



July 25, 2023

Ms. Lisa Dunning
Task Order Contracting Officer's Representative
U.S. Environmental Protection Agency, Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219

**Subject: Contract No. 68HERH19D0018; Task Order No. 68HE0719F0190
Former Clinton Engines
605 and 607 East Maple Street, Maquoketa, Jackson County, Iowa
Phase II Environmental Site Assessment, Quarter 3**

Dear Ms. Dunning:

Toeroek Associates, Inc. (Toeroek) and our teaming subcontractor, Tetra Tech, Inc. (Tetra Tech), (hereafter "Toeroek Team") are pleased to present the Phase II Environmental Site Assessment (ESA), Quarter 3 report regarding the Former Clinton Engines site at 605 and 607 East Maple Street in Maquoketa, Jackson County, Iowa.

This deliverable has been reviewed internally as part of Tetra Tech's quality assurance program, as well as Toeroek's quality assurance program, and is consistent with Toeroek's Quality Management Plan for the Resource Conservation and Recovery Act (RCRA) Enforcement and Permitting Assistance (REPA) contract. Documentation of this review is retained in the Toeroek Team's project files.

If you have any questions or comments, please contact Greg Hanna at 720-898-4102 or Kaitlyn Mitchell at 816-412-1742.

Sincerely,

A handwritten signature in black ink, appearing to read "Greg Hanna".

Greg Hanna
Toeroek Team Program Manager

A handwritten signature in blue ink, appearing to read "Kaitlyn Mitchell".

Kaitlyn Mitchell
Toeroek Team Project Manager

Enclosure Phase II ESA, Quarter 3

cc: Leeanna Balsley, EPA Region 7 (cover letter only)
 Heather Wood, Tetra Tech
 Toeroek Team Project Files

300 Union Boulevard, Suite 520
Lakewood, Colorado 80228
Telephone: 303-420-7735
Fax: 303-420-7658

**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

**TARGETED BROWNFIELDS ASSESSMENT
PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3**

**FORMER CLINTON ENGINES
605 AND 607 EAST MAPLE STREET
MAQUOKETA, JACKSON COUNTY, IOWA**



Prepared for

**U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 7**

Task Order	:	68HE0719F0190
Subtask	:	09.03
EPA Region	:	7
Date Prepared	:	July 25, 2023
Contract No.	:	68HERH19D0018
Prepared by	:	Toeroek Team
Project Manager	:	Kaitlyn Mitchell
Telephone	:	816-412-1742
EPA TOCOR	:	Lisa Dunning
Telephone	:	913-551-7964

**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

CONTENTS

<u>Section</u>		<u>Page</u>
1.0	INTRODUCTION	1
1.1	PURPOSE.....	1
1.2	SPECIAL TERMS AND CONDITIONS	2
2.0	BACKGROUND AND SITE HISTORY	3
2.1	SITE DESCRIPTION AND FEATURES	3
2.2	PHYSICAL SETTING	3
2.2.1	Geologic Setting	4
2.2.2	Hydrogeology.....	5
2.2.3	Hydrology	6
2.3	SUMMARY OF PREVIOUS ASSESSMENTS	6
3.0	PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES.....	11
3.1	SCOPE OF THE ASSESSMENT.....	11
3.1.1	Sampling Plan.....	11
3.1.2	Chemical Testing Plan.....	11
3.1.3	Deviations from the QAPP	11
3.2	FIELD ACTIVITIES	12
3.2.1	Groundwater Sampling.....	12
3.2.2	Quality Control Sampling.....	13
4.0	EVALUATION AND PRESENTATION OF RESULTS	15
4.1	GROUNDWATER SAMPLES	15
4.2	QUALITY CONTROL SAMPLES	19
5.0	DISCUSSION OF SIGNIFICANT FINDINGS AND CONCLUSIONS.....	20
6.0	REFERENCES	21

TABLES

<u>Table</u>		<u>Page</u>
TABLE 1	MONITORING WELL SUMMARY	9
TABLE 2	GROUNDWATER LEVEL AND SAMPLE SUMMARY, QUARTER 3 (MAY 2023).....	13
TABLE 3	DETECTED VOC RESULTS FROM GROUNDWATER SAMPLES, QUARTER 3 (MAY 2023)	17

**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

APPENDICES

Appendix

APPENDIX A FIGURES

APPENDIX B HISTORICAL DATA TABLES

APPENDIX C LOGBOOK

APPENDIX D ANALYTICAL DATA PACKAGE AND DATA VALIDATION REPORT

1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) tasked Toeroek Associates, Inc. (Toeroek) and its teaming subcontractor, Tetra Tech, Inc. (Tetra Tech) (together, the “Toeroek Team”) with providing technical support to the EPA Region 7 Brownfields Program under Contract Number (No.) 68HERH19D0018, Task Order No. 68HE0719F0190. EPA Region 7 requested that the Toeroek Team conduct a Phase II Environmental Site Assessment (ESA) as part of a Targeted Brownfields Assessment of the Former Clinton Engines site (the Site). This Phase II ESA focuses on 605 and 607 East Maple Street in Maquoketa, Jackson County, Iowa, and the wells associated with the Site on surrounding properties ([Appendix A](#), Figures 1 and 2).

The Toeroek Team did not conduct a Phase I ESA of the Site. The Toeroek Team developed the Phase II ESA based on results of the following previous investigations: (1) Missman, Stanley, & Associates P.C. (MSA) 1999 Phase I and II ESA (MSA 1999); (2) 2007 enrollment application submitted by the City of Maquoketa (City) for the Iowa Department of Natural Resources (IDNR) Land Recycling Program (LRP), including the Forest Road Consultants’ 2006 Work Plan and TestAmerica analytical data (City 2007); (3) Impact7G, Inc. (Impact7G) 2013 Site Assessment, 2014 Site Assessment, and 2019 Supplemental Phase II ESA reports under direction from the IDNR LRP (Impact7G 2013, 2014, 2019); and (4) Superfund Technical Assessment and Response Team (START) 2021 Integrated Site Assessment (Tetra Tech 2021).

The scope of the Phase II ESA included collection of subsurface soil, groundwater, and soil-gas samples to determine plume dynamics and assess horizontal and vertical plume stability. Initial sampling and installation of monitoring wells was in October and November 2022. The Toeroek Team now is sampling these monitoring wells quarterly. This report details the third (Quarter 3) sampling event at the Site conducted in May 2023.

This Phase II ESA, Quarter 3, report is consistent with ASTM International Standard E1903-19 for Phase II ESAs, and otherwise complies with EPA’s “All Appropriate Inquiries” Rule (40 *Code of Federal Regulations* Part 312).

1.1 PURPOSE

Purposes of the Phase II ESA were to: (1) confirm or eliminate Recognized Environmental Conditions (RECs) identified during previous investigations; (2) acquire information regarding natures and concentrations of contaminants present at the Site in soil and/or groundwater; (3) assess potential impacts

**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

on the Site and risks posed by hazardous substances that would support informed business decisions about the Site; and (4) where applicable, satisfy the innocent purchaser defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

1.2 SPECIAL TERMS AND CONDITIONS

No special terms or conditions were identified during the Phase II ESA.

2.0 BACKGROUND AND SITE HISTORY

This section specifies the location of the Site and its features, describes the physical setting, recounts the history of the Site, discusses land uses at the Site and adjacent properties, and relates results of previous investigations.

2.1 SITE DESCRIPTION AND FEATURES

The Site is in Maquoketa, Jackson County, Iowa. It is a former industrial site in a mixed-use area consisting of residential, agricultural, and commercial land. The Site encompasses three Jackson County parcels and approximately 10.86 acres of land (Beacon 2022). Coordinates at the approximate center of the Site are 42.065375 degrees north latitude and 90.657173 degrees west longitude. The Site is in Section 19, Township 84 North, Range 3 East, as depicted on the Maquoketa, Iowa, 7.5-minute topographic map (U.S. Geological Survey [USGS] 1980).

Beginning in approximately 1945, the Site hosted industrial operations that included production of small engines. The Clinton Engines Company (Clinton Engines) acquired the property in 1950 from the Maquoketa Company and continued production of small engines. During the 1999 Phase I and Phase II ESA, the machine shop, shipping and receiving, and one of the paint booths were in active use. The Phase I ESA report described other portions of the Site facility as dilapidated, with holes in the roof and walls and standing water. Former operations included a foundry and die casting. Apparent underground storage tanks (USTs), chemical storage rooms, and 55-gallon drums were noted in various areas (MSA 1999). Clinton Engines officially closed in 1999, and the property was donated to the City in 2000 (IDNR 2020). In 2004, the Jackson County Historical Society purchased the western parcel from the City (Beacon 2022). Review of aerial photographs indicated that most facility buildings had been razed by 2004, with only a former office/administration building left standing (Historic Aerials 2023). This building has been converted into the Clinton Engines Museum. Several buildings associated with the museum have been constructed at the Site after razing of the original manufacturing buildings.

2.2 PHYSICAL SETTING

The Site lies within Maquoketa city limits and is bounded north by East Maple Street, with commercial or industrial properties beyond; east by a metal barn/residence (at a former railroad grade) and a farm center; south by residential properties and farmland; and west by South Clark Street, with residential properties beyond. Elevation of the Site is approximately 700 feet above mean sea level (amsl), with a slight slope to

the north and northeast. Higher elevations are off site to the south and southwest, with elevations reaching approximately 750 feet amsl.

