/23

Grantor's Acknowledgment

STATE OF NEW YORK)
COUNTY OF New York) ss:
)

On the 26th day of January, in the year 2023, before me, the undersigned, personally appeared Qi Hong Lin, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.



Notary Public - State of New York

SAMMIE HUANG
Notary Public, State of New York
Qualified in New York County
No. 01HUG114472
Commission Expires 8/16/ 2024

**THIS AMENDMENT OF THE ENVIRONMENTAL EASEMENT IS HEREBY
ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through
the Department of Environmental Conservation as Designee of the Commissioner,**

By: Andrew Guglielmi
Andrew Guglielmi, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 3rd day of April, in the year 2023 before me, the undersigned, personally appeared Andrew Guglielmi, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Jennifer Andaloro
Notary Public - State of New York

JENNIFER ANDALORO
Notary Public, State of New York
No. 02AN6098246
Qualified in Albany County 2M
Commission Expires January 14, 2024

Appendix B

Low Flow Purge Logs - Groundwater Sampling

GW-1R

Low Flow Purge Sheet

Date: 4-6-2023

Well ID: GW-1R

M61



Client:

Project: Bridge Cleaners

Analyzer

PID: 0.0

Well Diam: 2.0"

DOW: 20.62

DTW:

23.72

Mike Huston & Brandon Cresnecia

| Time | Temperature | | pH | | ORP | | Specific Cond. | | Turbidity | | Dissolved Oxygen | | Visual | | DTW | Purge Rate |
|--------|-------------|----------|------|--------|-----|--------|----------------|----------|-----------|--------|------------------|----------|--------|---------|-------|------------|
| | Deg C | Change % | S.U. | Change | mV | Change | ms/cm | Change % | NTU | Change | mg/L | Change % | Color | Clarity | | |
| 0 8:00 | 14.80 | | 7.29 | | 327 | | 3.67 | | — | | 9.29 | | Brown | No Sed. | 20.62 | 139 |
| 1 8:05 | 14.96 | | 7.21 | | 367 | | 3.67 | | 1000 | | 8.72 | | " | " | 20.67 | 15 |
| 2 8:10 | 15.03 | | 7.18 | | 310 | | 3.65 | | 892 | | 8.22 | | clear | NOSH | 20.66 | 15 |
| 3 8:15 | 15.24 | | 7.15 | | 306 | | 3.64 | | 644 | | 7.63 | | clear | NOSH | 20.71 | 15 |
| 4 8:20 | 15.03 | | 7.13 | | 304 | | 3.62 | | 522 | | 7.38 | | clear | NOSH | 20.72 | 15 |
| 5 8:25 | 14.73 | | 7.14 | | 302 | | 3.61 | | 493 | | 7.67 | | clear | NOSH | " | 15 |
| 6 8:30 | 14.83 | | 7.14 | | 301 | | 3.61 | | 452 | | 7.22 | | clear | NOSH | " | " |
| 7 8:35 | 14.34 | | 7.14 | | 299 | | 3.64 | | 342 | | 6.98 | | clear | NOSH | " | " |
| 8 8:40 | 14.32 | | 7.15 | | 299 | | 3.62 | | 238 | | 6.92 | | clear | NOSH | " | " |
| 9 8:45 | 14.29 | ✓ | 7.15 | ✓ | 300 | ✓ | 3.59 | ✓ | 330 | ✓ | 6.91 | ✓ | clear | NOSH | " | " |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |

| | |
|--------------|-------|
| Start Time | 8:00 |
| End Time | 8:45 |
| Volume | 3.5 |
| Pump Intake | 22.06 |
| Sample Start | 8:05 |
| Sample End | 8:50 |

| Parameter | Change Allowance | OR |
|-----------|------------------|-----------|
| Temp | 3% | |
| pH | 0.1 | |
| ORP | 10 | |
| Spec Cond | 3% | |
| Turbidity | 10% | <5 NTU |
| DO | 10% | <0.5 mg/L |

Notes

Clear NUM WOCD

PID = Photoionization detector

PPM = parts per million

in = inches

ft = feet

DOW = depth of well

DTW = Depth to water

Deg C = Degrees Celcius

S.U. = Standard Units

ORP = Oxidation-Reduction Potential

mV = Millivolts

Specific Cond = Specific Conductivity

mS/cm = Milli Siemens per centimeter

NTU = Nephelometric Turbidity Units

mg/L = milligrams per Liter

BTOC = Below top of casing

ml/min = Milliliters per minute

Low Flow Purge Sheet

Date: 4/16/73

Well ID: GW 22

e/c/c
HORIZON

Client:

Project: Purge (Clear)Analyzer: MH + BCPID: 0.0Well Diam: 2" DOW: 26.11 DTW: 20.42

| | Time | Temperature | | pH | | ORP | | Specific Cond. | | Turbidity | | Dissolved Oxygen | | Visual | | DTW | Purge Rate |
|----|------|-------------|----------|------|--------|-----|--------|----------------|----------|-----------|--------|------------------|----------|--------|---------|-------|------------|
| | | Deg C | Change % | S.U. | Change | mV | Change | ms/cm | Change % | NTU | Change | mg/L | Change % | Color | Clarity | | |
| 0 | 1050 | 16.34 | | 7.17 | | 272 | | 3.27 | | 988 | | 4.46 | | Brown | NOSH | 20.42 | 125 |
| 1 | 1055 | 16.10 | | 7.18 | | 267 | | 3.28 | | 732 | | 9.30 | | Brown | NOSH | 20.44 | " |
| 2 | 1106 | 16.13 | | 7.11 | | 264 | | 3.30 | | 701 | | 4.27 | | Brown | NOSH | 20.46 | " |
| 3 | 1108 | 16.46 | | 7.13 | | 254 | | 3.21 | | 622 | | 8.52 | | Brown | NOSH | 20.44 | " |
| 4 | 1110 | 16.42 | | 7.12 | | 253 | | 3.31 | | 543 | | 6.43 | | Brown | NOSH | 20.52 | " |
| 5 | 1115 | 16.50 | | 7.05 | | 240 | | 3.31 | | 442 | | 7.45 | | Clear | NOSH | 11 | " |
| 6 | 1120 | 16.49 | | 7.04 | | 239 | | 3.32 | | 305 | | 7.50 | | Clear | NOSH | 11 | " |
| 7 | 1125 | 16.53 | | 7.02 | | 237 | | 3.33 | | 298 | | 5.93 | | Clear | NOSH | 11 | " |
| 8 | 1130 | 16.54 | | 7.03 | | 236 | | 3.34 | | 297 | | 6.98 | | Clear | NOSH | 11 | " |
| 9 | 1135 | 16.58 | ✓ | 7.03 | ✓ | 235 | ✓ | 3.33 | ✓ | 292 | ✓ | 0.81 | ✓ | Clear | NOSH | 11 | " |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |

| | |
|--------------|------|
| Start Time | 1050 |
| End Time | 1135 |
| Volume | 3.5 |
| Pump Intake | 2450 |
| Sample Start | 1135 |
| Sample End | 1140 |

| Parameter | Change Allowance | OR |
|-----------|------------------|-----------|
| Temp | 3% | |
| pH | 0.1 | |
| ORP | 10 | |
| Spec Cond | 3% | |
| Turbidity | 10% | <5 NTU |
| DO | 10% | <0.5 mg/L |

Notes

Clear NOSH, WOON

PID = Photoionization detector
 PPM = parts per million
 in = Inches
 ft = feet
 DOW = depth of well
 DTW = Depth to water
 Deg C = Degrees Celsius
 S.U. = Standard Units
 ORP = Oxidation-Reduction Potential
 mV = Millivolts
 Specific Cond = Specific Conductivity
 mS/cm = Milli Siemens per centimeter
 NTU = Nephelometric Turbidity Units
 mg/L = milligrams per Liter
 BTOC = Below top of casing
 mL/min = Milliliters per minute

Low Flow Purge Sheet

Date: 4-6-2023

Well ID: GW 3P

Client: _____
PID: 0.0Project: Bridge Cleanse Analyzer
Well Diam: 20"Mike Huston
24.42 DTW: 20.61e/c/c
HORIZON

| Time | Temperature | | pH | | ORP | | Specific Cond. | | Turbidity | | Dissolved Oxygen | | Visual | | DTW | Purge Rate |
|---------|-------------|----------|------|--------|-----|--------|----------------|----------|-----------|--------|------------------|----------|--------|---------|---------|------------|
| | Deg C | Change % | S.U. | Change | mV | Change | ms/cm | Change % | NTU | Change | mg/L | Change % | Color | Clarity | ft BTOP | mL/min |
| 0 9:55 | 15.24 | | 7.50 | | 297 | | 1.89 | | 5.76 | | 7.22 | | Clear | No Sed. | 20.61 | 135 |
| 1 9:58 | 15.30 | | 7.38 | | 301 | | 1.93 | | 4.23 | | 7.32 | | 11 | 11 | 20.67 | 11 |
| 2 9:55 | 15.42 | | 7.30 | | 303 | | 1.95 | | 2.84 | | 6.86 | | 11 | 11 | 20.45 | 1 |
| 3 10:00 | 15.33 | | 7.27 | | 304 | | 1.97 | | 3.02 | | 6.65 | | 11 | 11 | 20.67 | 11 |
| 4 9:58 | 15.42 | | 7.25 | | 305 | | 2.00 | | 2.64 | | 6.60 | | 11 | 11 | 20.67 | 11 |
| 5 9:20 | 15.51 | | 7.23 | | 306 | | 2.05 | | 1.93 | | 6.45 | | 11 | 11 | 11 | 11 |
| 6 9:25 | 15.53 | | 7.22 | | 306 | | 2.09 | | 1.61 | | 6.30 | | 11 | 11 | 11 | 11 |
| 7 9:30 | 15.61 | | 7.22 | | 306 | | 2.12 | | 1.50 | | 6.45 | | 11 | 11 | 11 | 11 |
| 8 9:35 | 15.59 | | 7.22 | | 306 | | 2.12 | | 1.42 | | 6.30 | | 11 | 11 | 11 | 11 |
| 9 9:50 | 15.51 | | 7.23 | | 307 | | 2.12 | | 1.38 | | 6.15 | | 11 | 11 | 11 | 11 |
| 10 9:45 | 15.50 | ✓ | 7.22 | ✓ | 307 | ✓ | 2.12 | ✓ | 1.33 | ✓ | 6.14 | ✓ | 11 | 11 | 11 | 11 |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |

| | |
|--------------|-------|
| Start Time | 9:45 |
| End Time | 9:45 |
| Volume | 3.5 |
| Pump Intake | 23.50 |
| Sample Start | 9:45 |
| Sample End | 9:46 |

| Parameter | Change Allowance | OR |
|-----------|------------------|-----------|
| Temp | 3% | |
| pH | 0.1 | |
| ORP | 10 | |
| Spec Cond | 3% | |
| Turbidity | 10% | <5 NTU |
| DO | 10% | <0.5 mg/L |

Notes

* Sediment settled in horizon so NTU high
 But discharge water clear

(Clear, turbid, NTU)

PID = Photoionization detector

PPM = parts per million

in = inches

ft = feet

DOW = depth of well

DTW = Depth to water

Deg C = Degrees Celcius

S.U. = Standard Units

ORP = Oxidation-Reduction Potential

mV = Millivolts

Specific Cond = Specific Conductivity

ms/cm = Milli Siemens per centimeter

NTU = Nephelometric Turbidity Units

mg/L = milligrams per Liter

BTOP = Below top of casing

ml/min = Milliliters per minute

DUPLICATE

Low Flow Purge Sheet

Date: 4/6/23

Well ID: CW-52



Client: _____

Project: Bridge Cleaners

Analyzer Mike Huston

PID: 0.0

Well Diam: 2"

DOW: 26.02

DTW: 20.51

| Time | Temperature | | pH | | ORP | | Specific Cond. | | Turbidity | | Dissolved Oxygen | | Visual | | DTW | Purge Rate |
|------|-------------|----------|------|--------|-----|--------|----------------|----------|-----------|--------|------------------|----------|--------|---------|---------|------------|
| | Deg C | Change % | S.U. | Change | mV | Change | ms/cm | Change % | NTU | Change | mg/L | Change % | Color | Clarity | ft BTOC | ml/min |
| 0 | 1150 | 15.34 | 7.52 | | 251 | | 217 | | 746 | | 4.76 | | Color | Cloudy | 20.51 | 135 |
| 1 | 1155 | 15.44 | 7.57 | | 256 | | 217 | | 881 | | 8.16 | | Cloudy | Cloudy | 20.54 | " |
| 2 | 1200 | 15.75 | 7.58 | | 261 | | 219 | | 501 | | 7.86 | | " | " | 20.54 | " |
| 3 | 1205 | 15.71 | 7.56 | | 263 | | 221 | | 324 | | 7.66 | | " | " | 20.63 | " |
| 4 | 1210 | 15.75 | 7.55 | | 263 | | 224 | | 234 | | 8.53 | | Clear | " | " | " |
| 5 | 1215 | 15.79 | 7.54 | | 260 | | 226 | | 242 | | 7.21 | | " | " | " | " |
| 6 | 1220 | 15.80 | 7.52 | | 258 | | 227 | | 206 | | 6.77 | | " | " | " | " |
| 7 | 1225 | 15.84 | 7.53 | | 253 | | 229 | | 184 | | 6.58 | | " | " | " | " |
| 8 | 1230 | 15.79 | 7.53 | | 250 | | 229 | | 203 | | 6.52 | | " | " | " | " |
| 9 | 1235 | 15.80 | 7.53 | ✓ | 247 | ✓ | 230 | ✓ | 205 | ✓ | 6.42 | ✓ | " | " | " | " |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |

| | |
|--------------|-------|
| Start Time | 1150 |
| End Time | 1235 |
| Volume | 3.5 |
| Pump Intake | 24.50 |
| Sample Start | 1235 |
| Sample End | 1240 |

| Parameter | Change Allowance | OR |
|-----------|------------------|-----------|
| Temp | 3% | |
| pH | 0.1 | |
| ORP | 10 | |
| Spec Cond | 3% | |
| Turbidity | 10% | <5 NTU |
| DO | 10% | <0.5 mg/L |

Notes

Clean Wash None

PID = Photoionization detector

PPM - parts per million

in = inches

ft = feet

DO = Depth to water

Deg C = Degrees Celcius

S.U. = Standard Units

ORP = Oxidation-Reduction Potential

mV = Millivolts

Specific Cond = Specific Conductivity

mS/cm = Milli Siemens per centimeter

NTU = Nephelometric Turbidity Units

mg/L = milligrams per Liter

BTOC = Below top of casing

ml/min = Milliliters per minute

Low Flow Purge Sheet

Date: 4/4/23

Well ID: 6W-6



Client: _____

Project: Bridge Cleaners

Analyzer Mike Huston

PID: 0.0

Well Diam: 2" DOW: 2330 DTW: 20.55

| Time | Temperature | | pH | | ORP | | Specific Cond. | | Turbidity | | Dissolved Oxygen | | Visual | | DTW | Purge Rate |
|--------|-------------|----------|------|--------|------|--------|----------------|----------|-----------|--------|------------------|----------|--------|---------|----------|------------|
| | Deg C | Change % | S.U. | Change | mV | Change | ms/cm | Change % | NTU | Change | mg/L | Change % | Color | Clarity | ft BTOTC | |
| 0 0955 | 15.61 | | 7.93 | | 291 | | 2.90 | | 811 | | 8.17 | | Brown | NOSH | 20.55 | 155 |
| 1 1000 | 15.62 | | 7.91 | | 291 | | 2.81 | | 792 | | 8.15 | | Brown | NOSH | 20.62 | 135 |
| 2 1005 | 15.60 | | 7.77 | | 792 | | 7.41 | | 635 | | 8.31 | | Brown | NOSH | 20.67 | 135 |
| 3 1010 | 15.61 | | 7.75 | | 292 | | 2.91 | | 412 | | 8.10 | | Clear | NOSH | " | 135 |
| 4 1015 | 15.62 | | 7.73 | | 291 | | 2.91 | | 413 | | 8.17 | | Clear | NOSH | " | 135 |
| 5 1020 | 15.63 | | 7.72 | | 291 | | 2.88 | | 312 | | 8.26 | | Clear | NOSH | " | 135 |
| 6 1025 | 15.62 | | 7.67 | | 2.91 | | 2.79 | | 264 | | 8.13 | | Clear | NOSH | " | 135 |
| 7 1030 | 15.60 | | 7.67 | | 2.91 | | 2.78 | | 210 | | 8.19 | | Clear | NOSH | " | 135 |
| 8 1035 | 15.70 | | 7.68 | | 2.91 | | 2.81 | | 202 | | 8.18 | | Clear | NOSH | " | 135 |
| 9 1040 | 15.69 | ✓ | 7.67 | ✓ | 943 | ✓ | 2.92 | ✓ | 198 | ✓ | 8.19 | ✓ | Clear | NOSH | " | 135 |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |

| | |
|--------------|-------|
| Start Time | 0955 |
| End Time | 1040 |
| Volume | 2.5 |
| Pump Intake | 22.00 |
| Sample Start | 1040 |
| Sample End | 1045 |

| Parameter | Change Allowance | OR |
|-----------|------------------|-----------|
| Temp | 3% | |
| pH | 0.1 | |
| ORP | 10 | |
| Spec Cond | 3% | |
| Turbidity | 10% | <5 NTU |
| DO | 10% | <0.5 mg/L |

Notes

Clear NOSH NOOD

PID = Photoionization detector

PPM = parts per million

in = inches

ft = feet

DOW = depth of well

DTW = Depth to water

Deg C = Degrees Celsius

S.U. = Standard Units

ORP = Oxidation-Reduction Potential

mV = Millivolts

Specific Cond = Specific Conductivity

ms/cm = Milli Siemens per centimeter

NTU = Nephelometric Turbidity Units

mg/L = milligrams per Liter

BTOTC = Below top of casing

mL/min = Milliliters per minute

DUPLICATE

Low Flow Purge Sheet

Client: _____
PID: 0,0

Project: Bridge Cleaners Analyzer
Well Diam: 20 DOW: 25.60' DTW: 20.50'

Date: 8-7-2023 Well ID: GW-2R

e/c/c
HORIZON

| Time | Temperature | | pH | | ORP | | Specific Cond. | | Turbidity | | Dissolved Oxygen | | Visual | | DTW | Purge Rate |
|------|-------------|----------|------|--------|-----|--------|----------------|----------|-----------|--------|------------------|----------|--------|----------|-----|------------|
| | Deg C | Change % | S.U. | Change | mV | Change | ms/cm | Change % | NTU | Change | mg/L | Change % | Color | Clarity | | |
| 0 | 17.01 | | 6.80 | | 190 | | 0.00 | | 317 | | 9.24 | | clear | no scale | | |
| 1 | 18.85 | | 6.93 | | 191 | | 2.00 | | 613 | | 7.56 | | " | " | | |
| 2 | 19.23 | | 6.83 | | 185 | | 3.91 | | 429 | | 7.05 | | " | " | | |
| 3 | 19.70 | | 6.85 | | 178 | | 2.81 | | 342 | | 6.88 | | " | " | | |
| 4 | 19.02 | | 6.72 | | 170 | | 2.81 | | 280 | | 6.36 | | " | " | | |
| 5 | 19.23 | | 6.82 | | 162 | | 2.82 | | 264 | | 7.22 | | " | " | | |
| 6 | 19.28 | | 6.81 | | 240 | | 2.82 | | 194 | | 5.93 | | " | " | | |
| 7 | 19.31 | | 6.82 | | 149 | | 2.82 | | 157 | | 5.44 | | " | " | | |
| 8 | 19.36 | | 6.81 | | 143 | | 2.70 | | 142 | | 5.21 | | " | " | | |
| 9 | 19.75 | | 6.83 | | 139 | | 2.82 | | 128 | | 4.92 | | " | " | | |
| 10 | 19.40 | | 6.81 | | 137 | | 2.82 | | 111 | | 4.66 | | " | " | | |
| 11 | 19.54 | | 6.82 | | 135 | | 2.82 | | 97.8 | | 4.80 | | " | " | | |
| 12 | 19.50 | | 6.82 | | 135 | | 2.83 | | 97.8 | | 4.80 | | " | " | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |

| | |
|--------------|-------------|
| Start Time | 1005 |
| End Time | 1100 |
| Volume | 203 Gallons |
| Pump Intake | 24.0 |
| Sample Start | 1100 |
| Sample End | 1120 |

| Parameter | Change Allowance | OR |
|-----------|------------------|-----------|
| Temp | 3% | |
| pH | 0.1 | |
| ORP | 10 | |
| Spec Cond | 3% | |
| Turbidity | 10% | <5 NTU |
| DO | 10% | <0.5 mg/L |

Notes

Post Sample ~~DTW~~ 20.60

PID = Photolionization detector
 PPM = parts per million
 in = inches
 ft = feet
 DOW = depth of well,
 DTW = Depth to water
 Deg C = Degrees Celcius
 S.U. = Standard Units
 ORP = Oxidation-Reduction Potential
 mV = Millivolts
 Specific Cond. = Specific Conductivity
 ms/cm = Milli Siemens per centimeter
 NTU = Nephelometric Turbidity Units
 mg/L = milligrams per Liter
 BTOC = Below top of casing
 mL/min = Milliliters per minute

Low Flow Purge Sheet

Date: 8-7-2023 Well ID: GW-5



Client: _____

Project: Bridge Cleaners Analyzer Mike HustonPID: Q0Well Diam: 20 DOW: 26.00 DTW: 19.80

| Time | Temperature | | pH | | ORP | | Specific Cond. | | Turbidity | | Dissolved Oxygen | | Visual | | DTW | Purge Rate |
|------|-------------|----------|------|--------|-----|--------|----------------|----------|-----------|--------|------------------|----------|--------|----------|-----|------------|
| | Deg C | Change % | S.U. | Change | mV | Change | ms/cm | Change % | NTU | Change | mg/L | Change % | Color | Clarity | | |
| 0 | 19.2 | | 7.60 | | 153 | | 1.62 | | 616 | | 6.36 | | Clear | No Scent | | |
| 1 | 18.2 | | 7.53 | | 161 | | 1.63 | | 620 | | 5.72 | | " | " | | |
| 2 | 17.8 | | 7.49 | | 163 | | 1.64 | | 273 | | 7.30 | | " | " | | |
| 3 | 17.0 | | 7.47 | | 163 | | 1.65 | | 208 | | 7.50 | | A | " | | |
| 4 | 17.5 | | 7.46 | | 164 | | 1.65 | | 678 | | 6.78 | | V | " | | |
| 5 | 17.6 | | 7.46 | | 164 | | 1.66 | | 165 | | 6.50 | | " | " | | |
| 6 | 17.6 | | 7.45 | | 163 | | 1.66 | | 132 | | 6.28 | | " | " | | |
| 7 | 17.6 | | 7.44 | | 161 | | 1.66 | | 96 | | 6.12 | | " | " | | |
| 8 | 17.54 | | 7.44 | | 159 | | 1.66 | | 97 | | 5.72 | | " | " | | |
| 9 | 17.59 | | 7.44 | | 157 | | 1.66 | | 79 | | 5.54 | | " | " | | |
| 10 | 17.7 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |

| | |
|--------------|-----------|
| Start Time | 1125 |
| End Time | 1210 |
| Volume | 25.5110±1 |
| Pump Intake | 24.612 |
| Sample Start | 1210 |
| Sample End | 1210 |

| Parameter | Change Allowance | OR |
|-----------|------------------|-----------|
| Temp | 3% | |
| pH | 0.1 | |
| ORP | 10 | |
| Spec Cond | 3% | |
| Turbidity | 10% | <5 NTU |
| DO | 10% | <0.5 mg/L |

Notes

Post Sample DTW 19.83'

PID = Photoionization detector
 PPM = parts per million
 in = inches
 ft = feet
 DOW = depth of well
 DTW = Depth to water
 Deg C = Degrees Celcius
 S.U. = Standard Units
 ORP = Oxidation-Reduction Potential
 mV = Millivolts
 Specific Cond = Specific Conductivity
 mS/cm = Milli Siemens per centimeter
 NTU = Nephelometric Turbidity Units
 mg/L = milligrams per Liter
 BTOC = Below top of casing
 mL/min = Milliliters per minute

Low Flow Purge Sheet

Date: 8-7-2023 Well ID:

GW-6

Client: _____
PID: 0.0Project: Bridge Cleaners Analyzer: Brandon
Well Diam: 20" DOW: 20.25' DTW: 20.25' 23.35'e/c/c
HORIZON

Med Brown

| Time | Temperature | | pH | | ORP | | Specific Cond. | | Turbidity | | Dissolved Oxygen | | Visual | DTW | Purge Rate |
|------|-------------|----------|------|--------|-----|--------|----------------|----------|-----------|--------|------------------|----------|--------|-----|------------|
| | Deg C | Change % | S.U. | Change | mV | Change | ms/cm | Change % | NTU | Change | mg/L | Change % | | | |
| 0 | 905 | | 8.45 | | 95 | | 2.21 | | 0.0 | | 10.10 | | clear | | |
| 1 | 910 | 1.0 | 7.82 | -0.63 | 132 | -12 | 2.24 | | — | | 6.09 | -4.11 | cloudy | " " | |
| 2 | 915 | 1.0 | 7.60 | -0.22 | 149 | -19 | 2.23 | | — | | 6.42 | | " " | " | |
| 3 | 920 | 1.0 | 7.56 | -0.04 | 161 | -11 | 2.24 | | — | | 6.40 | | " " | " | |
| 4 | 925 | 1.0 | 7.53 | -0.03 | 167 | -6 | 2.24 | | — | | 6.40 | | " " | " | |
| 5 | 930 | 1.0 | 7.52 | -0.01 | 172 | -5 | 2.29 | | 137 | | 6.35 | | clear | " | |
| 6 | 935 | 1.0 | 7.52 | -0.01 | 177 | -5 | 2.30 | | 114 | | 7.54 | | " " | " | |
| 7 | 940 | 1.0 | 7.53 | 0.01 | 178 | -1 | 2.30 | | 89 | | 6.39 | | " " | " | |
| 8 | 945 | 1.0 | 7.53 | 0.01 | 190 | 12 | 2.30 | | 97 | | 6.22 | | " " | " | |
| 9 | 950 | 1.0 | 7.53 | 0.01 | 182 | -8 | 2.30 | | 88 | | 6.24 | | " " | " | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |

| | |
|--------------|-------------|
| Start Time | 905 |
| End Time | 950 |
| Volume | 1.5 gallons |
| Pump Intake | 22.0' |
| Sample Start | 950 |
| Sample End | 950 |

| Parameter | Change Allowance | OR |
|-----------|------------------|-----------|
| Temp | 3% | |
| pH | 0.1 | |
| ORP | 10 | |
| Spec Cond | 3% | |
| Turbidity | 10% | <5 NTU |
| DO | 10% | <0.5 mg/L |

Notes

* Turbidity Sensor not Working
 Post Sample DTW 20.40'

PID = Photolonization detector
 PPM = parts per million
 in = inches
 ft = feet
 DOW = depth of well
 DTW = Depth to water
 Deg C = Degrees Celcius
 S.U. = Standard Units
 ORP = Oxidation-Reduction Potential
 mV = Millivolts
 Specific Cond = Specific Conductivity
 .mS/cm = Milli Siemens per centimeter
 NTU = Nephelometric Turbidity Units
 mg/L = milligrams per Liter
 BTOTC = Below top of casing
 ml/min = Milliliters per minute

Appendix C

Laboratory Analytical Reports - Groundwater Sampling



ANALYTICAL REPORT

| | |
|-----------------|--|
| Lab Number: | L2318419 |
| Client: | Environmental Compliance & Control, Inc. 1 Emery Avenue Unit 2 Randolph, NJ 07869 |
| ATTN: | Nick Carlo |
| Phone: | (973) 927-1111 |
| Project Name: | BRIDGE CLEANERS |
| Project Number: | BRIDGE CLEANERS |
| Report Date: | 04/13/23 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|-----------|--------|--------------------|-------------------------|--------------|
| L2318419-01 | GW-1R | WATER | QUEENS, NY | 04/06/23 08:45 | 04/06/23 |
| L2318419-02 | GW-6 | WATER | QUEENS, NY | 04/06/23 10:40 | 04/06/23 |
| L2318419-03 | GW-2R | WATER | QUEENS, NY | 04/06/23 11:35 | 04/06/23 |
| L2318419-04 | GW-3R | WATER | QUEENS, NY | 04/06/23 09:45 | 04/06/23 |
| L2318419-05 | GW-5R | WATER | QUEENS, NY | 04/06/23 12:35 | 04/06/23 |
| L2318419-06 | DUP | WATER | QUEENS, NY | 04/06/23 00:00 | 04/06/23 |
| L2318419-07 | FB | WATER | QUEENS, NY | 04/06/23 11:30 | 04/06/23 |
| L2318419-08 | TB | WATER | QUEENS, NY | 04/06/23 00:00 | 04/06/23 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 04/13/23

ORGANICS



VOLATILES



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-01 | Date Collected: | 04/06/23 08:45 |
| Client ID: | GW-1R | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/13/23 00:33
Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1-Dichloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Chloroform | ND | ug/l | 2.5 | 0.70 | 1 | |
| Carbon tetrachloride | ND | ug/l | 0.50 | 0.13 | 1 | |
| 1,2-Dichloropropane | ND | ug/l | 1.0 | 0.14 | 1 | |
| Dibromochloromethane | ND | ug/l | 0.50 | 0.15 | 1 | |
| 1,1,2-Trichloroethane | ND | ug/l | 1.5 | 0.50 | 1 | |
| Tetrachloroethene | 24 | ug/l | 0.50 | 0.18 | 1 | |
| Chlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | 0.13 | 1 | |
| 1,1,1-Trichloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromodichloromethane | ND | ug/l | 0.50 | 0.19 | 1 | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.16 | 1 | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.14 | 1 | |
| 1,3-Dichloropropene, Total | ND | ug/l | 0.50 | 0.14 | 1 | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromoform | ND | ug/l | 2.0 | 0.65 | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | 0.17 | 1 | |
| Benzene | ND | ug/l | 0.50 | 0.16 | 1 | |
| Toluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Ethylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Chloromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromomethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Vinyl chloride | ND | ug/l | 1.0 | 0.07 | 1 | |
| Chloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | 0.17 | 1 | |
| trans-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | 1 | |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-01 | Date Collected: | 04/06/23 08:45 |
| Client ID: | GW-1R | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.82 | ug/l | 0.50 | 0.18 | 1 | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Methyl tert butyl ether | ND | ug/l | 2.5 | 0.70 | 1 | |
| p/m-Xylene | ND | ug/l | 2.5 | 0.70 | 1 | |
| o-Xylene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Xylenes, Total | ND | ug/l | 2.5 | 0.70 | 1 | |
| cis-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dichloroethene, Total | ND | ug/l | 2.5 | 0.70 | 1 | |
| Dibromomethane | ND | ug/l | 5.0 | 1.0 | 1 | |
| 1,2,3-Trichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Acrylonitrile | ND | ug/l | 5.0 | 1.5 | 1 | |
| Styrene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | 1.0 | 1 | |
| Acetone | ND | ug/l | 5.0 | 1.5 | 1 | |
| Carbon disulfide | ND | ug/l | 5.0 | 1.0 | 1 | |
| 2-Butanone | ND | ug/l | 5.0 | 1.9 | 1 | |
| Vinyl acetate | ND | ug/l | 5.0 | 1.0 | 1 | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | 1.0 | 1 | |
| 2-Hexanone | ND | ug/l | 5.0 | 1.0 | 1 | |
| Bromochloromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | 0.65 | 1 | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| n-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| sec-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| tert-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| o-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| p-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Hexachlorobutadiene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Isopropylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| p-Isopropyltoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Naphthalene | ND | ug/l | 2.5 | 0.70 | 1 | |



Project Name: BRIDGE CLEANERS

Lab Number: L2318419

Project Number: BRIDGE CLEANERS

Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-01 | Date Collected: | 04/06/23 08:45 |
| Client ID: | GW-1R | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 108 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 105 | | 70-130 |
| Dibromofluoromethane | 105 | | 70-130 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-02 | Date Collected: | 04/06/23 10:40 |
| Client ID: | GW-6 | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/12/23 11:57
Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | 1.0 | J | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 7.9 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-02 | Date Collected: | 04/06/23 10:40 |
| Client ID: | GW-6 | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.64 | ug/l | 0.50 | 0.18 | 1 | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Methyl tert butyl ether | ND | ug/l | 2.5 | 0.70 | 1 | |
| p/m-Xylene | ND | ug/l | 2.5 | 0.70 | 1 | |
| o-Xylene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Xylenes, Total | ND | ug/l | 2.5 | 0.70 | 1 | |
| cis-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dichloroethene, Total | ND | ug/l | 2.5 | 0.70 | 1 | |
| Dibromomethane | ND | ug/l | 5.0 | 1.0 | 1 | |
| 1,2,3-Trichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Acrylonitrile | ND | ug/l | 5.0 | 1.5 | 1 | |
| Styrene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | 1.0 | 1 | |
| Acetone | ND | ug/l | 5.0 | 1.5 | 1 | |
| Carbon disulfide | ND | ug/l | 5.0 | 1.0 | 1 | |
| 2-Butanone | ND | ug/l | 5.0 | 1.9 | 1 | |
| Vinyl acetate | ND | ug/l | 5.0 | 1.0 | 1 | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | 1.0 | 1 | |
| 2-Hexanone | ND | ug/l | 5.0 | 1.0 | 1 | |
| Bromochloromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | 0.65 | 1 | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| n-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| sec-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| tert-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| o-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| p-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Hexachlorobutadiene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Isopropylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| p-Isopropyltoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Naphthalene | ND | ug/l | 2.5 | 0.70 | 1 | |



Project Name: BRIDGE CLEANERS

Lab Number: L2318419

Project Number: BRIDGE CLEANERS

Report Date: 04/13/23

SAMPLE RESULTS

Lab ID: L2318419-02
 Client ID: GW-6
 Sample Location: QUEENS, NY

Date Collected: 04/06/23 10:40
 Date Received: 04/06/23
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 104 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 106 | | 70-130 |
| Dibromofluoromethane | 103 | | 70-130 |

Project Name: BRIDGE CLEANERS

Lab Number: L2318419

Project Number: BRIDGE CLEANERS

Report Date: 04/13/23

SAMPLE RESULTS

Lab ID: L2318419-03 D
 Client ID: GW-2R
 Sample Location: QUEENS, NY

Date Collected: 04/06/23 11:35
 Date Received: 04/06/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 04/12/23 12:18
 Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | ug/l | 10 | 2.8 | 4 | |
| 1,1-Dichloroethane | ND | ug/l | 10 | 2.8 | 4 | |
| Chloroform | ND | ug/l | 10 | 2.8 | 4 | |
| Carbon tetrachloride | ND | ug/l | 2.0 | 0.54 | 4 | |
| 1,2-Dichloropropane | ND | ug/l | 4.0 | 0.55 | 4 | |
| Dibromochloromethane | ND | ug/l | 2.0 | 0.60 | 4 | |
| 1,1,2-Trichloroethane | ND | ug/l | 6.0 | 2.0 | 4 | |
| Tetrachloroethene | 380 | ug/l | 2.0 | 0.72 | 4 | |
| Chlorobenzene | ND | ug/l | 10 | 2.8 | 4 | |
| Trichlorofluoromethane | ND | ug/l | 10 | 2.8 | 4 | |
| 1,2-Dichloroethane | ND | ug/l | 2.0 | 0.53 | 4 | |
| 1,1,1-Trichloroethane | ND | ug/l | 10 | 2.8 | 4 | |
| Bromodichloromethane | ND | ug/l | 2.0 | 0.77 | 4 | |
| trans-1,3-Dichloropropene | ND | ug/l | 2.0 | 0.66 | 4 | |
| cis-1,3-Dichloropropene | ND | ug/l | 2.0 | 0.58 | 4 | |
| 1,3-Dichloropropene, Total | ND | ug/l | 2.0 | 0.58 | 4 | |
| 1,1-Dichloropropene | ND | ug/l | 10 | 2.8 | 4 | |
| Bromoform | ND | ug/l | 8.0 | 2.6 | 4 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 2.0 | 0.67 | 4 | |
| Benzene | ND | ug/l | 2.0 | 0.64 | 4 | |
| Toluene | ND | ug/l | 10 | 2.8 | 4 | |
| Ethylbenzene | ND | ug/l | 10 | 2.8 | 4 | |
| Chloromethane | ND | ug/l | 10 | 2.8 | 4 | |
| Bromomethane | ND | ug/l | 10 | 2.8 | 4 | |
| Vinyl chloride | ND | ug/l | 4.0 | 0.28 | 4 | |
| Chloroethane | ND | ug/l | 10 | 2.8 | 4 | |
| 1,1-Dichloroethene | ND | ug/l | 2.0 | 0.68 | 4 | |
| trans-1,2-Dichloroethene | ND | ug/l | 10 | 2.8 | 4 | |



Project Name: BRIDGE CLEANERS

Lab Number: L2318419

Project Number: BRIDGE CLEANERS

Report Date: 04/13/23

SAMPLE RESULTS

| | | | | |
|------------------|-------------|---|-----------------|----------------|
| Lab ID: | L2318419-03 | D | Date Collected: | 04/06/23 11:35 |
| Client ID: | GW-2R | | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 25 | ug/l | 2.0 | 0.70 | 4 | |
| 1,2-Dichlorobenzene | ND | ug/l | 10 | 2.8 | 4 | |
| 1,3-Dichlorobenzene | ND | ug/l | 10 | 2.8 | 4 | |
| 1,4-Dichlorobenzene | ND | ug/l | 10 | 2.8 | 4 | |
| Methyl tert butyl ether | ND | ug/l | 10 | 2.8 | 4 | |
| p/m-Xylene | ND | ug/l | 10 | 2.8 | 4 | |
| o-Xylene | ND | ug/l | 10 | 2.8 | 4 | |
| Xylenes, Total | ND | ug/l | 10 | 2.8 | 4 | |
| cis-1,2-Dichloroethene | ND | ug/l | 10 | 2.8 | 4 | |
| 1,2-Dichloroethene, Total | ND | ug/l | 10 | 2.8 | 4 | |
| Dibromomethane | ND | ug/l | 20 | 4.0 | 4 | |
| 1,2,3-Trichloropropane | ND | ug/l | 10 | 2.8 | 4 | |
| Acrylonitrile | ND | ug/l | 20 | 6.0 | 4 | |
| Styrene | ND | ug/l | 10 | 2.8 | 4 | |
| Dichlorodifluoromethane | ND | ug/l | 20 | 4.0 | 4 | |
| Acetone | ND | ug/l | 20 | 5.8 | 4 | |
| Carbon disulfide | ND | ug/l | 20 | 4.0 | 4 | |
| 2-Butanone | ND | ug/l | 20 | 7.8 | 4 | |
| Vinyl acetate | ND | ug/l | 20 | 4.0 | 4 | |
| 4-Methyl-2-pentanone | ND | ug/l | 20 | 4.0 | 4 | |
| 2-Hexanone | ND | ug/l | 20 | 4.0 | 4 | |
| Bromochloromethane | ND | ug/l | 10 | 2.8 | 4 | |
| 2,2-Dichloropropane | ND | ug/l | 10 | 2.8 | 4 | |
| 1,2-Dibromoethane | ND | ug/l | 8.0 | 2.6 | 4 | |
| 1,3-Dichloropropane | ND | ug/l | 10 | 2.8 | 4 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 10 | 2.8 | 4 | |
| Bromobenzene | ND | ug/l | 10 | 2.8 | 4 | |
| n-Butylbenzene | ND | ug/l | 10 | 2.8 | 4 | |
| sec-Butylbenzene | ND | ug/l | 10 | 2.8 | 4 | |
| tert-Butylbenzene | ND | ug/l | 10 | 2.8 | 4 | |
| o-Chlorotoluene | ND | ug/l | 10 | 2.8 | 4 | |
| p-Chlorotoluene | ND | ug/l | 10 | 2.8 | 4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 10 | 2.8 | 4 | |
| Hexachlorobutadiene | ND | ug/l | 10 | 2.8 | 4 | |
| Isopropylbenzene | ND | ug/l | 10 | 2.8 | 4 | |
| p-Isopropyltoluene | ND | ug/l | 10 | 2.8 | 4 | |
| Naphthalene | ND | ug/l | 10 | 2.8 | 4 | |



Project Name: BRIDGE CLEANERS

Lab Number: L2318419

Project Number: BRIDGE CLEANERS

Report Date: 04/13/23

SAMPLE RESULTS

| | | | | |
|------------------|-------------|---|-----------------|----------------|
| Lab ID: | L2318419-03 | D | Date Collected: | 04/06/23 11:35 |
| Client ID: | GW-2R | | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 10 | 2.8 | 4 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 10 | 2.8 | 4 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 10 | 2.8 | 4 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 10 | 2.8 | 4 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 10 | 2.8 | 4 |
| 1,4-Dioxane | ND | | ug/l | 1000 | 240 | 4 |
| p-Diethylbenzene | ND | | ug/l | 8.0 | 2.8 | 4 |
| p-Ethyltoluene | ND | | ug/l | 8.0 | 2.8 | 4 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 8.0 | 2.2 | 4 |
| Ethyl ether | ND | | ug/l | 10 | 2.8 | 4 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 10 | 2.8 | 4 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 100 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 103 | | 70-130 |
| Dibromofluoromethane | 101 | | 70-130 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-04 | Date Collected: | 04/06/23 09:45 |
| Client ID: | GW-3R | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/12/23 12:39
Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1-Dichloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Chloroform | ND | ug/l | 2.5 | 0.70 | 1 | |
| Carbon tetrachloride | ND | ug/l | 0.50 | 0.13 | 1 | |
| 1,2-Dichloropropane | ND | ug/l | 1.0 | 0.14 | 1 | |
| Dibromochloromethane | ND | ug/l | 0.50 | 0.15 | 1 | |
| 1,1,2-Trichloroethane | ND | ug/l | 1.5 | 0.50 | 1 | |
| Tetrachloroethene | 22 | ug/l | 0.50 | 0.18 | 1 | |
| Chlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | 0.13 | 1 | |
| 1,1,1-Trichloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromodichloromethane | ND | ug/l | 0.50 | 0.19 | 1 | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.16 | 1 | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.14 | 1 | |
| 1,3-Dichloropropene, Total | ND | ug/l | 0.50 | 0.14 | 1 | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromoform | ND | ug/l | 2.0 | 0.65 | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | 0.17 | 1 | |
| Benzene | ND | ug/l | 0.50 | 0.16 | 1 | |
| Toluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Ethylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Chloromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromomethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Vinyl chloride | ND | ug/l | 1.0 | 0.07 | 1 | |
| Chloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | 0.17 | 1 | |
| trans-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | 1 | |