2.2.1 Geologic Setting

The Site is in the Central Lowlands physiographic province of the United States. Jackson County is in eastern Iowa near the boundary of the Southern Iowa Drift Plain and the Iowan Surface. Locally, a moderate loess cover overlies a thin glacial drift layer (City of Maquoketa & Alliance Water, Iowa Rural Water Association 2014). The Southern Iowa Drift Plain is characterized by a steeply rolling landscape, with the eastern part dominated by tabular uplands. Surfaces of the Southern Iowa Drift Plain are cut deeply into the Pre-Illinoian glacial drift and are overlain by various thicknesses of Wisconsinan loess. The Iowan Surface is more eroded with gently sloping hills and valleys (Iowa Geological Survey [IGS] 2022a).

Soils at the former manufacturing area at the Site are characterized as urban land, which is generally flat and has been altered by buildings, parking lots, and cut and fill to render the soil unidentifiable. The lawn area surrounding the museum to the northwest is classified as well-drained Worthen silt loam, with 2 to 5 percent slopes, that derived from silty alluvium. The railroad grade area to the east is classified as Orthents, loamy, with 1 to 5 percent slopes. Soils south and southwest of the Site (at higher elevations) are classified as Tama silt loams, driftless, with slopes of 5 to 14 percent, that derived from loess (U.S. Department of Agriculture [USDA] 2022).

In April 2014, Impact7G advanced two bore holes (BHs), BH-1 and BH-2, at the Site to obtain information about geology of the Site. BH-1 was in the south-central portion of the Site, and BH-2 was in the north-central part of the Site. BH-1 was advanced to 38 feet below ground surface (bgs), where the boring encountered carbonate (likely dolomite) bedrock. Materials logged in BH-1 were primarily silt with some clay layers. Interspersed in the silt and clay were fine and medium sands from 12 to 22, 29 to 30, and 35 to 37 feet bgs. BH-2 was advanced to 90 feet bgs and exposed primarily silt with clay from 75 to 90 feet bgs, at which depth carbonate (dolomite) bedrock was encountered. Fine to medium sands were logged from 18 to 25 and 58 to 64 feet bgs. The water table was encountered at depths ranging from 13 to 16 feet bgs (Impact7G 2014).

The IGS 1992 Guidebook 56 *Quaternary Drainage Evolution of the Maquoketa River Valley* identifies an ancient Maquoketa River channel underlying the City. Delineation of the channel was based on bedrock depths in the area that ranged to approximately 155 feet bgs. The ancient channel having depths

exceeding 100 feet bgs trends north-south to the central areas of the City, then trends northeast (Ludvigson, Bettis, and Hudak 1992). Alluvial deposits within the channel would be in lateral contact with shallower bedrock along the sides.

The bedrock geology map of northeast Iowa indicates that uppermost bedrock in the Maquoketa area consists of Silurian-aged Hopkinton and Blandings Formations, which are a 330-foot layer of fossil-moldic to vuggy dolomite with varying amounts of chert (IDNR 1998). During the Phase II ESA investigation, weathered, vuggy, fossiliferous dolomitic bedrock was encountered at depths ranging from 21 feet bgs at the Jackson County Fairgrounds, approximately 0.6 mile northeast of the Site, to 117 feet bgs, approximately 1,000 feet west of the Site.¹

2.2.2 Hydrogeology

Silurian carbonate rocks make up the uppermost bedrock in the vicinity of the Site. The stratigraphic log for City Well 6, approximately 0.3 mile southwest of the Site, begins at 125 feet bgs in Silurian (undifferentiated) deposits and reaches a total depth of 2,325 feet (IGS 2022b). The Ordovician Maquoketa Formation (mainly shale) was encountered from 245 to 270 feet bgs and is considered an aquitard protecting the underlying aquifers. Cambrian rocks below the St. Lawrence Formation (encountered approximately 1,200 feet bgs) are indicated as the aquifer supplying City Wells 4, 5, and 6 (IGS 2022b).

Porous Silurian dolomites form the uppermost bedrock aquifer. In eastern and northern Iowa, the average thickness is approximately 200 to 400 feet. Based on depth of the underlying Ordovician Maquoketa Formation listed for City Well 6, wells tapping this aquifer would be less than approximately 245 feet deep.

The Cambrian-Ordovician aquifer has been extensively developed for municipal and industrial supplies, and yields range from 100 to 2,300 gallons per minute (gpm). Yields of 1,000 gpm can be obtained in all but the easternmost part of the aquifer area if drawdown of water levels is not a major concern (USGS 1978).

The upper part of the Cambrian-Ordovician Aquifer consists of the Ordovician St. Peter Sandstone and Prairie du Chien Formation and the Cambrian Jordan Sandstone. Wells completed in the Jordan

¹ Bedrock was encountered at 122 feet bgs approximately 750 feet south of the Site; however, this location is approximately 45 feet higher in elevation.

Sandstone typically produce at least 50 gpm, with yields up to 300 gpm; however, high yields generally depend on thickness and degree of cementation of the Jordan Sandstone (USGS 1978).

The lower part of the Cambrian-Ordovician Aquifer consists of three Cambrian formations (Wonewoc, Eau Claire, and Mt. Simon), collectively referred to as the “Dresbach” aquifer. Yields in the Dresbach aquifer range from 280 to 2,560 gpm, and the unit commonly yields at least 500 gpm. Yields are highest near Clinton, Iowa, decreasing westward, where water quality becomes poor. The Maquoketa area is an exception to this, as City Wells 4, 5, and 6 have high production capacities from this aquifer. Geologic data indicate this may be a result of faulting within the Plum River fault zone, bringing the higher quality water in the Jordan Sandstone into juxtaposition with the Galesville Sandstone Member of the Wonewoc Formation (City of Maquoketa & Alliance Water, Iowa Rural Water Association 2014).

2.2.3 Hydrology

Most of the Site is gently sloping (north and northeast) or flat with elevations of approximately 700 feet amsl. Higher elevations (approximately 750 feet amsl) are off site to the south and west, and lower elevations (approximately 680 feet amsl) are farther north and east, near the Maquoketa River (approximately 0.8 to 2 miles north of the Site) or Prairie Creek (approximately 0.8 mile east of the Site). Surface water likely flows into the stormwater sewer system or generally northeast toward Prairie Creek.

2.3 SUMMARY OF PREVIOUS ASSESSMENTS

In 1999, MSA conducted a Phase II ESA of the Site. Tables B-1, B-2, and B-3 in [Appendix B](#) summarize soil, groundwater, and soil-gas data for volatile organic compounds (VOCs) from that assessment. The 1999 Phase II ESA found concentrations of chlorinated VOCs (CVOCs), as well as benzene, toluene, ethylbenzene, and xylenes (BTEX) in groundwater and soil that exceeded risk-based screening levels and, for groundwater, EPA Maximum Contaminant Levels (MCLs).

On May 23, 2005, IDNR notified the City regarding the transfer of the Site to the Contaminated Sites Section within IDNR (IDNR 2005a). Results from an Initial Site Screening, completed on June 2, 2005, indicated the need for additional investigations at the Site (IDNR 2005b). The Site was enrolled in the IDNR Voluntary LRP in April 2008. According to the Voluntary LRP enrollment application, additional Site investigation activities occurred in 2006 (City 2007). Analytical results from the 2006 sampling event are in Table B-1 and Table B-2 in [Appendix B](#).

The 2006 groundwater sampling event at the Site found elevated concentrations of BTEX and CVOCs. Further, the enrollment application included information pertaining to removal of three additional USTs (two 20,000-gallon diesel tanks and one 8,000-gallon tank of unidentified contents) from 2001 to 2002 (City 2007).

Since 2006, further Site assessment activities have been sporadic, focusing primarily on delineation of extents of on-site and off-site groundwater contamination and on-site vapor intrusion (VI). CVOCs at the following maximum concentrations have been detected in groundwater samples from on-site groundwater monitoring wells and off-site temporary wells as far as 900 feet north-northwest of the Site:

- Trichloroethene (TCE) at 9,580 micrograms per liter ($\mu\text{g}/\text{L}$), off-site temporary well;
- *cis*-1,2-Dichloroethene (DCE) at 7,190 $\mu\text{g}/\text{L}$, off-site temporary well;
- *trans*-1,2-DCE at 1,044 $\mu\text{g}/\text{L}$, off-site temporary well;
- 1,1,2-Trichloroethane (TCA) at 132 $\mu\text{g}/\text{L}$, off-site temporary well;
- Vinyl chloride (VC) at 319 $\mu\text{g}/\text{L}$, off-site temporary well; and
- Toluene at 247,000 $\mu\text{g}/\text{L}$, on-site groundwater monitoring well (Impact7G 2019).

Additional Site investigation activities in 2013 included sampling of groundwater monitoring wells that had been installed during previous investigations (Impact7G 2013). Available groundwater and soil data are in Table B-1 and Table B-2 in [Appendix B](#).

Given the elevated CVOCs concentrations in groundwater, IDNR required indoor VI sampling at the museum (IDNR 2014). Sub-slab samples collected at the museum in 2014 and 2015 yielded TCE at concentrations above risk-based screening levels. In response, cracks in the museum basement were repaired, chemicals stored in the basement were relocated, and the sump pit area was passively vented. In December 2019, follow-up indoor air sampling at the museum documented indoor air exceedances above risk-based screening levels. As a result, energy recovery ventilators were installed at the museum in September 2020 (IDNR 2020). Available VI sampling results for selected VOCs are in Table B-3 in [Appendix B](#).

IDNR requested federal assistance in a letter dated February 17, 2020, regarding potential impacts of off-site groundwater contamination on nearby residential and commercial properties (IDNR 2020). IDNR also requested assistance related to VI sampling at surrounding properties near areas of known groundwater contamination to further determine potential impacts (Tetra Tech 2021).

In 2020 and 2021, Tetra Tech, under its START contract, collected indoor air, soil-gas, soil, and drinking water samples at the Site and at nearby residential and commercial properties. No CVOCs were detected in soil gas. No VOC was detected in soil, sub-slab vapor, or indoor air at concentration exceeding an associated removal management level. No VOC was detected in drinking water at concentration exceeding an associated EPA MCL (Tetra Tech 2021).

The 2022 Phase II ESA by the Toeroek Team included soil, groundwater, and soil-gas sampling (Toeroek Team 2023a). Toluene was detected in 17 of the 21 subsurface soil samples, mostly at low concentrations (estimated at less than 1.0 microgram per kilogram [$\mu\text{g}/\text{kg}$]), where no other fuel-related VOCs were present, suggesting possible laboratory contamination. High toluene concentrations (greater than 100 $\mu\text{g}/\text{kg}$) detected in samples MW-1B (19 to 21 ft bgs) and MW-8B (14 to 16 ft bgs) were found with other fuel-related VOCs. TCE concentrations in five on-site soil samples exceeded EPA's Regional Screening Levels (RSL) for both residential and industrial soils. No other analyte concentration in any soil sample exceeded an associated RSL. No analyte concentration in any sample exceeded an associated IDNR Statewide Standard (SWS) for soils (Toeroek Team 2023a).

In October and November 2022, during the Phase II ESA, the Toeroek Team installed 17 monitoring wells, including four bedrock wells, seven delineation wells, and six vertical gradient wells. The bedrock wells were designed to assess deeper groundwater at a greater distance from the Site. The delineation wells were to delineate horizontal plume boundaries, and the vertical gradient wells were designed to characterize vertical contamination profiles paired with data from pre-existing shallower monitoring wells (Toeroek Team 2023a). Groundwater was not encountered at the proposed location of monitoring well MW-5; therefore, well installation was not completed at this location. Approximate locations of monitoring wells are depicted on Figure 2 in [Appendix A](#).

Groundwater samples were collected from the 17 monitoring wells installed by the Toeroek Team in November 2022. These samples were collected using low-flow sampling techniques. After collection of each sample, a passive diffusion bag (PDB) was hung within the well in the middle of the screened interval of each well for future sampling. [Table 1](#) below summarizes information regarding the monitoring wells installed during the November 2022 sampling event. Sampling data from the 2022 Phase II ESA are in Table B-4 through Table B-6 in [Appendix B](#).

PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA

TABLE 1
MONITORING WELL SUMMARY
FORMER CLINTON ENGINES SITE, MAQUOKETA, IOWA

Sample Identification	Screened Interval (ft bgs)	Measured Depth (ft btoc)	Initial Depth to Water* (ft btoc)	Top of Casing Elevation (ft amsl)	Initial Groundwater Elevation* (ft amsl)
Vertical Gradient Wells					
MW-1B	42-52	52.22	18.47	697.310	678.84
MW-2B	47-57	56.74	16.11	693.835	677.73
MW-3B	47-57	56.87	21.04	699.182	678.14
MW-4B	47-57	60.22**	28.69	702.532	673.84
MW-6B	41-51	53.74**	21.91	700.082	678.17
MW-8B	43-53	52.79	13.57	691.144	677.57
Delineation Wells					
MW-9	46-56	53.89	14.71	693.648	678.94
MW-10A	47-57	57.06	11.81	689.654	677.84
MW-10B	63-73	72.70	13.67	689.398	675.73
MW-11	40-50	52.83**	18.16	701.474	683.31
MW-12	35-45	44.60	6.39	684.200	677.81
MW-13	33-43	42.51	NA	680.000	NA
MW-14	50-60	60.34	11.69	679.283	667.59
Bedrock Wells					
MW-101	117-127	128.15	24.38	702.415	678.04
MW-102	125-135	136.79	63.54	744.429	680.89
MW-103	27-37	36.96	16.04	679.851	663.81
MW-104	77-87	85.78	17.39	684.785	667.40

Notes:

* Measured in November 2022 immediately following installation and development.

** Monitoring wells MW-4B, MW-6B, and MW-11 have aboveground completions; remaining wells are flush-mount.

No well was installed in the boring advanced for MW-5B because a deeper groundwater zone was not encountered.

amsl	Above mean sea level	FD	Field duplicate
bgs	Below ground surface	ft	Feet
btoc	Below top of casing	MW	Monitoring well

TCE and its common degradation products were detected in all on-site monitoring wells except MW-11, near the southeast corner of the Site. TCE concentrations exceeded the MCL in 11 of the on-site groundwater samples. In 7 of 11 groundwater samples, TCE concentrations also exceeded the IDNR SWS for a non-protected groundwater source. Typically, where TCE levels exceeded these benchmarks, concentrations of *cis*-1,2-DCE and VC also exceeded the benchmarks. The highest CVOC concentrations were detected in groundwater samples from on-site monitoring wells MW-8B, MW-10A, and MW-10B, and from the off-site monitoring well MW-12. Slightly lower concentrations were detected in MW-10B (screened from 63 to 73 feet bgs) than in MW-10A (screened from 47 to 57 feet bgs), suggesting the separating zone has not significantly retarded downward migration. In addition, low levels of the following

were detected in several on-site groundwater samples: 1,1,1-TCA; 1,1,2-TCA; 1,1-dichloroethane (DCA); and tetrachloroethene (PCE).

No VOCs were detected in samples from upgradient bedrock monitoring wells MW-101 and MW-102, west and south of the Site, respectively. Groundwater from MW-103 and MW-104, northeast and downgradient of the Site, contained TCE and 1,2-DCE, but at concentrations below MCLs. At MW-104, bedrock was encountered at 71 feet bgs, and screening occurred from 77 to 87 feet bgs. In contrast, encounter with bedrock at MW-103, approximately 1,500 feet to the east, occurred at 21 feet bgs, and screening was from 27 to 37 feet bgs. The porous shallow bedrock is likely in lateral contact with contaminated groundwater in the sandy alluvial deposits.

Fuel-related VOCs (or constituents of petroleum solvents) were detected in nine groundwater samples, with benzene concentration exceeding the MCL in three samples (MW-1B, MW-8B, and MW-10A). No other concentration of a fuel-related VOC exceeded an associated MCL, and none exceeded an IDNR SWS for non-protected groundwater.

VOCs were detected in all soil-gas samples collected by the Toeroek Team from borings co-located to each respective monitoring well during the November 2022 sampling event. Detected TCE concentrations in soil-gas samples collected at MW-2B, MW-3B, MW-8B, MW-9, MW-10A/B, and MW-11 exceeded the EPA residential Vapor Intrusion Screening Level (VISL). Except for MW9-SG and MW10-SG, TCE concentrations also exceeded the commercial VISL. Soil-gas samples near monitoring wells in roadways were collected within the nearby easement. Numerous fuel-related VOCs were detected in the soil-gas samples; however, no concentration exceeded a VISL benchmark (Toeroek Team 2023a).

During the Quarter 2 sampling event in February 2023, groundwater samples were collected from the 17 on-site monitoring wells (Toeroek Team 2023b). TCE was detected in 14 of 17 samples, with concentrations exceeding the EPA MCL in eight samples. PCE was detected in three samples, with one of those samples at concentration exceeding the MCL. *Cis-* or *trans*-1,2,-DCE were detected in all samples except four—with *cis*-1,2-DCE concentrations exceeding the MCL in nine samples and *trans*-1,2-DCE concentrations exceeding the MCL in one sample. VC was detected in 10 samples—with 8 samples at concentrations exceeding the MCL. The results of the February 2023 sampling are included in Table B-7 in [Appendix B](#).

3.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES

The following subsections describe the scope, field exploration, and methods implemented during the Phase II ESA, Quarter 3 sampling event. On May 31, 2023, Toeroek Team members Macy LaMasney and Clay Weiss sampled 17 monitoring wells previously installed by the Toeroek Team in October and November 2022. Field activities were documented in a logbook ([Appendix C](#)).

3.1 SCOPE OF THE ASSESSMENT

The Toeroek Team performed environmental sampling to determine if subsurface soils, groundwater, and soil gas are contaminated by historical activities at the Site. Sampling was consistent with the EPA-approved Quality Assurance Project Plan (QAPP) (Toeroek Team 2022).

3.1.1 Sampling Plan

The proposed sampling scheme for this project incorporated a combination of biased/judgmental sampling with definitive laboratory analysis, in accordance with procedures included in the *Guidance for Performing Site Inspections Under CERCLA* (Office of Solid Waste and Emergency Response [OSWER] Directive #9345.1-05, September 1992). The objective of groundwater sampling was to characterize possible releases to the environment. Figure 2 in [Appendix A](#) depicts sampling locations at the Site. One groundwater sample was collected at each of the 17 permanent groundwater monitoring well locations: MW-1B, MW-2B, MW-3B, MW-4B, MW-6B, MW-8B, MW-9, MW-10A, MW-10B, MW-11, MW-12, MW-13, MW-14, MW-101, MW-102, MW-103, and MW-104. Two samples were collected as field duplicate pairs—one from MW-10B (identified as MW-X on the chain-of-custody) and the other from MW-13 (identified as MW-Y on the chain-of-custody).

3.1.2 Chemical Testing Plan

Laboratory analytes were selected based on contaminants commonly associated with current and historical uses of the Site and results from previous investigations. Samples were submitted to Pace Analytical (Pace) in Lenexa, Kansas, for VOC analysis via EPA Method 8260.

3.1.3 Deviations from the QAPP

No deviations from the QAPP occurred during the Phase II ESA, Quarter 3 sampling event. In February 2023, the QAPP was amended to specify use of PDBs for future sampling events.