Project Name: BRIDGE CLEANERS

Lab Number: L2318419

Project Number: BRIDGE CLEANERS

Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-04 | Date Collected: | 04/06/23 09:45 |
| Client ID: | GW-3R | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.34 | J | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-04 | Date Collected: | 04/06/23 09:45 |
| Client ID: | GW-3R | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 106 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 107 | | 70-130 |
| Dibromofluoromethane | 104 | | 70-130 |

Project Name: BRIDGE CLEANERS

Lab Number: L2318419

Project Number: BRIDGE CLEANERS

Report Date: 04/13/23

SAMPLE RESULTS

Lab ID: L2318419-05
 Client ID: GW-5R
 Sample Location: QUEENS, NY

Date Collected: 04/06/23 12:35
 Date Received: 04/06/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 04/12/23 13:00
 Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | 0.78 | J | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 66 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-05 | Date Collected: | 04/06/23 12:35 |
| Client ID: | GW-5R | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 1.7 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | 1.4 | J | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |



Project Name: BRIDGE CLEANERS

Lab Number: L2318419

Project Number: BRIDGE CLEANERS

Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-05 | Date Collected: | 04/06/23 12:35 |
| Client ID: | GW-5R | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | 1.3 | J | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | 2.0 | J | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | 3.8 | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | 2.2 | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 102 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| Dibromofluoromethane | 102 | | 70-130 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-06 | Date Collected: | 04/06/23 00:00 |
| Client ID: | DUP | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/12/23 13:21
Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | 0.81 | J | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 67 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-06 | Date Collected: | 04/06/23 00:00 |
| Client ID: | DUP | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 1.7 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | 1.6 | J | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |



Project Name: BRIDGE CLEANERS

Lab Number: L2318419

Project Number: BRIDGE CLEANERS

Report Date: 04/13/23

SAMPLE RESULTS

Lab ID: L2318419-06
 Client ID: DUP
 Sample Location: QUEENS, NY

Date Collected: 04/06/23 00:00
 Date Received: 04/06/23
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | 1.4 | J | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | 2.1 | J | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | 4.2 | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | 2.4 | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 101 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 97 | | 70-130 |
| Dibromofluoromethane | 101 | | 70-130 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-07 | Date Collected: | 04/06/23 11:30 |
| Client ID: | FB | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/12/23 13:42
Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 0.31 | J | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-07 | Date Collected: | 04/06/23 11:30 |
| Client ID: | FB | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | ND | ug/l | 0.50 | 0.18 | 1 | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Methyl tert butyl ether | ND | ug/l | 2.5 | 0.70 | 1 | |
| p/m-Xylene | ND | ug/l | 2.5 | 0.70 | 1 | |
| o-Xylene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Xylenes, Total | ND | ug/l | 2.5 | 0.70 | 1 | |
| cis-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dichloroethene, Total | ND | ug/l | 2.5 | 0.70 | 1 | |
| Dibromomethane | ND | ug/l | 5.0 | 1.0 | 1 | |
| 1,2,3-Trichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Acrylonitrile | ND | ug/l | 5.0 | 1.5 | 1 | |
| Styrene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | 1.0 | 1 | |
| Acetone | ND | ug/l | 5.0 | 1.5 | 1 | |
| Carbon disulfide | ND | ug/l | 5.0 | 1.0 | 1 | |
| 2-Butanone | ND | ug/l | 5.0 | 1.9 | 1 | |
| Vinyl acetate | ND | ug/l | 5.0 | 1.0 | 1 | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | 1.0 | 1 | |
| 2-Hexanone | ND | ug/l | 5.0 | 1.0 | 1 | |
| Bromochloromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | 0.65 | 1 | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| n-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| sec-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| tert-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| o-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| p-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Hexachlorobutadiene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Isopropylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| p-Isopropyltoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Naphthalene | ND | ug/l | 2.5 | 0.70 | 1 | |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-07 | Date Collected: | 04/06/23 11:30 |
| Client ID: | FB | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 111 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 104 | | 70-130 |
| Dibromofluoromethane | 109 | | 70-130 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-08 | Date Collected: | 04/06/23 00:00 |
| Client ID: | TB | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/12/23 14:02
Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1-Dichloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Chloroform | ND | ug/l | 2.5 | 0.70 | 1 | |
| Carbon tetrachloride | ND | ug/l | 0.50 | 0.13 | 1 | |
| 1,2-Dichloropropane | ND | ug/l | 1.0 | 0.14 | 1 | |
| Dibromochloromethane | ND | ug/l | 0.50 | 0.15 | 1 | |
| 1,1,2-Trichloroethane | ND | ug/l | 1.5 | 0.50 | 1 | |
| Tetrachloroethene | ND | ug/l | 0.50 | 0.18 | 1 | |
| Chlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | 0.13 | 1 | |
| 1,1,1-Trichloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromodichloromethane | ND | ug/l | 0.50 | 0.19 | 1 | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.16 | 1 | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.14 | 1 | |
| 1,3-Dichloropropene, Total | ND | ug/l | 0.50 | 0.14 | 1 | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromoform | ND | ug/l | 2.0 | 0.65 | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | 0.17 | 1 | |
| Benzene | ND | ug/l | 0.50 | 0.16 | 1 | |
| Toluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Ethylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Chloromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromomethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Vinyl chloride | ND | ug/l | 1.0 | 0.07 | 1 | |
| Chloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | 0.17 | 1 | |
| trans-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | 1 | |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2318419-08 | Date Collected: | 04/06/23 00:00 |
| Client ID: | TB | Date Received: | 04/06/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | ND | ug/l | 0.50 | 0.18 | 1 | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Methyl tert butyl ether | ND | ug/l | 2.5 | 0.70 | 1 | |
| p/m-Xylene | ND | ug/l | 2.5 | 0.70 | 1 | |
| o-Xylene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Xylenes, Total | ND | ug/l | 2.5 | 0.70 | 1 | |
| cis-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dichloroethene, Total | ND | ug/l | 2.5 | 0.70 | 1 | |
| Dibromomethane | ND | ug/l | 5.0 | 1.0 | 1 | |
| 1,2,3-Trichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Acrylonitrile | ND | ug/l | 5.0 | 1.5 | 1 | |
| Styrene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | 1.0 | 1 | |
| Acetone | ND | ug/l | 5.0 | 1.5 | 1 | |
| Carbon disulfide | ND | ug/l | 5.0 | 1.0 | 1 | |
| 2-Butanone | ND | ug/l | 5.0 | 1.9 | 1 | |
| Vinyl acetate | ND | ug/l | 5.0 | 1.0 | 1 | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | 1.0 | 1 | |
| 2-Hexanone | ND | ug/l | 5.0 | 1.0 | 1 | |
| Bromochloromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | 0.65 | 1 | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| n-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| sec-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| tert-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| o-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| p-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Hexachlorobutadiene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Isopropylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| p-Isopropyltoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Naphthalene | ND | ug/l | 2.5 | 0.70 | 1 | |



Project Name: BRIDGE CLEANERS

Lab Number: L2318419

Project Number: BRIDGE CLEANERS

Report Date: 04/13/23

SAMPLE RESULTS

Lab ID: L2318419-08
 Client ID: TB
 Sample Location: QUEENS, NY

Date Collected: 04/06/23 00:00
 Date Received: 04/06/23
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 110 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 106 | | 70-130 |
| Dibromofluoromethane | 112 | | 70-130 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/12/23 08:29
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|--------|-------------|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): | 02-08 | | Batch: | WG1765771-5 | |
| Methylene chloride | ND | ug/l | 2.5 | 0.70 | |
| 1,1-Dichloroethane | ND | ug/l | 2.5 | 0.70 | |
| Chloroform | ND | ug/l | 2.5 | 0.70 | |
| Carbon tetrachloride | ND | ug/l | 0.50 | 0.13 | |
| 1,2-Dichloropropane | ND | ug/l | 1.0 | 0.14 | |
| Dibromochloromethane | ND | ug/l | 0.50 | 0.15 | |
| 1,1,2-Trichloroethane | ND | ug/l | 1.5 | 0.50 | |
| Tetrachloroethene | ND | ug/l | 0.50 | 0.18 | |
| Chlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | 0.13 | |
| 1,1,1-Trichloroethane | ND | ug/l | 2.5 | 0.70 | |
| Bromodichloromethane | ND | ug/l | 0.50 | 0.19 | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.16 | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.14 | |
| 1,3-Dichloropropene, Total | ND | ug/l | 0.50 | 0.14 | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | 0.70 | |
| Bromoform | ND | ug/l | 2.0 | 0.65 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | 0.17 | |
| Benzene | ND | ug/l | 0.50 | 0.16 | |
| Toluene | ND | ug/l | 2.5 | 0.70 | |
| Ethylbenzene | ND | ug/l | 2.5 | 0.70 | |
| Chloromethane | ND | ug/l | 2.5 | 0.70 | |
| Bromomethane | ND | ug/l | 2.5 | 0.70 | |
| Vinyl chloride | ND | ug/l | 1.0 | 0.07 | |
| Chloroethane | ND | ug/l | 2.5 | 0.70 | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | 0.17 | |
| trans-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | |
| Trichloroethene | ND | ug/l | 0.50 | 0.18 | |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/12/23 08:29
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------------|------|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): | 02-08 | Batch: | WG1765771-5 | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| Methyl tert butyl ether | ND | ug/l | 2.5 | 0.70 | |
| p/m-Xylene | ND | ug/l | 2.5 | 0.70 | |
| o-Xylene | ND | ug/l | 2.5 | 0.70 | |
| Xylenes, Total | ND | ug/l | 2.5 | 0.70 | |
| cis-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dichloroethene, Total | ND | ug/l | 2.5 | 0.70 | |
| Dibromomethane | ND | ug/l | 5.0 | 1.0 | |
| 1,2,3-Trichloropropane | ND | ug/l | 2.5 | 0.70 | |
| Acrylonitrile | ND | ug/l | 5.0 | 1.5 | |
| Styrene | ND | ug/l | 2.5 | 0.70 | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | 1.0 | |
| Acetone | ND | ug/l | 5.0 | 1.5 | |
| Carbon disulfide | ND | ug/l | 5.0 | 1.0 | |
| 2-Butanone | ND | ug/l | 5.0 | 1.9 | |
| Vinyl acetate | ND | ug/l | 5.0 | 1.0 | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | 1.0 | |
| 2-Hexanone | ND | ug/l | 5.0 | 1.0 | |
| Bromochloromethane | ND | ug/l | 2.5 | 0.70 | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | 0.65 | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | 0.70 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 2.5 | 0.70 | |
| Bromobenzene | ND | ug/l | 2.5 | 0.70 | |
| n-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |
| sec-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |
| tert-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/12/23 08:29
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------------|------|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): | 02-08 | Batch: | WG1765771-5 | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | |
| p-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | 0.70 | |
| Hexachlorobutadiene | ND | ug/l | 2.5 | 0.70 | |
| Isopropylbenzene | ND | ug/l | 2.5 | 0.70 | |
| p-Isopropyltoluene | ND | ug/l | 2.5 | 0.70 | |
| Naphthalene | ND | ug/l | 2.5 | 0.70 | |
| n-Propylbenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,4-Dioxane | ND | ug/l | 250 | 61. | |
| p-Diethylbenzene | ND | ug/l | 2.0 | 0.70 | |
| p-Ethyltoluene | ND | ug/l | 2.0 | 0.70 | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | 0.54 | |
| Ethyl ether | ND | ug/l | 2.5 | 0.70 | |
| trans-1,4-Dichloro-2-butene | ND | ug/l | 2.5 | 0.70 | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 110 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 103 | | 70-130 |
| Dibromofluoromethane | 107 | | 70-130 |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/12/23 19:00
Analyst: TMS

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|--------|-------------|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 | | | Batch: | WG1766227-5 | |
| Methylene chloride | ND | ug/l | 2.5 | 0.70 | |
| 1,1-Dichloroethane | ND | ug/l | 2.5 | 0.70 | |
| Chloroform | ND | ug/l | 2.5 | 0.70 | |
| Carbon tetrachloride | ND | ug/l | 0.50 | 0.13 | |
| 1,2-Dichloropropane | ND | ug/l | 1.0 | 0.14 | |
| Dibromochloromethane | ND | ug/l | 0.50 | 0.15 | |
| 1,1,2-Trichloroethane | ND | ug/l | 1.5 | 0.50 | |
| Tetrachloroethene | ND | ug/l | 0.50 | 0.18 | |
| Chlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | 0.13 | |
| 1,1,1-Trichloroethane | ND | ug/l | 2.5 | 0.70 | |
| Bromodichloromethane | ND | ug/l | 0.50 | 0.19 | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.16 | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.14 | |
| 1,3-Dichloropropene, Total | ND | ug/l | 0.50 | 0.14 | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | 0.70 | |
| Bromoform | ND | ug/l | 2.0 | 0.65 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | 0.17 | |
| Benzene | ND | ug/l | 0.50 | 0.16 | |
| Toluene | ND | ug/l | 2.5 | 0.70 | |
| Ethylbenzene | ND | ug/l | 2.5 | 0.70 | |
| Chloromethane | ND | ug/l | 2.5 | 0.70 | |
| Bromomethane | ND | ug/l | 2.5 | 0.70 | |
| Vinyl chloride | ND | ug/l | 1.0 | 0.07 | |
| Chloroethane | ND | ug/l | 2.5 | 0.70 | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | 0.17 | |
| trans-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | |
| Trichloroethene | ND | ug/l | 0.50 | 0.18 | |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/12/23 19:00
Analyst: TMS

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|--------|-------------|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 | | | Batch: | WG1766227-5 | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| Methyl tert butyl ether | ND | ug/l | 2.5 | 0.70 | |
| p/m-Xylene | ND | ug/l | 2.5 | 0.70 | |
| o-Xylene | ND | ug/l | 2.5 | 0.70 | |
| Xylenes, Total | ND | ug/l | 2.5 | 0.70 | |
| cis-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dichloroethene, Total | ND | ug/l | 2.5 | 0.70 | |
| Dibromomethane | ND | ug/l | 5.0 | 1.0 | |
| 1,2,3-Trichloropropane | ND | ug/l | 2.5 | 0.70 | |
| Acrylonitrile | ND | ug/l | 5.0 | 1.5 | |
| Styrene | ND | ug/l | 2.5 | 0.70 | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | 1.0 | |
| Acetone | ND | ug/l | 5.0 | 1.5 | |
| Carbon disulfide | ND | ug/l | 5.0 | 1.0 | |
| 2-Butanone | ND | ug/l | 5.0 | 1.9 | |
| Vinyl acetate | ND | ug/l | 5.0 | 1.0 | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | 1.0 | |
| 2-Hexanone | ND | ug/l | 5.0 | 1.0 | |
| Bromochloromethane | ND | ug/l | 2.5 | 0.70 | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | 0.65 | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | 0.70 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 2.5 | 0.70 | |
| Bromobenzene | ND | ug/l | 2.5 | 0.70 | |
| n-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |
| sec-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |
| tert-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/12/23 19:00
Analyst: TMS

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|--------|-------------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 | | | Batch: | WG1766227-5 | |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 113 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 104 | | 70-130 |
| Dibromofluoromethane | 111 | | 70-130 |



Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-08 Batch: WG1765771-3 WG1765771-4 | | | | | | | | |
| Methylene chloride | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1-Dichloroethane | 96 | | 94 | | 70-130 | 2 | | 20 |
| Chloroform | 100 | | 100 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | 110 | | 110 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Dibromochloromethane | 99 | | 100 | | 63-130 | 1 | | 20 |
| 1,1,2-Trichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Tetrachloroethene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Chlorobenzene | 100 | | 100 | | 75-130 | 0 | | 20 |
| Trichlorofluoromethane | 110 | | 110 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 100 | | 110 | | 67-130 | 10 | | 20 |
| Bromodichloromethane | 100 | | 100 | | 67-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | 94 | | 98 | | 70-130 | 4 | | 20 |
| cis-1,3-Dichloropropene | 99 | | 100 | | 70-130 | 1 | | 20 |
| 1,1-Dichloropropene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Bromoform | 97 | | 100 | | 54-136 | 3 | | 20 |
| 1,1,2,2-Tetrachloroethane | 110 | | 110 | | 67-130 | 0 | | 20 |
| Benzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Toluene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Ethylbenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Chloromethane | 110 | | 110 | | 64-130 | 0 | | 20 |
| Bromomethane | 90 | | 92 | | 39-139 | 2 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-08 Batch: WG1765771-3 WG1765771-4 | | | | | | | | |
| Vinyl chloride | 120 | | 120 | | 55-140 | 0 | | 20 |
| Chloroethane | 100 | | 100 | | 55-138 | 0 | | 20 |
| 1,1-Dichloroethene | 110 | | 110 | | 61-145 | 0 | | 20 |
| trans-1,2-Dichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Trichloroethene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,4-Dichlorobenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Methyl tert butyl ether | 97 | | 110 | | 63-130 | 13 | | 20 |
| p/m-Xylene | 105 | | 110 | | 70-130 | 5 | | 20 |
| o-Xylene | 105 | | 110 | | 70-130 | 5 | | 20 |
| cis-1,2-Dichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Dibromomethane | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,2,3-Trichloropropane | 110 | | 110 | | 64-130 | 0 | | 20 |
| Acrylonitrile | 97 | | 94 | | 70-130 | 3 | | 20 |
| Styrene | 110 | | 115 | | 70-130 | 4 | | 20 |
| Dichlorodifluoromethane | 120 | | 120 | | 36-147 | 0 | | 20 |
| Acetone | 97 | | 110 | | 58-148 | 13 | | 20 |
| Carbon disulfide | 110 | | 110 | | 51-130 | 0 | | 20 |
| 2-Butanone | 110 | | 120 | | 63-138 | 9 | | 20 |
| Vinyl acetate | 120 | | 120 | | 70-130 | 0 | | 20 |
| 4-Methyl-2-pentanone | 100 | | 110 | | 59-130 | 10 | | 20 |
| 2-Hexanone | 100 | | 110 | | 57-130 | 10 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-08 Batch: WG1765771-3 WG1765771-4 | | | | | | | | |
| Bromochloromethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 2,2-Dichloropropane | 110 | | 110 | | 63-133 | 0 | | 20 |
| 1,2-Dibromoethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,3-Dichloropropane | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,1,1,2-Tetrachloroethane | 100 | | 100 | | 64-130 | 0 | | 20 |
| Bromobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| n-Butylbenzene | 110 | | 110 | | 53-136 | 0 | | 20 |
| sec-Butylbenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| tert-Butylbenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| o-Chlorotoluene | 110 | | 110 | | 70-130 | 0 | | 20 |
| p-Chlorotoluene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dibromo-3-chloropropane | 100 | | 100 | | 41-144 | 0 | | 20 |
| Hexachlorobutadiene | 100 | | 100 | | 63-130 | 0 | | 20 |
| Isopropylbenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| p-Isopropyltoluene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Naphthalene | 99 | | 100 | | 70-130 | 1 | | 20 |
| n-Propylbenzene | 110 | | 110 | | 69-130 | 0 | | 20 |
| 1,2,3-Trichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2,4-Trichlorobenzene | 99 | | 100 | | 70-130 | 1 | | 20 |
| 1,3,5-Trimethylbenzene | 110 | | 110 | | 64-130 | 0 | | 20 |
| 1,2,4-Trimethylbenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,4-Dioxane | 110 | | 118 | | 56-162 | 7 | | 20 |
| p-Diethylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-08 Batch: WG1765771-3 WG1765771-4 | | | | | | | | |
| p-Ethyltoluene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 96 | | 99 | | 70-130 | 3 | | 20 |
| Ethyl ether | 110 | | 110 | | 59-134 | 0 | | 20 |
| trans-1,4-Dichloro-2-butene | 110 | | 110 | | 70-130 | 0 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 99 | | 100 | | 70-130 |
| Toluene-d8 | 101 | | 102 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 100 | | 70-130 |
| Dibromofluoromethane | 98 | | 97 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1766227-3 WG1766227-4 | | | | | | | | |
| Methylene chloride | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1-Dichloroethane | 110 | | 92 | | 70-130 | 18 | | 20 |
| Chloroform | 110 | | 90 | | 70-130 | 20 | | 20 |
| Carbon tetrachloride | 110 | | 96 | | 63-132 | 14 | | 20 |
| 1,2-Dichloropropane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Dibromochloromethane | 99 | | 100 | | 63-130 | 1 | | 20 |
| 1,1,2-Trichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Tetrachloroethene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Chlorobenzene | 100 | | 100 | | 75-130 | 0 | | 20 |
| Trichlorofluoromethane | 120 | | 110 | | 62-150 | 9 | | 20 |
| 1,2-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 110 | | 93 | | 67-130 | 17 | | 20 |
| Bromodichloromethane | 100 | | 100 | | 67-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | 93 | | 95 | | 70-130 | 2 | | 20 |
| cis-1,3-Dichloropropene | 97 | | 99 | | 70-130 | 2 | | 20 |
| 1,1-Dichloropropene | 100 | | 96 | | 70-130 | 4 | | 20 |
| Bromoform | 92 | | 97 | | 54-136 | 5 | | 20 |
| 1,1,2,2-Tetrachloroethane | 100 | | 110 | | 67-130 | 10 | | 20 |
| Benzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Toluene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Chloromethane | 120 | | 120 | | 64-130 | 0 | | 20 |
| Bromomethane | 120 | | 110 | | 39-139 | 9 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1766227-3 WG1766227-4 | | | | | | | | |
| Vinyl chloride | 120 | | 120 | | 55-140 | 0 | | 20 |
| Chloroethane | 110 | | 110 | | 55-138 | 0 | | 20 |
| 1,1-Dichloroethene | 110 | | 110 | | 61-145 | 0 | | 20 |
| trans-1,2-Dichloroethene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Trichloroethene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,4-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Methyl tert butyl ether | 100 | | 110 | | 63-130 | 10 | | 20 |
| p/m-Xylene | 110 | | 110 | | 70-130 | 0 | | 20 |
| o-Xylene | 110 | | 105 | | 70-130 | 5 | | 20 |
| cis-1,2-Dichloroethene | 110 | | 88 | | 70-130 | 22 | Q | 20 |
| Dibromomethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichloropropane | 100 | | 110 | | 64-130 | 10 | | 20 |
| Acrylonitrile | 100 | | 90 | | 70-130 | 11 | | 20 |
| Styrene | 115 | | 115 | | 70-130 | 0 | | 20 |
| Dichlorodifluoromethane | 120 | | 120 | | 36-147 | 0 | | 20 |
| Acetone | 120 | | 110 | | 58-148 | 9 | | 20 |
| Carbon disulfide | 110 | | 110 | | 51-130 | 0 | | 20 |
| 2-Butanone | 100 | | 110 | | 63-138 | 10 | | 20 |
| Vinyl acetate | 120 | | 110 | | 70-130 | 9 | | 20 |
| 4-Methyl-2-pentanone | 100 | | 110 | | 59-130 | 10 | | 20 |
| 2-Hexanone | 100 | | 110 | | 57-130 | 10 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1766227-3 WG1766227-4 | | | | | | | | |
| Bromochloromethane | 110 | | 85 | | 70-130 | 26 | Q | 20 |
| 2,2-Dichloropropane | 120 | | 100 | | 63-133 | 18 | | 20 |
| 1,2-Dibromoethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,3-Dichloropropane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1,1,2-Tetrachloroethane | 100 | | 100 | | 64-130 | 0 | | 20 |
| Bromobenzene | 96 | | 100 | | 70-130 | 4 | | 20 |
| n-Butylbenzene | 110 | | 110 | | 53-136 | 0 | | 20 |
| sec-Butylbenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| tert-Butylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| o-Chlorotoluene | 100 | | 110 | | 70-130 | 10 | | 20 |
| p-Chlorotoluene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,2-Dibromo-3-chloropropane | 96 | | 98 | | 41-144 | 2 | | 20 |
| Hexachlorobutadiene | 96 | | 96 | | 63-130 | 0 | | 20 |
| Isopropylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| p-Isopropyltoluene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Naphthalene | 92 | | 98 | | 70-130 | 6 | | 20 |
| n-Propylbenzene | 100 | | 110 | | 69-130 | 10 | | 20 |
| 1,2,3-Trichlorobenzene | 98 | | 100 | | 70-130 | 2 | | 20 |
| 1,2,4-Trichlorobenzene | 95 | | 98 | | 70-130 | 3 | | 20 |
| 1,3,5-Trimethylbenzene | 110 | | 110 | | 64-130 | 0 | | 20 |
| 1,2,4-Trimethylbenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,4-Dioxane | 106 | | 106 | | 56-162 | 0 | | 20 |
| p-Diethylbenzene | 99 | | 100 | | 70-130 | 1 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1766227-3 WG1766227-4 | | | | | | | | |
| p-Ethyltoluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 92 | | 95 | | 70-130 | 3 | | 20 |
| Ethyl ether | 110 | | 110 | | 59-134 | 0 | | 20 |
| trans-1,4-Dichloro-2-butene | 100 | | 110 | | 70-130 | 10 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 98 | | 99 | | 70-130 |
| Toluene-d8 | 102 | | 103 | | 70-130 |
| 4-Bromofluorobenzene | 94 | | 99 | | 70-130 |
| Dibromofluoromethane | 99 | | 82 | | 70-130 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Serial_No:04132314:14
Lab Number: L2318419
Report Date: 04/13/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

| Cooler | Custody Seal |
|---------------|---------------------|
| A | Absent |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|-----------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L2318419-01A | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-01B | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-01C | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-02A | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-02B | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-02C | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-03A | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-03B | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-03C | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-04A | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-04B | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-04C | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-05A | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-05B | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-05C | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-06A | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-06B | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-06C | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-07A | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-07B | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-07C | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-08A | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L2318419-08B | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |

*Values in parentheses indicate holding time in days

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Container Information

| Container ID | Container Type | <i>Initial</i> | <i>Final</i> | <i>Temp</i> | | <i>Frozen</i> | | | |
|---------------------|-----------------------|----------------|--------------|-------------|-------|---------------|------|-----------|-------------|
| | | Cooler | pH | pH | deg C | Pres | Seal | Date/Time | Analysis(*) |

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GLOSSARY

Acronyms

| | |
|----------|---|
| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| | Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

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Data Qualifiers

Identified Compounds (TICs).

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2318419
Report Date: 04/13/23

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C**, **SM4500CN-CE**, **EPA 180.1**, **SM2130B**, **SM4500CI-D**, **SM2320B**, **SM2540C**, **SM4500H-B**, **SM4500NO2-B**

EPA 332: Perchlorate; **EPA 524.2**: THMs and VOCs; **EPA 504.1**: EDB, DBCP.

Microbiology: **SM9215B**; **SM9223-P/A**, **SM9223B-Colilert-QT**, **SM9222D**.

Non-Potable Water

SM4500H,B, **EPA 120.1**, **SM2510B**, **SM2540C**, **SM2320B**, **SM4500CL-E**, **SM4500F-BC**, **SM4500NH3-BH**: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1**, **SM4500NO3-F**, **EPA 353.2**: Nitrate-N, **SM4500P-E**, **SM4500P-B**, **E**, **SM4500SO4-E**, **SM5220D**, **EPA 410.4**, **SM5210B**, **SM5310C**, **SM4500CL-D**, **EPA 1664**, **EPA 420.1**, **SM4500-CN-CE**, **SM2540D**, **EPA 300**: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

Microbiology: **SM9223B-Colilert-QT**; **Enterolert-QT**, **SM9221E**, **EPA 1600**, **EPA 1603**, **SM9222D**.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8**: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg. **EPA 522**, **EPA 537.1**.