3.2 FIELD ACTIVITIES

Field activities occurred at the Site on May 31, 2023. Groundwater samples were submitted to Pace on June 1, 2023. The following subsections summarize groundwater sample collection activities. Sampling locations are depicted on Figure 2 in [Appendix A](#).

3.2.1 Groundwater Sampling

Groundwater samples were collected from PDBs previously hung in each well after the Quarter 2 sampling event. Depth to groundwater was measured at each sample location. Groundwater at the Site was encountered between 7 and 63 feet bgs. After completion of sampling at each location, a new PDB was attached to each well's dedicated tether and lowered back into the well for the Quarter 4 sampling event, anticipated for August 2023.

Groundwater samples were analyzed for low-level VOCs via EPA Method 8260. Samples were collected into three 40-milliliter vials preserved with hydrochloric acid. [Table 2](#) below summarizes groundwater samples collected during the Phase II ESA, Quarter 3 sampling event.

**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

TABLE 2

**GROUNDWATER LEVEL AND SAMPLE SUMMARY, QUARTER 3 (MAY 2023)
FORMER CLINTON ENGINES SITE, MAQUOKETA, IOWA**

Location ID(s)	Sample Date and Time*	Depth to Groundwater (ft btoc)	Static Water Level (ft amsl)
Vertical Gradient Wells			
MW-1B	0936	18.20	679.11
MW-2B	1354	16.30	677.54
MW-3B	0918	21.00	678.18
MW-4B	1342	13.50	689.03
MW-6B	1312	22.20	677.88
MW-8B	1412	14.30	676.84
Delineation Wells			
MW-9	0954	14.85	678.80
MW-10A	1008	12.30	677.35
MW-10B/MW-X	1016	13.60	675.80
MW-11	1332	14.30	687.17
MW-12	1156	6.90	677.30
MW-13/MW-Y	1140	8.40	671.60
MW-14	1050	11.10	668.18
Bedrock Wells			
MW-101	1212	24.60	677.82
MW-102	0842	63.50	680.93
MW-103	1106	15.80	664.05
MW-104	1120	17.35	667.44

Notes:

* All samples collected on May 31, 2023

EPA U.S. Environmental Protection Agency
 ft amsl Feet above mean sea level
 ft btoc Feet below top of casing
 ID Identification
 MW Monitoring well

3.2.2 Quality Control Sampling

Field quality control (QC) samples for this investigation included one laboratory-supplied aqueous trip blank, one field blank, and two groundwater field duplicates collected at MW-13 and MW-10B. Pace analyzed the QC samples for VOCs. Analytical data from the field blanks were used to evaluate contamination of sampling containers or sample preservatives, and assess contamination potentially introduced during sampling and laboratory procedures. Two groundwater field duplicates were collected to determine total method precision. Analytical results from field duplicate samples were used to calculate relative percent differences (RPDs) between paired results for each reported analyte. The RPDs served informational purposes only. Analytical accuracy was determined via analysis of laboratory-prepared

PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA

spikes and duplicates. Calculated RPDs are discussed with the applicable data validation report in [Appendix D](#).

4.0 EVALUATION AND PRESENTATION OF RESULTS

The following subsections present analytical data from groundwater samples collected during the Phase II ESA, Quarter 3 sampling event. Sample results from this ESA were compared to EPA MCLs (EPA 2023) and to IDNR SWSs for Non-Protected Groundwater (IDNR 2023). IDNR SWSs for Protected Groundwater are EPA MCLs. Copies of analytical data packages and data validation reports are in [Appendix D](#).

4.1 GROUNDWATER SAMPLES

Groundwater samples were collected from 17 monitoring wells installed by the Toeroek Team in October and November 2022. Two duplicate pairs were collected. Samples were submitted to Pace for analyses for VOCs. The contaminants are listed in [Table 3](#) in the following order: miscellaneous VOCs, Site-related CVOCs, and fuel-related VOCs. CVOCs are followed by their common degradation products.

The following groundwater samples yielded concentrations of VOCs exceeding one or more regulatory benchmarks:

- Carbon tetrachloride was detected at a concentration exceeding the EPA MCL of 5 µg/L in the sample from MW-3B.
- Chloromethane was detected at concentrations exceeding the EPA RSL for tap water of 19 µg/L in the samples from MW-2B and MW-8B.
- PCE was detected at a concentration exceeding the EPA MCL of 5 µg/L in the sample from MW-3B.
- TCE was detected at concentrations exceeding the EPA MCL of 5 µg/L and the IDNR SWS for non-protected groundwater of 76 µg/L in samples from MW-2B, MW-3B, MW-8, MW-9, MW-10A, and MW-10B. Concentrations of TCE in samples from MW-12 and MW-14 exceeded only the EPA MCL of 5 µg/L.
- *cis*-1,2-DCE was detected at concentrations exceeding the EPA MCL of 70 µg/L and the IDNR SWS for non-protected groundwater of 350 µg/L in samples from MW-1B, MW-2B, MW-3B, MW-8B, MW-10A, and MW-10B. Concentration of *cis*-1,2-DCE in sample MW-14 exceeded only the EPA MCL of 70 µg/L.
- *trans*-1,2-DCE was detected at a concentration exceeding the EPA MCL of 100 µg/L in the sample from MW-8B.

PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA

- VC was detected at concentrations exceeding the EPA MCL of 2 µg/L and the IDNR SWS for non-protected groundwater of 10 µg/L in samples from MW-1B, MW-2B, MW-3B, MW-8B, MW-10A, and MW-10B. Concentration of VC in sample MW-13 exceeded only the EPA MCL of 2 µg/L.
- Benzene was detected at a concentration exceeding the EPA MCL of 5 µg/L in the sample from MW-10B.

No other chemical of concern was detected at concentration exceeding a regulatory benchmark in any other well. Several chemicals detected, such as acetone, 2-butanone, methylene chloride, and toluene, are common laboratory contaminants; these are not discussed further. [Table 3](#) below lists all pertinent VOC detections in groundwater. Figure 3 in [Appendix A](#) shows VOC exceedances of IDNR SWSs or EPA MCLs or RSLs in groundwater.

**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

TABLE 3

DETECTED VOC RESULTS FROM GROUNDWATER SAMPLES, QUARTER 3 (MAY 2023)
FORMER CLINTON ENGINES SITE, MAQUOKETA, IOWA

PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA

TABLE 3 (Continued)

**DETECTED VOC RESULTS FROM GROUNDWATER SAMPLES, QUARTER 3 (MAY 2023)
FORMER CLINTON ENGINES SITE, MAQUOKETA, IOWA**

Sample Identification	Screened Interval (ft bgs)	Carbon Tetrachloride	Chloroform	Chloromethane	PCE	TCE	1,1-DCE	1,2-DCE (Total)	<i>cis</i> -1,2-DCE	<i>trans</i> -1,2-DCE	Vinyl Chloride	Chloroethane	Benzene	Xylene (Total)
		EPA MCL or EPA RSL (TR=1E-6, THQ=0.1) Tap water												
		5	80*	19**	5	5	7	NE	70	100	2	NE	5	10,000
		IDNR SWSs for Non-Protected Groundwater												
		50	400	NE	1,700	76	180	NE	350	700	10	14,000	64	1,400
MW-103	27-37	ND	ND	ND	ND	0.83 J	ND	ND	ND	ND	ND	ND	ND	ND
MW-104	77-87	ND	ND	ND	ND	0.27 J	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

All values are in micrograms per liter ($\mu\text{g/L}$).

* MCL for total trihalomethanes.

** RSL for tap water is listed

*** Toluene (7.7 $\mu\text{g/L}$) and cumene (0.54 J) were also detected.

† 1,2-Dichloroethane (0.79 J) was also detected.

Bold font indicates a value exceeds the MCL or RSL.

Shading indicates a value exceeds the IDNR SWS for non-protected groundwater.

The common laboratory contaminants acetone, 2-butanone, and methylene chloride were detected but are not listed.

EPA	U.S. Environmental Protection Agency	NE	Not established
DCE	Dichloroethene	PCE	Tetrachloroethene
ft bgs	Feet below ground surface	RSL	Regional Screening Level
IDNR	Iowa Department of Natural Resources	SWS	Statewide Standard
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit	TCE	Trichloroethene
MCL	Maximum Contaminant Level	THQ	Target hazard quotient
MW	Monitoring well	TR	Carcinogenic risk
		VOC	Volatile organic compound

PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA

4.2 QUALITY CONTROL SAMPLES

Pace analyzed QC samples for VOCs. No VOCs were detected in the trip blank or the field blank. Duplicate results were within acceptance limits, rendering those data reliable.

5.0 DISCUSSION OF SIGNIFICANT FINDINGS AND CONCLUSIONS

This section summarizes significant findings and offers conclusions regarding the Phase II ESA, Quarter 3 sampling event.

CVOCs known to have impacted groundwater at the Site were detected in all on-site groundwater samples. CVOCs were detected in off-site groundwater samples from all wells except upgradient bedrock monitoring wells MW-101 and MW-102. TCE and its degradation products were detected at concentrations exceeding the IDNR SWS for non-protected groundwater in on-site monitoring wells MW-1B, MW-2B, MW-3B, MW-8B, MW-9, MW-10A, and MW-10B. Off-site monitoring wells MW-12, MW-13, and MW-14 yielded CVOC concentrations exceeding MCLs but not IDNR SWSs for non-protected groundwater (protected groundwater SWSs are MCLs, if established). The sample from MW-10B detected benzene, a fuel-related VOC, at a concentration exceeding the MCL.