Non-Potable Water

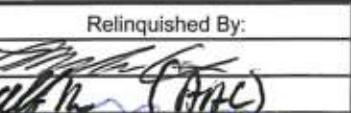
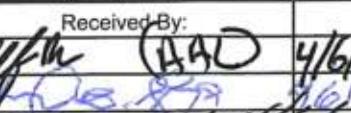
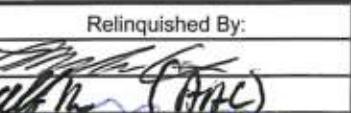
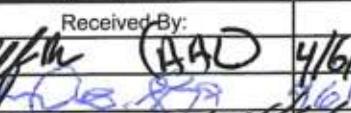
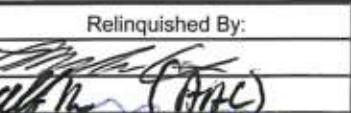
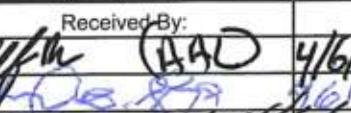
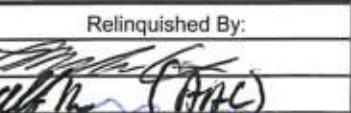
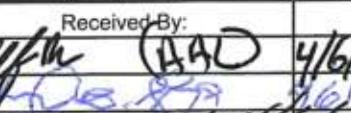
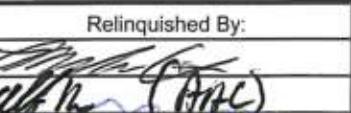
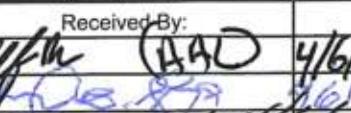
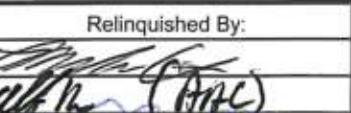
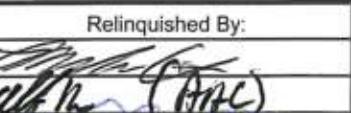
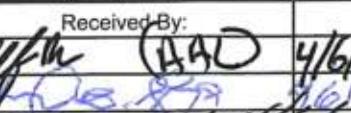
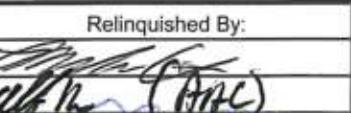
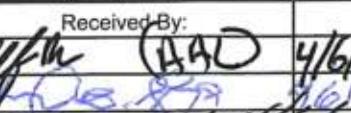
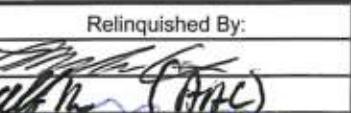
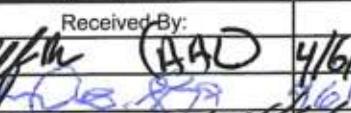
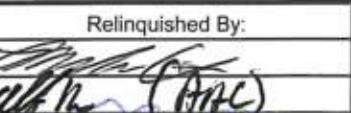
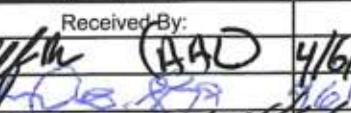
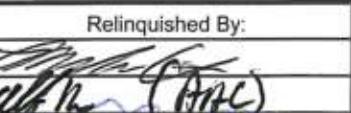
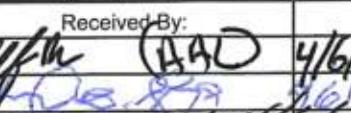
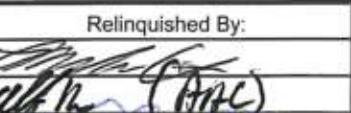
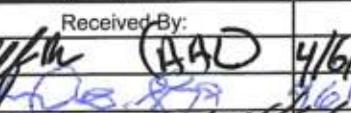
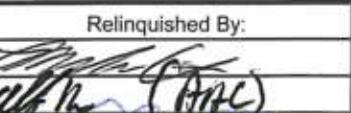
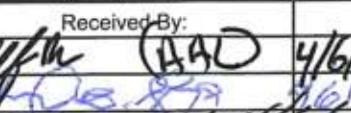
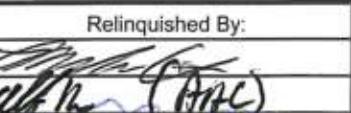
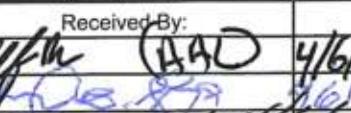
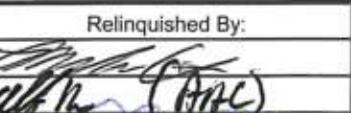
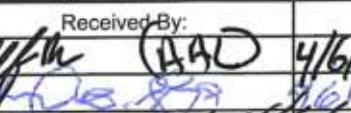
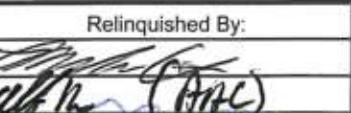
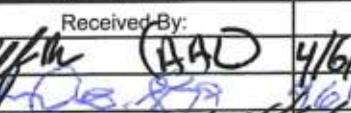
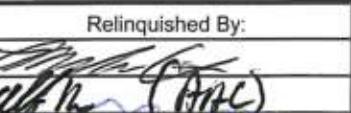
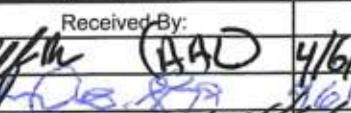
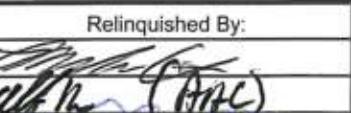
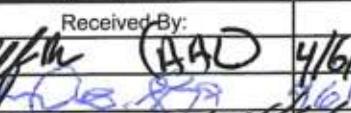
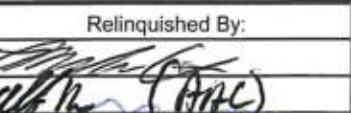
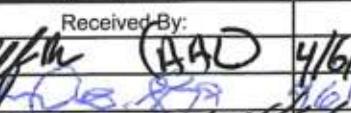
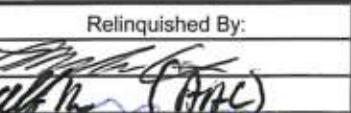
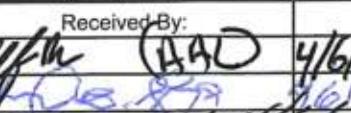
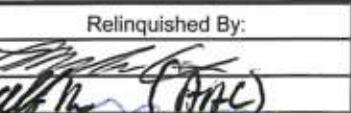
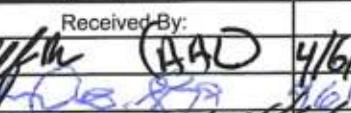
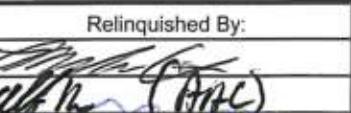
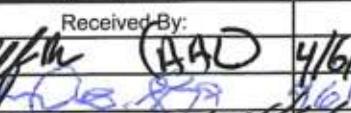
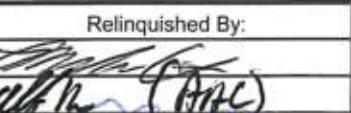
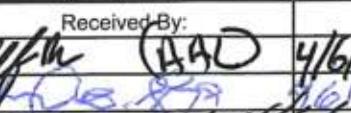
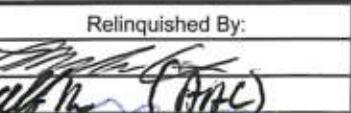
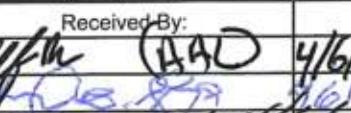
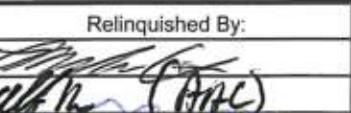
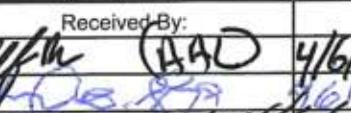
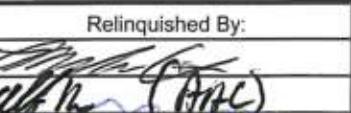
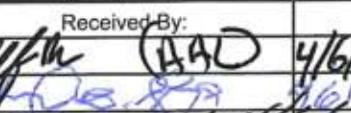
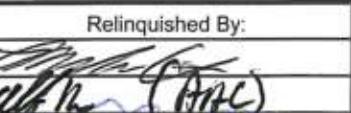
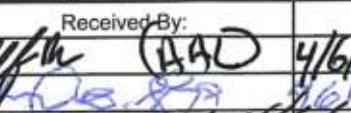
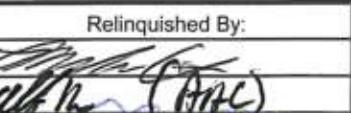
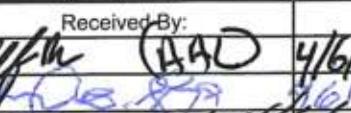
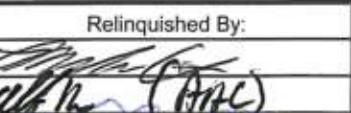
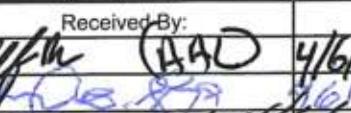
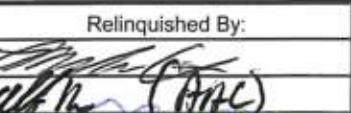
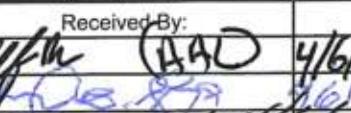
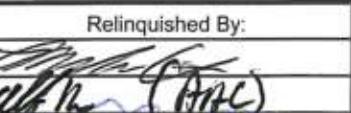
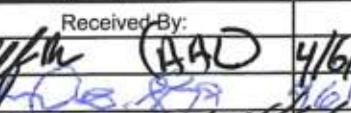
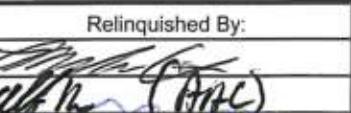
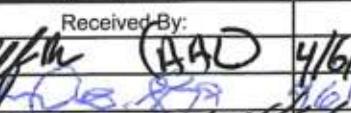
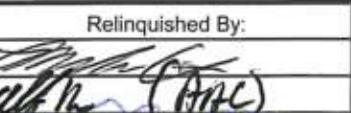
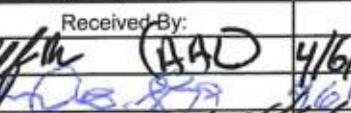
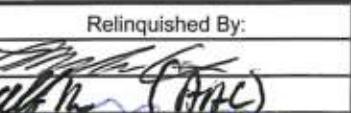
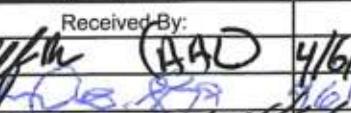
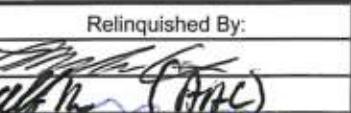
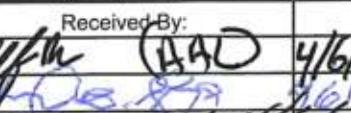
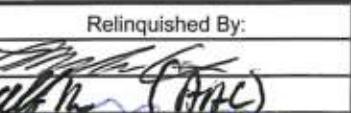
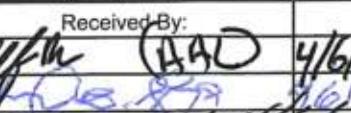
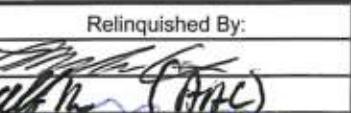
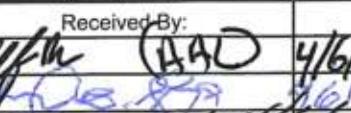
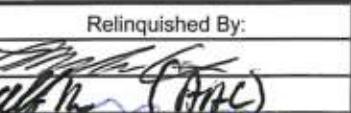
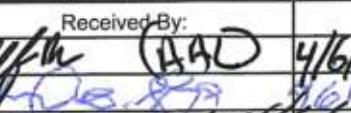
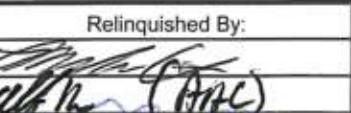
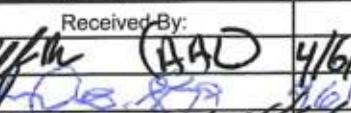
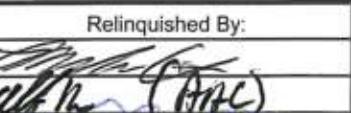
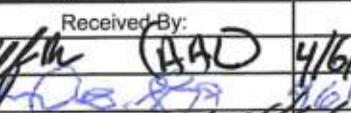
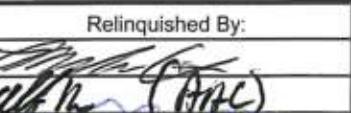
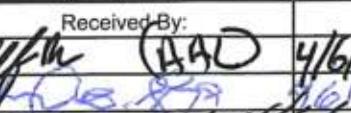
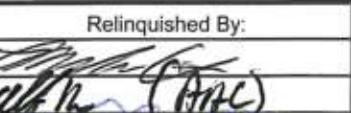
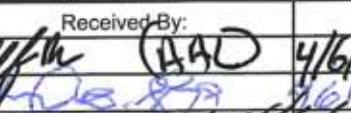
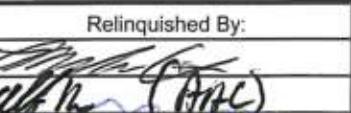
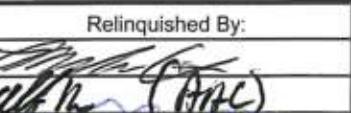
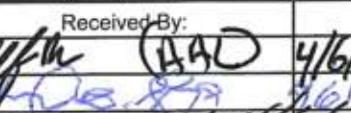
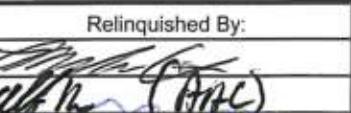
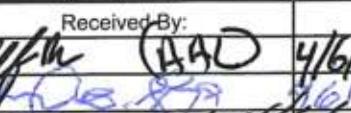
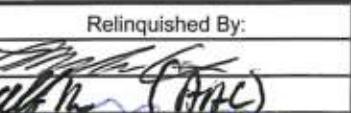
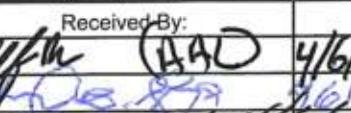
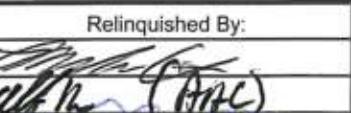
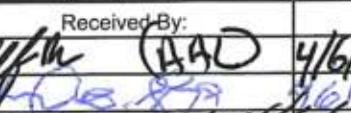
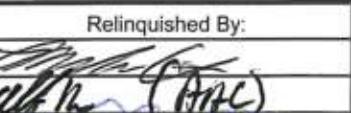
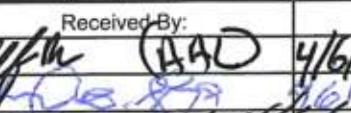
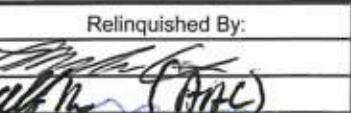
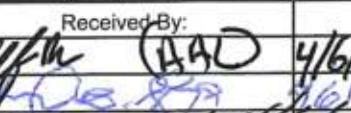
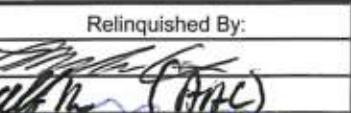
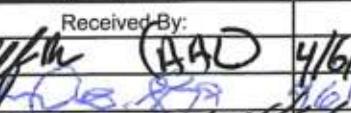
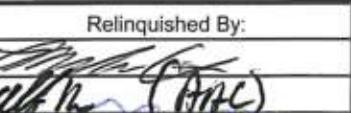
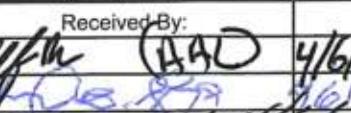
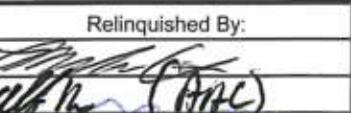
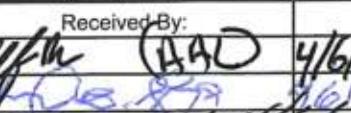
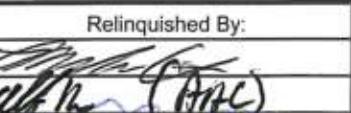
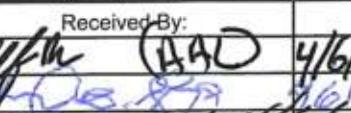
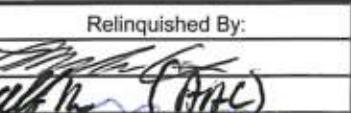
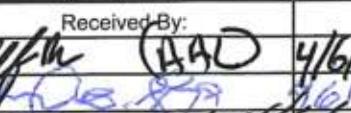
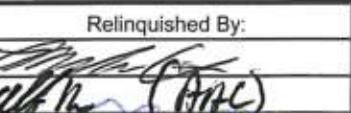
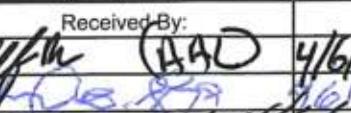
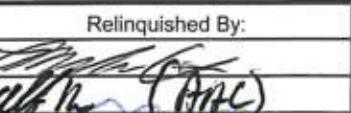
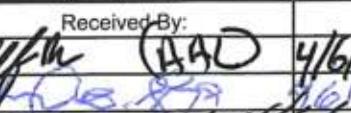
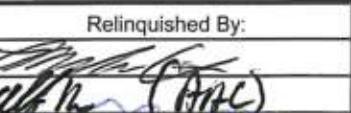
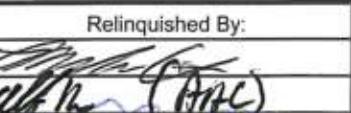
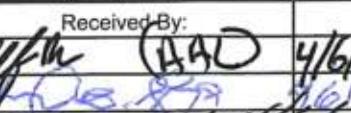
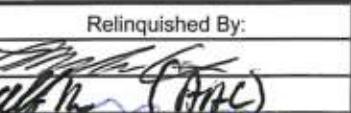
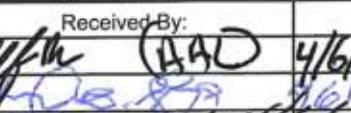
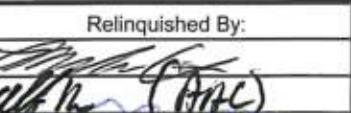
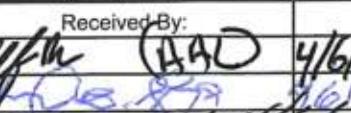
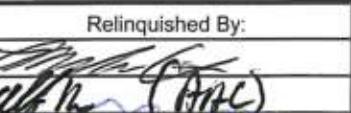
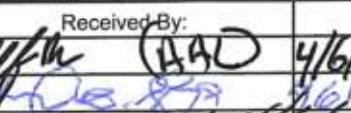
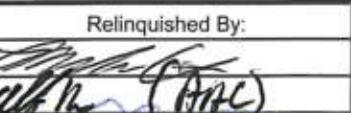
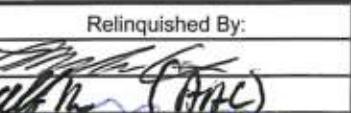
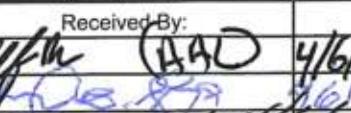
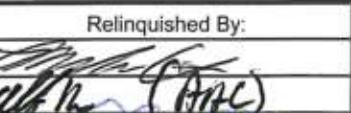
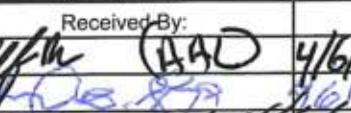
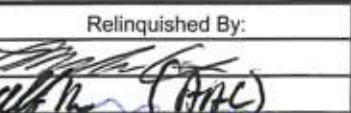
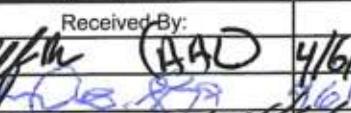
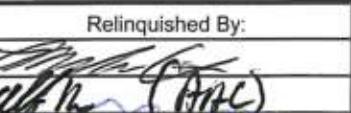
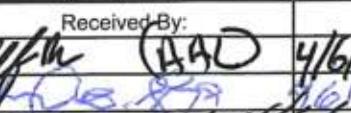
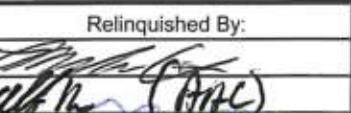
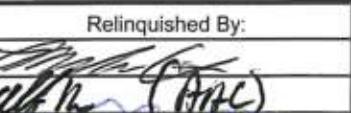
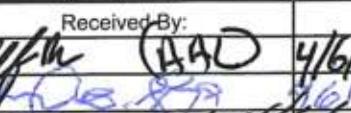
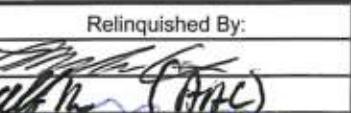
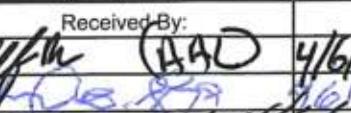
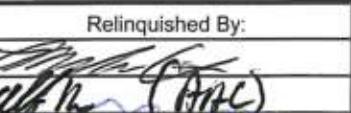
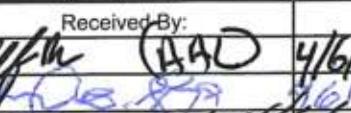
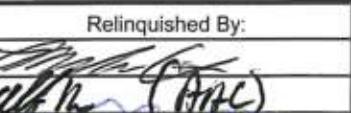
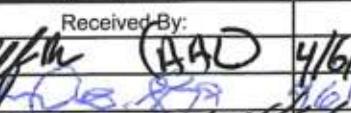
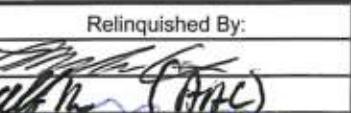
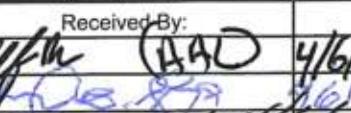
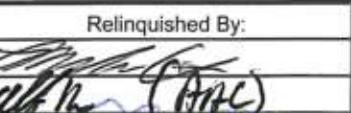
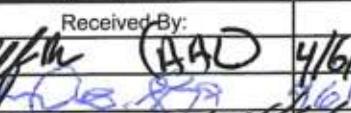
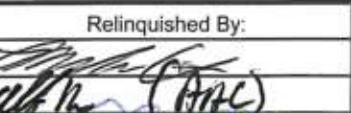
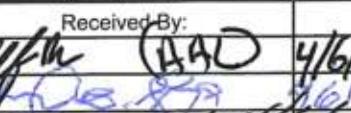
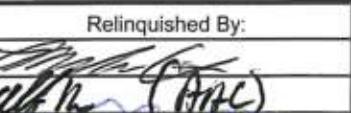
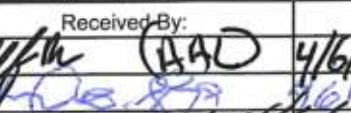
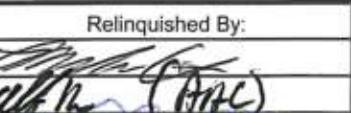
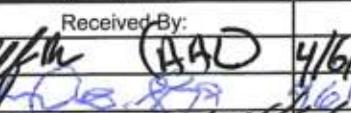
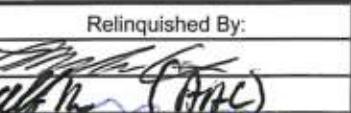
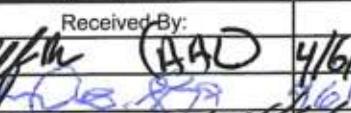
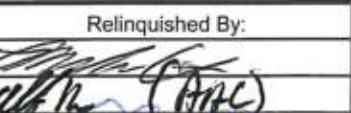
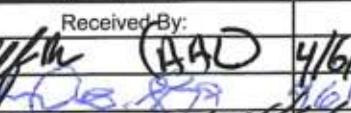
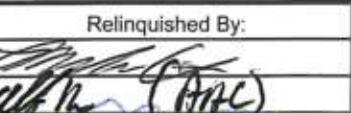
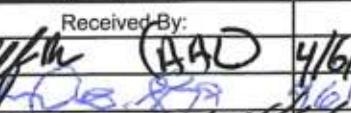
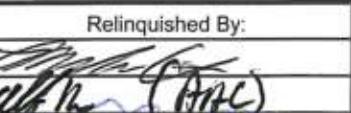
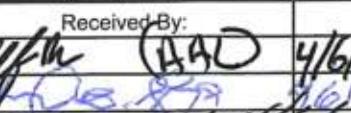
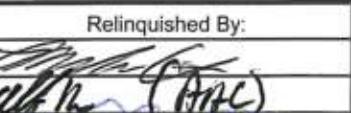
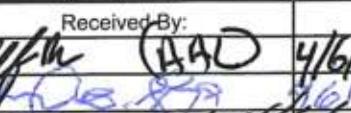
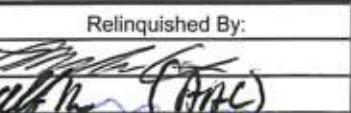
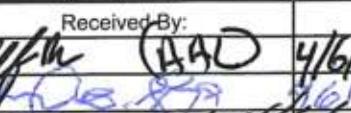
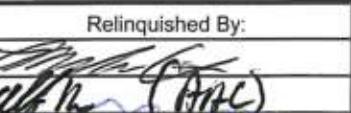
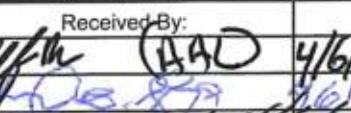
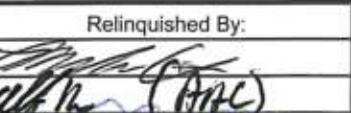
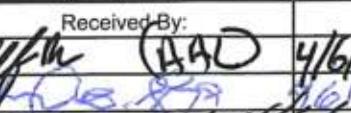
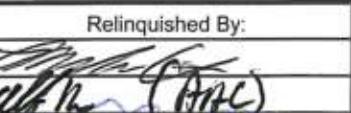
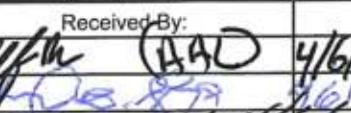
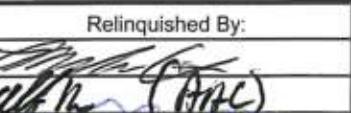
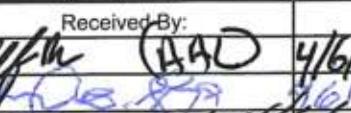
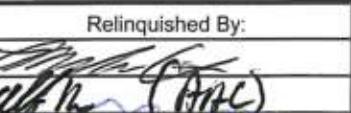
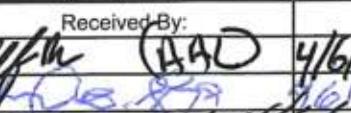
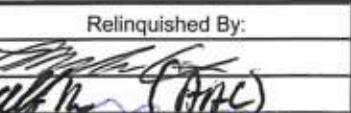
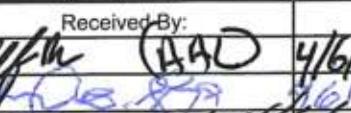
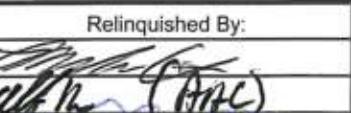
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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|  <p>NEW YORK CHAIN OF CUSTODY</p> <p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p> | | Service Centers | | Page 1 | | Date Rec'd In Lab 04/06/23 | | ALPHA Job # L2318419 | |
| | | | | 1 of 1 | | | | | |
| | | | | | | | | | |
| Client Information <p>Client: FCC Horizon</p> <p>Address: 1 Emevy Ave Randolph, NJ, 07969</p> <p>Phone: 973-397-4878</p> <p>Fax:</p> <p>Email: ncarlu@echorus.com</p> | | Project Information <p>Project Name: BRIDGE CLEANERS</p> <p>Project Location: Queens, NY</p> | | | | Deliverables <p><input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B</p> <p><input type="checkbox"/> EQuIS (1 File) <input checked="" type="checkbox"/> EQuIS (4 File)</p> <p><input type="checkbox"/> Other</p> | | Billing Information <p><input checked="" type="checkbox"/> Same as Client Info</p> <p>PO#</p> | |
| | | Project # (Use Project name as Project #) <input checked="" type="checkbox"/> | | Regulatory Requirement <p><input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375</p> <p><input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51</p> <p><input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other</p> <p><input type="checkbox"/> NY Unrestricted Use</p> <p><input type="checkbox"/> NYC Sewer Discharge</p> | | | | Disposal Site Information <p>Please identify below location of applicable disposal facilities.</p> | |
| Turn-Around Time <p>Standard <input checked="" type="checkbox"/></p> <p>Rush (only if pre approved) <input type="checkbox"/></p> | | Due Date: _____ # of Days: _____ | | | | Disposal Facility: <p><input type="checkbox"/> NJ <input checked="" type="checkbox"/> NY</p> <p><input type="checkbox"/> Other:</p> | | | |
| These samples have been previously analyzed by Alpha <input type="checkbox"/> | | ANALYSIS | | | | Sample Filtration <p><input type="checkbox"/> Done</p> <p><input type="checkbox"/> Lab to do</p> <p>Preservation</p> <p><input type="checkbox"/> Lab to do</p> <p>(Please Specify below)</p> | | | |
| Other project specific requirements/comments: | | | | | | | | | |
| Please specify Metals or TAL. | | | | | | | | | |
| ALPHA Lab ID (Lab Use Only) 18419-6 -02 -03 -04 -05 -06 -07 -08 | Sample ID GW-1R GW-6 GW-2R GW-3R GW-5R DVP FB TB | Collection | | Sample Matrix GW | Sampler's Initials BC | 4/6/23 1040 1135 0945 1235 — 1130 4/5/23 — | ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ | | |
| | | Date | Time | | | | | | |
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| Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other | | Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle | | Westboro: Certification No: MA935 Mansfield: Certification No: MA015 | | Container Type ✓ | | Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.) | |
| | | | | | | Preservative B | | | |
| Relinquished By:  | | Date/Time 4/6/23 | | Received By:  | | Date/Time 4/6/23 1710 | | | |
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ANALYTICAL REPORT

| | |
|-----------------|--|
| Lab Number: | L2345491 |
| Client: | Environmental Compliance & Control, Inc. 1 Emery Avenue Unit 2 Randolph, NJ 07869 |
| ATTN: | Nick Carlo |
| Phone: | (973) 927-1111 |
| Project Name: | BRIDGE CLEANERS |
| Project Number: | BRIDGE CLEANERS |
| Report Date: | 08/22/23 |

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|-----------|--------|--------------------|-------------------------|--------------|
| L2345491-01 | GW-6 | WATER | QUEENS, NY | 08/07/23 09:50 | 08/07/23 |
| L2345491-02 | GW-2R | WATER | QUEENS, NY | 08/07/23 11:00 | 08/07/23 |
| L2345491-03 | GW-5 | WATER | QUEENS, NY | 08/07/23 12:10 | 08/07/23 |
| L2345491-04 | DUP | WATER | QUEENS, NY | 08/07/23 00:00 | 08/07/23 |
| L2345491-05 | FB | WATER | QUEENS, NY | 08/07/23 13:30 | 08/07/23 |
| L2345491-06 | TB | WATER | QUEENS, NY | 08/07/23 00:00 | 08/07/23 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

Case Narrative (continued)

Report Submission

August 22, 2023: This final report includes the results of all requested analyses.

August 21, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Sulfide was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Dissolved Gases

The WG1817385-5 MS recovery, performed on L2345491-02, is outside the acceptance criteria for methane (126%). The unacceptable percent recovery is attributed to the elevated concentrations of target compounds present in the native sample.

Iron, Ferrous

The WG1813003-4 MS recovery, performed on L2345491-02, is outside the acceptance criteria for iron, ferrous (127%); however, the associated LCS recovery is within criteria. No further action was taken.

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. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Kelly O'Neill Kelly O'Neill

Title: Technical Director/Representative

Date: 08/22/23

ORGANICS



VOLATILES



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2345491-01 | Date Collected: | 08/07/23 09:50 |
| Client ID: | GW-6 | Date Received: | 08/07/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/12/23 04:20
Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | 0.95 | J | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 14 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2345491-01 | Date Collected: | 08/07/23 09:50 |
| Client ID: | GW-6 | Date Received: | 08/07/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.64 | ug/l | 0.50 | 0.18 | 1 | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Methyl tert butyl ether | ND | ug/l | 2.5 | 0.70 | 1 | |
| p/m-Xylene | ND | ug/l | 2.5 | 0.70 | 1 | |
| o-Xylene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Xylenes, Total | ND | ug/l | 2.5 | 0.70 | 1 | |
| cis-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dichloroethene, Total | ND | ug/l | 2.5 | 0.70 | 1 | |
| Dibromomethane | ND | ug/l | 5.0 | 1.0 | 1 | |
| 1,2,3-Trichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Acrylonitrile | ND | ug/l | 5.0 | 1.5 | 1 | |
| Styrene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | 1.0 | 1 | |
| Acetone | ND | ug/l | 5.0 | 1.5 | 1 | |
| Carbon disulfide | ND | ug/l | 5.0 | 1.0 | 1 | |
| 2-Butanone | ND | ug/l | 5.0 | 1.9 | 1 | |
| Vinyl acetate | ND | ug/l | 5.0 | 1.0 | 1 | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | 1.0 | 1 | |
| 2-Hexanone | ND | ug/l | 5.0 | 1.0 | 1 | |
| Bromochloromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | 0.65 | 1 | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| n-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| sec-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| tert-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| o-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| p-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Hexachlorobutadiene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Isopropylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| p-Isopropyltoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Naphthalene | ND | ug/l | 2.5 | 0.70 | 1 | |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2345491-01 | Date Collected: | 08/07/23 09:50 |
| Client ID: | GW-6 | Date Received: | 08/07/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 93 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 98 | | 70-130 |
| Dibromofluoromethane | 100 | | 70-130 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Serial_No:08222313:49

Lab Number: L2345491

Report Date: 08/22/23

SAMPLE RESULTS

Lab ID: L2345491-02
Client ID: GW-2R
Sample Location: QUEENS, NY

Date Collected: 08/07/23 11:00
Date Received: 08/07/23
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 117,-
Analytical Date: 08/18/23 08:10
Analyst: SRO

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Dissolved Gases by GC - Mansfield Lab | | | | | | | |
| Methane | ND | | ug/l | 2.00 | 2.00 | 1 | A |
| Ethene | ND | | ug/l | 0.500 | 0.500 | 1 | A |
| Ethane | ND | | ug/l | 0.500 | 0.500 | 1 | A |

Project Name: BRIDGE CLEANERS

Lab Number: L2345491

Project Number: BRIDGE CLEANERS

Report Date: 08/22/23

SAMPLE RESULTS

Lab ID: L2345491-02 D2
 Client ID: GW-2R
 Sample Location: QUEENS, NY

Date Collected: 08/07/23 11:00
 Date Received: 08/07/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 08/15/23 21:12
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|--------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Tetrachloroethene | 650 | | ug/l | 5.0 | 1.8 | 10 |
| Surrogate | | | | | | |
| 1,2-Dichloroethane-d4 | | 97 | | | 70-130 | |
| Toluene-d8 | | 100 | | | 70-130 | |
| 4-Bromofluorobenzene | | 102 | | | 70-130 | |
| Dibromofluoromethane | | 99 | | | 70-130 | |

Project Name: BRIDGE CLEANERS

Lab Number: L2345491

Project Number: BRIDGE CLEANERS

Report Date: 08/22/23

SAMPLE RESULTS

| | | | | |
|------------------|-------------|---|-----------------|----------------|
| Lab ID: | L2345491-02 | D | Date Collected: | 08/07/23 11:00 |
| Client ID: | GW-2R | | Date Received: | 08/07/23 |
| Sample Location: | QUEENS, NY | | Field Prep: | Not Specified |

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 08/12/23 03:54

Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1-Dichloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Chloroform | ND | | ug/l | 5.0 | 1.4 | 2 |
| Carbon tetrachloride | ND | | ug/l | 1.0 | 0.27 | 2 |
| 1,2-Dichloropropane | ND | | ug/l | 2.0 | 0.27 | 2 |
| Dibromochloromethane | ND | | ug/l | 1.0 | 0.30 | 2 |
| 1,1,2-Trichloroethane | ND | | ug/l | 3.0 | 1.0 | 2 |
| Tetrachloroethene | 720 | E | ug/l | 1.0 | 0.36 | 2 |
| Chlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Trichlorofluoromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | 0.26 | 2 |
| 1,1,1-Trichloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromodichloromethane | ND | | ug/l | 1.0 | 0.38 | 2 |
| trans-1,3-Dichloropropene | ND | | ug/l | 1.0 | 0.33 | 2 |
| cis-1,3-Dichloropropene | ND | | ug/l | 1.0 | 0.29 | 2 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 1.0 | 0.29 | 2 |
| 1,1-Dichloropropene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromoform | ND | | ug/l | 4.0 | 1.3 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.0 | 0.33 | 2 |
| Benzene | ND | | ug/l | 1.0 | 0.32 | 2 |
| Toluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Ethylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Chloromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromomethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Vinyl chloride | 0.15 | J | ug/l | 2.0 | 0.14 | 2 |
| Chloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1-Dichloroethene | ND | | ug/l | 1.0 | 0.34 | 2 |
| trans-1,2-Dichloroethene | ND | | ug/l | 5.0 | 1.4 | 2 |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

SAMPLE RESULTS

| | | | | |
|------------------|-------------|---|-----------------|----------------|
| Lab ID: | L2345491-02 | D | Date Collected: | 08/07/23 11:00 |
| Client ID: | GW-2R | | Date Received: | 08/07/23 |
| Sample Location: | QUEENS, NY | | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 49 | | ug/l | 1.0 | 0.35 | 2 |
| 1,2-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,3-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,4-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Methyl tert butyl ether | ND | | ug/l | 5.0 | 1.4 | 2 |
| p/m-Xylene | ND | | ug/l | 5.0 | 1.4 | 2 |
| o-Xylene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Xylenes, Total | ND | | ug/l | 5.0 | 1.4 | 2 |
| cis-1,2-Dichloroethene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 5.0 | 1.4 | 2 |
| Dibromomethane | ND | | ug/l | 10 | 2.0 | 2 |
| 1,2,3-Trichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Acrylonitrile | ND | | ug/l | 10 | 3.0 | 2 |
| Styrene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Dichlorodifluoromethane | ND | | ug/l | 10 | 2.0 | 2 |
| Acetone | ND | | ug/l | 10 | 2.9 | 2 |
| Carbon disulfide | ND | | ug/l | 10 | 2.0 | 2 |
| 2-Butanone | ND | | ug/l | 10 | 3.9 | 2 |
| Vinyl acetate | ND | | ug/l | 10 | 2.0 | 2 |
| 4-Methyl-2-pentanone | ND | | ug/l | 10 | 2.0 | 2 |
| 2-Hexanone | ND | | ug/l | 10 | 2.0 | 2 |
| Bromochloromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 2,2-Dichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dibromoethane | ND | | ug/l | 4.0 | 1.3 | 2 |
| 1,3-Dichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| n-Butylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| sec-Butylbenzene | 2.7 | J | ug/l | 5.0 | 1.4 | 2 |
| tert-Butylbenzene | 2.8 | J | ug/l | 5.0 | 1.4 | 2 |
| o-Chlorotoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| p-Chlorotoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Hexachlorobutadiene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Isopropylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| p-Isopropyltoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Naphthalene | ND | | ug/l | 5.0 | 1.4 | 2 |



Project Name: BRIDGE CLEANERS

Lab Number: L2345491

Project Number: BRIDGE CLEANERS

Report Date: 08/22/23

SAMPLE RESULTS

| | | | | |
|------------------|-------------|---|-----------------|----------------|
| Lab ID: | L2345491-02 | D | Date Collected: | 08/07/23 11:00 |
| Client ID: | GW-2R | | Date Received: | 08/07/23 |
| Sample Location: | QUEENS, NY | | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,4-Dioxane | ND | | ug/l | 500 | 120 | 2 |
| p-Diethylbenzene | ND | | ug/l | 4.0 | 1.4 | 2 |
| p-Ethyltoluene | ND | | ug/l | 4.0 | 1.4 | 2 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 4.0 | 1.1 | 2 |
| Ethyl ether | ND | | ug/l | 5.0 | 1.4 | 2 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 5.0 | 1.4 | 2 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 94 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 103 | | 70-130 |
| Dibromofluoromethane | 101 | | 70-130 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2345491-03 | Date Collected: | 08/07/23 12:10 |
| Client ID: | GW-5 | Date Received: | 08/07/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/12/23 03:27
Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | 1.0 | J | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 110 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2345491-03 | Date Collected: | 08/07/23 12:10 |
| Client ID: | GW-5 | Date Received: | 08/07/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 2.4 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | 1.0 | J | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | 2.3 | J | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |



Project Name: BRIDGE CLEANERS

Lab Number: L2345491

Project Number: BRIDGE CLEANERS

Report Date: 08/22/23

SAMPLE RESULTS

Lab ID: L2345491-03

Date Collected: 08/07/23 12:10

Client ID: GW-5

Date Received: 08/07/23

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | 2.3 | J | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | 3.5 | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | 6.9 | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | 3.6 | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 94 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 101 | | 70-130 |
| Dibromofluoromethane | 101 | | 70-130 |

Project Name: BRIDGE CLEANERS

Lab Number: L2345491

Project Number: BRIDGE CLEANERS

Report Date: 08/22/23

SAMPLE RESULTS

Lab ID: L2345491-04 D2
 Client ID: DUP
 Sample Location: QUEENS, NY

Date Collected: 08/07/23 00:00
 Date Received: 08/07/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 08/15/23 21:34
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|--------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Tetrachloroethene | 660 | | ug/l | 5.0 | 1.8 | 10 |
| Surrogate | | | | | | |
| 1,2-Dichloroethane-d4 | | 98 | | | 70-130 | |
| Toluene-d8 | | 100 | | | 70-130 | |
| 4-Bromofluorobenzene | | 103 | | | 70-130 | |
| Dibromofluoromethane | | 100 | | | 70-130 | |

Project Name: BRIDGE CLEANERS

Lab Number: L2345491

Project Number: BRIDGE CLEANERS

Report Date: 08/22/23

SAMPLE RESULTS

| | | | | |
|------------------|-------------|---|-----------------|----------------|
| Lab ID: | L2345491-04 | D | Date Collected: | 08/07/23 00:00 |
| Client ID: | DUP | | Date Received: | 08/07/23 |
| Sample Location: | QUEENS, NY | | Field Prep: | Not Specified |

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 08/12/23 03:01

Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1-Dichloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Chloroform | ND | | ug/l | 5.0 | 1.4 | 2 |
| Carbon tetrachloride | ND | | ug/l | 1.0 | 0.27 | 2 |
| 1,2-Dichloropropane | ND | | ug/l | 2.0 | 0.27 | 2 |
| Dibromochloromethane | ND | | ug/l | 1.0 | 0.30 | 2 |
| 1,1,2-Trichloroethane | ND | | ug/l | 3.0 | 1.0 | 2 |
| Tetrachloroethene | 710 | E | ug/l | 1.0 | 0.36 | 2 |
| Chlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Trichlorofluoromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | 0.26 | 2 |
| 1,1,1-Trichloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromodichloromethane | ND | | ug/l | 1.0 | 0.38 | 2 |
| trans-1,3-Dichloropropene | ND | | ug/l | 1.0 | 0.33 | 2 |
| cis-1,3-Dichloropropene | ND | | ug/l | 1.0 | 0.29 | 2 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 1.0 | 0.29 | 2 |
| 1,1-Dichloropropene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromoform | ND | | ug/l | 4.0 | 1.3 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.0 | 0.33 | 2 |
| Benzene | ND | | ug/l | 1.0 | 0.32 | 2 |
| Toluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Ethylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Chloromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromomethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Vinyl chloride | ND | | ug/l | 2.0 | 0.14 | 2 |
| Chloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1-Dichloroethene | ND | | ug/l | 1.0 | 0.34 | 2 |
| trans-1,2-Dichloroethene | ND | | ug/l | 5.0 | 1.4 | 2 |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

SAMPLE RESULTS

| | | | | |
|------------------|-------------|---|-----------------|----------------|
| Lab ID: | L2345491-04 | D | Date Collected: | 08/07/23 00:00 |
| Client ID: | DUP | | Date Received: | 08/07/23 |
| Sample Location: | QUEENS, NY | | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 48 | | ug/l | 1.0 | 0.35 | 2 |
| 1,2-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,3-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,4-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Methyl tert butyl ether | ND | | ug/l | 5.0 | 1.4 | 2 |
| p/m-Xylene | ND | | ug/l | 5.0 | 1.4 | 2 |
| o-Xylene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Xylenes, Total | ND | | ug/l | 5.0 | 1.4 | 2 |
| cis-1,2-Dichloroethene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 5.0 | 1.4 | 2 |
| Dibromomethane | ND | | ug/l | 10 | 2.0 | 2 |
| 1,2,3-Trichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Acrylonitrile | ND | | ug/l | 10 | 3.0 | 2 |
| Styrene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Dichlorodifluoromethane | ND | | ug/l | 10 | 2.0 | 2 |
| Acetone | ND | | ug/l | 10 | 2.9 | 2 |
| Carbon disulfide | ND | | ug/l | 10 | 2.0 | 2 |
| 2-Butanone | ND | | ug/l | 10 | 3.9 | 2 |
| Vinyl acetate | ND | | ug/l | 10 | 2.0 | 2 |
| 4-Methyl-2-pentanone | ND | | ug/l | 10 | 2.0 | 2 |
| 2-Hexanone | ND | | ug/l | 10 | 2.0 | 2 |
| Bromochloromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 2,2-Dichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dibromoethane | ND | | ug/l | 4.0 | 1.3 | 2 |
| 1,3-Dichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| n-Butylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| sec-Butylbenzene | 2.6 | J | ug/l | 5.0 | 1.4 | 2 |
| tert-Butylbenzene | 2.7 | J | ug/l | 5.0 | 1.4 | 2 |
| o-Chlorotoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| p-Chlorotoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Hexachlorobutadiene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Isopropylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| p-Isopropyltoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Naphthalene | ND | | ug/l | 5.0 | 1.4 | 2 |



Project Name: BRIDGE CLEANERS

Lab Number: L2345491

Project Number: BRIDGE CLEANERS

Report Date: 08/22/23

SAMPLE RESULTS

Lab ID: L2345491-04 D
 Client ID: DUP
 Sample Location: QUEENS, NY

Date Collected: 08/07/23 00:00
 Date Received: 08/07/23
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,4-Dioxane | ND | | ug/l | 500 | 120 | 2 |
| p-Diethylbenzene | ND | | ug/l | 4.0 | 1.4 | 2 |
| p-Ethyltoluene | ND | | ug/l | 4.0 | 1.4 | 2 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 4.0 | 1.1 | 2 |
| Ethyl ether | ND | | ug/l | 5.0 | 1.4 | 2 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 5.0 | 1.4 | 2 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 93 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 103 | | 70-130 |
| Dibromofluoromethane | 100 | | 70-130 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2345491-05 | Date Collected: | 08/07/23 13:30 |
| Client ID: | FB | Date Received: | 08/07/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/12/23 02:34
Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1-Dichloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Chloroform | ND | ug/l | 2.5 | 0.70 | 1 | |
| Carbon tetrachloride | ND | ug/l | 0.50 | 0.13 | 1 | |
| 1,2-Dichloropropane | ND | ug/l | 1.0 | 0.14 | 1 | |
| Dibromochloromethane | ND | ug/l | 0.50 | 0.15 | 1 | |
| 1,1,2-Trichloroethane | ND | ug/l | 1.5 | 0.50 | 1 | |
| Tetrachloroethene | ND | ug/l | 0.50 | 0.18 | 1 | |
| Chlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | 0.13 | 1 | |
| 1,1,1-Trichloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromodichloromethane | ND | ug/l | 0.50 | 0.19 | 1 | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.16 | 1 | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.14 | 1 | |
| 1,3-Dichloropropene, Total | ND | ug/l | 0.50 | 0.14 | 1 | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromoform | ND | ug/l | 2.0 | 0.65 | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | 0.17 | 1 | |
| Benzene | ND | ug/l | 0.50 | 0.16 | 1 | |
| Toluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Ethylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Chloromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromomethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Vinyl chloride | ND | ug/l | 1.0 | 0.07 | 1 | |
| Chloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | 0.17 | 1 | |
| trans-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | 1 | |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2345491-05 | Date Collected: | 08/07/23 13:30 |
| Client ID: | FB | Date Received: | 08/07/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.0 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |



Project Name: BRIDGE CLEANERS

Lab Number: L2345491

Project Number: BRIDGE CLEANERS

Report Date: 08/22/23

SAMPLE RESULTS

Lab ID: L2345491-05

Date Collected: 08/07/23 13:30

Client ID: FB

Date Received: 08/07/23

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 93 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 70-130 |
| Dibromofluoromethane | 99 | | 70-130 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2345491-06 | Date Collected: | 08/07/23 00:00 |
| Client ID: | TB | Date Received: | 08/07/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/12/23 02:08
Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1-Dichloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Chloroform | ND | ug/l | 2.5 | 0.70 | 1 | |
| Carbon tetrachloride | ND | ug/l | 0.50 | 0.13 | 1 | |
| 1,2-Dichloropropane | ND | ug/l | 1.0 | 0.14 | 1 | |
| Dibromochloromethane | ND | ug/l | 0.50 | 0.15 | 1 | |
| 1,1,2-Trichloroethane | ND | ug/l | 1.5 | 0.50 | 1 | |
| Tetrachloroethene | ND | ug/l | 0.50 | 0.18 | 1 | |
| Chlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | 0.13 | 1 | |
| 1,1,1-Trichloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromodichloromethane | ND | ug/l | 0.50 | 0.19 | 1 | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.16 | 1 | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.14 | 1 | |
| 1,3-Dichloropropene, Total | ND | ug/l | 0.50 | 0.14 | 1 | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromoform | ND | ug/l | 2.0 | 0.65 | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | 0.17 | 1 | |
| Benzene | ND | ug/l | 0.50 | 0.16 | 1 | |
| Toluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Ethylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Chloromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromomethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Vinyl chloride | ND | ug/l | 1.0 | 0.07 | 1 | |
| Chloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | 0.17 | 1 | |
| trans-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | 1 | |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

SAMPLE RESULTS

| | | | |
|------------------|-------------|-----------------|----------------|
| Lab ID: | L2345491-06 | Date Collected: | 08/07/23 00:00 |
| Client ID: | TB | Date Received: | 08/07/23 |
| Sample Location: | QUEENS, NY | Field Prep: | Not Specified |

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | ND | ug/l | 0.50 | 0.18 | 1 | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Methyl tert butyl ether | ND | ug/l | 2.5 | 0.70 | 1 | |
| p/m-Xylene | ND | ug/l | 2.5 | 0.70 | 1 | |
| o-Xylene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Xylenes, Total | ND | ug/l | 2.5 | 0.70 | 1 | |
| cis-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dichloroethene, Total | ND | ug/l | 2.5 | 0.70 | 1 | |
| Dibromomethane | ND | ug/l | 5.0 | 1.0 | 1 | |
| 1,2,3-Trichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Acrylonitrile | ND | ug/l | 5.0 | 1.5 | 1 | |
| Styrene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | 1.0 | 1 | |
| Acetone | ND | ug/l | 5.0 | 1.5 | 1 | |
| Carbon disulfide | ND | ug/l | 5.0 | 1.0 | 1 | |
| 2-Butanone | ND | ug/l | 5.0 | 1.9 | 1 | |
| Vinyl acetate | ND | ug/l | 5.0 | 1.0 | 1 | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | 1.0 | 1 | |
| 2-Hexanone | ND | ug/l | 5.0 | 1.0 | 1 | |
| Bromochloromethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | 0.65 | 1 | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Bromobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| n-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| sec-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| tert-Butylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| o-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| p-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
| Hexachlorobutadiene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Isopropylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| p-Isopropyltoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Naphthalene | ND | ug/l | 2.5 | 0.70 | 1 | |



Project Name: BRIDGE CLEANERS

Lab Number: L2345491

Project Number: BRIDGE CLEANERS

Report Date: 08/22/23

SAMPLE RESULTS

Lab ID: L2345491-06
 Client ID: TB
 Sample Location: QUEENS, NY

Date Collected: 08/07/23 00:00
 Date Received: 08/07/23
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 92 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 101 | | 70-130 |
| Dibromofluoromethane | 99 | | 70-130 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/11/23 21:17
Analyst: TMS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------------|------|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): | 01-06 | Batch: | WG1816118-5 | | |
| Methylene chloride | ND | ug/l | 2.5 | 0.70 | |
| 1,1-Dichloroethane | ND | ug/l | 2.5 | 0.70 | |
| Chloroform | ND | ug/l | 2.5 | 0.70 | |
| Carbon tetrachloride | ND | ug/l | 0.50 | 0.13 | |
| 1,2-Dichloropropane | ND | ug/l | 1.0 | 0.14 | |
| Dibromochloromethane | ND | ug/l | 0.50 | 0.15 | |
| 1,1,2-Trichloroethane | ND | ug/l | 1.5 | 0.50 | |
| Tetrachloroethene | ND | ug/l | 0.50 | 0.18 | |
| Chlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | 0.13 | |
| 1,1,1-Trichloroethane | ND | ug/l | 2.5 | 0.70 | |
| Bromodichloromethane | ND | ug/l | 0.50 | 0.19 | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.16 | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.14 | |
| 1,3-Dichloropropene, Total | ND | ug/l | 0.50 | 0.14 | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | 0.70 | |
| Bromoform | ND | ug/l | 2.0 | 0.65 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | 0.17 | |
| Benzene | ND | ug/l | 0.50 | 0.16 | |
| Toluene | ND | ug/l | 2.5 | 0.70 | |
| Ethylbenzene | ND | ug/l | 2.5 | 0.70 | |
| Chloromethane | ND | ug/l | 2.5 | 0.70 | |
| Bromomethane | ND | ug/l | 2.5 | 0.70 | |
| Vinyl chloride | ND | ug/l | 1.0 | 0.07 | |
| Chloroethane | ND | ug/l | 2.5 | 0.70 | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | 0.17 | |
| trans-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | |
| Trichloroethene | ND | ug/l | 0.50 | 0.18 | |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/11/23 21:17
Analyst: TMS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------------|------|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): | 01-06 | Batch: | WG1816118-5 | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| Methyl tert butyl ether | ND | ug/l | 2.5 | 0.70 | |
| p/m-Xylene | ND | ug/l | 2.5 | 0.70 | |
| o-Xylene | ND | ug/l | 2.5 | 0.70 | |
| Xylenes, Total | ND | ug/l | 2.5 | 0.70 | |
| cis-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dichloroethene, Total | ND | ug/l | 2.5 | 0.70 | |
| Dibromomethane | ND | ug/l | 5.0 | 1.0 | |
| 1,2,3-Trichloropropane | ND | ug/l | 2.5 | 0.70 | |
| Acrylonitrile | ND | ug/l | 5.0 | 1.5 | |
| Styrene | ND | ug/l | 2.5 | 0.70 | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | 1.0 | |
| Acetone | ND | ug/l | 5.0 | 1.5 | |
| Carbon disulfide | ND | ug/l | 5.0 | 1.0 | |
| 2-Butanone | ND | ug/l | 5.0 | 1.9 | |
| Vinyl acetate | ND | ug/l | 5.0 | 1.0 | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | 1.0 | |
| 2-Hexanone | ND | ug/l | 5.0 | 1.0 | |
| Bromochloromethane | ND | ug/l | 2.5 | 0.70 | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | 0.65 | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | 0.70 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 2.5 | 0.70 | |
| Bromobenzene | ND | ug/l | 2.5 | 0.70 | |
| n-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |
| sec-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |
| tert-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/11/23 21:17
Analyst: TMS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): | 01-06 | Batch: | WG1816118-5 | | |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 92 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| Dibromofluoromethane | 99 | | 70-130 |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/15/23 19:10
Analyst: TMS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------------|------|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): | 02,04 | Batch: | WG1816898-5 | | |
| Methylene chloride | ND | ug/l | 2.5 | 0.70 | |
| 1,1-Dichloroethane | ND | ug/l | 2.5 | 0.70 | |
| Chloroform | ND | ug/l | 2.5 | 0.70 | |
| Carbon tetrachloride | ND | ug/l | 0.50 | 0.13 | |
| 1,2-Dichloropropane | ND | ug/l | 1.0 | 0.14 | |
| Dibromochloromethane | ND | ug/l | 0.50 | 0.15 | |
| 1,1,2-Trichloroethane | ND | ug/l | 1.5 | 0.50 | |
| Tetrachloroethene | ND | ug/l | 0.50 | 0.18 | |
| Chlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | 0.13 | |
| 1,1,1-Trichloroethane | ND | ug/l | 2.5 | 0.70 | |
| Bromodichloromethane | ND | ug/l | 0.50 | 0.19 | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.16 | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | 0.14 | |
| 1,3-Dichloropropene, Total | ND | ug/l | 0.50 | 0.14 | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | 0.70 | |
| Bromoform | ND | ug/l | 2.0 | 0.65 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | 0.17 | |
| Benzene | ND | ug/l | 0.50 | 0.16 | |
| Toluene | ND | ug/l | 2.5 | 0.70 | |
| Ethylbenzene | ND | ug/l | 2.5 | 0.70 | |
| Chloromethane | ND | ug/l | 2.5 | 0.70 | |
| Bromomethane | ND | ug/l | 2.5 | 0.70 | |
| Vinyl chloride | ND | ug/l | 1.0 | 0.07 | |
| Chloroethane | ND | ug/l | 2.5 | 0.70 | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | 0.17 | |
| trans-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | |
| Trichloroethene | ND | ug/l | 0.50 | 0.18 | |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/15/23 19:10
Analyst: TMS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|--------|-------------|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 02,04 | | | Batch: | WG1816898-5 | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| Methyl tert butyl ether | ND | ug/l | 2.5 | 0.70 | |
| p/m-Xylene | ND | ug/l | 2.5 | 0.70 | |
| o-Xylene | ND | ug/l | 2.5 | 0.70 | |
| Xylenes, Total | ND | ug/l | 2.5 | 0.70 | |
| cis-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dichloroethene, Total | ND | ug/l | 2.5 | 0.70 | |
| Dibromomethane | ND | ug/l | 5.0 | 1.0 | |
| 1,2,3-Trichloropropane | ND | ug/l | 2.5 | 0.70 | |
| Acrylonitrile | ND | ug/l | 5.0 | 1.5 | |
| Styrene | ND | ug/l | 2.5 | 0.70 | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | 1.0 | |
| Acetone | ND | ug/l | 5.0 | 1.5 | |
| Carbon disulfide | ND | ug/l | 5.0 | 1.0 | |
| 2-Butanone | ND | ug/l | 5.0 | 1.9 | |
| Vinyl acetate | ND | ug/l | 5.0 | 1.0 | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | 1.0 | |
| 2-Hexanone | ND | ug/l | 5.0 | 1.0 | |
| Bromochloromethane | ND | ug/l | 2.5 | 0.70 | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | 0.65 | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | 0.70 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 2.5 | 0.70 | |
| Bromobenzene | ND | ug/l | 2.5 | 0.70 | |
| n-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |
| sec-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |
| tert-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/15/23 19:10
Analyst: TMS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------------|------|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): | 02,04 | Batch: | WG1816898-5 | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | |
| p-Chlorotoluene | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | 0.70 | |
| Hexachlorobutadiene | ND | ug/l | 2.5 | 0.70 | |
| Isopropylbenzene | ND | ug/l | 2.5 | 0.70 | |
| p-Isopropyltoluene | ND | ug/l | 2.5 | 0.70 | |
| Naphthalene | ND | ug/l | 2.5 | 0.70 | |
| n-Propylbenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,4-Dioxane | ND | ug/l | 250 | 61. | |
| p-Diethylbenzene | ND | ug/l | 2.0 | 0.70 | |
| p-Ethyltoluene | ND | ug/l | 2.0 | 0.70 | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | 0.54 | |
| Ethyl ether | ND | ug/l | 2.5 | 0.70 | |
| trans-1,4-Dichloro-2-butene | ND | ug/l | 2.5 | 0.70 | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 101 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 70-130 |
| Dibromofluoromethane | 102 | | 70-130 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
Analytical Date: 08/18/23 06:56
Analyst: SRO

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-------|-------|
| Dissolved Gases by GC - Mansfield Lab for sample(s): 02 Batch: WG1817385-3 | | | | | |
| Methane | ND | | ug/l | 2.00 | 2.00 |
| Ethene | ND | | ug/l | 0.500 | 0.500 |
| Ethane | ND | | ug/l | 0.500 | 0.500 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1816118-3 WG1816118-4 | | | | | | | | |
| Methylene chloride | 100 | | 97 | | 70-130 | 3 | | 20 |
| 1,1-Dichloroethane | 99 | | 97 | | 70-130 | 2 | | 20 |
| Chloroform | 100 | | 99 | | 70-130 | 1 | | 20 |
| Carbon tetrachloride | 110 | | 110 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | 96 | | 94 | | 70-130 | 2 | | 20 |
| Dibromochloromethane | 89 | | 90 | | 63-130 | 1 | | 20 |
| 1,1,2-Trichloroethane | 89 | | 88 | | 70-130 | 1 | | 20 |
| Tetrachloroethene | 100 | | 98 | | 70-130 | 2 | | 20 |
| Chlorobenzene | 98 | | 97 | | 75-130 | 1 | | 20 |
| Trichlorofluoromethane | 84 | | 82 | | 62-150 | 2 | | 20 |
| 1,2-Dichloroethane | 91 | | 89 | | 70-130 | 2 | | 20 |
| 1,1,1-Trichloroethane | 100 | | 100 | | 67-130 | 0 | | 20 |
| Bromodichloromethane | 98 | | 97 | | 67-130 | 1 | | 20 |
| trans-1,3-Dichloropropene | 91 | | 89 | | 70-130 | 2 | | 20 |
| cis-1,3-Dichloropropene | 100 | | 99 | | 70-130 | 1 | | 20 |
| 1,1-Dichloropropene | 110 | | 100 | | 70-130 | 10 | | 20 |
| Bromoform | 86 | | 85 | | 54-136 | 1 | | 20 |
| 1,1,2,2-Tetrachloroethane | 94 | | 92 | | 67-130 | 2 | | 20 |
| Benzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| Toluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Chloromethane | 91 | | 87 | | 64-130 | 4 | | 20 |
| Bromomethane | 140 | Q | 140 | Q | 39-139 | 0 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1816118-3 WG1816118-4 | | | | | | | | |
| Vinyl chloride | 78 | | 75 | | 55-140 | 4 | | 20 |
| Chloroethane | 67 | | 62 | | 55-138 | 8 | | 20 |
| 1,1-Dichloroethene | 78 | | 76 | | 61-145 | 3 | | 20 |
| trans-1,2-Dichloroethene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Trichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,4-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Methyl tert butyl ether | 95 | | 93 | | 63-130 | 2 | | 20 |
| p/m-Xylene | 105 | | 100 | | 70-130 | 5 | | 20 |
| o-Xylene | 100 | | 100 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Dibromomethane | 98 | | 96 | | 70-130 | 2 | | 20 |
| 1,2,3-Trichloropropane | 84 | | 83 | | 64-130 | 1 | | 20 |
| Acrylonitrile | 86 | | 84 | | 70-130 | 2 | | 20 |
| Styrene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Dichlorodifluoromethane | 95 | | 93 | | 36-147 | 2 | | 20 |
| Acetone | 73 | | 82 | | 58-148 | 12 | | 20 |
| Carbon disulfide | 70 | | 73 | | 51-130 | 4 | | 20 |
| 2-Butanone | 77 | | 78 | | 63-138 | 1 | | 20 |
| Vinyl acetate | 100 | | 97 | | 70-130 | 3 | | 20 |
| 4-Methyl-2-pentanone | 71 | | 75 | | 59-130 | 5 | | 20 |
| 2-Hexanone | 69 | | 71 | | 57-130 | 3 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1816118-3 WG1816118-4 | | | | | | | | |
| Bromochloromethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 2,2-Dichloropropane | 110 | | 100 | | 63-133 | 10 | | 20 |
| 1,2-Dibromoethane | 89 | | 88 | | 70-130 | 1 | | 20 |
| 1,3-Dichloropropane | 90 | | 90 | | 70-130 | 0 | | 20 |
| 1,1,1,2-Tetrachloroethane | 96 | | 95 | | 64-130 | 1 | | 20 |
| Bromobenzene | 99 | | 98 | | 70-130 | 1 | | 20 |
| n-Butylbenzene | 110 | | 110 | | 53-136 | 0 | | 20 |
| sec-Butylbenzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| tert-Butylbenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| o-Chlorotoluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| p-Chlorotoluene | 110 | | 100 | | 70-130 | 10 | | 20 |
| 1,2-Dibromo-3-chloropropane | 80 | | 79 | | 41-144 | 1 | | 20 |
| Hexachlorobutadiene | 100 | | 97 | | 63-130 | 3 | | 20 |
| Isopropylbenzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| p-Isopropyltoluene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Naphthalene | 87 | | 85 | | 70-130 | 2 | | 20 |
| n-Propylbenzene | 110 | | 110 | | 69-130 | 0 | | 20 |
| 1,2,3-Trichlorobenzene | 83 | | 79 | | 70-130 | 5 | | 20 |
| 1,2,4-Trichlorobenzene | 93 | | 89 | | 70-130 | 4 | | 20 |
| 1,3,5-Trimethylbenzene | 100 | | 100 | | 64-130 | 0 | | 20 |
| 1,2,4-Trimethylbenzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| 1,4-Dioxane | 100 | | 90 | | 56-162 | 11 | | 20 |
| p-Diethylbenzene | 110 | | 110 | | 70-130 | 0 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1816118-3 WG1816118-4 | | | | | | | | |
| p-Ethyltoluene | 110 | | 100 | | 70-130 | 10 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| Ethyl ether | 64 | | 63 | | 59-134 | 2 | | 20 |
| trans-1,4-Dichloro-2-butene | 69 | Q | 71 | | 70-130 | 3 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 91 | | 89 | | 70-130 |
| Toluene-d8 | 96 | | 97 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 101 | | 70-130 |
| Dibromofluoromethane | 99 | | 100 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04 Batch: WG1816898-3 WG1816898-4 | | | | | | | | |
| Methylene chloride | 89 | | 92 | | 70-130 | 3 | | 20 |
| 1,1-Dichloroethane | 94 | | 96 | | 70-130 | 2 | | 20 |
| Chloroform | 94 | | 97 | | 70-130 | 3 | | 20 |
| Carbon tetrachloride | 97 | | 98 | | 63-132 | 1 | | 20 |
| 1,2-Dichloropropane | 94 | | 96 | | 70-130 | 2 | | 20 |
| Dibromochloromethane | 89 | | 93 | | 63-130 | 4 | | 20 |
| 1,1,2-Trichloroethane | 92 | | 95 | | 70-130 | 3 | | 20 |
| Tetrachloroethene | 90 | | 93 | | 70-130 | 3 | | 20 |
| Chlorobenzene | 92 | | 94 | | 75-130 | 2 | | 20 |
| Trichlorofluoromethane | 120 | | 120 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 94 | | 96 | | 70-130 | 2 | | 20 |
| 1,1,1-Trichloroethane | 93 | | 95 | | 67-130 | 2 | | 20 |
| Bromodichloromethane | 91 | | 94 | | 67-130 | 3 | | 20 |
| trans-1,3-Dichloropropene | 90 | | 94 | | 70-130 | 4 | | 20 |
| cis-1,3-Dichloropropene | 91 | | 92 | | 70-130 | 1 | | 20 |
| 1,1-Dichloropropene | 92 | | 94 | | 70-130 | 2 | | 20 |
| Bromoform | 88 | | 88 | | 54-136 | 0 | | 20 |
| 1,1,2,2-Tetrachloroethane | 95 | | 95 | | 67-130 | 0 | | 20 |
| Benzene | 94 | | 96 | | 70-130 | 2 | | 20 |
| Toluene | 92 | | 95 | | 70-130 | 3 | | 20 |
| Ethylbenzene | 92 | | 94 | | 70-130 | 2 | | 20 |
| Chloromethane | 99 | | 100 | | 64-130 | 1 | | 20 |
| Bromomethane | 100 | | 100 | | 39-139 | 0 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04 Batch: WG1816898-3 WG1816898-4 | | | | | | | | |
| Vinyl chloride | 110 | | 110 | | 55-140 | 0 | | 20 |
| Chloroethane | 120 | | 120 | | 55-138 | 0 | | 20 |
| 1,1-Dichloroethene | 91 | | 94 | | 61-145 | 3 | | 20 |
| trans-1,2-Dichloroethene | 91 | | 94 | | 70-130 | 3 | | 20 |
| Trichloroethene | 91 | | 92 | | 70-130 | 1 | | 20 |
| 1,2-Dichlorobenzene | 95 | | 95 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | 96 | | 96 | | 70-130 | 0 | | 20 |
| 1,4-Dichlorobenzene | 96 | | 96 | | 70-130 | 0 | | 20 |
| Methyl tert butyl ether | 88 | | 89 | | 63-130 | 1 | | 20 |
| p/m-Xylene | 90 | | 95 | | 70-130 | 5 | | 20 |
| o-Xylene | 90 | | 95 | | 70-130 | 5 | | 20 |
| cis-1,2-Dichloroethene | 92 | | 93 | | 70-130 | 1 | | 20 |
| Dibromomethane | 91 | | 93 | | 70-130 | 2 | | 20 |
| 1,2,3-Trichloropropane | 90 | | 92 | | 64-130 | 2 | | 20 |
| Acrylonitrile | 91 | | 96 | | 70-130 | 5 | | 20 |
| Styrene | 90 | | 95 | | 70-130 | 5 | | 20 |
| Dichlorodifluoromethane | 98 | | 99 | | 36-147 | 1 | | 20 |
| Acetone | 93 | | 100 | | 58-148 | 7 | | 20 |
| Carbon disulfide | 96 | | 98 | | 51-130 | 2 | | 20 |
| 2-Butanone | 91 | | 97 | | 63-138 | 6 | | 20 |
| Vinyl acetate | 100 | | 98 | | 70-130 | 2 | | 20 |
| 4-Methyl-2-pentanone | 81 | | 87 | | 59-130 | 7 | | 20 |
| 2-Hexanone | 80 | | 90 | | 57-130 | 12 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04 Batch: WG1816898-3 WG1816898-4 | | | | | | | | |
| Bromochloromethane | 93 | | 94 | | 70-130 | 1 | | 20 |
| 2,2-Dichloropropane | 95 | | 98 | | 63-133 | 3 | | 20 |
| 1,2-Dibromoethane | 91 | | 95 | | 70-130 | 4 | | 20 |
| 1,3-Dichloropropane | 92 | | 95 | | 70-130 | 3 | | 20 |
| 1,1,1,2-Tetrachloroethane | 93 | | 95 | | 64-130 | 2 | | 20 |
| Bromobenzene | 92 | | 94 | | 70-130 | 2 | | 20 |
| n-Butylbenzene | 99 | | 99 | | 53-136 | 0 | | 20 |
| sec-Butylbenzene | 97 | | 98 | | 70-130 | 1 | | 20 |
| tert-Butylbenzene | 94 | | 94 | | 70-130 | 0 | | 20 |
| o-Chlorotoluene | 110 | | 110 | | 70-130 | 0 | | 20 |
| p-Chlorotoluene | 94 | | 95 | | 70-130 | 1 | | 20 |
| 1,2-Dibromo-3-chloropropane | 83 | | 85 | | 41-144 | 2 | | 20 |
| Hexachlorobutadiene | 89 | | 90 | | 63-130 | 1 | | 20 |
| Isopropylbenzene | 93 | | 94 | | 70-130 | 1 | | 20 |
| p-Isopropyltoluene | 95 | | 94 | | 70-130 | 1 | | 20 |
| Naphthalene | 86 | | 88 | | 70-130 | 2 | | 20 |
| n-Propylbenzene | 96 | | 96 | | 69-130 | 0 | | 20 |
| 1,2,3-Trichlorobenzene | 87 | | 89 | | 70-130 | 2 | | 20 |
| 1,2,4-Trichlorobenzene | 88 | | 90 | | 70-130 | 2 | | 20 |
| 1,3,5-Trimethylbenzene | 94 | | 95 | | 64-130 | 1 | | 20 |
| 1,2,4-Trimethylbenzene | 94 | | 95 | | 70-130 | 1 | | 20 |
| 1,4-Dioxane | 106 | | 110 | | 56-162 | 4 | | 20 |
| p-Diethylbenzene | 96 | | 95 | | 70-130 | 1 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04 Batch: WG1816898-3 WG1816898-4 | | | | | | | | |
| p-Ethyltoluene | 97 | | 97 | | 70-130 | 0 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 91 | | 92 | | 70-130 | 1 | | 20 |
| Ethyl ether | 110 | | 110 | | 59-134 | 0 | | 20 |
| trans-1,4-Dichloro-2-butene | 92 | | 92 | | 70-130 | 0 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 98 | | 99 | | 70-130 |
| Toluene-d8 | 100 | | 100 | | 70-130 |
| 4-Bromofluorobenzene | 96 | | 94 | | 70-130 |
| Dibromofluoromethane | 99 | | 99 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

| Parameter | <i>LCS</i> %Recovery | <i>LCSD</i> %Recovery | <i>RPD</i> | <i>Qual</i> | <i>%Recovery</i> <i>Limits</i> | <i>RPD</i> <i>Limits</i> | <i>Column</i> |
|---|-------------------------|--------------------------|------------|-------------|-----------------------------------|-----------------------------|---------------|
| | <i>Qual</i> | <i>Qual</i> | | | | | |
| Dissolved Gases by GC - Mansfield Lab Associated sample(s): 02 Batch: WG1817385-2 | | | | | | | |
| Methane | 102 | - | - | - | 80-120 | - | 25 A |
| Ethene | 90 | - | - | - | 80-120 | - | 25 A |
| Ethane | 93 | - | - | - | 80-120 | - | 25 A |

Matrix Spike Analysis
Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | MSD Qual | Recovery Limits | RPD RPD | Qual | RPD Limits | Column |
|---|---------------|----------|----------|--------------|------|-----------|---------------|----------|-----------------|---------|------|------------|--------|
| Dissolved Gases by GC - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1817385-5 QC Sample: L2345491-02 Client ID: GW-2R | | | | | | | | | | | | | |
| Methane | ND | 109 | 138 | 126 | Q | - | - | - | 80-120 | - | 25 | A | |
| Ethene | ND | 191 | 211 | 110 | | - | - | - | 80-120 | - | 25 | A | |
| Ethane | ND | 205 | 221 | 108 | | - | - | - | 80-120 | - | 25 | A | |

INORGANICS & MISCELLANEOUS



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

SAMPLE RESULTS

Lab ID: L2345491-02
Client ID: GW-2R
Sample Location: QUEENS, NY

Date Collected: 08/07/23 11:00
Date Received: 08/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Nitrogen, Nitrite | ND | | mg/l | 0.050 | 0.013 | 1 | - | 08/08/23 07:23 | 121,4500NO3-F | KAF |
| Nitrogen, Nitrate | 0.297 | | mg/l | 0.100 | 0.022 | 1 | - | 08/08/23 07:23 | 121,4500NO3-F | KAF |
| Sulfate | 12. | | mg/l | 10 | 1.4 | 1 | 08/22/23 10:30 | 08/22/23 10:30 | 1,9038 | MRW |
| Total Organic Carbon | 2.6 | | mg/l | 1.0 | 0.19 | 2 | - | 08/17/23 10:13 | 1,9060A | DEW |
| Iron, Ferrous | 0.21 | J | mg/l | 0.50 | 0.056 | 1 | - | 08/08/23 09:29 | 121,3500FE-B | OCF |



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

Method Blank Analysis
Batch Quality Control

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|------------------|-------|-------|-------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1812953-1 | | | | | | | | | |
| Nitrogen, Nitrate | ND | mg/l | 0.100 | 0.022 | 1 | - | 08/08/23 02:22 | 121,4500NO3-F | KAF |
| General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1813003-1 | | | | | | | | | |
| Iron, Ferrous | ND | mg/l | 0.50 | 0.056 | 1 | - | 08/08/23 09:28 | 121,3500FE-B | OCF |
| General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1813058-1 | | | | | | | | | |
| Nitrogen, Nitrite | ND | mg/l | 0.050 | 0.013 | 1 | - | 08/08/23 02:19 | 121,4500NO3-F | KAF |
| General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1816798-1 | | | | | | | | | |
| Total Organic Carbon | ND | mg/l | 0.50 | 0.10 | 1 | - | 08/17/23 04:18 | 1,9060A | DEW |
| General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1818603-1 | | | | | | | | | |
| Sulfate | ND | mg/l | 10 | 1.4 | 1 | 08/22/23 10:30 | 08/22/23 10:30 | 1,9038 | MRW |



Lab Control Sample Analysis

Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1812953-2 | | | | | | | | |
| Nitrogen, Nitrate | 95 | - | - | - | 90-110 | - | - | - |
| General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1813003-2 | | | | | | | | |
| Iron, Ferrous | 105 | - | - | - | 90-110 | - | - | - |
| General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1813058-2 | | | | | | | | |
| Nitrogen, Nitrite | 95 | - | - | - | 90-110 | - | - | - |
| General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1816798-2 | | | | | | | | |
| Total Organic Carbon | 95 | - | - | - | 90-110 | - | - | - |
| General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1818603-2 | | | | | | | | |
| Sulfate | 95 | - | - | - | 90-110 | - | - | - |

Matrix Spike Analysis
Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | MSD Qual | MSD Found | MSD %Recovery | MSD Qual | Recovery Limits | RPD Qual | RPD Qual | RPD Limits |
|---|---------------|----------|----------|--------------|----------|-----------|---------------|----------|-----------------|----------|----------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1812953-4 QC Sample: L2345412-01 Client ID: MS Sample | | | | | | | | | | | | |
| Nitrogen, Nitrate | 1.23 | 4 | 5.04 | 95 | - | - | - | - | 83-113 | - | - | 17 |
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1813003-4 QC Sample: L2345491-02 Client ID: GW-2R | | | | | | | | | | | | |
| Iron, Ferrous | 0.21J | 1 | 1.3 | 127 | Q | - | - | - | 80-120 | - | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1813058-4 QC Sample: L2345491-02 Client ID: GW-2R | | | | | | | | | | | | |
| Nitrogen, Nitrite | ND | 4 | 3.81 | 95 | - | - | - | - | 80-120 | - | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1816798-4 QC Sample: L2345570-01 Client ID: MS Sample | | | | | | | | | | | | |
| Total Organic Carbon | 25000 | 64000 | 95000 | 110 | - | - | - | - | 80-120 | - | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1818603-4 QC Sample: L2346929-02 Client ID: MS Sample | | | | | | | | | | | | |
| Sulfate | 5.6J | 20 | 27 | 135 | - | - | - | - | 55-147 | - | - | 14 |

Lab Duplicate Analysis
Batch Quality Control

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1812953-3 QC Sample: L2345412-01 Client ID: DUP Sample | | | | | | |
| Nitrogen, Nitrate | 1.23 | 1.23 | mg/l | 0 | | 17 |
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1813003-3 QC Sample: L2345491-02 Client ID: GW-2R | | | | | | |
| Iron, Ferrous | 0.21J | 0.31J | mg/l | NC | | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1813058-3 QC Sample: L2345491-02 Client ID: GW-2R | | | | | | |
| Nitrogen, Nitrite | ND | ND | mg/l | NC | | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1816798-3 QC Sample: L2345570-01 Client ID: DUP Sample | | | | | | |
| Total Organic Carbon | 25000 | 24000 | mg/l | 4 | | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1818603-3 QC Sample: L2346929-02 Client ID: DUP Sample | | | | | | |
| Sulfate | 5.6J | 5.4J | mg/l | NC | | 14 |

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Serial_No:08222313:49
Lab Number: L2345491
Report Date: 08/22/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

| Cooler | Custody Seal |
|---------------|---------------------|
| A | Absent |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|---|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|---|
| L2345491-01A | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-01B | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-01C | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-02A | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-02B | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-02C | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-02D | Vial H ₂ SO ₄ preserved | A | NA | | 2.5 | Y | Absent | | TOC-9060(28) |
| L2345491-02E | Vial H ₂ SO ₄ preserved | A | NA | | 2.5 | Y | Absent | | TOC-9060(28) |
| L2345491-02F | Vial H ₂ SO ₄ preserved | A | NA | | 2.5 | Y | Absent | | TOC-9060(28) |
| L2345491-02G | 20ml Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | DISSGAS(14) |
| L2345491-02H | 20ml Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | DISSGAS(14) |
| L2345491-02I | Plastic 250ml unpreserved | A | 7 | 7 | 2.5 | Y | Absent | | SO ₄ -9038(28),NO ₃ -4500(2),NO ₂ -4500,NO ₃ (2),FERROUS(1) |
| L2345491-02J | Plastic 250ml Zn Acetate/NaOH preserved | A | >9 | >9 | 2.5 | Y | Absent | | SUB-SULFIDE() |
| L2345491-02K | Plastic 250ml Zn Acetate/NaOH preserved | A | >9 | >9 | 2.5 | Y | Absent | | SUB-SULFIDE() |
| L2345491-03A | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-03B | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-03C | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-04A | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-04B | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-04C | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-05A | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-05B | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-05C | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |

*Values in parentheses indicate holding time in days

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Serial_No:08222313:49
Lab Number: L2345491
Report Date: 08/22/23

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|-----------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L2345491-06A | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |
| L2345491-06B | Vial HCl preserved | A | NA | | 2.5 | Y | Absent | | NYTCL-8260(14) |

*Values in parentheses indicate holding time in days

Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

GLOSSARY

Acronyms

| | |
|----------|---|
| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| | Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

Report Format: DU Report with 'J' Qualifiers



Project Name: BRIDGE CLEANERS
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Lab Number: L2345491
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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: BRIDGE CLEANERS
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Lab Number: L2345491
Report Date: 08/22/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name: BRIDGE CLEANERS
Project Number: BRIDGE CLEANERS

Lab Number: L2345491
Report Date: 08/22/23

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.**

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

|  <p>NEW YORK CHAIN OF CUSTODY</p> <p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p> | | <p>Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p> <p>Page <u>1</u> of <u>1</u></p> | | <p>Date Rec'd in Lab <u>8/7/23</u></p> | | <p>ALPHA Job # <u>L2345491</u></p> | | | | | | | | | | | | | | | |
|---|---------------------------------------|---|------------------|---|--------------------|---|---------------------------------------|-------------------------------------|-------------------------------------|---|---------|-------------------|----|---|---|---|---|---|---|--|--|
| | | | | | | | | | | | | | | | | | | | | | |
| | | <p>Project Information</p> <p>Project Name: <u>BRIDGE CLEANERS</u> Project Location: <u>QUEENS, NY</u> Project #</p> | | <p>Deliverables</p> <p><input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input checked="" type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other</p> | | <p>Billing Information</p> <p><input checked="" type="checkbox"/> Same as Client Info PO #</p> | | | | | | | | | | | | | | | |
| <p>Client Information</p> <p>Client: <u>ECC Horizon</u> Address: <u>1 Emery Ave</u> <u>Randolph, NJ, 07869</u> Phone: <u>518-569-8654</u> Fax: Email: <u>cwg2@quechuarit.com</u></p> | | <p>(Use Project name as Project #) <input checked="" type="checkbox"/></p> | | <p>Regulatory Requirement</p> <p><input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge</p> | | <p>Disposal Site Information</p> <p>Please identify below location of applicable disposal facilities.</p> <p>Disposal Facility:</p> <p><input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other</p> | | | | | | | | | | | | | | | |
| | | <p>Turn-Around Time</p> <p>Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:</p> | | | | | | | | | | | | | | | | | | | |
| <p>These samples have been previously analyzed by Alpha <input type="checkbox"/></p> <p>Other project specific requirements/comments:</p> <p><u>Please ensure max TAT will not exceed 10-Days</u></p> | | | | <p>ANALYSIS</p> <table border="1"> <thead> <tr> <th>VOCs</th> <th>Ozone Gases - Organic Vapors</th> <th>Nitrates, Sulfates, Chlorides</th> <th>Total Sulfide</th> <th>Organic Carbon</th> <th>Sulfide</th> <th>Fluoride Boron</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table> | | VOCs | Ozone Gases - Organic Vapors | Nitrates, Sulfates, Chlorides | Total Sulfide | Organic Carbon | Sulfide | Fluoride Boron | X | X | X | X | X | X | X | <p>Sample Filtration</p> <p><input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do</p> <p>(Please Specify below)</p> | |
| VOCs | Ozone Gases - Organic Vapors | Nitrates, Sulfates, Chlorides | Total Sulfide | Organic Carbon | Sulfide | Fluoride Boron | | | | | | | | | | | | | | | |
| X | X | X | X | X | X | X | | | | | | | | | | | | | | | |
| <p>Please specify Metals or TAL.</p> | | | | | | <p>Sample Specific Comments</p> | | | | | | | | | | | | | | | |
| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials | | | Total Bottom Line | | | | | | | | | | | | | |
| | | Date | Time | | | VOCs | Ozone Gases - Organic Vapors | | Nitrates, Sulfates, Chlorides | Total Sulfide | Sulfide | Fluoride Boron | | | | | | | | | |
| 45491-01 | GW-G | 8/7/23 | 0950 | GW | MH | X | X | X | X | X | X | X | 3 | | | | | | | | |
| -02 | GW-ZR | | 1100 | | | X | X | X | X | X | X | | 11 | | | | | | | | |
| -03 | GW-S | | 1210 | | | X | | | | | | | 3 | | | | | | | | |
| -04 | DUP | | - | | | X | | | | | | | 3 | | | | | | | | |
| -05 | FB | | 1330 | AQ | | X | | | | | | | 3 | | | | | | | | |
| -06 | TB | | - | | | X | | | | | | | 2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| <p>Preservative Code: A = None B = HCl C = HNO₃ D = H₂SO₄ E = NaOH F = MeOH G = NaHSO₄ H = Na₂S₂O₃ K/E = Zn Ac/NaOH O = Other </p> | | <p>Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle </p> | | <p>Westboro: Certification No: MA935 Mansfield: Certification No: MA015</p> | | <p>Container Type</p> <p>B V P V P P</p> | | | | <p>Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.</p> | | | | | | | | | | | |
| | | | | <p>Preservative</p> <p>K/E A</p> | | | | | | | | | | | | | | | | | |
| <p>Relinquished By:</p> <p><u>Paul Maggella</u></p> | | <p>Date/Time</p> <p><u>8/7/23</u></p> | | <p>Received By:</p> <p><u>Paul Maggella</u></p> | | <p>Date/Time</p> <p><u>8/7/23 1500</u></p> | | | | | | | | | | | | | | | |
| <p><u>Paul Maggella</u></p> | | <p><u>8/7/23 1500</u></p> | | <p><u>Paul Maggella</u></p> | | <p><u>8/7/23 1600</u></p> | | | | | | | | | | | | | | | |
| <p><u>Chris Allain</u></p> | | <p><u>8/7/23 2225</u></p> | | <p><u>Chris Allain</u></p> | | <p><u>8/7/23 2020</u></p> | | | | | | | | | | | | | | | |
| <p>Relinquished By:</p> <p><u>Paul Maggella</u></p> | | <p>Date/Time</p> <p><u>8/7/23</u></p> | | <p>Received By:</p> <p><u>Paul Maggella</u></p> | | <p>Date/Time</p> <p><u>8/7/23 2225</u></p> | | | | | | | | | | | | | | | |



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Cynthia Romero
Alpha Analytical Inc
8 Walkup Drive
Westborough, Massachusetts 01581

Generated 8/15/2023 1:11:38 PM

JOB DESCRIPTION

L2345491

JOB NUMBER

460-285793-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

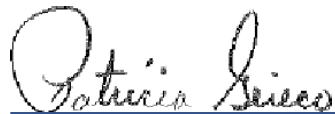
Eurofins Edison

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
8/15/2023 1:11:38 PM

Authorized for release by
Patricia Grieco, Senior Project Manager
Patricia.Grieco@et.eurofinsus.com
Designee for
Kristyn Tempe, Manager of Project Management
Kristyn.Tempe@et.eurofinsus.com
(732)549-3900

Table of Contents

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Definitions/Glossary

Client: Alpha Analytical Inc
Project/Site: L2345491

Job ID: 460-285793-1

Qualifiers

General Chemistry

| Qualifier | Qualifier Description |
|-----------|--|
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: Alpha Analytical Inc
 Project/Site: L2345491

Job ID: 460-285793-1

Job ID: 460-285793-1**Laboratory: Eurofins Edison****Narrative****CASE NARRATIVE****Client: Alpha Analytical Inc****Project: L2345491****Report Number: 460-285793-1**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/09/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

SULFIDE

Sample GW-2R (460-285793-1) was analyzed for sulfide in accordance with SM 4500 S2 F. The samples were analyzed on 08/14/2023.

No difficulties were encountered during the sulfide analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: Alpha Analytical Inc
Project/Site: L2345491

Job ID: 460-285793-1

Client Sample ID: GW-2R**Lab Sample ID: 460-285793-1**

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample Results

Client: Alpha Analytical Inc
 Project/Site: L2345491

Job ID: 460-285793-1

Client Sample ID: GW-2R
 Date Collected: 08/07/23 11:00
 Date Received: 08/09/23 10:30

Lab Sample ID: 460-285793-1
 Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Sulfide (SM 4500 S2 F-2011) | 0.85 | U | 1.0 | 0.85 | mg/L | | | 08/14/23 16:15 | 1 |

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Eurofins Edison

QC Sample Results

Client: Alpha Analytical Inc
Project/Site: L2345491

Job ID: 460-285793-1

Method: 4500 S2 F-2011 - Sulfide, Total**Lab Sample ID: MB 460-926485/1****Matrix: Water****Analysis Batch: 926485****Client Sample ID: Method Blank**
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| Sulfide | 0.85 | U | 1.0 | 0.85 | mg/L | | | 08/14/23 16:15 | 1 |

Lab Sample ID: LCSSRM 460-926485/3**Matrix: Water****Analysis Batch: 926485****Client Sample ID: Lab Control Sample**
Prep Type: Total/NA

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | Limits |
|---------|----------------|------------------|---------------------|------|------|-------------|--------|
| Sulfide | 5.07 | 4.24 | | mg/L | 83.6 | 41.2 - 146. | 9 |

Lab Sample ID: MRL 460-926485/4**Matrix: Water****Analysis Batch: 926485****Client Sample ID: Lab Control Sample**
Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | Limits |
|---------|----------------|---------------|------------------|------|----|----------|--------|
| Sulfide | 1.20 | 1.04 | | mg/L | 87 | 50 - 150 | |

Lab Sample ID: 460-285853-K-2 MS**Matrix: Water****Analysis Batch: 926485****Client Sample ID: Matrix Spike**
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|------|-----|----------|--------|
| Sulfide | 0.85 | U | 5.84 | 5.84 | | mg/L | 100 | 60 - 107 | |

Lab Sample ID: 460-285853-K-2 MSD**Matrix: Water****Analysis Batch: 926485****Client Sample ID: Matrix Spike Duplicate**
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|---------|------------------|---------------------|----------------|---------------|------------------|------|-----|----------|--------|-----|-----------|
| Sulfide | 0.85 | U | 5.84 | 5.84 | | mg/L | 100 | 60 - 107 | 0 | 18 | |

QC Association Summary

Client: Alpha Analytical Inc
Project/Site: L2345491

Job ID: 460-285793-1

General Chemistry**Analysis Batch: 926485**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------------|------------|
| 460-285793-1 | GW-2R | Total/NA | Water | 4500 S2 F-2011 | |
| MB 460-926485/1 | Method Blank | Total/NA | Water | 4500 S2 F-2011 | 5 |
| LCSSRM 460-926485/3 | Lab Control Sample | Total/NA | Water | 4500 S2 F-2011 | 6 |
| MRL 460-926485/4 | Lab Control Sample | Total/NA | Water | 4500 S2 F-2011 | 6 |
| 460-285853-K-2 MS | Matrix Spike | Total/NA | Water | 4500 S2 F-2011 | 7 |
| 460-285853-K-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 4500 S2 F-2011 | 7 |

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Eurofins Edison

Lab Chronicle

Client: Alpha Analytical Inc
 Project/Site: L2345491

Job ID: 460-285793-1

Client Sample ID: GW-2R**Lab Sample ID: 460-285793-1**

Date Collected: 08/07/23 11:00

Matrix: Water

Date Received: 08/09/23 10:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 4500 S2 F-2011 | | 1 | 926485 | HTV | EET EDI | 08/14/23 16:15 |

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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Eurofins Edison

Accreditation/Certification Summary

Client: Alpha Analytical Inc
Project/Site: L2345491

Job ID: 460-285793-1

Laboratory: Eurofins Edison

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

| Authority | Program | Identification Number | Expiration Date |
|------------|---------|-----------------------|-----------------|
| New Jersey | NELAP | 12028 | 06-30-24 |

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Eurofins Edison

Method Summary

Client: Alpha Analytical Inc
Project/Site: L2345491

Job ID: 460-285793-1

| Method | Method Description | Protocol | Laboratory |
|----------------|--------------------|----------|------------|
| 4500 S2 F-2011 | Sulfide, Total | SM | EET EDI |

Protocol References:

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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Eurofins Edison

Sample Summary

Client: Alpha Analytical Inc
Project/Site: L2345491

Job ID: 460-285793-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 460-285793-1 | GW-2R | Water | 08/07/23 11:00 | 08/09/23 10:30 |

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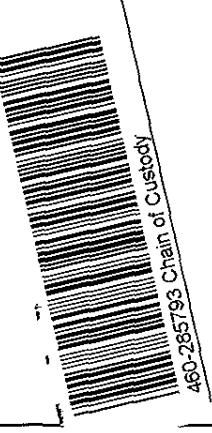
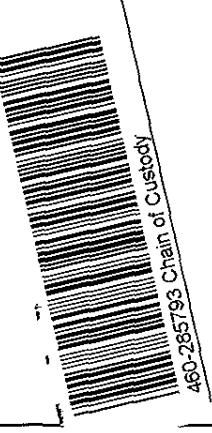
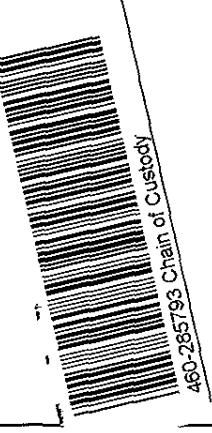
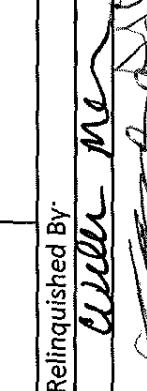
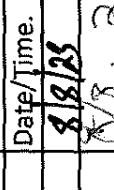
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Subcontract Chain of Custody

|  <p>ALPHA ANALYTICAL <small>World Class Chemistry</small></p> | | Alpha Job Number <div style="border: 1px solid black; padding: 2px; display: inline-block;">285793</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">L2345491</div> | | | | | | | | | | | | | | | | | | | |
|--|-----------|--|---|----------|-----------|----------------------|---------------|----------|----------|--|-------|----------------|-------|---------|--|--|--|--|--|--|--|
| Client Information <p>Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 201 812 9072 Email: cromero@alphalab.com</p> | | Project Information <p>Project Location NY Project Manager Cynthia Romero Turnaround & Deliverables Information Due Date: Deliverables.</p> | | | | | | | | | | | | | | | | | | | |
| | | Regulatory Requirements/Report Limits <p>State/Federal Program Regulatory Criteria</p> | | | | | | | | | | | | | | | | | | | |
| | | Project Specific Requirements and/or Report Requirements <p>Reference following Alpha Job Number on final report/deliverables. L2345491 Additional Comments. Send all results/reports to subreports@alphalab.com</p> | | | | | | | | | | | | | | | | | | | |
| | | <p>Report to include Method Blank LCS/LCSD</p> | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Client ID</th> <th>Collection Date/Time</th> <th>Sample Matrix</th> <th>Analysis</th> <th>Batch QC</th> </tr> </thead> <tbody> <tr> <td></td> <td>GW-2R</td> <td>08-07-23 11:00</td> <td>WATER</td> <td>Sulfide</td> <td></td> </tr> <tr> <td colspan="5" style="text-align: right; vertical-align: bottom;">  480-285793 Chain of Custody </td> <td></td> </tr> </tbody> </table> | | | | Lab ID | Client ID | Collection Date/Time | Sample Matrix | Analysis | Batch QC | | GW-2R | 08-07-23 11:00 | WATER | Sulfide | |  480-285793 Chain of Custody | | | | | |
| Lab ID | Client ID | Collection Date/Time | Sample Matrix | Analysis | Batch QC | | | | | | | | | | | | | | | | |
| | GW-2R | 08-07-23 11:00 | WATER | Sulfide | | | | | | | | | | | | | | | | | |
|  480-285793 Chain of Custody | | | | | | | | | | | | | | | | | | | | | |
| | | Relinquished By: <div style="display: flex; justify-content: space-between;"> <div style="flex: 1; text-align: center;">  </div> <div style="flex: 1; text-align: center;">  </div> </div> | | | | | | | | | | | | | | | | | | | |
| | | Date/Time: | Received By: | | | | | | | | | | | | | | | | | | |
| | | 8/18 17:30 |  | | | | | | | | | | | | | | | | | | |
| | | 8/18 22:00 |  | | | | | | | | | | | | | | | | | | |
| | | 8/19 08:00 |  | | | | | | | | | | | | | | | | | | |
| | | 8/19 11:23 |  | | | | | | | | | | | | | | | | | | |
| Form No AL_subcoc | | | | | | | | | | | | | | | | | | | | | |

**Eurofins TestAmerica Edison
Receipt Temperature and pH Log**

26793

Nunqar Jérôme

Number of Coolers:

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Cooler Temperatures

| Cooler Temperatures | | Day | | Corrected | |
|---------------------|--------|------------|--------|------------|--------|
| | | Raw | | Corrected | |
| Cooler #1: | 11.2°C | Cooler #4: | 11.2°C | Cooler #7: | 11.2°C |
| Cooler #2: | 11.2°C | Cooler #5: | 11.2°C | Cooler #8: | 11.2°C |
| Cooler #3: | 11.2°C | Cooler #6: | 11.2°C | Cooler #9: | 11.2°C |

If pH adjustments are required record the information below

Sample No(s). adjusted.

Volume of Preservative used (ml)

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The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

Expiration Date: _____
The appropriate Project Manager and Department Manager should be notified about the samples which were not adjusted.

Consequently, the time interval between the onset of anaesthesia and the administration of the first analgesic must be anticipated at least 24 hours prior to anaesthesia.