The following groundwater samples contained concentrations of VOCs exceeding a regulatory benchmark:

- Chloromethane was detected at concentrations exceeding the EPA RSL for tap water of 19 µg/L in the samples from MW-2B and MW-8B.
- PCE was detected at a concentration exceeding the EPA MCL of 5 µg/L in the sample from MW-3B.
- TCE was detected at concentrations exceeding the EPA MCL of 5 µg/L and the IDNR SWS for non-protected groundwater of 76 µg/L in samples from MW-2B, MW-3B, MW-8, MW-9, MW-10A, and MW-10B. Concentrations of TCE in samples from MW-12 and MW-14 exceeded only the EPA MCL of 5 µg/L.
- *cis*-1,2-DCE was detected at concentrations exceeding the EPA MCL of 70 µg/L and the IDNR SWS for non-protected groundwater of 350 µg/L in samples from MW-1B, MW-2B, MW-3B, MW-8B, MW-10A, and MW-10B. Concentration of *cis*-1,2-DCE in sample MW-14 exceeded only the EPA MCL of 70 µg/L.
- *trans*-1,2-DCE was detected at a concentration exceeding the EPA MCL of 100 µg/L in the sample from MW-8B.
- VC was detected at concentrations exceeding the EPA MCL of 2 µg/L and the IDNR SWS for non-protected groundwater of 10 µg/L in samples from MW-1B, MW-2B, MW-3B, MW-8B, MW-10A, and MW-10B. Concentration of VC in sample MW-13 exceeded only the EPA MCL of 2 µg/L.
- Benzene was detected at a concentration exceeding the EPA MCL of 5 µg/L in the sample from MW-10B.

No other chemical of concern was detected at a concentration exceeding a regulatory benchmark.

**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

6.0 REFERENCES

- Beacon. 2022. Jackson County, Iowa Assessor Parcel Interactive Map.
<https://beacon.schneidercorp.com/Application.aspx?AppID=80&LayerID=723&PageTypeID=1&PageID=938>
- City of Maquoketa (City). 2007. Land Recycling Program Enrollment Application. November 27.
- City of Maquoketa & Alliance Water, Iowa Rural Water Association. 2014. Source Water Protection Plan, Maquoketa Public Works # 2537001. April 4.
- Historic Aerials. 2023. <https://www.historicaerials.com/>
- Impact7G, Inc. (Impact7G). 2013. Site Assessment Report Former Clinton Engines. June 21.
- Impact7G, Inc. (Impact7G). 2014. Site Assessment Report Former Clinton Engines. October 1.
- Impact7G, Inc. (Impact7G). 2019. Supplemental Phase II Environmental Site Assessment. Former Clinton Engines Site. 605 East Maple Street, Maquoketa Iowa. Prepared for the City of Maquoketa. July 30.
- Iowa Department of Natural Resources (IDNR). 1998. Bedrock Geology of Northeastern Iowa. August.
- Iowa Department of Natural Resources (IDNR). 2005a. Letter regarding Clinton Engines in Maquoketa, Iowa. From Jessica R. Montana, IDNR Contaminated Sites Environmental Specialist. To Brian Wagner, City of Maquoketa. May 23.
- Iowa Department of Natural Resources (IDNR). 2005b. Initial Site Screening Report. Site ID: 174. Site Name: Clinton Engines. June 2.
- Iowa Department of Natural Resources (IDNR). 2014. Letter regarding Site Assessment Report for the Former Clinton Engines site in Maquoketa, Iowa. From Greg Fuhrmann, IDNR Land Recycling Program Coordinator. To Brian Wagner, City Manager, City of Maquoketa. December 16.
- Iowa Department of Natural Resources (IDNR). 2020. Letter regarding Clinton Engines in Maquoketa, Iowa. From Amie Davidson, IDNR Land Quality Bureau Chief. To Ken Buchholz, U.S. Environmental Protection Agency (EPA) Assessment, Emergency Response & Removal Branch. February 17.
- Iowa Department of Natural Resources (IDNR). 2023. Cumulative Risk Calculator, Statewide Standards.
<https://programs.iowadnr.gov/riskcalc/home/statewidestandards>
- Iowa Geological Survey (IGS). 2022a. Landforms. <https://iowageologicalsurvey.org/landforms/>
- Iowa Geological Survey (IGS). 2022b. GeoSam online interactive map.
<https://www.iihr.uiowa.edu/igs/geosam/home>
- Ludvigson, Greg A., E. Arthur Bettis III, and Curtis M. Hudak. 1992. *Quaternary Drainage Evolution of the Maquoketa River Valley*. Geological Society of Iowa, Guidebook 56. November 21.

**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

Missman, Stanley & Associates, P.C. (MSA). 1999. Phase I/ Phase II Environmental Assessment. Clinton Engines Property. 605 East Maple Street, Maquoketa Iowa. Prepared for the City of Maquoketa. October 15.

National Park Service. 2006. National Register of Historic Places Registration Form. The Maquoketa Company – Clinton Machine Company Administration Building.
<https://npgallery.nps.gov/NRHP/AssetDetail/4f5e50b9-2e05-47a8-8a91-d4f698faae0>

Tetra Tech, Inc. (Tetra Tech). 2021. Integrated Assessment: Preliminary Assessment/Site Inspection (PA/SI) and Removal Site Evaluation Report. TCE Clinton Engines Sites. Maquoketa, Iowa. April.

Toeroek Associates, Inc. and Tetra Tech, Inc. (Toeroek Team). 2022. Quality Assurance Project Plan for a Phase II Environmental Site Assessment, Former Clinton Engines Site. July 28.

Toeroek Associates, Inc. and Tetra Tech, Inc. (Toeroek Team). 2023a. Targeted Brownfields Assessment. Phase II Environmental Site Assessment, Former Clinton Engines Site. February 22.

Toeroek Associates, Inc. and Tetra Tech, Inc. (Toeroek Team). 2023b. Targeted Brownfields Assessment. Phase II Environmental Site Assessment, Quarter 2, Former Clinton Engines Site. May 9.

U.S. Department of Agriculture (USDA). 2022. Web Soil Survey.
<https://websoilsurvey.nrcs.usda.gov/app/>

U.S. Environmental Protection Agency (EPA). 2023. Regional Screening Levels. May.
<https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>

U.S. Geological Survey (USGS), Iowa Geologic Survey (IGS). 1978. Water Resources of East-Central Iowa. Iowa Geological Survey Water Atlas Number 6.

U.S. Geological Survey (USGS). 1980. Maquoketa, Iowa, Quadrangle Map. 7.5-Minute Topographic Series.

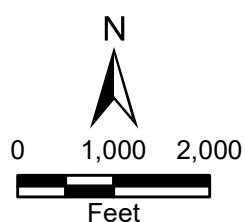
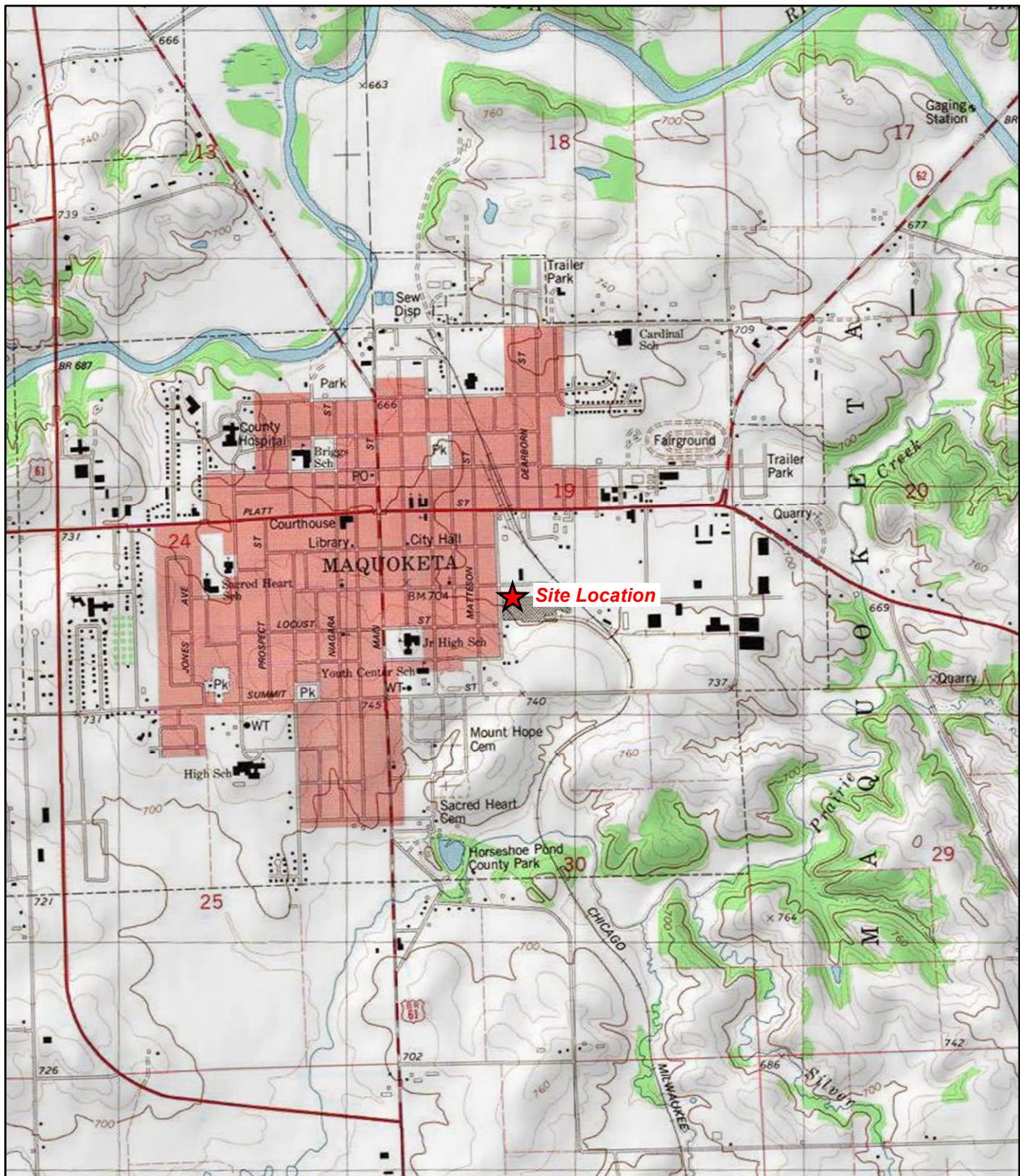
**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