BIG 5-8

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EDS-WI-038 Rev 4.1
10/22/2010

Login Sample Receipt Checklist

Client: Alpha Analytical Inc

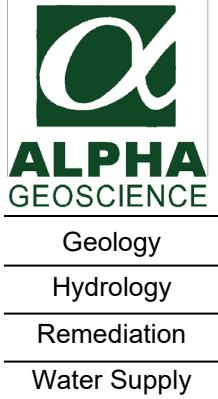
Job Number: 460-285793-1

Login Number: 285793**List Source: Eurofins Edison****List Number: 1****Creator: Rivera, Kenneth**

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Appendix D

Data Usability Summary Reports - Groundwater Sampling



June 23, 2023

Mr. Nick Carlo
Project Manager
ECC Horizon
NY/NJ Metro Regional Office
One Emery Avenue, Unit 2
Randolph, New Jersey 07869

Re: Data Usability Summary Reports
Bridge Cleaners, NY
April 2023 Ground Water Sampling Event

Dear Mr. Carlo:

The data usability summary report (DUSR) and supporting documentation for April 2023 ground water sampling event are attached to this letter for the Bridge Cleaners site. The data for Alpha Analytical SDG number L2318419 are acceptable, with some minor issues that are identified in the DUSR and validation summary. There are no data that were either rejected, unusable (R) or estimated in data pack.

A list of data validation acronyms and qualifiers is attached to assist you in interpreting the data validation reviews. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist ECC Horizon.

Sincerely,
Alpha Geoscience

A handwritten signature in black ink, appearing to read "Donald Anné".

Donald Anné
Senior Chemist

DCA/bms
Via email

z:\projects\2023\23600-23620\23607-bridge cleaners\task 1 dusr\temp-review\bridge cleaners-233.ltr.docx



ALPHA
GEOSCIENCE

Geology

Hydrology

Remediation

Water Supply

**Data Usability Summary Report for
for Alpha Analytical, SDG Number: L2318419**

**5 Ground Water Samples, 1 Field Duplicate,
1 Rinse Blank, and 1 Trip Blank
Collected April 5-6, 2023**

Prepared by: Donald Anné
June 23, 2023

The data package contains the documentation as required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appears legible and complete. The data pack contains the results of volatile analyses for 5 ground water sample, 1 field duplicate, 1 field blank, and 1 trip blank.

The overall performances of the analyses are acceptable. Alpha Analytical labs did fulfill the requirements of the analytical method.

The data are acceptable with some minor issues that are identified in the accompanying data validation reviews. There were no data qualified as either estimated or rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation review.

Qualified Data Section

(No Data Qualified)

Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-01 | Date Collected | : 04/06/23 08:45 |
| Client ID | : GW-1R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/13/23 00:33 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V08230412N21 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|------------|----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 24 | 0.50 | 0.18 | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 542-75-6 | 1,3-Dichloropropene, Total | ND | 0.50 | 0.14 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.5 | 0.70 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-01 | Date Collected | : 04/06/23 08:45 |
| Client ID | : GW-1R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/13/23 00:33 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V08230412N21 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|-------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | 0.82 | 0.50 | 0.18 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 1330-20-7 | Xylenes, Total | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 540-59-0 | 1,2-Dichloroethene, Total | ND | 2.5 | 0.70 | U |
| 74-95-3 | Dibromomethane | ND | 5.0 | 1.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.5 | 0.70 | U |
| 107-13-1 | Acrylonitrile | ND | 5.0 | 1.5 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-05-4 | Vinyl acetate | ND | 5.0 | 1.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-01 | Date Collected | : 04/06/23 08:45 |
| Client ID | : GW-1R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/13/23 00:33 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V08230412N21 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.5 | 0.70 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.5 | 0.70 | U |
| 108-86-1 | Bromobenzene | ND | 2.5 | 0.70 | U |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 | 0.70 | U |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U |
| 95-49-8 | o-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 106-43-4 | p-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U |
| 103-65-1 | n-Propylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |
| 105-05-5 | p-Diethylbenzene | ND | 2.0 | 0.70 | U |
| 622-96-8 | p-Ethyltoluene | ND | 2.0 | 0.70 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | ND | 2.0 | 0.54 | U |
| 60-29-7 | Ethyl ether | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-01 | Date Collected | : 04/06/23 08:45 |
| Client ID | : GW-1R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/13/23 00:33 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V08230412N21 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-02 | Date Collected | : 04/06/23 10:40 |
| Client ID | : GW-6 | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 11:57 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A15 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|------------|----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | 1.0 | 2.5 | 0.70 | J |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 7.9 | 0.50 | 0.18 | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 542-75-6 | 1,3-Dichloropropene, Total | ND | 0.50 | 0.14 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.5 | 0.70 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-02 | Date Collected | : 04/06/23 10:40 |
| Client ID | : GW-6 | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 11:57 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A15 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|-------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | 0.64 | 0.50 | 0.18 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 1330-20-7 | Xylenes, Total | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 540-59-0 | 1,2-Dichloroethene, Total | ND | 2.5 | 0.70 | U |
| 74-95-3 | Dibromomethane | ND | 5.0 | 1.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.5 | 0.70 | U |
| 107-13-1 | Acrylonitrile | ND | 5.0 | 1.5 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-05-4 | Vinyl acetate | ND | 5.0 | 1.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-02 | Date Collected | : 04/06/23 10:40 |
| Client ID | : GW-6 | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 11:57 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A15 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.5 | 0.70 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.5 | 0.70 | U |
| 108-86-1 | Bromobenzene | ND | 2.5 | 0.70 | U |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 | 0.70 | U |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U |
| 95-49-8 | o-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 106-43-4 | p-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U |
| 103-65-1 | n-Propylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |
| 105-05-5 | p-Diethylbenzene | ND | 2.0 | 0.70 | U |
| 622-96-8 | p-Ethyltoluene | ND | 2.0 | 0.70 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | ND | 2.0 | 0.54 | U |
| 60-29-7 | Ethyl ether | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-02 | Date Collected | : 04/06/23 10:40 |
| Client ID | : GW-6 | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 11:57 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A15 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-03D | Date Collected | : 04/06/23 11:35 |
| Client ID | : GW-2R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 12:18 |
| Sample Matrix | : WATER | Dilution Factor | : 4 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A16 | Instrument ID | : VOA108 |
| Sample Amount | : 2.5 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|------------|----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 10 | 2.8 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 10 | 2.8 | U |
| 67-66-3 | Chloroform | ND | 10 | 2.8 | U |
| 56-23-5 | Carbon tetrachloride | ND | 2.0 | 0.54 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 4.0 | 0.55 | U |
| 124-48-1 | Dibromochloromethane | ND | 2.0 | 0.60 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.0 | 2.0 | U |
| 127-18-4 | Tetrachloroethene | 380 | 2.0 | 0.72 | |
| 108-90-7 | Chlorobenzene | ND | 10 | 2.8 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 10 | 2.8 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.0 | 0.53 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10 | 2.8 | U |
| 75-27-4 | Bromodichloromethane | ND | 2.0 | 0.77 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.0 | 0.66 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.0 | 0.58 | U |
| 542-75-6 | 1,3-Dichloropropene, Total | ND | 2.0 | 0.58 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 10 | 2.8 | U |
| 75-25-2 | Bromoform | ND | 8.0 | 2.6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | 0.67 | U |
| 71-43-2 | Benzene | ND | 2.0 | 0.64 | U |
| 108-88-3 | Toluene | ND | 10 | 2.8 | U |
| 100-41-4 | Ethylbenzene | ND | 10 | 2.8 | U |
| 74-87-3 | Chloromethane | ND | 10 | 2.8 | U |
| 74-83-9 | Bromomethane | ND | 10 | 2.8 | U |
| 75-01-4 | Vinyl chloride | ND | 4.0 | 0.28 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-03D | Date Collected | : 04/06/23 11:35 |
| Client ID | : GW-2R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 12:18 |
| Sample Matrix | : WATER | Dilution Factor | : 4 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A16 | Instrument ID | : VOA108 |
| Sample Amount | : 2.5 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|-------------|---------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-00-3 | Chloroethane | ND | 10 | 2.8 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.0 | 0.68 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 10 | 2.8 | U |
| 79-01-6 | Trichloroethene | 25 | 2.0 | 0.70 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10 | 2.8 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10 | 2.8 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10 | 2.8 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 10 | 2.8 | U |
| 179601-23-1 | p/m-Xylene | ND | 10 | 2.8 | U |
| 95-47-6 | o-Xylene | ND | 10 | 2.8 | U |
| 1330-20-7 | Xylenes, Total | ND | 10 | 2.8 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 10 | 2.8 | U |
| 540-59-0 | 1,2-Dichloroethene, Total | ND | 10 | 2.8 | U |
| 74-95-3 | Dibromomethane | ND | 20 | 4.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 10 | 2.8 | U |
| 107-13-1 | Acrylonitrile | ND | 20 | 6.0 | U |
| 100-42-5 | Styrene | ND | 10 | 2.8 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 20 | 4.0 | U |
| 67-64-1 | Acetone | ND | 20 | 5.8 | U |
| 75-15-0 | Carbon disulfide | ND | 20 | 4.0 | U |
| 78-93-3 | 2-Butanone | ND | 20 | 7.8 | U |
| 108-05-4 | Vinyl acetate | ND | 20 | 4.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 20 | 4.0 | U |
| 591-78-6 | 2-Hexanone | ND | 20 | 4.0 | U |
| 74-97-5 | Bromochloromethane | ND | 10 | 2.8 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-03D | Date Collected | : 04/06/23 11:35 |
| Client ID | : GW-2R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 12:18 |
| Sample Matrix | : WATER | Dilution Factor | : 4 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A16 | Instrument ID | : VOA108 |
| Sample Amount | : 2.5 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|----------|-----------------------------|---------|------|-----|-----------|
| | | Results | RL | MDL | Qualifier |
| 594-20-7 | 2,2-Dichloropropane | ND | 10 | 2.8 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 8.0 | 2.6 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 10 | 2.8 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 10 | 2.8 | U |
| 108-86-1 | Bromobenzene | ND | 10 | 2.8 | U |
| 104-51-8 | n-Butylbenzene | ND | 10 | 2.8 | U |
| 135-98-8 | sec-Butylbenzene | ND | 10 | 2.8 | U |
| 98-06-6 | tert-Butylbenzene | ND | 10 | 2.8 | U |
| 95-49-8 | o-Chlorotoluene | ND | 10 | 2.8 | U |
| 106-43-4 | p-Chlorotoluene | ND | 10 | 2.8 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 2.8 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 10 | 2.8 | U |
| 98-82-8 | Isopropylbenzene | ND | 10 | 2.8 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 10 | 2.8 | U |
| 91-20-3 | Naphthalene | ND | 10 | 2.8 | U |
| 103-65-1 | n-Propylbenzene | ND | 10 | 2.8 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 10 | 2.8 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10 | 2.8 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10 | 2.8 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10 | 2.8 | U |
| 123-91-1 | 1,4-Dioxane | ND | 1000 | 240 | U |
| 105-05-5 | p-Diethylbenzene | ND | 8.0 | 2.8 | U |
| 622-96-8 | p-Ethyltoluene | ND | 8.0 | 2.8 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | ND | 8.0 | 2.2 | U |
| 60-29-7 | Ethyl ether | ND | 10 | 2.8 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-03D | Date Collected | : 04/06/23 11:35 |
| Client ID | : GW-2R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 12:18 |
| Sample Matrix | : WATER | Dilution Factor | : 4 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A16 | Instrument ID | : VOA108 |
| Sample Amount | : 2.5 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|-----------------------------|---------|----|-----|-----------|
| | | Results | RL | MDL | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 10 | 2.8 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-04 | Date Collected | : 04/06/23 09:45 |
| Client ID | : GW-3R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 12:39 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A17 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|------------|----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 22 | 0.50 | 0.18 | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 542-75-6 | 1,3-Dichloropropene, Total | ND | 0.50 | 0.14 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.5 | 0.70 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-04 | Date Collected | : 04/06/23 09:45 |
| Client ID | : GW-3R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 12:39 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A17 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|-------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | 0.34 | 0.50 | 0.18 | J |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 1330-20-7 | Xylenes, Total | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 540-59-0 | 1,2-Dichloroethene, Total | ND | 2.5 | 0.70 | U |
| 74-95-3 | Dibromomethane | ND | 5.0 | 1.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.5 | 0.70 | U |
| 107-13-1 | Acrylonitrile | ND | 5.0 | 1.5 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-05-4 | Vinyl acetate | ND | 5.0 | 1.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-04 | Date Collected | : 04/06/23 09:45 |
| Client ID | : GW-3R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 12:39 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A17 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.5 | 0.70 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.5 | 0.70 | U |
| 108-86-1 | Bromobenzene | ND | 2.5 | 0.70 | U |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 | 0.70 | U |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U |
| 95-49-8 | o-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 106-43-4 | p-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U |
| 103-65-1 | n-Propylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |
| 105-05-5 | p-Diethylbenzene | ND | 2.0 | 0.70 | U |
| 622-96-8 | p-Ethyltoluene | ND | 2.0 | 0.70 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | ND | 2.0 | 0.54 | U |
| 60-29-7 | Ethyl ether | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-04 | Date Collected | : 04/06/23 09:45 |
| Client ID | : GW-3R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 12:39 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A17 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-05 | Date Collected | : 04/06/23 12:35 |
| Client ID | : GW-5R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 13:00 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A18 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|------------|----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | 0.78 | 2.5 | 0.70 | J |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 66 | 0.50 | 0.18 | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 542-75-6 | 1,3-Dichloropropene, Total | ND | 0.50 | 0.14 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.5 | 0.70 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-05 | Date Collected | : 04/06/23 12:35 |
| Client ID | : GW-5R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 13:00 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A18 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|-------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | 1.7 | 0.50 | 0.18 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 1330-20-7 | Xylenes, Total | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 540-59-0 | 1,2-Dichloroethene, Total | ND | 2.5 | 0.70 | U |
| 74-95-3 | Dibromomethane | ND | 5.0 | 1.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.5 | 0.70 | U |
| 107-13-1 | Acrylonitrile | ND | 5.0 | 1.5 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-05-4 | Vinyl acetate | ND | 5.0 | 1.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-05 | Date Collected | : 04/06/23 12:35 |
| Client ID | : GW-5R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 13:00 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A18 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.5 | 0.70 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.5 | 0.70 | U |
| 108-86-1 | Bromobenzene | ND | 2.5 | 0.70 | U |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 | 0.70 | U |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U |
| 95-49-8 | o-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 106-43-4 | p-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | 1.4 | 2.5 | 0.70 | J |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U |
| 103-65-1 | n-Propylbenzene | 1.3 | 2.5 | 0.70 | J |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2.0 | 2.5 | 0.70 | J |
| 95-63-6 | 1,2,4-Trimethylbenzene | 3.8 | 2.5 | 0.70 | |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |
| 105-05-5 | p-Diethylbenzene | ND | 2.0 | 0.70 | U |
| 622-96-8 | p-Ethyltoluene | 2.2 | 2.0 | 0.70 | |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | ND | 2.0 | 0.54 | U |
| 60-29-7 | Ethyl ether | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-05 | Date Collected | : 04/06/23 12:35 |
| Client ID | : GW-5R | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 13:00 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A18 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-06 | Date Collected | : 04/06/23 00:00 |
| Client ID | : DUP | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 13:21 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A19 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|------------|----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | 0.81 | 2.5 | 0.70 | J |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 67 | 0.50 | 0.18 | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 542-75-6 | 1,3-Dichloropropene, Total | ND | 0.50 | 0.14 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.5 | 0.70 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-06 | Date Collected | : 04/06/23 00:00 |
| Client ID | : DUP | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 13:21 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A19 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|-------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | 1.7 | 0.50 | 0.18 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 1330-20-7 | Xylenes, Total | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 540-59-0 | 1,2-Dichloroethene, Total | ND | 2.5 | 0.70 | U |
| 74-95-3 | Dibromomethane | ND | 5.0 | 1.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.5 | 0.70 | U |
| 107-13-1 | Acrylonitrile | ND | 5.0 | 1.5 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-05-4 | Vinyl acetate | ND | 5.0 | 1.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-06 | Date Collected | : 04/06/23 00:00 |
| Client ID | : DUP | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 13:21 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A19 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.5 | 0.70 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.5 | 0.70 | U |
| 108-86-1 | Bromobenzene | ND | 2.5 | 0.70 | U |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 | 0.70 | U |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U |
| 95-49-8 | o-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 106-43-4 | p-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | 1.6 | 2.5 | 0.70 | J |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U |
| 103-65-1 | n-Propylbenzene | 1.4 | 2.5 | 0.70 | J |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2.1 | 2.5 | 0.70 | J |
| 95-63-6 | 1,2,4-Trimethylbenzene | 4.2 | 2.5 | 0.70 | |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |
| 105-05-5 | p-Diethylbenzene | ND | 2.0 | 0.70 | U |
| 622-96-8 | p-Ethyltoluene | 2.4 | 2.0 | 0.70 | |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | ND | 2.0 | 0.54 | U |
| 60-29-7 | Ethyl ether | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-06 | Date Collected | : 04/06/23 00:00 |
| Client ID | : DUP | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 13:21 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A19 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-07 | Date Collected | : 04/06/23 11:30 |
| Client ID | : FB | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 13:42 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A20 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|------------|----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.31 | 0.50 | 0.18 | J |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 542-75-6 | 1,3-Dichloropropene, Total | ND | 0.50 | 0.14 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.5 | 0.70 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-07 | Date Collected | : 04/06/23 11:30 |
| Client ID | : FB | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 13:42 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A20 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|-------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | ND | 0.50 | 0.18 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 1330-20-7 | Xylenes, Total | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 540-59-0 | 1,2-Dichloroethene, Total | ND | 2.5 | 0.70 | U |
| 74-95-3 | Dibromomethane | ND | 5.0 | 1.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.5 | 0.70 | U |
| 107-13-1 | Acrylonitrile | ND | 5.0 | 1.5 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-05-4 | Vinyl acetate | ND | 5.0 | 1.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-07 | Date Collected | : 04/06/23 11:30 |
| Client ID | : FB | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 13:42 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A20 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.5 | 0.70 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.5 | 0.70 | U |
| 108-86-1 | Bromobenzene | ND | 2.5 | 0.70 | U |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 | 0.70 | U |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U |
| 95-49-8 | o-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 106-43-4 | p-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U |
| 103-65-1 | n-Propylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |
| 105-05-5 | p-Diethylbenzene | ND | 2.0 | 0.70 | U |
| 622-96-8 | p-Ethyltoluene | ND | 2.0 | 0.70 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | ND | 2.0 | 0.54 | U |
| 60-29-7 | Ethyl ether | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-07 | Date Collected | : 04/06/23 11:30 |
| Client ID | : FB | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 13:42 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A20 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-08 | Date Collected | : 04/06/23 00:00 |
| Client ID | : TB | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 14:02 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A21 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|------------|----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 542-75-6 | 1,3-Dichloropropene, Total | ND | 0.50 | 0.14 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.5 | 0.70 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-08 | Date Collected | : 04/06/23 00:00 |
| Client ID | : TB | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 14:02 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A21 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|-------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | ND | 0.50 | 0.18 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 1330-20-7 | Xylenes, Total | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 540-59-0 | 1,2-Dichloroethene, Total | ND | 2.5 | 0.70 | U |
| 74-95-3 | Dibromomethane | ND | 5.0 | 1.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.5 | 0.70 | U |
| 107-13-1 | Acrylonitrile | ND | 5.0 | 1.5 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-05-4 | Vinyl acetate | ND | 5.0 | 1.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-08 | Date Collected | : 04/06/23 00:00 |
| Client ID | : TB | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 14:02 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A21 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.5 | 0.70 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.5 | 0.70 | U |
| 108-86-1 | Bromobenzene | ND | 2.5 | 0.70 | U |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 | 0.70 | U |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U |
| 95-49-8 | o-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 106-43-4 | p-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U |
| 103-65-1 | n-Propylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |
| 105-05-5 | p-Diethylbenzene | ND | 2.0 | 0.70 | U |
| 622-96-8 | p-Ethyltoluene | ND | 2.0 | 0.70 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | ND | 2.0 | 0.54 | U |
| 60-29-7 | Ethyl ether | ND | 2.5 | 0.70 | U |



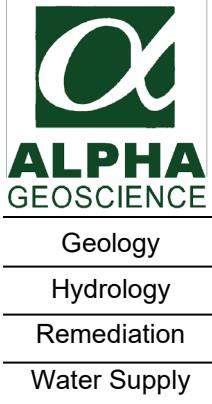
Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2318419-08 | Date Collected | : 04/06/23 00:00 |
| Client ID | : TB | Date Received | : 04/06/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 04/12/23 14:02 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : LAC |
| Lab File ID | : V08230412A21 | Instrument ID | : VOA108 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.5 | 0.70 | U |



VOC Data Section



**QA/QC Review of Method 8260C Volatiles Data
for Alpha Analytical, SDG Number: L2318419**

**5 Ground Water Samples, 1 Field Duplicate,
1 Rinse Blank, and 1 Trip Blank
Collected April 5-6, 2023**

Prepared by: Donald Anné
June 23, 2023

Holding Times: The samples were analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The average RRFs for acetone, 2-butanone, 4-methyl-2-pentanone, 1,1,2-trichloroethane, and 2-hexanone were below the method minimums, but not below 0.010 for VOA108 on 04-05-23. No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no average RRF is less than 0.010.

The average RRFs for target compounds were above the allowable minimum (0.001 for 1,4-dioxane, 0.010 for all other compounds) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The RRFs for acetone, 2-butanone, 4-methyl-2-pentanone, 1,1,2-trichloroethane, and 2-hexanone were below the method minimums, but not below 0.010 on 04-12-23 (V08230412A01). The RRFs for acetone, 2-butanone, 4-methyl-2-pentanone, 1,1,2-trichloroethane, and 2-hexanone were below the method minimums, but not below 0.010 on 04-12-23 (V08230412N01). The %Ds for dichlorodifluoromethane, vinyl chloride, freon-113, and acetone were above the method maximum on 04-12-23 (V08230412N01). No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no RRF is less than 0.010.

The RRFs for target compounds were above the allowable minimum (0.001 for 1,4-dioxane, 0.010 for all other compounds), as required.

The %D for vinyl acetate was above the allowable maximum (20%) on 04-12-23 (V08230412A01). The %Ds for dichlorodifluoromethane, vinyl chloride, freon-113, and acetone were above the allowable maximum (20%) on 04-12-23 (V08230412N01). Positive results for these compounds should be considered estimated (J) in associated samples.

Blanks: The analyses of the method and trip blanks reported target compounds as not detected. Field blank FB contained a trace of tetrachloroethene (0.31 ug/L). Positive results for tetrachloroethene that are less than 5 times the field blank level should be reported as not detected (U) in associated samples.

Surrogate Recovery: The surrogate recoveries were within control limits for the ground water samples, field blank, and trip blank.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Laboratory Control Sample: The relative percent differences (RPDs) for target compounds were below the allowable maximum and the percent recoveries (%Rs) were within QC limits for aqueous samples WG1765771-3/4.

The %Rs for target compounds were within QC limits, but the RPDs for cis-1,2-dichloroethene and bromochloromethane were above the allowable maximum for aqueous samples WG1766227-3/4. Positive results for cis-1,2-dichloroethene and bromochloromethane should be considered estimated (J) in associated aqueous samples.

Field Duplicates: The relative percent differences for applicable compounds were below the allowable maximum (20%) for aqueous field duplicate pair GW-5R/DUP (attached table), as required.

Compound ID: Checked compounds and surrogates were within GC/MS quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Environmental Compliance & Control,
 Project Name : BRIDGE CLEANERS
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : **WG1766227-3** Analysis Date : 04/12/23 17:37 File ID : V08230412N01
 LCSD Sample ID : **WG1766227-4** Analysis Date : 04/12/23 17:58 File ID : V08230412N02

| Parameter | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---------------------------|---------------------------|-----------------|-----|------------------------------|-----------------|-----|-----|--------------------|----|
| | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | RPD | Recovery Limits | |
| Methylene chloride | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| 1,1-Dichloroethane | 10 | 11 | 110 | 10 | 9.2 | 92 | 18 | 70-130 | 20 |
| Chloroform | 10 | 11 | 110 | 10 | 9.0 | 90 | 20 | 70-130 | 20 |
| Carbon tetrachloride | 10 | 11 | 110 | 10 | 9.6 | 96 | 14 | 63-132 | 20 |
| 1,2-Dichloropropane | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| Dibromochloromethane | 10 | 9.9 | 99 | 10 | 10 | 100 | 1 | 63-130 | 20 |
| 1,1,2-Trichloroethane | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| Tetrachloroethene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| Chlorobenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 75-130 | 20 |
| Trichlorofluoromethane | 10 | 12 | 120 | 10 | 11 | 110 | 9 | 62-150 | 20 |
| 1,2-Dichloroethane | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| 1,1,1-Trichloroethane | 10 | 11 | 110 | 10 | 9.3 | 93 | 17 | 67-130 | 20 |
| Bromodichloromethane | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 67-130 | 20 |
| trans-1,3-Dichloropropene | 10 | 9.3 | 93 | 10 | 9.5 | 95 | 2 | 70-130 | 20 |
| cis-1,3-Dichloropropene | 10 | 9.7 | 97 | 10 | 9.9 | 99 | 2 | 70-130 | 20 |
| 1,1-Dichloropropene | 10 | 10 | 100 | 10 | 9.6 | 96 | 4 | 70-130 | 20 |
| Bromoform | 10 | 9.2 | 92 | 10 | 9.7 | 97 | 5 | 54-136 | 20 |
| 1,1,2,2-Tetrachloroethane | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 67-130 | 20 |
| Benzene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| Toluene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| Ethylbenzene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| Chloromethane | 10 | 12 | 120 | 10 | 12 | 120 | 0 | 64-130 | 20 |
| Bromomethane | 10 | 12 | 120 | 10 | 11 | 110 | 9 | 39-139 | 20 |
| Vinyl chloride | 10 | 12 | 120 | 10 | 12 | 120 | 0 | 55-140 | 20 |
| Chloroethane | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 55-138 | 20 |
| 1,1-Dichloroethene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 61-145 | 20 |



Laboratory Control Sample Summary
Form 3
Volatiles

Client : Environmental Compliance & Control, Lab Number : L2318419
Project Name : BRIDGE CLEANERS Project Number : BRIDGE CLEANERS
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1766227-3 Analysis Date : 04/12/23 17:37 File ID : V08230412N01
LCSD Sample ID : WG1766227-4 Analysis Date : 04/12/23 17:58 File ID : V08230412N02

| Parameter | Laboratory Control Sample | | | Laboratory Control Duplicate | | | RPD | Recovery Limits | RPD Limit |
|-------------------------------|---------------------------|--------------|-----|------------------------------|--------------|-----|-------------|-----------------|-----------|
| | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | | | |
| trans-1,2-Dichloroethene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| Trichloroethene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| 1,2-Dichlorobenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| 1,3-Dichlorobenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| 1,4-Dichlorobenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| Methyl tert butyl ether | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 63-130 | 20 |
| p/m-Xylene | 20 | 22 | 110 | 20 | 22 | 110 | 0 | 70-130 | 20 |
| o-Xylene | 20 | 22 | 110 | 20 | 21 | 105 | 5 | 70-130 | 20 |
| cis-1,2-Dichloroethene | 10 | 11 | 110 | 10 | 8.8 | 88 | 22 Q | 70-130 | 20 |
| Dibromomethane | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| 1,2,3-Trichloropropane | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 64-130 | 20 |
| Acrylonitrile | 10 | 10 | 100 | 10 | 9.0 | 90 | 11 | 70-130 | 20 |
| Styrene | 20 | 23 | 115 | 20 | 23 | 115 | 0 | 70-130 | 20 |
| Dichlorodifluoromethane | 10 | 12 | 120 | 10 | 12 | 120 | 0 | 36-147 | 20 |
| Acetone | 10 | 12 | 120 | 10 | 11 | 110 | 9 | 58-148 | 20 |
| Carbon disulfide | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 51-130 | 20 |
| 2-Butanone | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 63-138 | 20 |
| Vinyl acetate | 10 | 12 | 120 | 10 | 11 | 110 | 9 | 70-130 | 20 |
| 4-Methyl-2-pentanone | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 59-130 | 20 |
| 2-Hexanone | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 57-130 | 20 |
| Bromochloromethane | 10 | 11 | 110 | 10 | 8.5 | 85 | 26 Q | 70-130 | 20 |
| 2,2-Dichloropropane | 10 | 12 | 120 | 10 | 10 | 100 | 18 | 63-133 | 20 |
| 1,2-Dibromoethane | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| 1,3-Dichloropropane | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| 1,1,1,2-Tetrachloroethane | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 64-130 | 20 |
| Bromobenzene | 10 | 9.6 | 96 | 10 | 10 | 100 | 4 | 70-130 | 20 |



Laboratory Control Sample Summary
Form 3
Volatiles

Client : Environmental Compliance & Control, Lab Number : L2318419
Project Name : BRIDGE CLEANERS Project Number : BRIDGE CLEANERS
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1766227-3 Analysis Date : 04/12/23 17:37 File ID : V08230412N01
LCSD Sample ID : WG1766227-4 Analysis Date : 04/12/23 17:58 File ID : V08230412N02

| Parameter | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | RPD Limit |
|-----------------------------|---------------------------|-----------------|-----|------------------------------|-----------------|-----|-----|--------------------|--------------|
| | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | RPD | Recovery Limits | |
| n-Butylbenzene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 53-136 | 20 |
| sec-Butylbenzene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| tert-Butylbenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| o-Chlorotoluene | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 70-130 | 20 |
| p-Chlorotoluene | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 70-130 | 20 |
| 1,2-Dibromo-3-chloropropane | 10 | 9.6 | 96 | 10 | 9.8 | 98 | 2 | 41-144 | 20 |
| Hexachlorobutadiene | 10 | 9.6 | 96 | 10 | 9.6 | 96 | 0 | 63-130 | 20 |
| Isopropylbenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| p-Isopropyltoluene | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 70-130 | 20 |
| Naphthalene | 10 | 9.2 | 92 | 10 | 9.8 | 98 | 6 | 70-130 | 20 |
| n-Propylbenzene | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 69-130 | 20 |
| 1,2,3-Trichlorobenzene | 10 | 9.8 | 98 | 10 | 10 | 100 | 2 | 70-130 | 20 |
| 1,2,4-Trichlorobenzene | 10 | 9.5 | 95 | 10 | 9.8 | 98 | 3 | 70-130 | 20 |
| 1,3,5-Trimethylbenzene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 64-130 | 20 |
| 1,2,4-Trimethylbenzene | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 70-130 | 20 |
| 1,4-Dioxane | 500 | 530 | 106 | 500 | 530 | 106 | 0 | 56-162 | 20 |
| p-Diethylbenzene | 10 | 9.9 | 99 | 10 | 10 | 100 | 1 | 70-130 | 20 |
| p-Ethyltoluene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| 1,2,4,5-Tetramethylbenzene | 10 | 9.2 | 92 | 10 | 9.5 | 95 | 3 | 70-130 | 20 |
| Ethyl ether | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 59-134 | 20 |
| trans-1,4-Dichloro-2-butene | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 70-130 | 20 |



Initial Calibration Summary
Form 6
Volatiles

| | | | |
|--------------------------|--|-----------------------|--------------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Instrument ID | : VOA108 | Ical Ref | : ICAL19890 |
| Calibration dates | : 04/05/23 22:11 04/06/23 01:18 | | |

Calibration Files

```
L11 =V08230405N04.d  L1  =V08230405N06.d  L2  =V08230405N08.d  L3  =V08230405N09.d  L4  =V08230405N10.d
L6  =V08230405N11.d  L8  =V08230405N12.d  L10 =V08230405N13.d
```

| Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| -----ISTD----- | | | | | | | | | | |
| 1) I Fluorobenzene | | | | | | | | | | |
| 2) TP Dichlorodifluo | 0.170 | 0.234 | 0.233 | 0.207 | 0.209 | 0.213 | 0.213 | 0.211 | 10.10 | |
| 3) TP Chloromethane | 0.282 | 0.351 | 0.307 | 0.266 | 0.261 | 0.252 | 0.246 | 0.281 | 13.17 | |
| 4) TC Vinyl chloride | 0.204 | 0.212 | 0.308 | 0.273 | 0.249 | 0.252 | 0.254 | 0.252 | 13.04 | |
| 5) TP Bromomethane | 0.167 | 0.187 | 0.153 | 0.149 | 0.170 | 0.174 | 0.187 | 0.170 | 8.77 | |
| 6) TP Chloroethane | 0.195 | 0.235 | 0.199 | 0.178 | 0.182 | 0.189 | 0.192 | 0.196 | 9.54 | |
| 7) TP Trichlorofluor | 0.317 | 0.411 | 0.420 | 0.376 | 0.386 | 0.394 | 0.394 | 0.385 | 8.72 | |
| 8) TP Ethyl ether | 0.069 | 0.113 | 0.097 | 0.095 | 0.104 | 0.102 | 0.100 | 0.097 | 14.03 | |
| 10) TC 1,1-Dichloroet | 0.226 | 0.264 | 0.247 | 0.222 | 0.229 | 0.233 | 0.232 | 0.236 | 6.20 | |
| 11) TP Carbon disulfide | 0.663 | 0.826 | 0.745 | 0.689 | 0.705 | 0.709 | 0.704 | 0.720 | 7.31 | |
| 12) TP Freon-113 | 0.189 | 0.261 | 0.267 | 0.240 | 0.244 | 0.247 | 0.249 | 0.242 | 10.50 | |
| 13) TP Iodomethane | 0.187 | 0.228 | 0.263 | 0.317 | 0.331 | 0.319 | *L | | 0.9971 | |
| 14) TP Acrolein | 0.033 | 0.029 | 0.027 | 0.027 | 0.026 | 0.026 | 0.028 | | 9.13 | |
| 15) TP Methylene chlo | 0.310 | 0.334 | 0.271 | 0.244 | 0.251 | 0.242 | 0.239 | 0.270 | 13.87 | |
| 17) TP Acetone | 0.073 | 0.050 | 0.045 | 0.049 | 0.046 | 0.048 | 0.052 | | 19.95 | |
| 18) TP trans-1,2-Dich | 0.253 | 0.329 | 0.279 | 0.252 | 0.259 | 0.259 | 0.258 | 0.270 | 10.18 | |
| 19) TP Methyl acetate | 0.144 | 0.143 | 0.111 | 0.106 | 0.112 | 0.108 | 0.106 | 0.118 | 14.44 | |
| 20) TP Methyl tert butyl ether | 0.373 | 0.436 | 0.420 | 0.437 | 0.487 | 0.486 | 0.490 | 0.447 | 9.80 | |
| 21) TP tert-Butyl alc | 0.012 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.014 | 0.013 | 6.90 | |
| 22) TP Diisopropyl ether | 0.721 | 0.780 | 0.691 | 0.692 | 0.761 | 0.754 | 0.751 | 0.736 | 4.75 | |
| 23) TP 1,1-Dichloroet | 0.519 | 0.602 | 0.495 | 0.447 | 0.456 | 0.444 | 0.437 | 0.486 | 12.27 | |
| 24) TP Halothane | 0.192 | 0.257 | 0.231 | 0.208 | 0.211 | 0.212 | 0.211 | 0.217 | 9.52 | |
| 25) TP Acrylonitrile | 0.089 | 0.076 | 0.059 | 0.058 | 0.059 | 0.056 | 0.055 | 0.065 | 19.96 | |
| 26) TP Ethyl tert-but | 0.555 | 0.638 | 0.605 | 0.645 | 0.725 | 0.701 | 0.724 | 0.656 | 9.78 | |
| 27) TP Vinyl acetate | 0.369 | 0.348 | 0.402 | 0.400 | 0.412 | 0.379 | 0.385 | | 6.28 | |
| 28) TP cis-1,2-Dichlo | 0.306 | 0.334 | 0.291 | 0.277 | 0.284 | 0.283 | 0.284 | | 6.75 | |
| 29) TP 2,2-Dichloropr | 0.295 | 0.368 | 0.315 | 0.310 | 0.338 | 0.333 | 0.336 | 0.328 | 7.25 | |
| 30) TP Bromochloromet | 0.159 | 0.193 | 0.162 | 0.150 | 0.151 | 0.151 | 0.141 | 0.158 | 10.51 | |
| 31) TP Cyclohexane | 0.257 | 0.354 | 0.376 | 0.368 | 0.411 | 0.403 | 0.407 | 0.368 | 14.56 | |
| 32) TC Chloroform | 0.513 | 0.593 | 0.487 | 0.450 | 0.459 | 0.450 | 0.442 | 0.485 | 11.13 | |
| 33) TP Ethyl acetate | 0.131 | 0.135 | 0.118 | 0.121 | 0.134 | 0.132 | 0.134 | 0.129 | 5.37 | |
| 34) TP Carbon tetrachloride | 0.237 | 0.276 | 0.373 | 0.366 | 0.347 | 0.364 | 0.379 | 0.386 | 15.92 | |
| 35) TP Tetrahydrofuran | 0.043 | 0.031 | 0.032 | 0.036 | 0.036 | 0.036 | 0.036 | | 11.55 | |
| 36) S Dibromofluoromethane | 0.409 | 0.405 | 0.404 | 0.371 | 0.342 | 0.335 | 0.320 | 0.324 | 0.364 | 10.47 |
| 37) TP 1,1,1-Trichlor | 0.323 | 0.441 | 0.405 | 0.374 | 0.387 | 0.396 | 0.395 | 0.389 | 9.18 | |
| 39) TP 2-Butanone | 0.068 | 0.059 | 0.061 | 0.067 | 0.063 | 0.064 | 0.064 | | 5.30 | |



Initial Calibration Summary

Form 6

Volatile

Client : Environmental Compliance & Control,
Project Name : BRIDGE CLEANERS
Instrument ID : VOA108
Calibration dates : 04/05/23 22:11 04/06/23 01:18

Lab Number : L2318419
Project Number : BRIDGE CLEANERS
Ical Ref : ICAL19890

Calibration Files

```
L11 =V08230405N04.d  L1  =V08230405N06.d  L2  =V08230405N08.d  L3  =V08230405N09.d  L4  =V08230405N10.d
L6  =V08230405N11.d  L8  =V08230405N12.d  L10 =V08230405N13.d
```

| | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|-----|-------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 40) | TP 1,1-Dichloropr | | 0.208 | 0.276 | 0.280 | 0.285 | 0.306 | 0.314 | 0.316 | 0.284 | 13.06 |
| 41) | TP Benzene | | 0.681 | 0.797 | 0.952 | 0.895 | 0.897 | 0.956 | 0.951 | 0.937 | 0.883 |
| 42) | TP Tertiary-Amyl Methyl Ether | | 0.341 | 0.401 | 0.398 | 0.442 | 0.528 | 0.536 | 0.550 | 0.457 | 17.93 |
| 43) | S 1,2-Dichloroethane-d4 | | 0.364 | 0.368 | 0.357 | 0.333 | 0.319 | 0.309 | 0.296 | 0.297 | 0.330 |
| 44) | TP 1,2-Dichloroet | | 0.374 | 0.389 | 0.334 | 0.317 | 0.328 | 0.319 | 0.316 | 0.339 | 8.72 |
| 47) | TP Methyl cyclohe | | 0.247 | 0.309 | 0.347 | 0.354 | 0.397 | 0.408 | 0.418 | 0.354 | 17.27 |
| 48) | TP Trichloroethene | | 0.154 | 0.221 | 0.278 | 0.270 | 0.272 | 0.289 | 0.282 | 0.286 | 0.256 |
| 50) | TP Dibromomethane | | 0.133 | 0.174 | 0.148 | 0.142 | 0.149 | 0.145 | 0.145 | 0.148 | 8.59 |
| 51) | TC 1,2-Dichloropr | | 0.240 | 0.266 | 0.242 | 0.243 | 0.257 | 0.255 | 0.251 | 0.251 | 3.80 |
| 53) | TP 2-Chloroethyl | | 0.080 | 0.096 | 0.089 | 0.101 | 0.121 | 0.121 | 0.126 | 0.105 | 17.03 |
| 54) | TP Bromodichlorom | | 0.300 | 0.371 | 0.330 | 0.321 | 0.350 | 0.347 | 0.347 | 0.338 | 6.82 |
| 57) | TP 1,4-Dioxane | | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001# | 5.55 |
| 58) | TP cis-1,3-Dichlo | | 0.281 | 0.301 | 0.300 | 0.334 | 0.383 | 0.384 | 0.390 | 0.339 | 13.68 |
| 59) | I Chlorobenzene-d5 | -----ISTD----- | | | | | | | | | |
| 60) | S Toluene-d8 | 1.152 | 1.150 | 1.178 | 1.164 | 1.176 | 1.164 | 1.177 | 1.157 | 1.165 | 0.96 |
| 61) | TC Toluene | | 0.572 | 0.729 | 0.662 | 0.650 | 0.690 | 0.709 | 0.695 | 0.672 | 7.68 |
| 62) | TP 4-Methyl-2-pen | | 0.037 | 0.048 | 0.047 | 0.052 | 0.060 | 0.061 | 0.060 | 0.052 | 17.44 |
| 63) | TP Tetrachloroethene | | 0.258 | 0.373 | 0.330 | 0.319 | 0.335 | 0.352 | 0.349 | 0.331 | 11.07 |
| 65) | TP trans-1,3-Dich | | 0.221 | 0.257 | 0.265 | 0.310 | 0.367 | 0.375 | 0.375 | *Q | 0.9980 |
| 67) | TP Ethyl methacry | | 0.146 | 0.180 | 0.170 | 0.191 | 0.221 | 0.225 | 0.221 | 0.193 | 15.62 |
| 68) | TP 1,1,2-Trichlor | | 0.139 | 0.182 | 0.164 | 0.169 | 0.182 | 0.181 | 0.178 | 0.171# | 9.17 |
| 69) | TP Chlorodibromom | | 0.217 | 0.281 | 0.263 | 0.279 | 0.314 | 0.325 | 0.322 | 0.286 | 13.51 |
| 70) | TP 1,3-Dichloropr | | 0.306 | 0.365 | 0.332 | 0.346 | 0.377 | 0.378 | 0.368 | 0.353 | 7.56 |
| 71) | TP 1,2-Dibromoethane | | 0.197 | 0.222 | 0.209 | 0.221 | 0.234 | 0.239 | 0.232 | 0.222 | 6.70 |
| 72) | TP 2-Hexanone | | 0.098 | 0.092 | 0.085 | 0.086 | 0.098 | 0.098 | 0.098 | 0.094 | 6.40 |
| 73) | TP Chlorobenzene | | 0.768 | 0.976 | 0.819 | 0.798 | 0.855 | 0.874 | 0.847 | 0.848 | 7.88 |
| 74) | TC Ethylbenzene | | 1.022 | 1.335 | 1.241 | 1.271 | 1.334 | 1.356 | 1.285 | 1.264 | 9.02 |
| 75) | TP 1,1,1,2-Tetra | | 0.223 | 0.290 | 0.275 | 0.293 | 0.331 | 0.340 | 0.336 | 0.298 | 14.01 |
| 76) | TP p/m Xylene | | 0.396 | 0.554 | 0.537 | 0.532 | 0.558 | 0.567 | 0.535 | 0.525 | 11.13 |
| 77) | TP o Xylene | | 0.392 | 0.543 | 0.521 | 0.517 | 0.539 | 0.547 | 0.520 | 0.511 | 10.54 |
| 78) | TP Styrene | | 0.657 | 0.931 | 0.899 | 0.877 | 0.909 | 0.893 | 0.737 | 0.843 | 12.34 |
| 79) | I 1,4-Dichlorobenzene-d4 | -----ISTD----- | | | | | | | | | |
| 80) | TP Bromoform | | 0.215 | 0.240 | 0.221 | 0.253 | 0.305 | 0.327 | 0.319 | 0.269 | 17.65 |
| 82) | TP Isopropylbenzene | | 1.606 | 2.387 | 2.099 | 2.184 | 2.386 | 2.532 | 2.263 | 2.208 | 13.67 |
| 83) | S 4-Bromofluorobenzene | | 0.788 | 0.765 | 0.756 | 0.720 | 0.727 | 0.746 | 0.727 | 0.745 | 3.18 |
| 84) | TP Bromobenzene | | 0.671 | 0.788 | 0.605 | 0.611 | 0.657 | 0.696 | 0.651 | 0.668 | 9.21 |