APPENDIX A

FIGURES

**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

**FIGURE 1
SITE LOCATION MAP**



Former Clinton Engines
605 and 607 East Maple Street
Maquoketa, Jackson County, Iowa

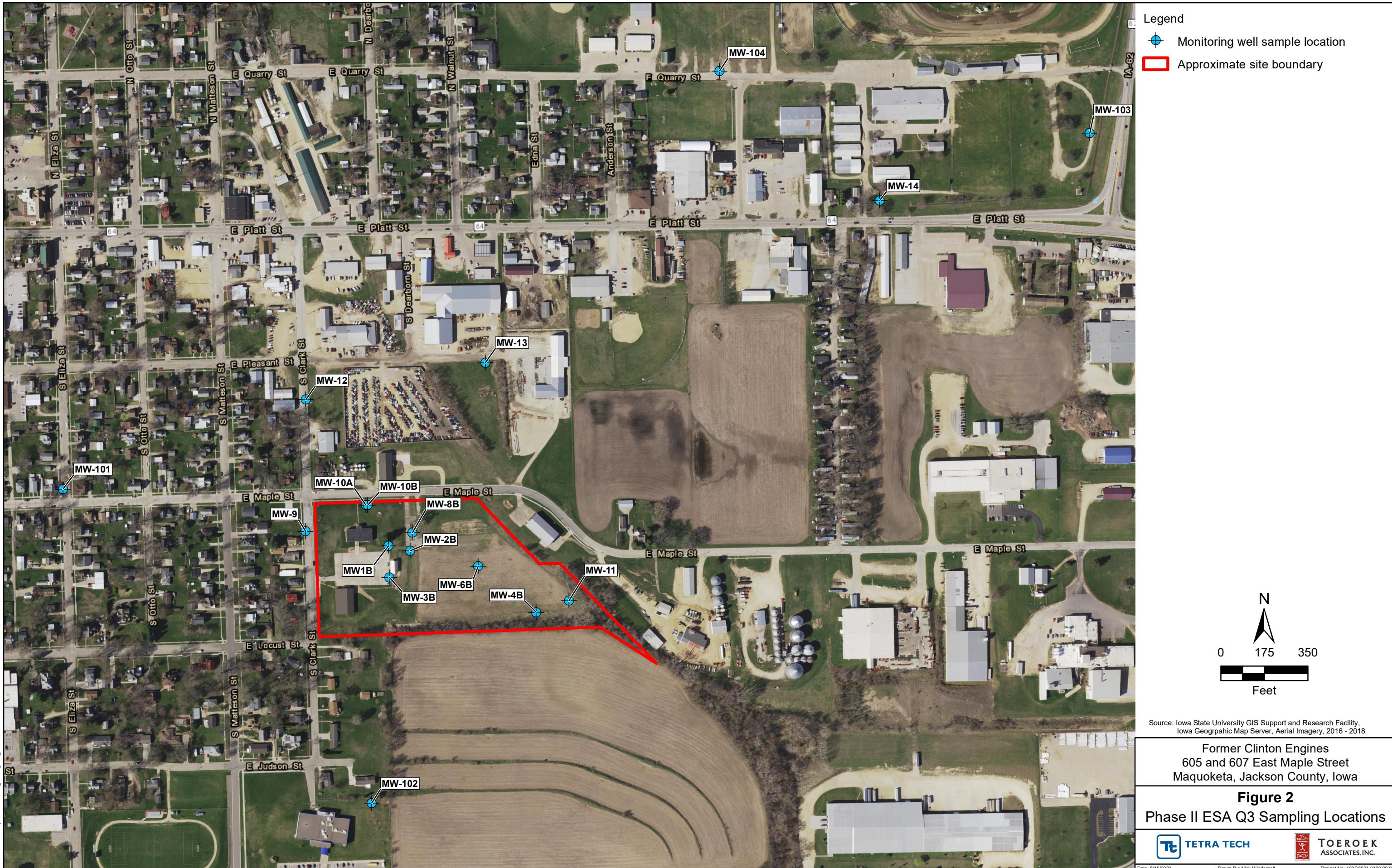
Figure 1
Site Location Map

TETRA TECH

TOEROEK
ASSOCIATES, INC.

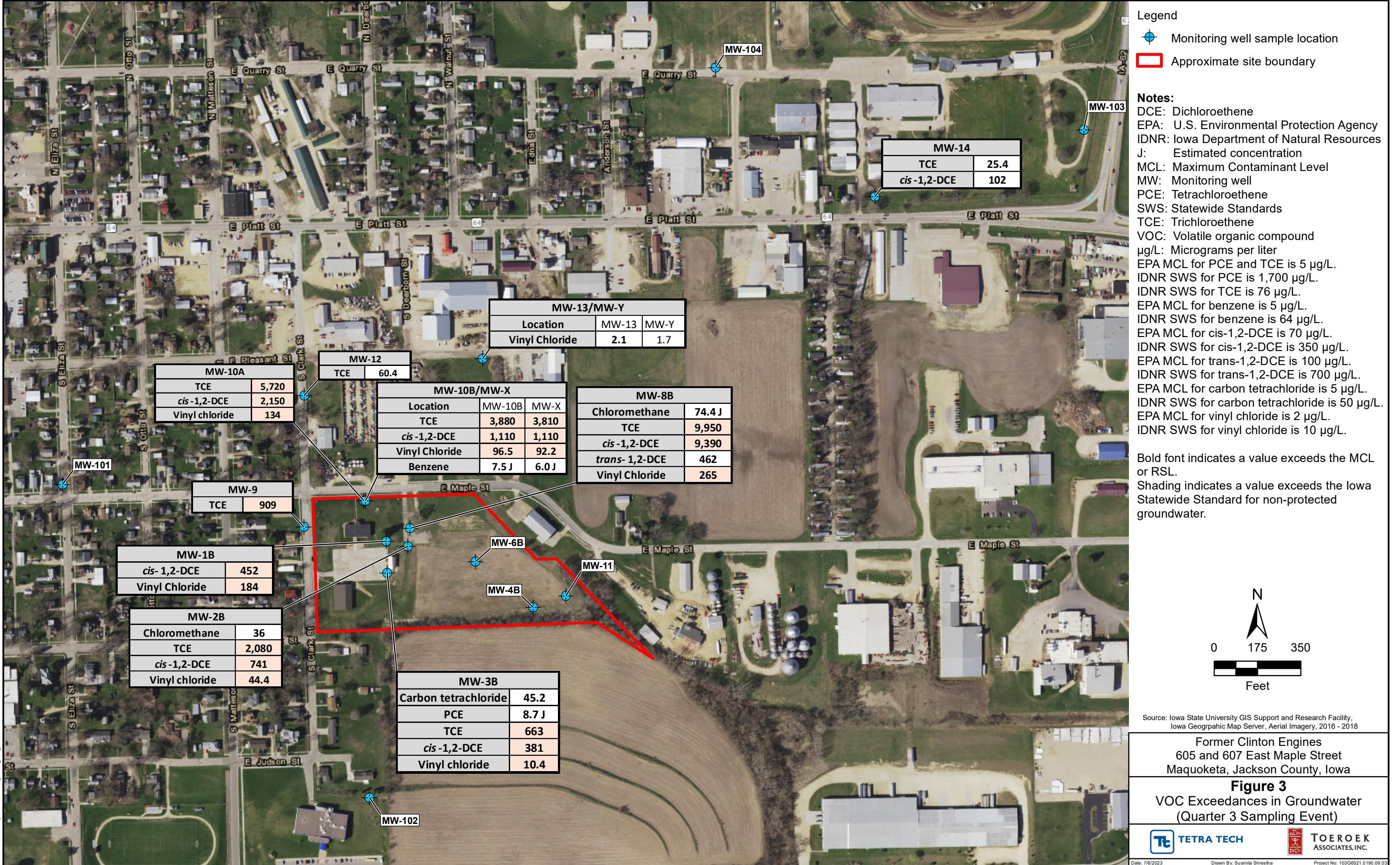
**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