Initial Calibration Summary
Form 6
Volatiles

| | | | |
|--------------------------|---------------------------------------|-----------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Instrument ID | : VOA108 | Ical Ref | : ICAL19890 |
| Calibration dates | : 04/05/23 22:11 04/06/23 01:18 | | |

Calibration Files

```
L11 =V08230405N04.d  L1  =V08230405N06.d  L2  =V08230405N08.d  L3  =V08230405N09.d  L4  =V08230405N10.d
L6  =V08230405N11.d  L8  =V08230405N12.d  L10 =V08230405N13.d
```

| | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|------|----------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 85) | TP n-Propylbenzene | | 2.133 | 2.898 | 2.539 | 2.597 | 2.784 | 2.917 | | 2.645 | 11.12 |
| 86) | TP 1,4-Dichlorobu | | 0.572 | 0.576 | 0.488 | 0.504 | 0.556 | 0.580 | 0.550 | 0.547 | 6.67 |
| 87) | TP 1,1,2,2-Tetra- | | 0.408 | 0.449 | 0.354 | 0.373 | 0.401 | 0.427 | 0.393 | 0.401 | 7.93 |
| 88) | TP 4-Ethyltoluene | | 1.782 | 2.407 | 2.160 | 2.282 | 2.482 | 2.615 | 2.267 | 2.285 | 11.73 |
| 89) | TP 2-Chlorotoluene | | 1.628 | 2.139 | 1.785 | 1.796 | 1.910 | 2.004 | 1.837 | 1.871 | 8.84 |
| 90) | TP 1,3,5-Trimethyl | | 1.383 | 1.926 | 1.788 | 1.869 | 2.083 | 2.198 | 2.003 | 1.893 | 13.88 |
| 91) | TP 1,2,3-Trichlor | | 0.307 | 0.340 | 0.279 | 0.284 | 0.316 | 0.327 | 0.308 | 0.309 | 7.11 |
| 92) | TP trans-1,4-Dich | | 0.111 | 0.116 | 0.092 | 0.100 | 0.115 | 0.120 | 0.108 | 0.109 | 9.07 |
| 93) | TP 4-Chlorotoluene | | 1.480 | 1.864 | 1.592 | 1.610 | 1.730 | 1.817 | 1.649 | 1.678 | 8.02 |
| 94) | TP tert-Butylbenzene | | 1.275 | 1.844 | 1.659 | 1.761 | 1.905 | 2.028 | 1.874 | 1.764 | 13.86 |
| 97) | TP 1,2,4-Trimethyl | | 1.324 | 1.845 | 1.706 | 1.855 | 2.065 | 2.185 | 1.994 | 1.854 | 15.21 |
| 98) | TP sec-Butylbenzene | | 1.656 | 2.584 | 2.412 | 2.465 | 2.647 | 2.780 | 2.357 | 2.414 | 15.10 |
| 99) | TP p-Isopropyltol | | 1.492 | 2.252 | 2.120 | 2.285 | 2.522 | 2.646 | 2.250 | 2.224 | 16.60 |
| 100) | TP 1,3-Dichlorobe | | 1.282 | 1.611 | 1.267 | 1.269 | 1.355 | 1.398 | 1.299 | 1.354 | 9.10 |
| 101) | TP 1,4-Dichlorobe | | 1.263 | 1.635 | 1.264 | 1.266 | 1.348 | 1.412 | 1.311 | 1.357 | 9.89 |
| 102) | TP p-Diethylbenzene | | 1.005 | 1.355 | 1.256 | 1.373 | 1.553 | 1.654 | 1.586 | 1.397 | 16.07 |
| 103) | TP n-Butylbenzene | | 1.407 | 1.948 | 1.793 | 1.844 | 2.003 | 2.116 | 1.931 | 1.863 | 12.17 |
| 104) | TP 1,2-Dichlorobe | | 1.226 | 1.325 | 1.157 | 1.165 | 1.248 | 1.296 | 1.216 | 1.233 | 5.04 |
| 105) | TP 1,2,4,5-Tetram | | 1.491 | 1.911 | 1.713 | 2.010 | 2.344 | 2.543 | 2.188 | 2.029 | 17.91 |
| 106) | TP 1,2-Dibromo-3- | | 0.067 | 0.071 | 0.058 | 0.068 | 0.074 | 0.079 | 0.080 | 0.071 | 10.58 |
| 107) | TP 1,3,5-Trichlor | | 0.948 | 1.079 | 0.904 | 0.931 | 1.020 | 1.104 | 1.062 | 1.007 | 7.86 |
| 108) | TP Hexachlorobuta | | 0.371 | 0.463 | 0.382 | 0.389 | 0.419 | 0.457 | 0.440 | 0.417 | 8.96 |
| 109) | TP 1,2,4-Trichlor | | 0.843 | 0.993 | 0.771 | 0.810 | 0.886 | 0.960 | 0.926 | 0.884 | 9.16 |
| 110) | TP Naphthalene | | 1.368 | 1.551 | 1.329 | 1.529 | 1.715 | 1.839 | 1.707 | 1.577 | 11.93 |
| 111) | TP 1,2,3-Trichlor | | 0.744 | 0.904 | 0.743 | 0.761 | 0.820 | 0.874 | 0.834 | 0.811 | 7.92 |



Calibration Verification Summary
Form 7
Volatiles

| | | | |
|---------------|---------------------------------------|----------------------|--------------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Instrument ID | : VOA108 | Calibration Date | : 04/12/23 07:06 |
| Lab File ID | : V08230412A01 | Init. Calib. Date(s) | : 04/05/23 04/06/23 |
| Sample No | : WG1765771-2 | Init. Calib. Times | : 22:11 01:18 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|--------------------------|--------------|--------------|---------|---------------|--------|-------|----------|
| Fluorobenzene | 1 | 1 | - | 0 | 20 | 92 | 0 |
| Dichlorodifluoromethane | 0.211 | 0.252 | - | -19.4 | 20 | 100 | 0 |
| Chloromethane | 0.281 | 0.301 | - | -7.1 | 20 | 91 | 0 |
| Vinyl chloride | 0.25 | 0.292 | - | -16.8 | 20 | 99 | 0 |
| Bromomethane | 0.17 | 0.152 | - | 10.6 | 20 | 91 | 0 |
| Chloroethane | 0.196 | 0.196 | - | 0 | 20 | 91 | 0 |
| Trichlorofluoromethane | 0.385 | 0.426 | - | -10.6 | 20 | 94 | 0 |
| Ethyl ether | 0.097 | 0.107 | - | -10.3 | 20 | 102 | 0 |
| 1,1-Dichloroethene | 0.236 | 0.257 | - | -8.9 | 20 | 96 | 0 |
| Carbon disulfide | 0.72 | 0.776 | - | -7.8 | 20 | 96 | 0 |
| Freon-113 | 0.242 | 0.277 | - | -14.5 | 20 | 96 | 0 |
| Acrolein | 0.028 | 0.032 | - | -14.3 | 20 | 104 | 0 |
| Methylene chloride | 0.27 | 0.272 | - | -0.7 | 20 | 93 | 0 |
| Acetone | 0.052 | 0.051 | - | 1.9 | 20 | 93 | 0 |
| trans-1,2-Dichloroethene | 0.27 | 0.271 | - | -0.4 | 20 | 89 | 0 |
| Methyl acetate | 0.118 | 0.123 | - | -4.2 | 20 | 102 | 0 |
| Methyl tert-butyl ether | 0.447 | 0.435 | - | 2.7 | 20 | 95 | 0 |
| tert-Butyl alcohol | 0.013 | 0.014 | - | -7.7 | 20 | 104 | 0 |
| Diisopropyl ether | 0.736 | 0.714 | - | 3 | 20 | 95 | 0 |
| 1,1-Dichloroethane | 0.486 | 0.468 | - | 3.7 | 20 | 87 | 0 |
| Halothane | 0.217 | 0.22 | - | -1.4 | 20 | 88 | 0 |
| Acrylonitrile | 0.065 | 0.062 | - | 4.6 | 20 | 97 | 0 |
| Ethyl tert-butyl ether | 0.656 | 0.684 | - | -4.3 | 20 | 104 | 0 |
| Vinyl acetate | 0.385 | 0.468 | - | -21.6* | 20 | 124 | 0 |
| cis-1,2-Dichloroethene | 0.294 | 0.311 | - | -5.8 | 20 | 99 | 0 |
| 2,2-Dichloropropane | 0.328 | 0.375 | - | -14.3 | 20 | 110 | 0 |
| Bromochloromethane | 0.158 | 0.162 | - | -2.5 | 20 | 93 | 0 |
| Cyclohexane | 0.368 | 0.412 | - | -12 | 20 | 101 | 0 |
| Chloroform | 0.485 | 0.5 | - | -3.1 | 20 | 95 | 0 |
| Ethyl acetate | 0.129 | 0.14 | - | -8.5 | 20 | 110 | 0 |
| Carbon tetrachloride | 0.341 | 0.366 | - | -7.3 | 20 | 92 | 0 |
| Tetrahydrofuran | 0.036 | 0.043 | - | -19.4 | 20 | 126 | 0 |
| Dibromofluoromethane | 0.364 | 0.356 | - | 2.2 | 20 | 89 | 0 |
| 1,1,1-Trichloroethane | 0.389 | 0.401 | - | -3.1 | 20 | 91 | 0 |
| 2-Butanone | 0.064 | 0.072 | - | -12.5 | 20 | 112 | .01 |
| 1,1-Dichloropropene | 0.284 | 0.297 | - | -4.6 | 20 | 98 | 0 |
| Benzene | 0.883 | 0.955 | - | -8.2 | 20 | 98 | 0 |
| tert-Amyl methyl ether | 0.457 | 0.458 | - | -0.2 | 20 | 106 | 0 |
| 1,2-Dichloroethane-d4 | 0.33 | 0.327 | - | 0.9 | 20 | 91 | 0 |
| 1,2-Dichloroethane | 0.339 | 0.345 | - | -1.8 | 20 | 95 | 0 |
| Methyl cyclohexane | 0.354 | 0.363 | - | -2.5 | 20 | 96 | 0 |
| Trichloroethene | 0.256 | 0.282 | - | -10.2 | 20 | 96 | 0 |
| Dibromomethane | 0.148 | 0.154 | - | -4.1 | 20 | 96 | 0 |

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Volatiles

| | | | |
|---------------|---------------------------------------|----------------------|--------------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Instrument ID | : VOA108 | Calibration Date | : 04/12/23 07:06 |
| Lab File ID | : V08230412A01 | Init. Calib. Date(s) | : 04/05/23 04/06/23 |
| Sample No | : WG1765771-2 | Init. Calib. Times | : 22:11 01:18 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|------------------------------|--------------|---------------|---------|-------|--------|-------|----------|
| 1,2-Dichloropropane | 0.251 | 0.266 | - | -6 | 20 | 101 | 0 |
| 2-Chloroethyl vinyl ether | 0.105 | 0.094 | - | 10.5 | 20 | 96 | 0 |
| Bromodichloromethane | 0.338 | 0.352 | - | -4.1 | 20 | 98 | 0 |
| 1,4-Dioxane | 0.00137 | 0.00151* | - | -10.2 | 20 | 107 | 0 |
| cis-1,3-Dichloropropene | 0.339 | 0.335 | - | 1.2 | 20 | 103 | 0 |
| Chlorobenzene-d5 | 1 | 1 | - | 0 | 20 | 91 | 0 |
| Toluene-d8 | 1.165 | 1.181 | - | -1.4 | 20 | 92 | 0 |
| Toluene | 0.672 | 0.694 | - | -3.3 | 20 | 95 | 0 |
| 4-Methyl-2-pentanone | 0.052 | 0.055 | - | -5.8 | 20 | 106 | 0 |
| Tetrachloroethene | 0.331 | 0.348 | - | -5.1 | 20 | 95 | 0 |
| trans-1,3-Dichloropropene | 10 | 9.405 | - | 6 | 20 | 105 | 0 |
| Ethyl methacrylate | 0.193 | 0.201 | - | -4.1 | 20 | 107 | 0 |
| 1,1,2-Trichloroethane | 0.171 | 0.184* | - | -7.6 | 20 | 102 | 0 |
| Chlorodibromomethane | 0.286 | 0.283 | - | 1 | 20 | 97 | 0 |
| 1,3-Dichloropropane | 0.353 | 0.372 | - | -5.4 | 20 | 102 | 0 |
| 1,2-Dibromoethane | 0.222 | 0.233 | - | -5 | 20 | 101 | 0 |
| 2-Hexanone | 0.094 | 0.093 | - | 1.1 | 20 | 100 | 0 |
| Chlorobenzene | 0.848 | 0.874 | - | -3.1 | 20 | 97 | 0 |
| Ethylbenzene | 1.264 | 1.306 | - | -3.3 | 20 | 95 | 0 |
| 1,1,1,2-Tetrachloroethane | 0.298 | 0.3 | - | -0.7 | 20 | 99 | 0 |
| p/m Xylene | 0.525 | 0.557 | - | -6.1 | 20 | 94 | 0 |
| o Xylene | 0.511 | 0.537 | - | -5.1 | 20 | 93 | 0 |
| Styrene | 0.843 | 0.947 | - | -12.3 | 20 | 95 | 0 |
| 1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 84 | 0 |
| Bromoform | 0.269 | 0.26 | - | 3.3 | 20 | 99 | 0 |
| Isopropylbenzene | 2.208 | 2.38 | - | -7.8 | 20 | 95 | 0 |
| 4-Bromofluorobenzene | 0.745 | 0.738 | - | 0.9 | 20 | 86 | 0 |
| Bromobenzene | 0.668 | 0.67 | - | -0.3 | 20 | 93 | 0 |
| n-Propylbenzene | 2.645 | 2.849 | - | -7.7 | 20 | 94 | 0 |
| 1,4-Dichlorobutane | 0.547 | 0.595 | - | -8.8 | 20 | 102 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.401 | 0.437 | - | -9 | 20 | 104 | 0 |
| 4-Ethyltoluene | 2.285 | 2.448 | - | -7.1 | 20 | 95 | 0 |
| 2-Chlorotoluene | 1.871 | 2.01 | - | -7.4 | 20 | 95 | 0 |
| 1,3,5-Trimethylbenzene | 1.893 | 2.052 | - | -8.4 | 20 | 96 | 0 |
| 1,2,3-Trichloropropane | 0.309 | 0.333 | - | -7.8 | 20 | 100 | 0 |
| trans-1,4-Dichloro-2-buten | 0.109 | 0.118 | - | -8.3 | 20 | 107 | 0 |
| 4-Chlorotoluene | 1.678 | 1.801 | - | -7.3 | 20 | 95 | 0 |
| tert-Butylbenzene | 1.764 | 1.841 | - | -4.4 | 20 | 93 | 0 |
| 1,2,4-Trimethylbenzene | 1.854 | 1.995 | - | -7.6 | 20 | 98 | 0 |
| sec-Butylbenzene | 2.414 | 2.67 | - | -10.6 | 20 | 93 | 0 |
| p-Isopropyltoluene | 2.224 | 2.397 | - | -7.8 | 20 | 95 | 0 |
| 1,3-Dichlorobenzene | 1.354 | 1.401 | - | -3.5 | 20 | 93 | 0 |
| 1,4-Dichlorobenzene | 1.357 | 1.44 | - | -6.1 | 20 | 96 | 0 |

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Volatiles

| | | | |
|---------------|---------------------------------------|----------------------|--------------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Instrument ID | : VOA108 | Calibration Date | : 04/12/23 07:06 |
| Lab File ID | : V08230412A01 | Init. Calib. Date(s) | : 04/05/23 04/06/23 |
| Sample No | : WG1765771-2 | Init. Calib. Times | : 22:11 01:18 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|----------------------------|----------|-------|---------|-------|--------|-------|----------|
| p-Diethylbenzene | 1.397 | 1.416 | - | -1.4 | 20 | 95 | 0 |
| n-Butylbenzene | 1.863 | 2.099 | - | -12.7 | 20 | 98 | 0 |
| 1,2-Dichlorobenzene | 1.233 | 1.314 | - | -6.6 | 20 | 95 | 0 |
| 1,2,4,5-Tetramethylbenzene | 2.029 | 1.954 | - | 3.7 | 20 | 96 | 0 |
| 1,2-Dibromo-3-chloropropan | 0.071 | 0.072 | - | -1.4 | 20 | 105 | 0 |
| 1,3,5-Trichlorobenzene | 1.007 | 1.021 | - | -1.4 | 20 | 95 | 0 |
| Hexachlorobutadiene | 0.417 | 0.415 | - | 0.5 | 20 | 91 | 0 |
| 1,2,4-Trichlorobenzene | 0.884 | 0.872 | - | 1.4 | 20 | 95 | 0 |
| Naphthalene | 1.577 | 1.556 | - | 1.3 | 20 | 98 | 0 |
| 1,2,3-Trichlorobenzene | 0.811 | 0.823 | - | -1.5 | 20 | 93 | 0 |

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Volatiles

| | | | |
|---------------|---------------------------------------|----------------------|--------------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Instrument ID | : VOA108 | Calibration Date | : 04/12/23 17:37 |
| Lab File ID | : V08230412N01 | Init. Calib. Date(s) | : 04/05/23 04/06/23 |
| Sample No | : WG1766227-2 | Init. Calib. Times | : 22:11 01:18 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|--------------------------|----------|--------|---------|--------|--------|-------|----------|
| Fluorobenzene | 1 | 1 | - | 0 | 20 | 89 | 0 |
| Dichlorodifluoromethane | 0.211 | 0.262 | - | -24.2* | 20 | 100 | 0 |
| Chloromethane | 0.281 | 0.335 | - | -19.2 | 20 | 97 | 0 |
| Vinyl chloride | 0.25 | 0.309 | - | -23.6* | 20 | 101 | 0 |
| Bromomethane | 0.17 | 0.203 | - | -19.4 | 20 | 118 | 0 |
| Chloroethane | 0.196 | 0.21 | - | -7.1 | 20 | 94 | 0 |
| Trichlorofluoromethane | 0.385 | 0.446 | - | -15.8 | 20 | 94 | 0 |
| Ethyl ether | 0.097 | 0.11 | - | -13.4 | 20 | 101 | 0 |
| 1,1-Dichloroethene | 0.236 | 0.262 | - | -11 | 20 | 94 | 0 |
| Carbon disulfide | 0.72 | 0.812 | - | -12.8 | 20 | 97 | 0 |
| Freon-113 | 0.242 | 0.293 | - | -21.1* | 20 | 97 | 0 |
| Iodomethane | 10 | 10.079 | - | -0.8 | 20 | 109 | 0 |
| Acrolein | 0.028 | 0.031 | - | -10.7 | 20 | 96 | 0 |
| Methylene chloride | 0.27 | 0.295 | - | -9.3 | 20 | 97 | 0 |
| Acetone | 0.052 | 0.063 | - | -21.2* | 20 | 112 | 0 |
| trans-1,2-Dichloroethene | 0.27 | 0.295 | - | -9.3 | 20 | 94 | 0 |
| Methyl acetate | 0.118 | 0.134 | - | -13.6 | 20 | 107 | 0 |
| Methyl tert-butyl ether | 0.447 | 0.463 | - | -3.6 | 20 | 98 | 0 |
| tert-Butyl alcohol | 0.013 | 0.015 | - | -15.4 | 20 | 103 | 0 |
| Diisopropyl ether | 0.736 | 0.792 | - | -7.6 | 20 | 102 | -.01 |
| 1,1-Dichloroethane | 0.486 | 0.541 | - | -11.3 | 20 | 97 | 0 |
| Halothane | 0.217 | 0.239 | - | -10.1 | 20 | 92 | 0 |
| Acrylonitrile | 0.065 | 0.068 | - | -4.6 | 20 | 102 | 0 |
| Ethyl tert-butyl ether | 0.656 | 0.687 | - | -4.7 | 20 | 101 | 0 |
| Vinyl acetate | 0.385 | 0.456 | - | -18.4 | 20 | 117 | 0 |
| cis-1,2-Dichloroethene | 0.294 | 0.325 | - | -10.5 | 20 | 99 | 0 |
| 2,2-Dichloropropane | 0.328 | 0.384 | - | -17.1 | 20 | 108 | 0 |
| Bromochloromethane | 0.158 | 0.17 | - | -7.6 | 20 | 93 | 0 |
| Cyclohexane | 0.368 | 0.416 | - | -13 | 20 | 98 | 0 |
| Chloroform | 0.485 | 0.524 | - | -8 | 20 | 96 | 0 |
| Ethyl acetate | 0.129 | 0.145 | - | -12.4 | 20 | 109 | 0 |
| Carbon tetrachloride | 0.341 | 0.389 | - | -14.1 | 20 | 94 | 0 |
| Tetrahydrofuran | 0.036 | 0.036 | - | 0 | 20 | 103 | 0 |
| Dibromofluoromethane | 0.364 | 0.362 | - | 0.5 | 20 | 87 | 0 |
| 1,1,1-Trichloroethane | 0.389 | 0.43 | - | -10.5 | 20 | 94 | 0 |
| 2-Butanone | 0.064 | 0.067 | - | -4.7 | 20 | 100 | 0 |
| 1,1-Dichloropropene | 0.284 | 0.299 | - | -5.3 | 20 | 95 | 0 |
| Benzene | 0.883 | 0.97 | - | -9.9 | 20 | 96 | 0 |
| tert-Amyl methyl ether | 0.457 | 0.425 | - | 7 | 20 | 95 | 0 |
| 1,2-Dichloroethane-d4 | 0.33 | 0.325 | - | 1.5 | 20 | 87 | 0 |
| 1,2-Dichloroethane | 0.339 | 0.362 | - | -6.8 | 20 | 96 | 0 |
| Methyl cyclohexane | 0.354 | 0.367 | - | -3.7 | 20 | 94 | 0 |
| Trichloroethene | 0.256 | 0.291 | - | -13.7 | 20 | 96 | 0 |

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Volatiles

| | | | |
|---------------|---------------------------------------|----------------------|--------------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Instrument ID | : VOA108 | Calibration Date | : 04/12/23 17:37 |
| Lab File ID | : V08230412N01 | Init. Calib. Date(s) | : 04/05/23 04/06/23 |
| Sample No | : WG1766227-2 | Init. Calib. Times | : 22:11 01:18 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|------------------------------|--------------|---------------|---------|-------|--------|-------|----------|
| Dibromomethane | 0.148 | 0.158 | - | -6.8 | 20 | 95 | 0 |
| 1,2-Dichloropropane | 0.251 | 0.274 | - | -9.2 | 20 | 101 | 0 |
| 2-Chloroethyl vinyl ether | 0.105 | 0.088 | - | 16.2 | 20 | 88 | 0 |
| Bromodichloromethane | 0.338 | 0.352 | - | -4.1 | 20 | 95 | 0 |
| 1,4-Dioxane | 0.00137 | 0.00146* | - | -6.6 | 20 | 99 | 0 |
| cis-1,3-Dichloropropene | 0.339 | 0.33 | - | 2.7 | 20 | 98 | 0 |
| Chlorobenzene-d5 | 1 | 1 | - | 0 | 20 | 87 | 0 |
| Toluene-d8 | 1.165 | 1.191 | - | -2.2 | 20 | 89 | 0 |
| Toluene | 0.672 | 0.721 | - | -7.3 | 20 | 95 | 0 |
| 4-Methyl-2-pentanone | 0.052 | 0.054 | - | -3.8 | 20 | 100 | 0 |
| Tetrachloroethene | 0.331 | 0.36 | - | -8.8 | 20 | 95 | 0 |
| trans-1,3-Dichloropropene | 10 | 9.338 | - | 6.6 | 20 | 100 | 0 |
| Ethyl methacrylate | 0.193 | 0.195 | - | -1 | 20 | 100 | 0 |
| 1,1,2-Trichloroethane | 0.171 | 0.187* | - | -9.4 | 20 | 100 | 0 |
| Chlorodibromomethane | 0.286 | 0.284 | - | 0.7 | 20 | 94 | 0 |
| 1,3-Dichloropropane | 0.353 | 0.383 | - | -8.5 | 20 | 101 | 0 |
| 1,2-Dibromoethane | 0.222 | 0.238 | - | -7.2 | 20 | 99 | 0 |
| 2-Hexanone | 0.094 | 0.096 | - | -2.1 | 20 | 100 | 0 |
| Chlorobenzene | 0.848 | 0.891 | - | -5.1 | 20 | 95 | 0 |
| Ethylbenzene | 1.264 | 1.343 | - | -6.2 | 20 | 95 | 0 |
| 1,1,1,2-Tetrachloroethane | 0.298 | 0.298 | - | 0 | 20 | 95 | 0 |
| p/m Xylene | 0.525 | 0.573 | - | -9.1 | 20 | 93 | 0 |
| o Xylene | 0.511 | 0.559 | - | -9.4 | 20 | 94 | 0 |
| Styrene | 0.843 | 0.968 | - | -14.8 | 20 | 94 | 0 |
| 1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 86 | 0 |
| Bromoform | 0.269 | 0.248 | - | 7.8 | 20 | 97 | 0 |
| Isopropylbenzene | 2.208 | 2.291 | - | -3.8 | 20 | 94 | 0 |
| 4-Bromofluorobenzene | 0.745 | 0.702 | - | 5.8 | 20 | 84 | 0 |
| Bromobenzene | 0.668 | 0.641 | - | 4 | 20 | 92 | 0 |
| n-Propylbenzene | 2.645 | 2.778 | - | -5 | 20 | 95 | 0 |
| 1,4-Dichlorobutane | 0.547 | 0.561 | - | -2.6 | 20 | 99 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.401 | 0.423 | - | -5.5 | 20 | 103 | 0 |
| 4-Ethyltoluene | 2.285 | 2.398 | - | -4.9 | 20 | 96 | 0 |
| 2-Chlorotoluene | 1.871 | 1.965 | - | -5 | 20 | 95 | 0 |
| 1,3,5-Trimethylbenzene | 1.893 | 2.045 | - | -8 | 20 | 99 | 0 |
| 1,2,3-Trichloropropane | 0.309 | 0.313 | - | -1.3 | 20 | 97 | 0 |
| trans-1,4-Dichloro-2-butene | 0.109 | 0.109 | - | 0 | 20 | 102 | 0 |
| 4-Chlorotoluene | 1.678 | 1.758 | - | -4.8 | 20 | 95 | 0 |
| tert-Butylbenzene | 1.764 | 1.79 | - | -1.5 | 20 | 93 | 0 |
| 1,2,4-Trimethylbenzene | 1.854 | 1.957 | - | -5.6 | 20 | 99 | 0 |
| sec-Butylbenzene | 2.414 | 2.61 | - | -8.1 | 20 | 94 | 0 |
| p-Isopropyltoluene | 2.224 | 2.34 | - | -5.2 | 20 | 95 | 0 |
| 1,3-Dichlorobenzene | 1.354 | 1.385 | - | -2.3 | 20 | 95 | 0 |

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Volatiles

| | | | |
|---------------|---------------------------------------|----------------------|--------------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2318419 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Instrument ID | : VOA108 | Calibration Date | : 04/12/23 17:37 |
| Lab File ID | : V08230412N01 | Init. Calib. Date(s) | : 04/05/23 04/06/23 |
| Sample No | : WG1766227-2 | Init. Calib. Times | : 22:11 01:18 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|----------------------------|----------|-------|---------|------|--------|-------|----------|
| 1,4-Dichlorobenzene | 1.357 | 1.395 | - | -2.8 | 20 | 95 | 0 |
| p-Diethylbenzene | 1.397 | 1.378 | - | 1.4 | 20 | 95 | 0 |
| n-Butylbenzene | 1.863 | 2.038 | - | -9.4 | 20 | 98 | 0 |
| 1,2-Dichlorobenzene | 1.233 | 1.264 | - | -2.5 | 20 | 94 | 0 |
| 1,2,4,5-Tetramethylbenzene | 2.029 | 1.864 | - | 8.1 | 20 | 94 | 0 |
| 1,2-Dibromo-3-chloropropan | 0.071 | 0.068 | - | 4.2 | 20 | 101 | 0 |
| 1,3,5-Trichlorobenzene | 1.007 | 0.984 | - | 2.3 | 20 | 94 | 0 |
| Hexachlorobutadiene | 0.417 | 0.401 | - | 3.8 | 20 | 91 | 0 |
| 1,2,4-Trichlorobenzene | 0.884 | 0.838 | - | 5.2 | 20 | 94 | 0 |
| Naphthalene | 1.577 | 1.46 | - | 7.4 | 20 | 95 | 0 |
| 1,2,3-Trichlorobenzene | 0.811 | 0.797 | - | 1.7 | 20 | 93 | 0 |

* Value outside of QC limits.



Field Duplicate Calculation Section

Volatiles

Calculations for Field Duplicate Relative Percent Difference (RPD)

SDG No. L2318419

S1= GW-5R

S2= DUP

| Analyte | S1 | S2 | RPD (%) |
|------------------------|-------------|-------------|----------------|
| chloroform | 0.78 | 0.81 | NC |
| Tetrachloroethene | 66 | 67 | 2% |
| Trichloroethylene | 1.7 | 1.7 | 0% |
| Isopropylbenzene | 1.4 | 1.6 | NC |
| n-Propylbenzene | 1.3 | 1.4 | NC |
| 1,2,4-Trimethylbenzene | 2.0 | 2.1 | NC |
| 1,2,4-Trimethylbenzene | 3.8 | 4.2 | 10% |
| p-Ethyltoluene | 2.2 | 2.4 | 9% |

* RPD is above the allowable maximum waters 20%.

Results are in units of ug/L.

Bold numbers were values that are below the CRQL or above the high standard.

ND - Not detected.

NC - Not calculated, both results must be within the linear range for valid RPDs to be calculated.

Alpha Geoscience:

Acronyms and

Definitions

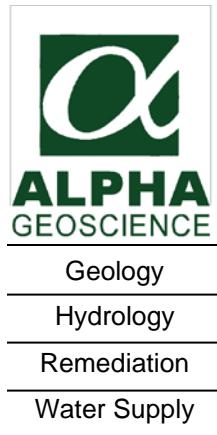
Data Validation Acronyms

| | |
|-------------|---|
| AA | Atomic absorption, flame technique |
| BHC | Hexachlorocyclohexane |
| BFB | Bromofluorobenzene |
| CCB | Continuing calibration blank |
| CCC | Calibration check compound |
| CCV | Continuing calibration verification |
| CN | Cyanide |
| CRDL | Contract required detection limit |
| CRQL | Contract required quantitation limit |
| CVAA | Atomic adsorption, cold vapor technique |
| DCAA | 2,4-Dichlophenylacetic acid |
| DCB | Decachlorobiphenyl |
| DFTPP | Decafluorotriphenyl phosphine |
| ECD | Electron capture detector |
| FAA | Atomic absorption, furnace technique |
| FID | Flame ionization detector |
| FNP | 1-Fluoronaphthalene |
| GC | Gas chromatography |
| GC/MS | Gas chromatography/mass spectrometry |
| GPC | Gel permeation chromatography |
| ICB | Initial calibration blank |
| ICP | Inductively coupled plasma-atomic emission spectrometer |
| ICV | Initial calibration verification |
| IDL | Instrument detection limit |
| IS | Internal standard |
| LCS | Laboratory control sample |
| LCS/LCSD | Laboratory control sample/laboratory control sample duplicate |
| MSA | Method of standard additions |
| MS/MSD | Matrix spike/matrix spike duplicate |
| PID | Photo ionization detector |
| PCB | Polychlorinated biphenyl |
| PCDD | Polychlorinated dibenzodioxins |
| PCDF | Polychlorinated dibenzofurans |
| QA | Quality assurance |
| QC | Quality control |
| RF | Response factor |
| RPD | Relative percent difference |
| RRF | Relative response factor |
| RRF(number) | Relative response factor at concentration of the number following |
| RT | Retention time |
| RRT | Relative retention time |
| SDG | Sample delivery group |
| SPCC | System performance check compound |
| TCX | Tetrachloro-m-xylene |
| %D | Percent difference |
| %R | Percent recovery |
| %RSD | Percent relative standard deviation |

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

- U = Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
- R = Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
- N = Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
- J = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
- J- = Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.
- J+ = Analyte is present. Reported value may be biased high and associated with a higher level of uncertainty than is normally expected with the analytical method.
- UJ = Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.



January 25, 2024

Mr. Nick Krasnecky, P.E.
Associate Engineer
Terraphase Engineering
222 International Drive
Portsmouth, New Hampshire 03801

Re: Data Usability Summary Reports
Bridge Cleaners
August 2023 Ground Water Sample Event

Dear Mr. Krasnecky:

The data usability summary report (DUSR) and supporting documentation for August 2023 ground water sampling event are attached to this letter for Bridge Cleaners. The data for Alpha Analytical Labs SDG number L2345491 are acceptable, with some minor issues that are identified in the DUSR and validation summary. There are no data that were rejected, unusable (R) in the data pack.

A list of data validation acronyms and qualifiers is attached to assist you in interpreting the data validation reviews. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist ECC Horizon.

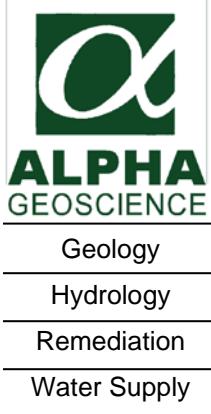
Sincerely,
Alpha Geoscience

A handwritten signature in black ink, appearing to read "Donald Anné".

Donald Anné
Senior Chemist

DCA/bms
Via email

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**Data Usability Summary Report
for Alpha Analytical Labs
SDG Number: L2345491**

**3 Ground Water Samples, 1 Field Duplicate,
1 Field Blank, and 1 Trip Blank
Collected August 7, 2023**

Prepared by: Donald Anné
January 25, 2024

The data package contained the documentation as required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data pack contained the results of volatiles for 3 ground water samples, 1 field duplicate, 1 field blank, and 1 trip blank.

The overall performances of the analyses are acceptable. Alpha Analytical Labs did fulfill the requirements of the analytical method.

The data are mostly acceptable with some issues that are identified in the accompanying data validation review. The following data were qualified:

- The volatile results for tetrachloroethene in samples GW-2R and DUP were quantitated using data that were extrapolated beyond the highest calibration standard and flagged "E" by the laboratory. The results for tetrachloroethene marked "E" in the undiluted samples were qualified as estimated (J).
- The volatile result for vinyl chloride was qualified as estimated (J) for sample GW-2R because the %D for vinyl chloride was above the allowable maximum in the associated continuing calibration verification.
- The volatile result for acetone was qualified as estimated (J) for sample FB because the %D for acetone was above the allowable maximum in the associated continuing calibration verification.
- The "not detected" volatile results for trans-1,4-dichloro-2-butene were qualified as "estimated" (UJ) for all 3 ground water samples, DUP, FB, and TB because 1 of 2 percent recoveries for trans-1,4-dichloro-2-butene was below QC limits, but not below 30% in the associated aqueous LCS/LCSD.

DUSR

SDG Number: L2345491

All data are considered usable with estimated (J or UJ) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

Qualified Data Section

Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-01 | Date Collected | : 08/07/23 09:50 |
| Client ID | : GW-6 | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 04:20 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N21 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|------------|----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | 0.95 | 2.5 | 0.70 | J |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 14 | 0.50 | 0.18 | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 542-75-6 | 1,3-Dichloropropene, Total | ND | 0.50 | 0.14 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.5 | 0.70 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-01 | Date Collected | : 08/07/23 09:50 |
| Client ID | : GW-6 | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 04:20 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N21 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|-------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | 0.64 | 0.50 | 0.18 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 1330-20-7 | Xylenes, Total | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 540-59-0 | 1,2-Dichloroethene, Total | ND | 2.5 | 0.70 | U |
| 74-95-3 | Dibromomethane | ND | 5.0 | 1.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.5 | 0.70 | U |
| 107-13-1 | Acrylonitrile | ND | 5.0 | 1.5 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-05-4 | Vinyl acetate | ND | 5.0 | 1.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-01 | Date Collected | : 08/07/23 09:50 |
| Client ID | : GW-6 | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 04:20 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N21 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.5 | 0.70 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.5 | 0.70 | U |
| 108-86-1 | Bromobenzene | ND | 2.5 | 0.70 | U |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 | 0.70 | U |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U |
| 95-49-8 | o-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 106-43-4 | p-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U |
| 103-65-1 | n-Propylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |
| 105-05-5 | p-Diethylbenzene | ND | 2.0 | 0.70 | U |
| 622-96-8 | p-Ethyltoluene | ND | 2.0 | 0.70 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | ND | 2.0 | 0.54 | U |
| 60-29-7 | Ethyl ether | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-01 | Date Collected | : 08/07/23 09:50 |
| Client ID | : GW-6 | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 04:20 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N21 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | | Qualifier |
|----------|-----------------------------|---------|-----|------|---|-----------|
| | | Results | RL | MDL | | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.5 | 0.70 | U | UJ |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-02D | Date Collected | : 08/07/23 11:00 |
| Client ID | : GW-2R | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 03:54 |
| Sample Matrix | : WATER | Dilution Factor | : 2 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N20 | Instrument ID | : VOA101 |
| Sample Amount | : 5 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|------------|----------------------------|---------|-----|------|--------------------------------------|
| | | Results | RL | MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 5.0 | 1.4 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 1.4 | U |
| 67-66-3 | Chloroform | ND | 5.0 | 1.4 | U |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.27 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.0 | 0.27 | U |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.30 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 3.0 | 1.0 | U |
| 127-18-4 | Tetrachloroethene | 720 | 1.0 | 0.36 | E J |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 1.4 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 1.4 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.26 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 1.4 | U |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.38 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.33 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.29 | U |
| 542-75-6 | 1,3-Dichloropropene, Total | ND | 1.0 | 0.29 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 1.4 | U |
| 75-25-2 | Bromoform | ND | 4.0 | 1.3 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.33 | U |
| 71-43-2 | Benzene | ND | 1.0 | 0.32 | U |
| 108-88-3 | Toluene | ND | 5.0 | 1.4 | U |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 1.4 | U |
| 74-87-3 | Chloromethane | ND | 5.0 | 1.4 | U |
| 74-83-9 | Bromomethane | ND | 5.0 | 1.4 | U |
| 75-01-4 | Vinyl chloride | 0.15 | 2.0 | 0.14 | J J |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-02D | Date Collected | : 08/07/23 11:00 |
| Client ID | : GW-2R | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 03:54 |
| Sample Matrix | : WATER | Dilution Factor | : 2 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N20 | Instrument ID | : VOA101 |
| Sample Amount | : 5 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|-------------|---------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-00-3 | Chloroethane | ND | 5.0 | 1.4 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.34 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | 1.4 | U |
| 79-01-6 | Trichloroethene | 49 | 1.0 | 0.35 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 1.4 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 1.4 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 1.4 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 5.0 | 1.4 | U |
| 179601-23-1 | p/m-Xylene | ND | 5.0 | 1.4 | U |
| 95-47-6 | o-Xylene | ND | 5.0 | 1.4 | U |
| 1330-20-7 | Xylenes, Total | ND | 5.0 | 1.4 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | 1.4 | U |
| 540-59-0 | 1,2-Dichloroethene, Total | ND | 5.0 | 1.4 | U |
| 74-95-3 | Dibromomethane | ND | 10 | 2.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 1.4 | U |
| 107-13-1 | Acrylonitrile | ND | 10 | 3.0 | U |
| 100-42-5 | Styrene | ND | 5.0 | 1.4 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 10 | 2.0 | U |
| 67-64-1 | Acetone | ND | 10 | 2.9 | U |
| 75-15-0 | Carbon disulfide | ND | 10 | 2.0 | U |
| 78-93-3 | 2-Butanone | ND | 10 | 3.9 | U |
| 108-05-4 | Vinyl acetate | ND | 10 | 2.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 10 | 2.0 | U |
| 591-78-6 | 2-Hexanone | ND | 10 | 2.0 | U |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 1.4 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-02D | Date Collected | : 08/07/23 11:00 |
| Client ID | : GW-2R | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 03:54 |
| Sample Matrix | : WATER | Dilution Factor | : 2 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N20 | Instrument ID | : VOA101 |
| Sample Amount | : 5 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|----------|-----------------------------|---------|-----|-----|-----------|
| | | Results | RL | MDL | Qualifier |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 1.4 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 4.0 | 1.3 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 1.4 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 1.4 | U |
| 108-86-1 | Bromobenzene | ND | 5.0 | 1.4 | U |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 1.4 | U |
| 135-98-8 | sec-Butylbenzene | 2.7 | 5.0 | 1.4 | J |
| 98-06-6 | tert-Butylbenzene | 2.8 | 5.0 | 1.4 | J |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 1.4 | U |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 1.4 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | 1.4 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 1.4 | U |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 1.4 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 1.4 | U |
| 91-20-3 | Naphthalene | ND | 5.0 | 1.4 | U |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 1.4 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 1.4 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 1.4 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.0 | 1.4 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.0 | 1.4 | U |
| 123-91-1 | 1,4-Dioxane | ND | 500 | 120 | U |
| 105-05-5 | p-Diethylbenzene | ND | 4.0 | 1.4 | U |
| 622-96-8 | p-Ethyltoluene | ND | 4.0 | 1.4 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | ND | 4.0 | 1.1 | U |
| 60-29-7 | Ethyl ether | ND | 5.0 | 1.4 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-02D | Date Collected | : 08/07/23 11:00 |
| Client ID | : GW-2R | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 03:54 |
| Sample Matrix | : WATER | Dilution Factor | : 2 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N20 | Instrument ID | : VOA101 |
| Sample Amount | : 5 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | | Qualifier |
|----------|-----------------------------|---------|-----|-----|---|-----------|
| | | Results | RL | MDL | | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.0 | 1.4 | U | UJ |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-02D2 | Date Collected | : 08/07/23 11:00 |
| Client ID | : GW-2R | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/15/23 21:12 |
| Sample Matrix | : WATER | Dilution Factor | : 10 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V08230815N10 | Instrument ID | : VOA108 |
| Sample Amount | : 1 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|-------------------|---------|-----|-----|-----------|
| | | Results | RL | MDL | |
| 127-18-4 | Tetrachloroethene | 650 | 5.0 | 1.8 | |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-03 | Date Collected | : 08/07/23 12:10 |
| Client ID | : GW-5 | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 03:27 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N19 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|------------|----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | 1.0 | 2.5 | 0.70 | J |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 110 | 0.50 | 0.18 | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 542-75-6 | 1,3-Dichloropropene, Total | ND | 0.50 | 0.14 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.5 | 0.70 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-03 | Date Collected | : 08/07/23 12:10 |
| Client ID | : GW-5 | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 03:27 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N19 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|-------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | 2.4 | 0.50 | 0.18 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 1330-20-7 | Xylenes, Total | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 540-59-0 | 1,2-Dichloroethene, Total | ND | 2.5 | 0.70 | U |
| 74-95-3 | Dibromomethane | ND | 5.0 | 1.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.5 | 0.70 | U |
| 107-13-1 | Acrylonitrile | ND | 5.0 | 1.5 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-05-4 | Vinyl acetate | ND | 5.0 | 1.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-03 | Date Collected | : 08/07/23 12:10 |
| Client ID | : GW-5 | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 03:27 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N19 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.5 | 0.70 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.5 | 0.70 | U |
| 108-86-1 | Bromobenzene | ND | 2.5 | 0.70 | U |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U |
| 135-98-8 | sec-Butylbenzene | 1.0 | 2.5 | 0.70 | J |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U |
| 95-49-8 | o-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 106-43-4 | p-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | 2.3 | 2.5 | 0.70 | J |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U |
| 103-65-1 | n-Propylbenzene | 2.3 | 2.5 | 0.70 | J |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 3.5 | 2.5 | 0.70 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 6.9 | 2.5 | 0.70 | |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |
| 105-05-5 | p-Diethylbenzene | ND | 2.0 | 0.70 | U |
| 622-96-8 | p-Ethyltoluene | 3.6 | 2.0 | 0.70 | |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | ND | 2.0 | 0.54 | U |
| 60-29-7 | Ethyl ether | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-03 | Date Collected | : 08/07/23 12:10 |
| Client ID | : GW-5 | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 03:27 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N19 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | | Qualifier |
|----------|-----------------------------|---------|-----|------|---|-----------|
| | | Results | RL | MDL | | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.5 | 0.70 | U | UJ |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-04D | Date Collected | : 08/07/23 00:00 |
| Client ID | : DUP | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 03:01 |
| Sample Matrix | : WATER | Dilution Factor | : 2 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N18 | Instrument ID | : VOA101 |
| Sample Amount | : 5 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|------------|----------------------------|---------|-----|------|--------------------------------------|
| | | Results | RL | MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 5.0 | 1.4 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 1.4 | U |
| 67-66-3 | Chloroform | ND | 5.0 | 1.4 | U |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.27 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.0 | 0.27 | U |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.30 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 3.0 | 1.0 | U |
| 127-18-4 | Tetrachloroethene | 710 | 1.0 | 0.36 | E J |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 1.4 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 1.4 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.26 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 1.4 | U |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.38 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.33 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.29 | U |
| 542-75-6 | 1,3-Dichloropropene, Total | ND | 1.0 | 0.29 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 1.4 | U |
| 75-25-2 | Bromoform | ND | 4.0 | 1.3 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.33 | U |
| 71-43-2 | Benzene | ND | 1.0 | 0.32 | U |
| 108-88-3 | Toluene | ND | 5.0 | 1.4 | U |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 1.4 | U |
| 74-87-3 | Chloromethane | ND | 5.0 | 1.4 | U |
| 74-83-9 | Bromomethane | ND | 5.0 | 1.4 | U |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.14 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-04D | Date Collected | : 08/07/23 00:00 |
| Client ID | : DUP | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 03:01 |
| Sample Matrix | : WATER | Dilution Factor | : 2 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N18 | Instrument ID | : VOA101 |
| Sample Amount | : 5 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|-------------|---------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-00-3 | Chloroethane | ND | 5.0 | 1.4 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.34 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | 1.4 | U |
| 79-01-6 | Trichloroethene | 48 | 1.0 | 0.35 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 1.4 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 1.4 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 1.4 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 5.0 | 1.4 | U |
| 179601-23-1 | p/m-Xylene | ND | 5.0 | 1.4 | U |
| 95-47-6 | o-Xylene | ND | 5.0 | 1.4 | U |
| 1330-20-7 | Xylenes, Total | ND | 5.0 | 1.4 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | 1.4 | U |
| 540-59-0 | 1,2-Dichloroethene, Total | ND | 5.0 | 1.4 | U |
| 74-95-3 | Dibromomethane | ND | 10 | 2.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 1.4 | U |
| 107-13-1 | Acrylonitrile | ND | 10 | 3.0 | U |
| 100-42-5 | Styrene | ND | 5.0 | 1.4 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 10 | 2.0 | U |
| 67-64-1 | Acetone | ND | 10 | 2.9 | U |
| 75-15-0 | Carbon disulfide | ND | 10 | 2.0 | U |
| 78-93-3 | 2-Butanone | ND | 10 | 3.9 | U |
| 108-05-4 | Vinyl acetate | ND | 10 | 2.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 10 | 2.0 | U |
| 591-78-6 | 2-Hexanone | ND | 10 | 2.0 | U |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 1.4 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-04D | Date Collected | : 08/07/23 00:00 |
| Client ID | : DUP | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 03:01 |
| Sample Matrix | : WATER | Dilution Factor | : 2 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N18 | Instrument ID | : VOA101 |
| Sample Amount | : 5 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|----------|-----------------------------|---------|-----|-----|-----------|
| | | Results | RL | MDL | Qualifier |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 1.4 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 4.0 | 1.3 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 1.4 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 1.4 | U |
| 108-86-1 | Bromobenzene | ND | 5.0 | 1.4 | U |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 1.4 | U |
| 135-98-8 | sec-Butylbenzene | 2.6 | 5.0 | 1.4 | J |
| 98-06-6 | tert-Butylbenzene | 2.7 | 5.0 | 1.4 | J |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 1.4 | U |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 1.4 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | 1.4 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 1.4 | U |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 1.4 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 1.4 | U |
| 91-20-3 | Naphthalene | ND | 5.0 | 1.4 | U |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 1.4 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 1.4 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 1.4 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.0 | 1.4 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.0 | 1.4 | U |
| 123-91-1 | 1,4-Dioxane | ND | 500 | 120 | U |
| 105-05-5 | p-Diethylbenzene | ND | 4.0 | 1.4 | U |
| 622-96-8 | p-Ethyltoluene | ND | 4.0 | 1.4 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | ND | 4.0 | 1.1 | U |
| 60-29-7 | Ethyl ether | ND | 5.0 | 1.4 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-04D | Date Collected | : 08/07/23 00:00 |
| Client ID | : DUP | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 03:01 |
| Sample Matrix | : WATER | Dilution Factor | : 2 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N18 | Instrument ID | : VOA101 |
| Sample Amount | : 5 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | | Qualifier |
|----------|-----------------------------|---------|-----|-----|---|-----------|
| | | Results | RL | MDL | | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.0 | 1.4 | U | UJ |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-04D2 | Date Collected | : 08/07/23 00:00 |
| Client ID | : DUP | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/15/23 21:34 |
| Sample Matrix | : WATER | Dilution Factor | : 10 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V08230815N11 | Instrument ID | : VOA108 |
| Sample Amount | : 1 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|-------------------|---------|-----|-----|-----------|
| | | Results | RL | MDL | |
| 127-18-4 | Tetrachloroethene | 660 | 5.0 | 1.8 | |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-05 | Date Collected | : 08/07/23 13:30 |
| Client ID | : FB | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 02:34 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N17 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|------------|----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 542-75-6 | 1,3-Dichloropropene, Total | ND | 0.50 | 0.14 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.5 | 0.70 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-05 | Date Collected | : 08/07/23 13:30 |
| Client ID | : FB | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 02:34 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N17 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|-------------|---------------------------|---------|------|------|--------------------------------------|
| | | Results | RL | MDL | Qualifier |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | ND | 0.50 | 0.18 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 1330-20-7 | Xylenes, Total | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 540-59-0 | 1,2-Dichloroethene, Total | ND | 2.5 | 0.70 | U |
| 74-95-3 | Dibromomethane | ND | 5.0 | 1.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.5 | 0.70 | U |
| 107-13-1 | Acrylonitrile | ND | 5.0 | 1.5 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | 2.0 | 5.0 | 1.5 | J J |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-05-4 | Vinyl acetate | ND | 5.0 | 1.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-05 | Date Collected | : 08/07/23 13:30 |
| Client ID | : FB | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 02:34 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N17 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.5 | 0.70 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.5 | 0.70 | U |
| 108-86-1 | Bromobenzene | ND | 2.5 | 0.70 | U |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 | 0.70 | U |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U |
| 95-49-8 | o-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 106-43-4 | p-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U |
| 103-65-1 | n-Propylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |
| 105-05-5 | p-Diethylbenzene | ND | 2.0 | 0.70 | U |
| 622-96-8 | p-Ethyltoluene | ND | 2.0 | 0.70 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | ND | 2.0 | 0.54 | U |
| 60-29-7 | Ethyl ether | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-05 | Date Collected | : 08/07/23 13:30 |
| Client ID | : FB | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 02:34 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N17 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | | Qualifier |
|----------|-----------------------------|---------|-----|------|---|-----------|
| | | Results | RL | MDL | | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.5 | 0.70 | U | UJ |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-06 | Date Collected | : 08/07/23 00:00 |
| Client ID | : TB | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 02:08 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N16 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|------------|----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 542-75-6 | 1,3-Dichloropropene, Total | ND | 0.50 | 0.14 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.5 | 0.70 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-06 | Date Collected | : 08/07/23 00:00 |
| Client ID | : TB | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 02:08 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N16 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|-------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | ND | 0.50 | 0.18 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 1330-20-7 | Xylenes, Total | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 540-59-0 | 1,2-Dichloroethene, Total | ND | 2.5 | 0.70 | U |
| 74-95-3 | Dibromomethane | ND | 5.0 | 1.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.5 | 0.70 | U |
| 107-13-1 | Acrylonitrile | ND | 5.0 | 1.5 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-05-4 | Vinyl acetate | ND | 5.0 | 1.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-06 | Date Collected | : 08/07/23 00:00 |
| Client ID | : TB | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 02:08 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N16 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | |
|----------|-----------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | Qualifier |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.5 | 0.70 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.5 | 0.70 | U |
| 108-86-1 | Bromobenzene | ND | 2.5 | 0.70 | U |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 | 0.70 | U |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U |
| 95-49-8 | o-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 106-43-4 | p-Chlorotoluene | ND | 2.5 | 0.70 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U |
| 103-65-1 | n-Propylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.5 | 0.70 | U |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |
| 105-05-5 | p-Diethylbenzene | ND | 2.0 | 0.70 | U |
| 622-96-8 | p-Ethyltoluene | ND | 2.0 | 0.70 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | ND | 2.0 | 0.54 | U |
| 60-29-7 | Ethyl ether | ND | 2.5 | 0.70 | U |

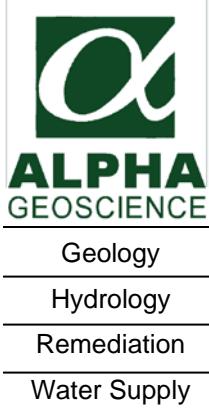


Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|---------------------------------------|------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Lab ID | : L2345491-06 | Date Collected | : 08/07/23 00:00 |
| Client ID | : TB | Date Received | : 08/07/23 |
| Sample Location | : QUEENS, NY | Date Analyzed | : 08/12/23 02:08 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MKS |
| Lab File ID | : V01230811N16 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | | Qualifier |
|----------|-----------------------------|---------|-----|------|---|-----------|
| | | Results | RL | MDL | | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.5 | 0.70 | U | UJ |

VOC Data Section



**QA/QC Review of Method 8260C Volatiles Data
for Alpha Analytical, SDG Number: L2345491**

**3 Ground Water Samples, 1 Field Duplicate,
1 Field Blank, and 1 Trip Blank
Collected August 7, 2023**

Prepared by: Donald Anné
January 25, 2024

Holding Times: The samples were analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The average RRFs for bromomethane, acetone, 4-methyl-2-pentanone, and 1,1,2-trichloroethane were below the method minimums, but not below 0.010 for VOA101 on 07-27-23. No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no average RRF is less than 0.010.

The average RRFs for target compounds were above the allowable minimum (0.001 for 1,4-dioxane, 0.010 for all other compounds) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The average RRFs for acetone, 2-butanone, 4-methyl-2-pentanone, and 1,1,2-trichloroethane were below the method minimums, but not below 0.010 on 08-11-23 (V01230811N02). The %Ds for 10 compounds (highlighted yellow on attached Form 7) were above the method maximum on 08-11-23 (V01230811N02). No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no RRF is less than 0.010.

The RRF for target compounds were above the allowable minimum (0.001 for 1,4-dioxane, 0.010 for all other compounds), as required.

The %Ds for 10 compounds (highlighted yellow on attached Form 7), ethyl ether, and trans-1,4-dichloro-2-butene were above the allowable maximum (20%) on 08-11-23 (V01230811N02). Positive results for these compounds should be considered estimated (J) in associated samples.

Blanks: The analyses of the method and trip blanks reported target compounds as not detected. Field blank FB contained a trace of acetone (2.0 ug/L). Positive results for acetone that are less than 10 times the highest blank level should be reported as not detected (U) in associated samples.

Surrogate Recovery: The surrogate recoveries were within control limits for the ground water samples, field blank, and trip blank.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Laboratory Control Sample: The relative percent differences (RPDs) for target compounds were below the allowable maximum and the percent recoveries (%Rs) were within QC limits for aqueous samples WG1816898-3/4.

The RPDs for target compounds were below the allowable maximum, but 2 of 2 %Rs for bromomethane were above QC limits for aqueous samples WG1816118-3/4. Positive results for bromomethane should be considered estimated, biased high (J+) in associated aqueous samples.

One of two %Rs for trans-1,4-dichloro-2-butene was below QC limits, but not below 30% for aqueous samples WG1816118-3/4. Positive results for trans-1,4-dichloro-2-butene should be considered estimated, biased low (J-) and “not detected” results estimated (UJ) in associated aqueous samples.

Field Duplicates: The relative percent differences for trichloroethene and tetrachloroethene were below the allowable maximum (20%) for aqueous field duplicate pair GW-2R/DUP (attached table), as required.

Compound ID: Checked compounds and surrogates were within GC/MS quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

The results for tetrachloroethene in samples GW-2R and DUP were quantitated by extrapolating data above the highest calibration standard and marked ‘E’ by the laboratory. The samples were diluted by the laboratory and re-analyzed; therefore, the results that are flagged as ‘E’ in the undiluted samples should be considered estimated (J). The use of the diluted results for tetrachloroethene is recommended for samples GW-2r and DUP. It is recommended that the undiluted results be used for all other compounds.

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Environmental Compliance & Control, Lab Number : L2345491
Project Name : BRIDGE CLEANERS Project Number : BRIDGE CLEANERS
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1816118-3 Analysis Date : 08/11/23 19:58 File ID : V01230811N02
LCSD Sample ID : WG1816118-4 Analysis Date : 08/11/23 20:24 File ID : V01230811N03

| Parameter | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---------------------------|---------------------------|-----------------|-------|------------------------------|-----------------|-------|-----|--------------------|--------------|
| | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | RPD | Recovery Limits | RPD Limit |
| Methylene chloride | 10 | 10 | 100 | 10 | 9.7 | 97 | 3 | 70-130 | 20 |
| 1,1-Dichloroethane | 10 | 9.9 | 99 | 10 | 9.7 | 97 | 2 | 70-130 | 20 |
| Chloroform | 10 | 10 | 100 | 10 | 9.9 | 99 | 1 | 70-130 | 20 |
| Carbon tetrachloride | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 63-132 | 20 |
| 1,2-Dichloropropane | 10 | 9.6 | 96 | 10 | 9.4 | 94 | 2 | 70-130 | 20 |
| Dibromochloromethane | 10 | 8.9 | 89 | 10 | 9.0 | 90 | 1 | 63-130 | 20 |
| 1,1,2-Trichloroethane | 10 | 8.9 | 89 | 10 | 8.8 | 88 | 1 | 70-130 | 20 |
| Tetrachloroethene | 10 | 10 | 100 | 10 | 9.8 | 98 | 2 | 70-130 | 20 |
| Chlorobenzene | 10 | 9.8 | 98 | 10 | 9.7 | 97 | 1 | 75-130 | 20 |
| Trichlorofluoromethane | 10 | 8.4 | 84 | 10 | 8.2 | 82 | 2 | 62-150 | 20 |
| 1,2-Dichloroethane | 10 | 9.1 | 91 | 10 | 8.9 | 89 | 2 | 70-130 | 20 |
| 1,1,1-Trichloroethane | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 67-130 | 20 |
| Bromodichloromethane | 10 | 9.8 | 98 | 10 | 9.7 | 97 | 1 | 67-130 | 20 |
| trans-1,3-Dichloropropene | 10 | 9.1 | 91 | 10 | 8.9 | 89 | 2 | 70-130 | 20 |
| cis-1,3-Dichloropropene | 10 | 10 | 100 | 10 | 9.9 | 99 | 1 | 70-130 | 20 |
| 1,1-Dichloropropene | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |
| Bromoform | 10 | 8.6 | 86 | 10 | 8.5 | 85 | 1 | 54-136 | 20 |
| 1,1,2,2-Tetrachloroethane | 10 | 9.4 | 94 | 10 | 9.2 | 92 | 2 | 67-130 | 20 |
| Benzene | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |
| Toluene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| Ethylbenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| Chloromethane | 10 | 9.1 | 91 | 10 | 8.7 | 87 | 4 | 64-130 | 20 |
| Bromomethane | 10 | 14 | 140 Q | 10 | 14 | 140 Q | 0 | 39-139 | 20 |
| Vinyl chloride | 10 | 7.8 | 78 | 10 | 7.5 | 75 | 4 | 55-140 | 20 |
| Chloroethane | 10 | 6.7 | 67 | 10 | 6.2 | 62 | 8 | 55-138 | 20 |
| 1,1-Dichloroethene | 10 | 7.8 | 78 | 10 | 7.6 | 76 | 3 | 61-145 | 20 |



Laboratory Control Sample Summary
Form 3
Volatiles

Client : Environmental Compliance & Control,
 Project Name : BRIDGE CLEANERS
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : **WG1816118-3** Analysis Date : 08/11/23 19:58 File ID : V01230811N02
 LCSD Sample ID : **WG1816118-4** Analysis Date : 08/11/23 20:24 File ID : V01230811N03

| Parameter | Laboratory Control Sample | | | Laboratory Control Duplicate | | | RPD | Recovery Limits | RPD Limit |
|---------------------------|---------------------------|--------------|-----|------------------------------|--------------|-----|-----|-----------------|-----------|
| | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | | | |
| trans-1,2-Dichloroethene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| Trichloroethene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| 1,2-Dichlorobenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| 1,3-Dichlorobenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| 1,4-Dichlorobenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| Methyl tert butyl ether | 10 | 9.5 | 95 | 10 | 9.3 | 93 | 2 | 63-130 | 20 |
| p/m-Xylene | 20 | 21 | 105 | 20 | 20 | 100 | 5 | 70-130 | 20 |
| o-Xylene | 20 | 20 | 100 | 20 | 20 | 100 | 0 | 70-130 | 20 |
| cis-1,2-Dichloroethene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| Dibromomethane | 10 | 9.8 | 98 | 10 | 9.6 | 96 | 2 | 70-130 | 20 |
| 1,2,3-Trichloropropane | 10 | 8.4 | 84 | 10 | 8.3 | 83 | 1 | 64-130 | 20 |
| Acrylonitrile | 10 | 8.6 | 86 | 10 | 8.4 | 84 | 2 | 70-130 | 20 |
| Styrene | 20 | 20 | 100 | 20 | 20 | 100 | 0 | 70-130 | 20 |
| Dichlorodifluoromethane | 10 | 9.5 | 95 | 10 | 9.3 | 93 | 2 | 36-147 | 20 |
| Acetone | 10 | 7.3 | 73 | 10 | 8.2 | 82 | 12 | 58-148 | 20 |
| Carbon disulfide | 10 | 7.0 | 70 | 10 | 7.3 | 73 | 4 | 51-130 | 20 |
| 2-Butanone | 10 | 7.7 | 77 | 10 | 7.8 | 78 | 1 | 63-138 | 20 |
| Vinyl acetate | 10 | 10 | 100 | 10 | 9.7 | 97 | 3 | 70-130 | 20 |
| 4-Methyl-2-pentanone | 10 | 7.1 | 71 | 10 | 7.5 | 75 | 5 | 59-130 | 20 |
| 2-Hexanone | 10 | 6.9 | 69 | 10 | 7.1 | 71 | 3 | 57-130 | 20 |
| Bromochloromethane | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| 2,2-Dichloropropane | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 63-133 | 20 |
| 1,2-Dibromoethane | 10 | 8.9 | 89 | 10 | 8.8 | 88 | 1 | 70-130 | 20 |
| 1,3-Dichloropropane | 10 | 9.0 | 90 | 10 | 9.0 | 90 | 0 | 70-130 | 20 |
| 1,1,1,2-Tetrachloroethane | 10 | 9.6 | 96 | 10 | 9.5 | 95 | 1 | 64-130 | 20 |
| Bromobenzene | 10 | 9.9 | 99 | 10 | 9.8 | 98 | 1 | 70-130 | 20 |



Laboratory Control Sample Summary
Form 3
Volatiles

Client : Environmental Compliance & Control, Lab Number : L2345491
Project Name : BRIDGE CLEANERS Project Number : BRIDGE CLEANERS
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1816118-3 Analysis Date : 08/11/23 19:58 File ID : V01230811N02
LCSD Sample ID : WG1816118-4 Analysis Date : 08/11/23 20:24 File ID : V01230811N03

| Parameter | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | RPD Limit |
|-----------------------------|---------------------------|-----------------|------|------------------------------|-----------------|-----|-----|--------------------|--------------|
| | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | RPD | Recovery Limits | |
| n-Butylbenzene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 53-136 | 20 |
| sec-Butylbenzene | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |
| tert-Butylbenzene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| o-Chlorotoluene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| p-Chlorotoluene | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |
| 1,2-Dibromo-3-chloropropane | 10 | 8.0 | 80 | 10 | 7.9 | 79 | 1 | 41-144 | 20 |
| Hexachlorobutadiene | 10 | 10 | 100 | 10 | 9.7 | 97 | 3 | 63-130 | 20 |
| Isopropylbenzene | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |
| p-Isopropyltoluene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| Naphthalene | 10 | 8.7 | 87 | 10 | 8.5 | 85 | 2 | 70-130 | 20 |
| n-Propylbenzene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 69-130 | 20 |
| 1,2,3-Trichlorobenzene | 10 | 8.3 | 83 | 10 | 7.9 | 79 | 5 | 70-130 | 20 |
| 1,2,4-Trichlorobenzene | 10 | 9.3 | 93 | 10 | 8.9 | 89 | 4 | 70-130 | 20 |
| 1,3,5-Trimethylbenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 64-130 | 20 |
| 1,2,4-Trimethylbenzene | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |
| 1,4-Dioxane | 500 | 500 | 100 | 500 | 450 | 90 | 11 | 56-162 | 20 |
| p-Diethylbenzene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| p-Ethyltoluene | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |
| 1,2,4,5-Tetramethylbenzene | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |
| Ethyl ether | 10 | 6.4 | 64 | 10 | 6.3 | 63 | 2 | 59-134 | 20 |
| trans-1,4-Dichloro-2-butene | 10 | 6.9 | 69 Q | 10 | 7.1 | 71 | 3 | 70-130 | 20 |



Initial Calibration Summary

Form 6

Volatile

Client : Environmental Compliance & Control,
Project Name : BRIDGE CLEANERS
Instrument ID : VOA101
Calibration dates : 07/27/23 17:16 07/27/23 21:43

Lab Number : L2345491
Project Number : BRIDGE CLEANERS
Ical Ref : ICAL20213

Calibration Files

```
L11 =V01230727N03.D L1 =V01230727N05.D L2 =V01230727N07.D L3 =V01230727N09.D L4 =V01230727N10.D
L6 =V01230727N11.D L8 =V01230727N12.D L10 =V01230727N13.D
```

| Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|--------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|-------|-------|--------|-------|
| -----ISTD----- | | | | | | | | | | |
| 1) I Fluorobenzene | | | | | | | | | | |
| 2) TP Dichlorodifluo | 0.225 | 0.325 | 0.347 | 0.344 | 0.346 | 0.354 | 0.348 | 0.327 | 14.07 | |
| 3) TP Chloromethane | 0.343 | 0.384 | 0.411 | 0.370 | 0.410 | 0.448 | 0.493 | 0.408 | 12.29 | |
| 4) TC Vinyl chloride | 0.319 | 0.258 | 0.392 | 0.383 | 0.360 | 0.425 | 0.457 | 0.474 | 0.383 | 18.69 |
| 5) TP Bromomethane | 0.066 | 0.059 | 0.058 | 0.071 | 0.120 | 0.159 | | *Q | 0.9999 | |
| 6) TP Chloroethane | 0.205 | 0.224 | 0.230 | 0.217 | 0.225 | 0.227 | 0.191 | 0.217 | 6.48 | |
| 7) TP Trichlorofluor | 0.290 | 0.386 | 0.411 | 0.388 | 0.417 | 0.436 | 0.442 | 0.396 | 12.95 | |
| 8) TP Ethyl ether | 0.130 | 0.130 | 0.133 | 0.120 | 0.140 | 0.141 | 0.148 | 0.135 | 6.77 | |
| 10) TC 1,1-Dichloroet | 0.192 | 0.234 | 0.245 | 0.222 | 0.254 | 0.265 | 0.272 | 0.241 | 11.49 | |
| 11) TP Carbon disulfide | 0.703 | 0.746 | 0.774 | 0.718 | 0.845 | 0.877 | 0.896 | 0.794 | 9.82 | |
| 12) TP Freon-113 | 0.195 | 0.256 | 0.268 | 0.249 | 0.278 | 0.291 | 0.296 | 0.262 | 12.96 | |
| 14) TP Acrolein | 0.047 | 0.039 | 0.038 | 0.034 | 0.042 | 0.040 | 0.040 | 0.040 | 10.05 | |
| 15) TP Methylene chlo | 0.335 | 0.285 | 0.263 | 0.236 | 0.259 | 0.258 | 0.253 | 0.270 | 11.92 | |
| 17) TP Acetone | 0.088 | 0.068 | 0.064 | 0.071 | 0.068 | 0.068 | 0.071 | | 11.99 | |
| 18) TP trans-1,2-Dich | 0.208 | 0.258 | 0.272 | 0.241 | 0.271 | 0.273 | 0.268 | 0.256 | 9.42 | |
| 19) TP Methyl acetate | 0.215 | 0.190 | 0.185 | 0.157 | 0.196 | 0.186 | 0.187 | 0.188 | 9.13 | |
| 20) TP Methyl tert butyl ether | 0.631 | 0.647 | 0.657 | 0.622 | 0.695 | 0.683 | 0.688 | 0.661 | 4.37 | |
| 21) TP tert-Butyl alc | 0.021 | 0.021 | 0.021 | 0.020 | 0.023 | 0.022 | 0.023 | 0.022 | 5.09 | |
| 22) TP Diisopropyl ether | 0.974 | 1.116 | 1.166 | 0.971 | 1.206 | 1.202 | 1.174 | 1.116 | 9.16 | |
| 23) TP 1,1-Dichloroet | 0.468 | 0.564 | 0.590 | 0.533 | 0.592 | 0.595 | 0.578 | 0.560 | 8.19 | |
| 24) TP Halothane | 0.156 | 0.206 | 0.214 | 0.187 | 0.217 | 0.218 | 0.214 | 0.202 | 11.31 | |
| 25) TP Acrylonitrile | 0.076 | 0.084 | 0.086 | 0.072 | 0.094 | 0.088 | 0.090 | 0.084 | 9.18 | |
| 26) TP Ethyl tert-but | 0.846 | 0.909 | 0.960 | 0.876 | 1.001 | 0.996 | 0.990 | 0.940 | 6.70 | |
| 27) TP Vinyl acetate | 0.376 | 0.406 | 0.346 | 0.357 | 0.358 | 0.313 | 0.293 | 0.350 | 10.78 | |
| 28) TP cis-1,2-Dichlo | 0.235 | 0.280 | 0.291 | 0.289 | 0.294 | 0.294 | 0.287 | 0.281 | 7.42 | |
| 29) TP 2,2-Dichloropr | 0.310 | 0.370 | 0.361 | 0.437 | 0.375 | 0.376 | 0.367 | 0.371 | 10.01 | |
| 30) TP Bromochloromet | 0.127 | 0.129 | 0.131 | 0.128 | 0.127 | 0.124 | 0.118 | 0.126 | 3.49 | |
| 31) TP Cyclohexane | 0.429 | 0.606 | 0.667 | 0.678 | 0.677 | 0.687 | 0.672 | 0.631 | 14.72 | |
| 32) TC Chloroform | 0.410 | 0.458 | 0.467 | 0.472 | 0.474 | 0.474 | 0.466 | 0.460 | 4.93 | |
| 33) TP Ethyl acetate | 0.229 | 0.235 | 0.240 | 0.251 | 0.259 | 0.244 | 0.245 | 0.243 | 4.03 | |
| 34) TP Carbon tetrachloride | 0.297 | 0.269 | 0.370 | 0.397 | 0.402 | 0.406 | 0.415 | 0.411 | 15.21 | |
| 35) TP Tetrahydrofuran | 0.062 | 0.073 | 0.072 | 0.075 | 0.077 | 0.072 | 0.074 | 0.072 | 6.53 | |
| 36) S Dibromofluoromethane | 0.275 | 0.283 | 0.287 | 0.294 | 0.295 | 0.302 | 0.302 | 0.299 | 3.30 | |
| 37) TP 1,1,1-Trichlor | 0.304 | 0.404 | 0.436 | 0.433 | 0.435 | 0.440 | 0.435 | 0.412 | 11.91 | |
| 39) TP 2-Butanone | 0.095 | 0.102 | 0.108 | 0.112 | 0.107 | 0.107 | 0.105 | | 5.65 | |
| 40) TP 1,1-Dichloropr | 0.283 | 0.358 | 0.387 | 0.397 | 0.398 | 0.402 | 0.397 | 0.374 | 11.52 | |



Initial Calibration Summary

Form 6

Volatile

Client : Environmental Compliance & Control,
Project Name : BRIDGE CLEANERS
Instrument ID : VOA101
Calibration dates : 07/27/23 17:16 07/27/23 21:43

Lab Number : L2345491
Project Number : BRIDGE CLEANERS
Ical Ref : ICAL20213

Calibration Files

```
L11 =V01230727N03.D L1 =V01230727N05.D L2 =V01230727N07.D L3 =V01230727N09.D L4 =V01230727N10.D
L6 =V01230727N11.D L8 =V01230727N12.D L10 =V01230727N13.D
```

| | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|-----|-------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 41) | TP Benzene | 0.906 | 0.849 | 1.033 | 1.082 | 1.086 | 1.083 | 1.082 | 1.060 | 1.023 | 9.05 |
| 42) | TP Tertiary-Amyl Methyl Ether | 0.592 | 0.648 | 0.682 | 0.695 | 0.722 | 0.713 | 0.713 | 0.681 | 6.82 | |
| 43) | S 1,2-Dichloroethane-d4 | 0.300 | 0.310 | 0.313 | 0.320 | 0.321 | 0.334 | 0.334 | 0.336 | 0.321 | 4.10 |
| 44) | TP 1,2-Dichloroet | 0.360 | 0.374 | 0.367 | 0.369 | 0.373 | 0.367 | 0.361 | 0.367 | 1.51 | |
| 47) | TP Methyl cyclohe | 0.300 | 0.432 | 0.466 | 0.480 | 0.479 | 0.482 | 0.475 | 0.445 | 14.89 | |
| 48) | TP Trichloroethene | 0.271 | 0.232 | 0.301 | 0.326 | 0.325 | 0.328 | 0.332 | 0.325 | 0.305 | 11.81 |
| 50) | TP Dibromomethane | 0.135 | 0.143 | 0.146 | 0.148 | 0.152 | 0.150 | 0.149 | 0.146 | 4.01 | |
| 51) | TC 1,2-Dichloropr | 0.259 | 0.320 | 0.319 | 0.325 | 0.328 | 0.334 | 0.325 | 0.316 | 8.09 | |
| 53) | TP 2-Chloroethyl | 0.101 | 0.118 | 0.133 | 0.147 | 0.146 | 0.140 | 0.136 | 0.131 | 12.56 | |
| 54) | TP Bromodichlorom | 0.296 | 0.332 | 0.348 | 0.358 | 0.366 | 0.373 | 0.367 | 0.349 | 7.75 | |
| 57) | TP 1,4-Dioxane | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002# | 8.60 | |
| 58) | TP cis-1,3-Dichlo | 0.331 | 0.382 | 0.411 | 0.428 | 0.440 | 0.445 | 0.436 | 0.410 | 9.99 | |
| 59) | I Chlorobenzene-d5 | | | | | | | | | | |
| 60) | S Toluene-d8 | 1.161 | 1.171 | 1.180 | 1.200 | 1.195 | 1.199 | 1.201 | 1.222 | 1.191 | 1.64 |
| 61) | TC Toluene | 0.573 | 0.710 | 0.732 | 0.739 | 0.733 | 0.733 | 0.734 | 0.708 | 8.49 | |
| 62) | TP 4-Methyl-2-pen | 0.081 | 0.092 | 0.098 | 0.103 | 0.099 | 0.102 | 0.096 | 0.096 | 8.58 | |
| 63) | TP Tetrachloroethene | 0.271 | 0.339 | 0.357 | 0.360 | 0.356 | 0.357 | 0.356 | 0.342 | 9.42 | |
| 65) | TP trans-1,3-Dich | 0.291 | 0.342 | 0.391 | 0.405 | 0.420 | 0.416 | 0.422 | 0.384 | 12.89 | |
| 67) | TP Ethyl methacry | 0.178 | 0.240 | 0.277 | 0.303 | 0.315 | 0.309 | 0.315 | 0.277 | 18.48 | |
| 68) | TP 1,1,2-Trichlor | 0.190 | 0.199 | 0.197 | 0.197 | 0.196 | 0.192 | 0.192 | 0.195# | 1.74 | |
| 69) | TP Chlorodibromom | 0.244 | 0.259 | 0.275 | 0.285 | 0.293 | 0.292 | 0.298 | 0.278 | 7.22 | |
| 70) | TP 1,3-Dichloropr | 0.349 | 0.393 | 0.403 | 0.404 | 0.410 | 0.401 | 0.405 | 0.395 | 5.32 | |
| 71) | TP 1,2-Dibromoethane | 0.208 | 0.219 | 0.232 | 0.235 | 0.243 | 0.237 | 0.242 | 0.231 | 5.54 | |
| 72) | TP 2-Hexanone | 0.129 | 0.154 | 0.174 | 0.186 | 0.178 | 0.183 | 0.167 | | 13.08 | |
| 73) | TP Chlorobenzene | 0.676 | 0.789 | 0.815 | 0.814 | 0.811 | 0.811 | 0.808 | 0.789 | 6.42 | |
| 74) | TC Ethylbenzene | 1.025 | 1.258 | 1.410 | 1.427 | 1.425 | 1.429 | 1.427 | 1.343 | 11.43 | |
| 75) | TP 1,1,1,2-Tetra | 0.248 | 0.287 | 0.302 | 0.306 | 0.309 | 0.312 | 0.313 | 0.297 | 7.78 | |
| 76) | TP p/m Xylene | 0.359 | 0.501 | 0.556 | 0.560 | 0.556 | 0.552 | 0.542 | 0.518 | 14.11 | |
| 77) | TP o Xylene | 0.388 | 0.481 | 0.524 | 0.533 | 0.522 | 0.520 | 0.509 | 0.497 | 10.27 | |
| 78) | TP Styrene | 0.579 | 0.756 | 0.864 | 0.875 | 0.876 | 0.872 | 0.854 | 0.811 | 13.65 | |
| 79) | I 1,4-Dichlorobenzene-d4 | | | | | | | | | | |
| 80) | TP Bromoform | 0.271 | 0.287 | 0.297 | 0.313 | 0.333 | 0.329 | 0.332 | 0.309 | 7.91 | |
| 82) | TP Isopropylbenzene | 1.604 | 2.105 | 2.335 | 2.388 | 2.432 | 2.472 | 2.445 | 2.254 | 13.85 | |
| 83) | S 4-Bromofluorobenzene | 0.845 | 0.841 | 0.825 | 0.830 | 0.820 | 0.828 | 0.840 | 0.834 | 0.833 | 1.06 |
| 84) | TP Bromobenzene | 0.513 | 0.594 | 0.594 | 0.594 | 0.600 | 0.605 | 0.596 | 0.585 | 5.46 | |
| 85) | TP n-Propylbenzene | 1.820 | 2.440 | 2.641 | 2.700 | 2.733 | 2.755 | 2.708 | 2.542 | 13.20 | |



Initial Calibration Summary
Form 6
Volatiles

| | | | |
|--------------------------|---------------------------------------|-----------------------|-------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Instrument ID | : VOA101 | Ical Ref | : ICAL20213 |
| Calibration dates | : 07/27/23 17:16 07/27/23 21:43 | | |

Calibration Files

```
L11 =V01230727N03.D L1 =V01230727N05.D L2 =V01230727N07.D L3 =V01230727N09.D L4 =V01230727N10.D
L6 =V01230727N11.D L8 =V01230727N12.D L10 =V01230727N13.D
```

| | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 86) | TP 1,4-Dichlorobutane | 0.749 | 0.794 | 0.828 | 0.830 | 0.852 | 0.834 | 0.831 | 0.817 | 4.24 | |
| 87) | TP 1,1,2,2-Tetrachloroethane | 0.453 | 0.439 | 0.411 | 0.413 | 0.420 | 0.396 | 0.394 | 0.418 | 5.15 | |
| 88) | TP 4-Ethyltoluene | 1.558 | 2.027 | 2.252 | 2.314 | 2.346 | 2.383 | 2.351 | 2.176 | 13.68 | |
| 89) | TP 2-Chlorotoluene | 1.275 | 1.524 | 1.612 | 1.598 | 1.610 | 1.636 | 1.602 | 1.551 | 8.16 | |
| 90) | TP 1,3,5-Trimethylbenzene | 1.372 | 1.715 | 1.893 | 1.928 | 1.965 | 1.982 | 1.956 | 1.830 | 12.10 | |
| 91) | TP 1,2,3-Trichloropropane | 0.372 | 0.358 | 0.360 | 0.357 | 0.371 | 0.358 | 0.358 | 0.362 | 1.87 | |
| 92) | TP trans-1,4-Dichloro-2-methylcyclohexene | 0.136 | 0.145 | 0.157 | 0.169 | 0.161 | 0.162 | 0.155 | 0.155 | 7.77 | |
| 93) | TP 4-Chlorotoluene | 1.166 | 1.475 | 1.598 | 1.631 | 1.654 | 1.676 | 1.653 | 1.550 | 11.76 | |
| 94) | TP tert-Butylbenzene | 1.021 | 1.399 | 1.532 | 1.586 | 1.615 | 1.637 | 1.613 | 1.486 | 14.83 | |
| 97) | TP 1,2,4-Trimethylbenzene | 1.227 | 1.655 | 1.826 | 1.867 | 1.905 | 1.937 | 1.901 | 1.760 | 14.36 | |
| 98) | TP sec-Butylbenzene | 1.429 | 1.972 | 2.177 | 2.263 | 2.331 | 2.362 | 2.314 | 2.121 | 15.68 | |
| 99) | TP p-Isopropyltoluene | 1.107 | 1.610 | 1.822 | 1.906 | 1.953 | 1.982 | 1.941 | 1.760 | 17.87 | |
| 100) | TP 1,3-Dichlorobutane | 0.859 | 1.011 | 1.044 | 1.059 | 1.072 | 1.081 | 1.047 | 1.025 | 7.47 | |
| 101) | TP 1,4-Dichlorobutene | 1.011 | 1.044 | 1.058 | 1.068 | 1.085 | 1.085 | 1.059 | 1.059 | 2.43 | |
| 102) | TP p-Diethylbenzene | 0.617 | 0.884 | 1.031 | 1.084 | 1.128 | 1.141 | 1.118 | 1.000 | 19.08 | |
| 103) | TP n-Butylbenzene | 0.853 | 1.229 | 1.401 | 1.477 | 1.547 | 1.559 | 1.541 | 1.373 | 18.71 | |
| 104) | TP 1,2-Dichlorobutene | 0.804 | 0.954 | 0.973 | 0.980 | 0.999 | 0.999 | 0.970 | 0.954 | 7.14 | |
| 105) | TP 1,2,4,5-Tetramethylbenzene | 0.944 | 1.235 | 1.487 | 1.609 | 1.693 | 1.729 | 1.703 | 1.486 | 19.83 | |
| 106) | TP 1,2-Dibromo-3-chloropropane | 0.048 | 0.061 | 0.065 | 0.070 | 0.076 | 0.075 | 0.075 | 0.067 | 14.96 | |
| 107) | TP 1,3,5-Trichloro-2-methylcyclohexene | 0.485 | 0.575 | 0.634 | 0.660 | 0.692 | 0.702 | 0.688 | 0.634 | 12.43 | |
| 108) | TP Hexachlorobutane | 0.156 | 0.211 | 0.217 | 0.231 | 0.252 | 0.258 | 0.256 | 0.226 | 16.09 | |
| 109) | TP 1,2,4-Trichlorobutene | 0.430 | 0.499 | 0.541 | 0.588 | 0.630 | 0.636 | 0.628 | 0.564 | 13.91 | |
| 110) | TP Naphthalene | 0.831 | 0.970 | 1.090 | 1.209 | 1.305 | 1.260 | 1.276 | 1.134 | 15.73 | |
| 111) | TP 1,2,3-Trichlorobutene | 0.391 | 0.447 | 0.468 | 0.502 | 0.532 | 0.530 | 0.526 | 0.485 | 10.88 | |