**FIGURE 2
PHASE II ESA Q3 SAMPLING LOCATIONS**



**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

**FIGURE 3
VOC EXCEEDANCES IN GROUNDWATER**



**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

**APPENDIX B
HISTORICAL DATA TABLES**

TABLE B-1: HISTORICAL GROUNDWATER SAMPLE RESULTS

Location	Depth	Sample Date	1,1,1-TCA	1,1-DCA	1,1,2-TCA	PCE	TCE	1,1-DCE	cis -1,2-DCE	trans -1,2-DCE	VC	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes
			Concentration (µg/L)													
B46	55-59	5/15/2019	ND	ND	ND	ND	264	ND	37.3	1.34	ND	ND	ND	ND	ND	ND
	45-49	5/15/2019	ND	ND	ND	ND	281	ND	40.9	1.14	ND	ND	ND	ND	ND	ND
	35-39	5/15/2019	ND	ND	ND	ND	310	ND	156	1.3	ND	ND	ND	ND	ND	ND
	25-29	5/15/2019	ND	ND	ND	ND	118	ND	49.8	ND	ND	ND	ND	ND	ND	ND
	25-29FD	5/15/2019	ND	ND	ND	ND	92.1	ND	27.5	ND	ND	ND	ND	ND	ND	ND
B47	54-58	5/15/2019	ND	ND	ND	ND	191	ND	291	59.5	7.17	ND	0.535	ND	ND	ND
	44-48	5/15/2019	ND	ND	ND	ND	72.4	ND	167	25.5	5.14	ND	0.535	ND	ND	ND
	34-38	5/15/2019	ND	ND	ND	ND	93.9	ND	80.9	8.98	1.61	ND	ND	ND	ND	ND
	34-38FD	5/15/2019	ND	ND	ND	ND	77.8	ND	81.1	10.3	1.34	ND	ND	ND	ND	ND
	24-28	5/15/2019	ND	ND	ND	ND	29.5	ND	25.9	2.71	ND	ND	ND	ND	ND	ND
B-48	NA	5/22/2019	ND	ND	ND	ND	23.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-49	NA	5/22/2019	ND	ND	ND	ND	3.94	ND	ND	ND	ND	ND	ND	ND	ND	ND
B50	46-50	6/18/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B51	46-50	6/18/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B52	27-31	6/18/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B53	64-68	6/18/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B54	50-54	6/19/2019	ND	ND	ND	ND	1.1	ND	2.17	ND	ND	ND	ND	ND	ND	ND
B56	37-41	6/18/2019	ND	ND	ND	ND	355	ND	29	1.25	ND	ND	ND	ND	ND	ND
B57	25-29	6/20/2019	ND	ND	ND	ND	5.92	ND	1.29	ND	ND	ND	ND	7.61	ND	ND
MW-2R/SB	49-53	6/20/2019	ND	ND	ND	1.46	1.070	ND	350	54.7	9.12	ND	0.965	27.1	ND	ND

Notes:

B = Boring

BH = Borehole

DCA = Dichloroethane

DCE = Dichloroethene

FD = Field duplicate

ft bgs = Feet below ground surface

µg/L = Micrograms per liter

MW = Monitoring well

NA = Not available

ND = Not detected

NS = Analyte not selected for analysis

PCE = Tetrachloroethene

TCA = Trichloroethane

TCE = Trichloroethene

R = Replacement

SB = Soil boring

VC = Vinyl chloride

TABLE B-2: HISTORICAL VOLATILE ORGANIC COMPOUNDS IN SOILS

Notes:

B = Boring
BH = Borehole
CVOC = Chlorinated volatile organic compounds
DCE = Dichloroethene
EPA = U.S. Environmental Protection Agency
ft bgs = Feet below ground surface
FD = Field duplicate
µg/kg = Micrograms per kilogram

MW = Monitoring well
ND = Not detected
PCE = Tetrachloroethene
R = Replacement
START = Superfund Technical Assessment Response Team
TCA = Trichloroethane
TCE = Trichloroethene
VC = Vinyl chloride

TABLE B-3: AVAILABLE VAPOR INTRUSION SAMPLE RESULTS FOR SELECTED VOLATILE ORGANIC COMPOUNDS

Sample Location	Sample Type	Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Toluene	Xylenes
Impact 7G 2014-2020 Site Assessment VI Samples - TestAmerica Data								
Museum Sub-slab- Sample 1	Sub-slab	4/21/2014		930	850	47		8.5
Museum Sub-slab- Sample 2	Sub-slab	7/31/2014		730	450	33		
Museum Sub-slab- Sample 3	Sub-slab	10/29/2014		230	64	7.1		
Museum Sub-slab- Sample 4	Sub-slab	1/27/2015		540	560	22		
Vapor Pin (Sub-slab)	Sub-slab	3/22/2018		19	ND	ND	2.1	1.8
Outdoor Ambient Air	Ambient Air	3/22/2018		ND	ND	ND	0.85	ND
	Ambient Air	5/14/2019		ND	ND	ND	3.1	ND
	Ambient Air	12/10/2019		ND	ND	ND	ND	ND
	Ambient Air	9/23/2020		ND	ND	ND	ND	ND
Indoor Air - Basement	Indoor Air	3/22/2018		22	2.6	7	1.9	1.1
Indoor Air - Basement	Indoor Air	3/22/2018		23	2.7	7.5	2.2	1.3
Indoor Air - Main Level	Indoor Air	3/22/2018		19	2.2	5.7	2	1.2
Basement - Community Room	Indoor Air	4/24/2019		7.6	0.95	26	12	8.8
	Indoor Air	12/10/2019		12	1.1	1.5	1	102
	Indoor Air	9/23/2020	14.8	ND	ND	1.4		
Basement - Media Room	Indoor Air	4/24/2019		9	1.1	26	15	11
	Indoor Air	12/10/2019		12	1.4	3.2	143	2.1
	Indoor Air	12/20/2019		7.8/8.3	ND/ND	2.6/2.8	3.6/3.8	76/89
	Indoor Air	9/23/2020	36.8/29	ND/ND	ND/ND	1.2/2.1	ND/ND	14.3/14.4
First Level - Museum	Indoor Air	4/24/2019		2	ND	5.5	3.7	1.2
	Indoor Air	12/10/2019		6.4	ND	1	1.2	57
	Indoor Air	9/23/2020	ND	ND	ND	ND	1.4	2
First Level - Office	Indoor Air	4/24/2019		2.5	ND	7.7	4.6	5.5
	Indoor Air	12/10/2019		6.3	0.88	1.5	1.7	63
	Indoor Air	9/23/2020	ND	ND	ND	ND	ND	1.8
Depot	Indoor Air	12/10/2019		ND	ND	ND	ND	ND
Warehouse Building	Indoor Air	12/10/2019		ND	ND	ND	6.7	7.4

TABLE B-3: AVAILABLE VAPOR INTRUSION SAMPLE RESULTS FOR SELECTED VOLATILE ORGANIC COMPOUNDS

Address	Property and Sample Type	Sample Number	Location	TCE	cis- 1,2-DCE	trans- 1,2-DCE	VC	Toluene
EPA START July 2020 Sample Locations - EPA Region 7 Laboratory Data								
514 E. Maple St.	Residential - Indoor air	8612-10	Main Floor, Living Room	0.14 U	0.20 U	0.20 U	0.13 U	3.8
600 E. Maple St.	Residential - Indoor air	8612-7	Main Floor, Main Room	0.14 U	0.20 U	0.20 U	0.13 U	11
604 E. Maple St.	Commercial - Indoor air	8612-4	Left Building Shop (west)	0.35	0.28	0.79	0.13 U	1,700 J
		8612-5	Right Building Office (east)	0.14 U	0.20 U	0.20 U	0.13 U	300
803 E. Maple St.	Residential - Indoor air	8612-1	Main Floor, Living Room	0.2	0.20 U	0.51	0.13 U	680
802 E. Maple St.	Commercial - Indoor air	8612-6	Room with Furnace Closet	0.64	0.33	0.20 U	0.13 U	14
1286 E. Maple St.	Commercial - Indoor air	8612-23	Main Office Area	0.14 U	0.20 U	0.20 U	0.13 UJ	34
204 S. Matteson St.	Residential - Indoor air	8612-14	Main Floor, Living Room	0.14 U	0.20 U	0.20 U	0.13 U	3.3
316 S. Matteson St.	Residential - Indoor air	8612-8	Main Floor, Living Room	0.14 U	0.20 U	0.20 U	0.13 U	14
222 S. Matteson St.	Residential - Indoor air	8612-9	Main Floor, Office Room	0.14 U	0.20 U	0.20 U	0.13 U	10
312 S. Clark St.	Residential - Indoor air	8612-11	Main Floor – Kitchen	0.14 U	0.20 U	0.20 U	0.13 U	2.9
104 N. Dearborn St.	Residential - Indoor air	8612-2	Main Floor, Living Room	0.21	0.20 U	0.20 U	0.24	1.7
908 E. Platt St.	Residential - Indoor air	8612-13	Main Floor, Living Room	0.14 U	0.20 U	0.20 U	0.13 U	2.2
1207 E. Platt St.	Residential - Indoor air	8612-15	Main Floor, Living Room	0.14 U	0.20 U	0.20 U	0.13 UJ	0.76 U
1211 E. Platt St.	Commercial - Indoor air	8612-12	Main Floor, Front Desk	0.14 U	0.20 U	0.20 U	0.13 U	6.6
1215 E. Platt St.	Commercial - Indoor air	8612-3	Auditorium	0.14 U	0.20 U	0.20 U	0.13 U	13
EPA START February 2021 Sample Locations - EPA Region 7 Laboratory Data								
604 E. Maple St.	Commercial - Indoor air	8778-2	Left Building Shop (west)	0.14 U	0.20 U	0.46	0.13 U	460
802 E. Maple St.	Commercial - Indoor air	8778-4	Room with Furnace Closet	0.14 U	0.20 U	0.20 U	0.13 U	5.5
803 E. Maple St.	Residential - Indoor air	8778-9	Main Floor, Living Room	0.38	0.20 U	0.20 U	0.13 U	220
104 N. Dearborn St.	Residential - Indoor air	8778-6	Main Floor, Living Room	0.14 U	0.20 U	0.20 U	0.13 U	2.2
219 S. Matteson St.	Residential - Indoor air	8778-10	Main Floor, Dining Room	0.14 U	0.20 U	0.20 U	0.13 U	0.76 U
907 E. Platt St.	Residential - Indoor air	8778-7	Main Floor, Kitchen	0.38	0.20 U	0.20 U	0.13 U	8.8
908 E. Platt St.	Residential - Indoor air	8778-1	Main Floor, Living Room	0.14 U	0.20 U	0.20 U	0.13 U	2.9
Ambient Air June 2020 and February 2021								
217 S. Matteson St.	Ambient Air	8537-4	Backdoor Steps	0.14 U	NA	NA	NA	NA
314 S. Clark St.	Ambient Air	8537-6	Backdoor Steps	0.14 U	NA	NA	NA	NA
607 E. Maple St.	Ambient Air	8778-12	Museum Parking Lot	0.14 U	0.20 U	0.20 U	0.13 U	0.76 U