Calibration Verification Summary
Form 7
Volatiles

| | | | |
|---------------|---------------------------------------|----------------------|--------------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Instrument ID | : VOA101 | Calibration Date | : 08/11/23 19:58 |
| Lab File ID | : V01230811N02 | Init. Calib. Date(s) | : 07/27/23 07/27/23 |
| Sample No | : WG1816118-2 | Init. Calib. Times | : 17:16 21:43 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|--------------------------|----------|-------|---------|--------|--------|-------|----------|
| Fluorobenzene | 1 | 1 | - | 0 | 20 | 83 | 0 |
| Dichlorodifluoromethane | 0.327 | 0.31 | - | 5.2 | 20 | 74 | 0 |
| Chloromethane | 0.408 | 0.373 | - | 8.6 | 20 | 75 | 0 |
| Vinyl chloride | 0.383 | 0.3 | - | 21.7* | 20 | 65 | 0 |
| Bromomethane | 10 | 14.35 | - | -43.5* | 20 | 120 | 0 |
| Chloroethane | 0.217 | 0.146 | - | 32.7* | 20 | 53 | 0 |
| Trichlorofluoromethane | 0.396 | 0.332 | - | 16.2 | 20 | 67 | 0 |
| Ethyl ether | 0.135 | 0.086 | - | 36.3* | 20 | 54 | 0 |
| 1,1-Dichloroethene | 0.241 | 0.188 | - | 22* | 20 | 64 | 0 |
| Carbon disulfide | 0.794 | 0.554 | - | 30.2* | 20 | 59 | 0 |
| Freon-113 | 0.262 | 0.211 | - | 19.5 | 20 | 66 | 0 |
| Acrolein | 0.04 | 0.033 | - | 17.5 | 20 | 71 | 0 |
| Methylene chloride | 0.27 | 0.269 | - | 0.4 | 20 | 85 | 0 |
| Acetone | 0.071 | 0.052 | - | 26.8* | 20 | 63 | 0 |
| trans-1,2-Dichloroethene | 0.256 | 0.288 | - | -12.5 | 20 | 88 | 0 |
| Methyl acetate | 0.188 | 0.155 | - | 17.6 | 20 | 70 | 0 |
| Methyl tert-butyl ether | 0.661 | 0.627 | - | 5.1 | 20 | 79 | 0 |
| tert-Butyl alcohol | 0.022 | 0.017 | - | 22.7* | 20 | 67 | 0 |
| Diisopropyl ether | 1.116 | 1.054 | - | 5.6 | 20 | 75 | 0 |
| 1,1-Dichloroethane | 0.56 | 0.553 | - | 1.3 | 20 | 78 | 0 |
| Halothane | 0.202 | 0.232 | - | -14.9 | 20 | 90 | 0 |
| Acrylonitrile | 0.084 | 0.072 | - | 14.3 | 20 | 70 | 0 |
| Ethyl tert-butyl ether | 0.94 | 0.855 | - | 9 | 20 | 74 | 0 |
| Vinyl acetate | 0.35 | 0.354 | - | -1.1 | 20 | 85 | 0 |
| cis-1,2-Dichloroethene | 0.281 | 0.309 | - | -10 | 20 | 88 | 0 |
| 2,2-Dichloropropane | 0.371 | 0.4 | - | -7.8 | 20 | 92 | 0 |
| Bromochloromethane | 0.126 | 0.139 | - | -10.3 | 20 | 88 | 0 |
| Cyclohexane | 0.631 | 0.632 | - | -0.2 | 20 | 79 | 0 |
| Chloroform | 0.46 | 0.461 | - | -0.2 | 20 | 82 | 0 |
| Ethyl acetate | 0.243 | 0.198 | - | 18.5 | 20 | 68 | 0 |
| Carbon tetrachloride | 0.371 | 0.394 | - | -6.2 | 20 | 82 | 0 |
| Tetrahydrofuran | 0.072 | 0.052 | - | 27.8* | 20 | 60 | 0 |
| Dibromofluoromethane | 0.292 | 0.29 | - | 0.7 | 20 | 82 | 0 |
| 1,1,1-Trichloroethane | 0.412 | 0.428 | - | -3.9 | 20 | 82 | 0 |
| 2-Butanone | 0.105 | 0.081 | - | 22.9* | 20 | 66 | 0 |
| 1,1-Dichloropropene | 0.374 | 0.397 | - | -6.1 | 20 | 85 | 0 |
| Benzene | 1.023 | 1.106 | - | -8.1 | 20 | 85 | 0 |
| tert-Amyl methyl ether | 0.681 | 0.647 | - | 5 | 20 | 79 | 0 |
| 1,2-Dichloroethane-d4 | 0.321 | 0.291 | - | 9.3 | 20 | 76 | 0 |
| 1,2-Dichloroethane | 0.367 | 0.334 | - | 9 | 20 | 76 | 0 |
| Methyl cyclohexane | 0.445 | 0.501 | - | -12.6 | 20 | 89 | 0 |
| Trichloroethene | 0.305 | 0.323 | - | -5.9 | 20 | 82 | 0 |
| Dibromomethane | 0.146 | 0.144 | - | 1.4 | 20 | 82 | 0 |

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Volatiles

| | | | |
|---------------|---------------------------------------|----------------------|--------------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Instrument ID | : VOA101 | Calibration Date | : 08/11/23 19:58 |
| Lab File ID | : V01230811N02 | Init. Calib. Date(s) | : 07/27/23 07/27/23 |
| Sample No | : WG1816118-2 | Init. Calib. Times | : 17:16 21:43 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|------------------------------------|--------------|---------------|---------|--------------|--------|-------|----------|
| 1,2-Dichloropropane | 0.316 | 0.304 | - | 3.8 | 20 | 79 | 0 |
| Bromodichloromethane | 0.349 | 0.342 | - | 2 | 20 | 81 | 0 |
| 1,4-Dioxane | 0.00175 | 0.00173* | - | 1.1 | 20 | 85 | 0 |
| cis-1,3-Dichloropropene | 0.41 | 0.411 | - | -0.2 | 20 | 83 | 0 |
| Chlorobenzene-d5 | 1 | 1 | - | 0 | 20 | 91 | 0 |
| Toluene-d8 | 1.191 | 1.14 | - | 4.3 | 20 | 86 | 0 |
| Toluene | 0.708 | 0.717 | - | -1.3 | 20 | 89 | 0 |
| 4-Methyl-2-pentanone | 0.096 | 0.068 | - | 29.2* | 20 | 67 | 0 |
| Tetrachloroethene | 0.342 | 0.341 | - | 0.3 | 20 | 87 | 0 |
| trans-1,3-Dichloropropene | 0.384 | 0.35 | - | 8.9 | 20 | 81 | 0 |
| Ethyl methacrylate | 0.277 | 0.241 | - | 13 | 20 | 79 | 0 |
| 1,1,2-Trichloroethane | 0.195 | 0.174* | - | 10.8 | 20 | 80 | 0 |
| Chlorodibromomethane | 0.278 | 0.248 | - | 10.8 | 20 | 82 | 0 |
| 1,3-Dichloropropane | 0.395 | 0.358 | - | 9.4 | 20 | 81 | 0 |
| 1,2-Dibromoethane | 0.231 | 0.206 | - | 10.8 | 20 | 81 | 0 |
| 2-Hexanone | 0.167 | 0.115 | - | 31.1* | 20 | 68 | 0 |
| Chlorobenzene | 0.789 | 0.777 | - | 1.5 | 20 | 87 | 0 |
| Ethylbenzene | 1.343 | 1.362 | - | -1.4 | 20 | 88 | 0 |
| 1,1,1,2-Tetrachloroethane | 0.297 | 0.284 | - | 4.4 | 20 | 85 | 0 |
| p/m Xylene | 0.518 | 0.536 | - | -3.5 | 20 | 87 | 0 |
| o Xylene | 0.497 | 0.506 | - | -1.8 | 20 | 88 | 0 |
| Styrene | 0.811 | 0.827 | - | -2 | 20 | 87 | 0 |
| 1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 85 | 0 |
| Bromoform | 0.309 | 0.265 | - | 14.2 | 20 | 76 | 0 |
| Isopropylbenzene | 2.254 | 2.434 | - | -8 | 20 | 89 | 0 |
| 4-Bromofluorobenzene | 0.833 | 0.852 | - | -2.3 | 20 | 87 | 0 |
| Bromobenzene | 0.585 | 0.582 | - | 0.5 | 20 | 83 | 0 |
| n-Propylbenzene | 2.542 | 2.783 | - | -9.5 | 20 | 90 | 0 |
| 1,4-Dichlorobutane | 0.817 | 0.695 | - | 14.9 | 20 | 71 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.418 | 0.395 | - | 5.5 | 20 | 82 | 0 |
| 4-Ethyltoluene | 2.176 | 2.332 | - | -7.2 | 20 | 88 | 0 |
| 2-Chlorotoluene | 1.551 | 1.608 | - | -3.7 | 20 | 85 | 0 |
| 1,3,5-Trimethylbenzene | 1.83 | 1.936 | - | -5.8 | 20 | 87 | 0 |
| 1,2,3-Trichloropropane | 0.362 | 0.306 | - | 15.5 | 20 | 72 | 0 |
| trans-1,4-Dichloro-2-butene | 0.155 | 0.107 | - | 31* | 20 | 62 | 0 |
| 4-Chlorotoluene | 1.55 | 1.663 | - | -7.3 | 20 | 89 | 0 |
| tert-Butylbenzene | 1.486 | 1.656 | - | -11.4 | 20 | 92 | 0 |
| 1,2,4-Trimethylbenzene | 1.76 | 1.875 | - | -6.5 | 20 | 87 | 0 |
| sec-Butylbenzene | 2.121 | 2.33 | - | -9.9 | 20 | 91 | 0 |
| p-Isopropyltoluene | 1.76 | 1.983 | - | -12.7 | 20 | 93 | 0 |
| 1,3-Dichlorobenzene | 1.025 | 1.08 | - | -5.4 | 20 | 88 | 0 |
| 1,4-Dichlorobenzene | 1.059 | 1.083 | - | -2.3 | 20 | 87 | 0 |
| p-Diethylbenzene | 1 | 1.125 | - | -12.5 | 20 | 93 | 0 |

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Volatiles

| | | | |
|---------------|---------------------------------------|----------------------|--------------------------|
| Client | : Environmental Compliance & Control, | Lab Number | : L2345491 |
| Project Name | : BRIDGE CLEANERS | Project Number | : BRIDGE CLEANERS |
| Instrument ID | : VOA101 | Calibration Date | : 08/11/23 19:58 |
| Lab File ID | : V01230811N02 | Init. Calib. Date(s) | : 07/27/23 07/27/23 |
| Sample No | : WG1816118-2 | Init. Calib. Times | : 17:16 21:43 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|-----------------------------------|----------|-------|---------|--------------|--------|-------|----------|
| n-Butylbenzene | 1.373 | 1.546 | - | -12.6 | 20 | 94 | 0 |
| 1,2-Dichlorobenzene | 0.954 | 0.991 | - | -3.9 | 20 | 87 | 0 |
| 1,2,4,5-Tetramethylbenzene | 1.486 | 1.593 | - | -7.2 | 20 | 91 | 0 |
| 1,2-Dibromo-3-chloropropan | 0.067 | 0.053 | - | 20.9* | 20 | 70 | 0 |
| 1,3,5-Trichlorobenzene | 0.634 | 0.636 | - | -0.3 | 20 | 85 | 0 |
| Hexachlorobutadiene | 0.226 | 0.227 | - | -0.4 | 20 | 89 | 0 |
| 1,2,4-Trichlorobenzene | 0.564 | 0.524 | - | 7.1 | 20 | 82 | 0 |
| Naphthalene | 1.134 | 0.989 | - | 12.8 | 20 | 77 | 0 |
| 1,2,3-Trichlorobenzene | 0.485 | 0.403 | - | 16.9 | 20 | 73 | 0 |

* Value outside of QC limits.



Field Duplicate Calculation Section

Volatiles

Calculations for Field Duplicate Relative Percent Difference (RPD)

SDG No. L2345491

S1= GW-2R

S2= DUP

| Analyte | S1 | S2 | RPD (%) |
|-------------------|-------------|------------|---------|
| Vinyl chloride | 0.15 | ND | NC |
| Trichloroethene | 49 | 48 | 2% |
| sec-Butylbenzene | 2.7 | 2.6 | NC |
| tert-Butylbenzene | 2.8 | 2.7 | NC |
| Tetrachloroethene | 650 | 660 | 2% |

* RPD is above the allowable maximum 20%.

Results are in units of ug/L.

Bold numbers were values that are below the CRQL or above the high standard.

ND - Not detected.

NC - Not calculated, both results must be within the linear range for valid RPDs to be calculated.

Alpha Geoscience:

Acronyms and

Definitions

Data Validation Acronyms

| | |
|-------------|---|
| AA | Atomic absorption, flame technique |
| BHC | Hexachlorocyclohexane |
| BFB | Bromofluorobenzene |
| CCB | Continuing calibration blank |
| CCC | Calibration check compound |
| CCV | Continuing calibration verification |
| CN | Cyanide |
| CRDL | Contract required detection limit |
| CRQL | Contract required quantitation limit |
| CVAA | Atomic adsorption, cold vapor technique |
| DCAA | 2,4-Dichlophenylacetic acid |
| DCB | Decachlorobiphenyl |
| DFTPP | Decafluorotriphenyl phosphine |
| ECD | Electron capture detector |
| FAA | Atomic absorption, furnace technique |
| FID | Flame ionization detector |
| FNP | 1-Fluoronaphthalene |
| GC | Gas chromatography |
| GC/MS | Gas chromatography/mass spectrometry |
| GPC | Gel permeation chromatography |
| ICB | Initial calibration blank |
| ICP | Inductively coupled plasma-atomic emission spectrometer |
| ICV | Initial calibration verification |
| IDL | Instrument detection limit |
| IS | Internal standard |
| LCS | Laboratory control sample |
| LCS/LCSD | Laboratory control sample/laboratory control sample duplicate |
| MSA | Method of standard additions |
| MS/MSD | Matrix spike/matrix spike duplicate |
| PID | Photo ionization detector |
| PCB | Polychlorinated biphenyl |
| PCDD | Polychlorinated dibenzodioxins |
| PCDF | Polychlorinated dibenzofurans |
| QA | Quality assurance |
| QC | Quality control |
| RF | Response factor |
| RPD | Relative percent difference |
| RRF | Relative response factor |
| RRF(number) | Relative response factor at concentration of the number following |
| RT | Retention time |
| RRT | Relative retention time |
| SDG | Sample delivery group |
| SPCC | System performance check compound |
| TCX | Tetrachloro-m-xylene |
| %D | Percent difference |
| %R | Percent recovery |
| %RSD | Percent relative standard deviation |

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

- U = Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
- R = Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
- N = Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
- J = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
- J- = Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.
- J+ = Analyte is present. Reported value may be biased high and associated with a higher level of uncertainty than is normally expected with the analytical method.
- UJ = Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

Appendix E

ISCR/ERD Amendment Specifications/Safety Data Sheets

SAFETY DATA SHEET

mZVI™



Creation Date: 02/16/2021
Revision Date: 08/21/2023
Version 1.1
SDS # 04A

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Trade Name: mZVI™ Glycerol, PART A EDS-ZVI™

Product Code: mZVI™

Synonyms: In Situ Chemical Reduction Product, Sulfidated ZVI Colloidal Suspension

Product Form: Mixture

Recommended use of the chemical and restrictions on use

Recommended Use: Remediation of contaminated groundwater and soils.

Restrictions on Use: Use as recommended by the label.

Details of the supplier and of the safety data sheet

Supplier: Tersus Environmental, LLC
1116 Colonial Club Rd
Wake Forest, NC 27587
Phone: +1-919-453-5577
Email: info@tersusenv.com

Emergency telephone number

For leak, fire, spill or accident emergencies, call:

+1-919-453-5577 (Tersus Office Hours, 8:00 AM to 5:00 PM Eastern)
+1-800-424-9300 (Chemtrec, 24 Hour Service – Emergency Only)
+1-919-638-7892 Gary M. Birk (Outside office hours)

2. HAZARD IDENTIFICATION

Classification

Physical Hazards Not classified.
Health Hazards Not classified.
OSHA defined Hazards Not classified.

GHS Label elements, including precautionary statements

Label elements

Hazard Symbol None

Signal Word None.
Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

| | |
|-------------------|--|
| Prevention | Observe good industrial hygiene practice. |
| Response | Wash hands after handling. |
| Storage | Store away from incompatible materials. |
| Disposal | Dispose of waste and residues in accordance with local authority requirements. |

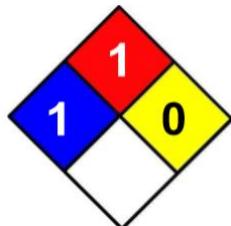
Hazards not otherwise classified (HNOC)

None known.

Supplemental information

NFPA Ratings (scale 0-4)

Contact with acids liberates very toxic gas.
 Health =1
 Flammability =1
 Reactivity =0

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical Formula**

Mixture

Hazardous components

| Chemical Name | CAS Number | Concentration (wt. %) |
|-------------------|------------|-----------------------|
| Glycerin | 56-81-5 | 40-50 |
| Zero Valent Iron | 7439-89-6 | 30-50 |
| Iron (II) sulfide | 1317-37-9 | 1-4 |

** All concentrations are in percent by weight unless otherwise indicated. Components not listed are either non-hazardous or are below reportable limits.

4. FIRST AID MEASURES

First-aid Measures General Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves

Eye Contact Rinse with water. Get medical attention if irritation develops and persists.

Skin Contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion Rinse mouth. Get medical attention if symptoms occur

Most important Direct contact with eyes may cause temporary irritation.

| | |
|---|---|
| Symptoms and Effects, both Acute and Delayed | Symptoms/injuries after inhalation: Difficulty in breathing. Dry/sore throat. Symptoms may be delayed. Symptoms/injuries after skin contact: May cause skin irritation. Symptoms/injuries after eye contact: May cause eye irritation. Symptoms/injuries after ingestion: If a large quantity has been ingested: Abdominal pain. Diarrhea. Nausea. Vomiting. |
| Indication of any Immediate Medical Attention and Special Treatment Needed | Treat symptomatically |

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| Suitable Extinguishing Media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
| Unsuitable Extinguishing Media | None known. |
| Special Hazard Arising From the Chemical | During fire, gases hazardous to health may be formed. Combustion products may include carbon oxides and iron oxides. |
| Advice for firefighters Firefighting instructions | Move containers from fire area if you can do so without risk |
| Protection during firefighting General fire hazards | Self-contained breathing apparatus and full protective clothing must be worn in case of fire This material will not burn until the water has evaporated. Residue can burn. When dry may form combustible dust concentrations in air |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal Precautions, Protective Equipment, and Emergency Procedures | Keep unnecessary personnel away. For personal protection, see Section 8 of the SDS |
| Environmental Precautions Methods for Containment and Clean Up | Avoid discharge into drains, water courses or onto the ground Large Spills: Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see Section 13 of the SDS. |

7. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for Safe handling | <ul style="list-style-type: none"> Avoid prolonged exposure. Observe good industrial hygiene practices |
| Conditions for Safe Storage, including any Incompatibilities | <ul style="list-style-type: none"> Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). |

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

| US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) | | | |
|---|-------------------------------------|---|-----------------------------------|
| Components | Type | Value | Form |
| mZVI™ Glycerol (CAS 56-81-5) | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ 15 mg/m ³ | Respirable fraction Total dust |

8.2 Exposure Control



- Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
- Eye/face protection** Wear safety glasses with side shields (or goggles).
- Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.
- Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
- Skin and body protection** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wear suitable protective clothing. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.
- Environmental exposure controls** Ensure adequate ventilation, especially in confined areas.
- Thermal hazards** Wear appropriate thermal protective clothing, when necessary.
- Biological limits** No biological exposure limits noted for the ingredient(s).
- General Hygiene Considerations** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. HANDLING AND STORAGE

Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | Liquid |
| Appearance | Viscous metallic suspension |
| Molecular mass | Not available. |
| Color | Dark gray |
| Odor | Slight |
| Odor threshold | Not available. |
| pH | 10 (As shipped) 7-8 (When mixed with water) |
| Relative evaporation rate (butylacetate=1) | Not available. |
| Melting point | Not available. |
| Freezing point | Not available. |
| Boiling point | Not available. |
| Flash point | Not available. |
| Self-ignition temperature | Not flammable |
| Decomposition temperature | Not available. |
| Flammability (solid, gas) | Not flammable |
| Vapour pressure | Not available. |
| Relative vapor density at 20 °C | Not available. |
| Relative density | Not available. |
| Density | Not available. |
| Bulk Density | Not available. |
| Solubility | Not available. |
| Log Pow | Not available. |
| Log Kow | Not available. |
| Viscosity | 3,000 cP (77°F (25°C)) |
| Explosive properties | Not explosive |
| Oxidizing properties | No oxidizing properties |
| Explosive limits | Not available. |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage, and transport. |
| Chemical Stability | Material is stable under normal conditions. |
| Possibility of Hazardous Reactions | Contact with acids will release highly flammable and highly toxic hydrogen sulfide gas. Can react with some acids with the evolution of hydrogen. |
| Conditions to Avoid | Contact with incompatible materials. Avoid drying out product. May generate combustible dust if material dries. |
| Incompatible Materials | Strong oxidizing agents. Acids. |
| Hazardous Decomposition Products | No hazardous decomposition products are known. |

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

Not expected to be acutely toxic

| Ingredient | Oral LD50, mg/L | Skin LD50, mg/kg | Inhalation Vapor LC50, mg/L/4hr | Inhalation Dust/Mist LC50, mg/L/4hr | Inhalation Gas LC50, ppm |
|--|---|-------------------------------|---------------------------------------|--|--------------------------------|
| Glycerol <chem>C3H8O3</chem> (56-81-5) | Oral - Species: Rat = 27200 mg/kg | Species: Rat > 18700 mg/kg | No data available | No data available | No data available |

| | |
|---|--|
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. |
| Serious eye damage/irritation | Direct contact with eyes may cause temporary irritation. |
| Respiratory or skin sensitization | Not a respiratory sensitizer. This product is not expected to cause skin sensitization. |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Carcinogenicity | Not classifiable as to carcinogenicity to humans. |
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. |
| Specific target organ toxicity (single exposure) | Not classified. |
| Specific target organ toxicity (repeated exposure) | Not classified. |
| Aspiration hazard | Not an aspiration hazard. |
| Further information | Contains an ingredient known to produce adverse effects in a small percentage of hypersensitive individuals exhibited as respiratory distress and allergic skin reactions. |

12. ECOLOGICAL INFORMATION

Aquatic Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Ingredient | Crustacea EC50, mg/L |
|------------------------|---|
| Glycerol (CAS 56-81-5) | Species: Daphnia magna > 10000 mg/l - Duration: 24 hours |

Persistence and degradability No data is available on the degradability of this product
 Bioaccumulative potential No data available.
 Mobility in soil No data available.
 Other adverse effects None known.

13. DISPOSAL CONSIDERATIONS

| | |
|--|--|
| Disposal Instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. |
| Local Disposal Regulations | Dispose in accordance with all applicable regulations. |
| Hazardous Waste Code | The waste code should be assigned in discussion between the user, the producer, and the waste disposal company. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

14. TRANSPORTATION INFORMATION

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

Not Applicable.

Shipping Name: Zero-Valent Iron (ZVI) in Glycerol, Chemicals Not Otherwise Indexed (NOI),
Nonhazardous

H.S. Number: 7205.10.0000 in 2905.45.0000

15. REGULATORY INFORMATION

U.S. Federal Regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA - Toxic Substances Control Act

Not regulated.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

No listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

No regulated.

SARA Superfund Amendments and Reauthorization Act.**Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard Categories****SARA 302 Extremely hazardous substance**

Not listed

SARA 311/312 Hazardous

Not listed

SARA 313 (TRI reporting)

Not regulated.

Other Federal Regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) Lis**

Not regulated.

Clean Water Act (CWA) Section 112(r) Accidental Release Prevention (40 CFT 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US State Regulations**US. Massachusetts RTK – Substance list**

Glycerol (CAS 56-81-5)

US. New Jersey Worker and Community Right-to-Know Act

Glycerol (CAS 56-81-5)

US. Pennsylvania Worker and Community Right-to-Know Law

Glycerol (CAS 56-81-5)

US. Rhode Island RTK

Glycerol (CAS 56-81-5)

US. California Proposition 65**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Zero valent iron (CAS 7439-89-6)

16. OTHER INFORMATION

Disclaimer: The information contained in this Safety Data Sheet (SDS), as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty, express or implied, or guarantee. Tersus Environmental, LLC urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the

data contained in this SDS and any hazards associated with the product. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. Since we cannot control the application, use or processing of the product, we do not accept responsibility. Therefore, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product and ensure that the intended use of the product will not infringe any party's intellectual property right. The information presented here pertains only to the product as shipped.

All recommendations for the use of our products, whether given by us, orally or to be implied from data or lab tests results by us, are based on the current state of our knowledge at the time those recommendations are made. When additional information is obtained, these recommendations may be updated. They may also be influenced by circumstances outside our control. Notwithstanding such recommendation the user is responsible for ensuring that the product supplied by us is suitable for the process or purpose he/she intends to use it.

Due to the proliferation of sources for information such as manufacturer specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.



919.453.5577 • info@tersusenv.com • tersusenv.com

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End of Safety Data Sheet

SAFETY DATA SHEET

EDS-ER™



Creation Date: 2/1/2019

Revision Date: 5/29/2023

Version 1.2

SDS # 01A

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier

Product Name: EDS-ER™

Synonyms: Electron Donor Solution – Extended Release

Product Form: Mixture

1.2 Recommended use of the chemical and restrictions on use

Recommended Use: Remediation of contaminated groundwater and soils.

Restrictions on Use: Use as recommended by the label.

1.3 Details of the supplier and of the safety data sheet

Supplier Tersus Environmental, LLC
 1116 Colonial Club Rd
 Wake Forest, NC 27587
 Phone: +1-919-453-5577
 Email: info@tersusenv.com

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:

+1-919-453-5577 (Tersus Office Hours, 8:00 AM to 5:00 PM Eastern)

+1-800-424-9300 (Chemtrec 24 Hour Service – Emergency Only)

2. HAZARD IDENTIFICATION

2.1 Relevant identified uses of the substance or mixture

No applicable GHS categories. This product is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Other hazards None known.

2.2 Label element The product does not require a hazard warning label in accordance with GHS.
 The normal safety precautions for the handling of chemicals must be observed.

Hazard statement Non-Regulated Material

Precautionary statement

| | |
|-------------------|------------------------------|
| Prevention | No GHS prevention statements |
| Response | No GHS response statements |
| Storage | No GHS storage statements |
| Disposal | No GHS disposal statements |

2.3 Classification system

NFPA Ratings (scale 0-4)

Health = 0

Fire = 1

Reactivity = 0

HMIS Ratings (scale 0-4)

Health = 0 Flammability = 1 Reactivity = 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Formula

Mixture

3.2 Hazardous components

| Chemical Name | Concentration (%) | CAS Number |
|---------------|-------------------|------------|
| None | None | None |

3.3 Nonhazardous components

| Chemical Name | Concentration (%) | CAS Number |
|---------------|-------------------|-------------|
| Soybean Oil | 90 to 93 | 8001-22-7 |
| Emulsifiers | 7 to 10 | Proprietary |

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Synonyms are provided in Section 1.

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

4.1 General Information

Check the vital functions. If unconscious place in recovery position and seek medical advice. In case of respiratory arrest, administer artificial respiration. Cardiac arrest, perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Take the victim to a doctor if irritation persists.

Remove affected person from source of contamination.

Eye Contact

Promptly wash eye with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Do not apply (chemical) neutralizing agents. In case of eye irritation consult an ophthalmologist. Remove any contact lenses and open eyelids wide apart.

Skin Contact

Wash off promptly and flush contaminated skin with water. Promptly remove clothing of soaked through and flush skin with water. Get medical attention if irritation persists after washing. Do not apply (chemical) neutralizing agents.

Inhalation

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion Drink plenty of water. DO NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person. Keep the affected person warm and at rest.

4.2 Important symptoms and effects (acute and delayed) Symptoms/injuries after skin contact: Causes skin irritation. Symptoms/injuries after eye contact: Eye damage / irritation.

5. FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media Alcohol resistant foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite, etc. Water spray

5.2 Specific Hazards Arising from the chemical or mixture Fire hazard: high.
Explosion hazard: Not known.
Oxides of the following substances: Carbon, Sulfurous gases (SO_x)

5.3 Special Fire Fighting Procedures Cool containers exposed to flames with water until well after the fire is out. Use water spray to reduce vapors. If the risk of water pollution occurs, notify appropriate authorities. Avoid water in straight hose stream; will scatter and spread fire. Keep upwind. Do not inhale explosions and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool containers exposed to flames with water until well after the fire is out. Use water spray to reduce vapor. If the risk of water pollution occurs, notify appropriate authorities. Avoid water in straight hose stream; will scatter and spread fire. Wear positive-pressure, self-contained breathing apparatus (SCBA) and chemical protective clothing.

5.4 Unusual Fire and Explosion Hazards Rags containing this material may heat and burn spontaneously. If a material with a large surface area, like rags, filters etc., is saturated with vegetable oils spontaneous combustion has been known to happen

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke or use open fire or other sources of ignition. Contact with walking surface may result in formation of slippery film/falling hazard.

6.2 First Aid In case of contact with skin, wash with soap and water. If symptoms occur, seek medical attention. In case of contact with eyes, rinse with plenty of water for at least 15 minutes and see an eye specialist if irritation persists. In case of inhalation, remove to fresh air. In case of ingestion, drink water. If symptoms occur, seek medical assistance. Do not discharge into drains, sewers, or watercourses or onto the ground. Inform the relevant authorities if this occurs.

6.3 Environmental Precautions Spilled product should be removed immediately. Provide enough ventilation. Recover product for reuse if possible. Avoid contamination of waterways and (if large quantity) vegetation. Absorb in non-

combustible material, vermiculite, dry sand or earth and place into containers. If in mist form and levels are above 12mg/m³(total), an air purifying respirator (APR) and goggles are recommended Avoid runoff into storm sewers and ditches which lead to waterway.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Contain with applicable regulations. Avoid contact with eyes. Avoid inhalation of vapors and spray/mist. Remove contaminated clothing immediately. Clean contaminated objects and areas thoroughly observing environmental regulations. Keep away from sources of ignition – No smoking. Handle in accordance with good industrial hygiene and safety procedures. Discharge into the environment must be avoided. Keep container tightly closed. Either local exhaust or general room ventilation is usually required.

7.2 Hygiene measures

Handle in accordance with good industrial hygiene and safety procedures. Use good personal hygiene practices.

7.3 Conditions for safe storage (with incompatibilities)

Technical measures: Clean bulk tanks periodically to prevent accumulation of bacteria

Storage conditions: Store in tightly closed, original container in a well-ventilated place. Protect against frost. Protect against direct sunlight.

Storage temperature: See technical datasheet. Above 10°C (50°F) and away from heat or flame.

Storage area: Store in a dry area. Comply with applicable regulations. Collect spillage.

Packaging materials: Stainless steel. Plastic.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Exposure guidelines, ingredients with workplace control parameters.

Components with occupational exposure limits

Soybean Oil (8001-22-7)

TWA Short-term value: 5 mg/m³

Long-term value: 15 mg/m³

8.2 Exposure Control



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Do not allow uncontrolled discharge of product into the environment.

Eye/face protection

The following protection should be worn: Chemical splash goggles.

| | |
|--|--|
| Respiratory protection | An approved NIOSH respirator must be worn if exposed to excessive oil vapors |
| Hand protection | Neoprene. Vinyl, Rubber (natural, latex), Butyl rubber. Wear protective gloves made of the following material: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Polyvinyl chloride (PVC). Manufactured/tested in accordance with EN 374, Avoid the following conditions: Polyvinyl alcohol (PVA). |
| Other skin and body protection | Wear appropriate clothing to prevent any possibility of skin contact. If using hot oil, insulated gloves may be required |
| Hygiene measures | Wash promptly if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking, and using the toilet. When using do not eat, drink, or smoke. |
| Environmental Exposure Controls | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|---|--|
| Appearance | Clear yellow to clear brown, amber |
| Odor | Light Vegetable Oil |
| Odor threshold | Not determined. |
| pH | Not determined. Natural when diluted with water. |
| Melting point /Freezing Point | -2°C |
| Initial Boiling point and boiling point range | Not determined. |
| Flash Point | 282°C (540°F) |
| Evaporation rate | Not determined. |
| Flammability (solid; gas) | Not determined. |
| Upper/lower flammability or explosive limits | Not determined. |
| Vapor pressure | Not determined. |
| Vapor density | Not determined. |
| Relative density | 0.925 g/cm3 (7.719 lbs/gal) |
| Solubility (ies) | Dispersible |
| Partition coefficient: n-octanol/water | Not determined. |
| Initial Boiling point and boiling point range | Not determined. |
| Auto-ignition temperature | Unknown |
| Decomposition temperature | Unknown |
| Viscosity | 80 cP at 24°C; 35 cSt at 40°C |

10. STABILITY AND REACTIVITY

10.1 Reactivity

No further relevant information available.

| | |
|---|--|
| <u>10.2 Chemical stability</u> | Stable under normal conditions and use. |
| <u>10.3 Possibility of hazardous reactions</u> | No dangerous reactions known. |
| <u>10.4 Conditions to avoid</u> | No further relevant information available. |
| <u>10.5 Incompatible materials</u> | No further relevant information available. |
| <u>10.6 Hazardous decomposition products</u> | Oxides of carbon (CO _x). |
| <u>10.7 Hazardous Polymerization</u> | Hazardous polymerization will not occur. |

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

| | |
|--|--|
| Acute toxicity (oral) | LD50 Species: Rat (male/female) Dose: >2.000 mg/kg Method: OECD 423 |
| Skin | Acute toxicity estimate: 3,571 mg/kg Method: Calculation method |
| Serious Eye Damage/Irritation | Not classified |
| Respiratory or Skin Sensitization | Not classified |
| Ingestion | Not classified |
| Germ Cell Mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive Toxicity | Not classified |
| Specific Target Organ Toxicity (Single Exposure) | Not classified |
| Specific Organ Toxicity (Repeated Exposure) | Not classified |
| Aspiration Hazard | Not classified |
| General Remarks | Not classified |
| Repeated does toxicity | > 5000 mg/Kg bw/day [OECD 422, CAS# 8001-30-7] |
| Reproductive toxicity | > 2000 mg/Kg bw/day [OECD 422, CAS# 8001-30-7] |

11.2 Additional Toxicological Information

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

11.3 Carcinogenic Categories

11.3.1 IRAC (International Agency for Research on Cancer): No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

11.3.2 ACGIH (American Conference of Governmental Industrial Hygienists): No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by ACGIH.

11.3.3 NTP (National Toxicology Program): No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by NTP.

11.3.4 OSHA (Occupational Safety & Health Administration): No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

12. ECOLOGICAL INFORMATION

12.1 Chemical Fate Information

Product is readily biodegradable in wastewater treatment systems.

12.2 Biodegradability

Slow, not readily degradable Method: OECD 301 D

Chemical Oxygen Demand: 2.324 mg/g DIN 38409 T.31

12.3 Toxicity

Acute toxicity to fish- LC0: >100 mh/L 96h (no data, OCED 203, s-s)

Acute toxicity to aquatic invertebrates: No data

Toxicity to aquatic algae: No data

Toxicity to microorganisms- EC50: >100 mg/L 3 h (a.s. bacteria, OCED 209, s)

12.4 Bioaccumulative potential

No data available

12.5 Aquatoxicity, invertebrates

Species: *Daphnia magna*

Exposure duration: 48 h

EC50: > 100 mg/l

Method: OECD 202

12.6 Aquatoxicity, algae / aquatic plants

Species: *Scenedesmus subspicatus*

Exposure duration: 72 h

EBC50: 341 mg/l

Method: OECD 201

12.7 Mobility in soil

Adsorption coefficient in soil (log Koc): no data

12.8 Results of PBT and vPvB assessment

The substance is not PBT or vPvB

12.9 Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Methods

Dispose according to federal, state, and local laws. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Authority. Waste is suitable for incineration.

14. TRANSPORTATION INFORMATION

14.1 U.S. (D.O.T.)

Proper Shipping Name: Chemicals not otherwise indexed (NOI) nonhazardous.
Hazard Class: N/A
UN/NA: N/A
Labels: N/A

14.2 Canada (T.D.G.)

Proper Shipping Name: Chemicals not otherwise indexed (NOI) nonhazardous.
Hazard Class: N/A
UN/NA: N/A
Labels: N/A

14.3 IMDG

Proper Shipping Name: Chemicals not otherwise indexed (NOI) nonhazardous.
Hazard Class: N/A
UN/NA: N/A
Labels: N/A

14.4 IATA

Proper Shipping Name: Chemicals not otherwise indexed (NOI) nonhazardous.
Hazard Class: N/A
UN/NA: N/A
Labels: N/A

14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

N/A for product as supplied.

15. REGULATORY INFORMATION

15.1 EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

15.2 SARA 311/312 Hazards

No SARA Hazards

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

15.3 California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.4 The components of this product are reported in the following inventories

CH INV: On the inventory, or in compliance with the inventory
DSL: All components of this product are on the Canadian DSL
AICS: On the inventory, or in compliance with the inventory

| | |
|---------------|---|
| NZIoC: | On the inventory, or in compliance with the inventory |
| ENCS: | On the inventory, or in compliance with the inventory |
| KECI: | Not in compliance with the inventory |
| PICCS: | On the inventory, or in compliance with the inventory |
| IECSC: | On the inventory, or in compliance with the inventory |
| TCSI: | On the inventory, or in compliance with the inventory |
| TSCA: | On the inventory, or in compliance with the inventory |

16. OTHER INFORMATION

16.1 Abbreviation/acronyms used

UVCB (substance)- Chemical substances of Unknown or Variable Composition, complex reaction products and biological materials

CAS (number)- Chemical Abstracts Service

EC (number)- Ref. EINECS/ELINCS number

R.E.A.Ch.- Registration, Evaluation, Authorisation and Restriction of Chemicals

TARIC - Tariffa Integrata della Comunità (Integrated Community Tariff code)

GHS - Globally Harmonised System of Classification and Labelling of Chemicals

CLP - Classification, Labelling and Packaging regulation

n/a - not applicable

PPE - Personal Protection Equipment

(Q)SAR - (Quantitative) Structure-Activity Relationship

bw – body weight

NOAEL - No Observed Adverse Effect Levels

STOT - Specific Target Organ Toxicity

BCF - Bioconcentration Factor

PBT (substance) - Persistent Bioaccumulative Toxic

vPvB (substance) - very Persistent, Very Bioaccumulative

SVHC (substance) - Substances of Very High Concern

Components not precisely identified are proprietary or non-hazardous.

Mixture classified as not dangerous according to Regulation (EC) 1272/2008.

Observe employment restrictions for people.

Product is not listed with IARC, NTP, ACGIH or OSHA as a carcinogen.

Disclaimer: The information contained in this Safety Data Sheet (SDS), as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty, express or implied, or guarantee. Tersus Environmental, LLC urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. Since we cannot control the application, use or processing of the product, we do not accept responsibility. Therefore, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product and ensure that the intended use of the product will not infringe any party's intellectual property right. The information presented here pertains only to the product as shipped.

All recommendations for the use of our products, whether given by us, orally or to be implied from data or lab tests results by us, are based on the current state of our knowledge at the time those recommendations are made. When additional information is obtained, these recommendations may be

updated. They may also be influenced by circumstances outside our control. Notwithstanding such recommendation the user is responsible for ensuring that the product supplied by us is suitable for the process or purpose he/she intends to use it.

Due to the proliferation of sources for information such as manufacturer specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.



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End of Safety Data Sheet



KB-1®

For bioaugmentation
of chlorinated ethene
contaminated sites



Bioaugmentation Culture

KB-1® is a naturally occurring, non-pathogenic microbial culture that contains *Dehalococcoides* (*Dhc*), the only group of microorganisms documented to promote the complete dechlorination of chlorinated ethenes to non-toxic ethene. Although *Dhc* are found in the environment, research indicates these microorganisms are not ubiquitous and not all *Dhc* are capable of complete dechlorination of chlorinated ethenes. At sites where *Dehalococcoides* are absent, tetrachloroethene (PCE) and trichloroethene (TCE) dechlorination typically stalls at cis-1,2-dichloroethene (cDCE), despite ample electron donor availability. KB-1® is used to establish complete dechlorination at sites that do not contain *Dhc* (or the right *Dhc*), and to accelerate dechlorination rates to achieve treatment goals. Bioaugmentation of aquifer systems with KB-1® provides an active microbial community capable of complete reductive dechlorination, ensuring that PCE, TCE, cDCE and vinyl chloride (VC) are completely dechlorinated to ethene, without undue acclimation periods, and at rates that are suitable for achieving remedial goals.

KB-1® is the most field-demonstrated culture of its type, and its robustness has been demonstrated for both source area and plume remediation in both porous media and fractured bedrock environments.

Benefits of KB-1® Include:

- Low cost: single application
- Works with all commonly used electron donors
- Natural microbial culture (not genetically modified or engineered)
- Certified to be free of known human pathogens
- Rigorous quality control procedures ensure each shipment is of the highest quality, stable, safe, effective and free of chlorinated volatile organic compounds
- Shipped overnight in specially designed stainless steel vessels that prevent exposure to air and which are safe and easy to handle

All KB-1® purchases include:

- Technical support from an experienced SiREM field technician to support successful application to your site
- Complimentary Gene-Trac® *Dehalococcoides* tests to verify the successful delivery and persistence of KB-1® in site groundwater
- KB-1® guarantee - complete dechlorination to ethene*

*Some conditions apply

Contact SiREM for a quotation or more information on our line of leading bioaugmentation cultures

toll free: 1-866-251-1747
phone: (519) 822-2265