Notes:

DCE = Dichloroethene

EPA = U.S. Environmental Protection Agency

J = Estimated value

NA = Not available

ND = Not detected

PCE = Tetrachloroethene

START = Superfund Technical Assessment Response Team

TCE = Trichloroethene

U = Undetected at detection limit to left

VC = Vinyl chloride

TABLE B-6
QUARTER 1, NOVEMBER 2022

DETECTED VOC RESULTS FROM SOIL-GAS SAMPLES
FORMER CLINTON ENGINES SITE, MAQUOKETA, IOWA

Analyte	VISL Exterior Soil Gas (Residential)	VISL Exterior Soil Gas (Worker)	MW1B-SG	MW2B-SG	MW3B-SG	MW4B-SG	MW8B-SG	MW9-SG	MW10-SG	MW11-SG	MW13-SG	MW14-SG	MW101-SG	MW102-SG	MW103-SG	MW104-SG	
			Concentration ($\mu\text{g}/\text{m}^3$)														
Naphthalene	10.4	43.8	ND	ND	ND	ND	7.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Propanol	695	2,920	ND	ND	ND	ND	ND	46.9	ND	ND	5.63	2.53 J	ND	ND	ND	ND	ND
Propylene	10,400	43,800	ND	7.51	22	ND	ND	6.96	2.67	ND	ND	4.8	ND	4.06	9.07	2.81	
Tetrachloroethene	140	580	1.13 J	8.35	ND	ND	3.42	4.26	ND	1.32 J	ND	1.64	ND	1.36	1.41	0.91 J	
Toluene	17,000	73,000	ND	23.7	2.98	4.56	5.91	1.36 J	5.5	ND	1.57 J	14.3	5.99	ND	81	56.5	
Trichloroethene	6.7	20	ND	1,800	20.7	1.17	122	8.73	11.1	298	ND	4	ND	ND	ND	1.63	
1,2,4-Trimethylbenzene	209	876	4.8	4.3	2.63	3.15	4.49	0.628 J	3.16	3.01	0.54 J	1.64	1.61	3.38	12.9	1.93	
1,3,5-Trimethylbenzene	209	876	1.3	1.45	1.2	0.893 J	ND	ND	0.78 J	0.982 J	ND	0.687 J	0.52 J	0.987	5.94	0.756 J	
2,2,4-Trimethylpentane	NE	NE	ND	ND	180	1.55	ND	ND	2.51	1.74	0.878 J	2.72	1.07	ND	86.9	17.6	
Vinyl chloride	56	930	ND	ND	7.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
m- & p-Xylenes	350	1,500	9.19	9.67	4.19	6.29	8.06	1.37 J	6.2	7.93	1.17 J	5.25	6.11	9.49	73.3	20.1	
o-Xylenes	350	1,500	2.88	3.69	0.776 J	2.24	2.82	0.65 J	2.24	3	0.529 J	1.99	1.88	2.64	29	6.2	

Notes:

Bold font indicates concentration exceeds the EPA Residential VISL.

Red highlight indicates concentration exceeds the EPA Worker VISL.

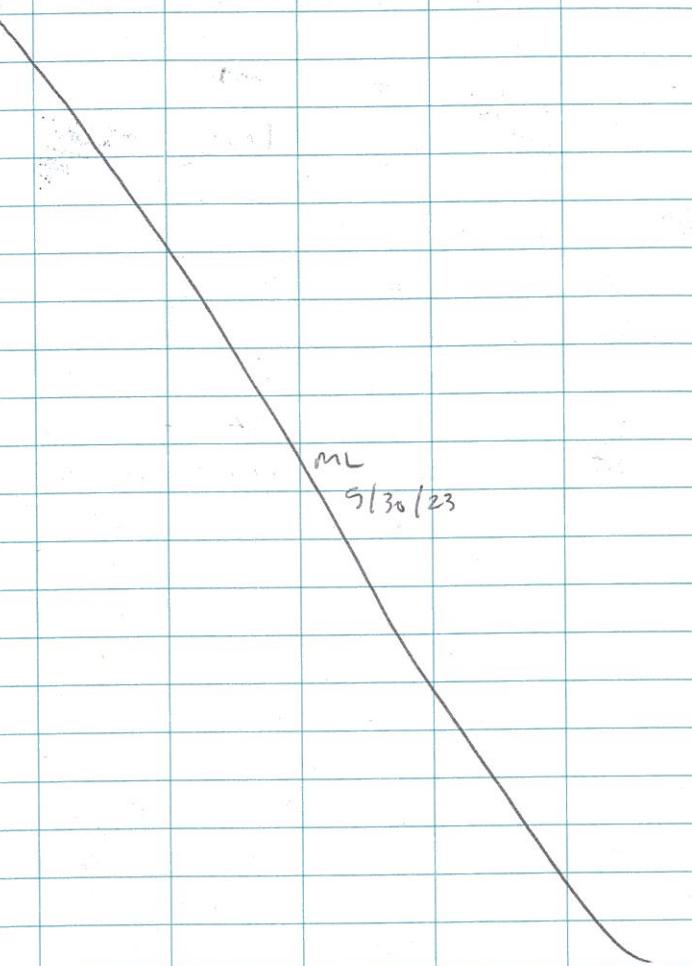
EPA	U.S. Environmental Protection Agency
J	Estimated value
$\mu\text{g}/\text{m}^3$	Micrograms per cubic meter
ND	Not detected
NE	Not established
SG	Soil gas
THQ	Total hazard quotient
TR	Total cancer risk
VISL	EPA Vapor Intrusion Screening Level (EPA 2022b)
VOC	Volatile organic compound

**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

**APPENDIX C
LOGBOOK**

5/30/23 Clinton Engines
 1000 Leave KC office for hotel
 in Davenport.
 1630 Arrive at hotel in Davenport.
 No further work today.

ML
 5/30/23



5/31/23 Clinton engines
 0715 Leave hotel for the site.
 0815 Arrive on site.
 MW-102
 Depth: 63.5 ft
 0842 collect sample MW-102
 0908 Arrive at MW-3B
 Depth: 21 ft
 0918 collect sample MW-3B
 0928 Arrive at MW-1B
 Depth: 18.2 ft
 0936 Collect sample MW-1B
 0948 Arrive at MW-9
 Depth: 14.85 ft
 0951 collect sample MW-9
 1002 Arrive at MW-10A. and MW-10B
 Depth: 12.3 ft - MW-10A
 1008 collect sample MW-10A
 Depth: 13.6 ft - MW-10B
 1016 collect sample MW-10B
 1016 collect sample MW-X
 1042 Arrive at MW-14
 Depth: 11.1 ft
 1050 collect sample MW-14
 Black substance present on
 cap of PD bag. Slight odor present.

- 10 5/31/23 Clinton Engines
- 1100 Arrive at MW-103
Depth: 15.8 ft
- 1106 Collect sample [MW-103]
- 1115 Arrive at MW-104
Depth: 17.35
- 1120 Collect sample [MW-104]
- 1134 Arrive at MW-13
Depth: 8.5 ft
- 1140 Collect sample [MW-13]
- 1140 Collect sample [MW-7]
Arrive at MW-12
Depth: 6.9 ft
- 1156 Collect Sample [MW-12]
- 1207 Arrive at MW-101
Depth: 24.6 ft
- 1212 Collect Sample [MW-101]
- 1304 Arrive at MW-6B
Depth: 22.2 ft
- 1312 collect sample [mw-6B]
Black substance present on PD bag
Cap. Slight odor present
- 1320 Arrive at MW-11B
Depth: 14.3 ft
- 1332 collect Sample [MW-11B]
- 1337 Arrive at MW-4B
Depth: 13.5 ft

- 5/31/23 Clinton Engines 11
- 1342 Collect sample [MW-4B]
- 1350 Arrive at MW-2B
Depth: 16.3 ft
- 1354 collect Sample [MW-2B]
- 1404 Arrive at MW-8B
Depth: 14.3
- 1412 collect sample [MW-8B]
- 1415 Collect Sample [Field Blank]
- 1420 Collect Sample [Trip Blank]
- 1425 Leaving the site. Going to get ice for the sample cooler.
- 1430 Leaving for KC office.
- 2000 Return to KC office, put samples in fridge. No further work today

ML
5/31/22

12 6/1/23 Clinton Engines
0900 Return Samples to iced cooler
and notified Scott Farris at
Pace Labs that the sample
cooler is ready for pickup.
No further work today,
end of day. ML

ML
6/1/23

**PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 3
SITE 9 – FORMER CLINTON ENGINES
MAQUOKETA, IOWA**

APPENDIX D

ANALYTICAL DATA PACKAGE AND DATA VALIDATION REPORT

June 07, 2023

Kaitlyn Mitchell
Tetra Tech EMI
415 Oak
Kansas City, MO 64106

RE: Project: CLINTON ENGINES
Pace Project No.: 60429976

Dear Kaitlyn Mitchell:

Enclosed are the analytical results for sample(s) received by the laboratory on June 01, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jamie Church
jamie.church@pacelabs.com
314-838-7223
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219	Nevada Certification #: KS000212023-1
Missouri Inorganic Drinking Water Certification #: 10090	Oklahoma Certification #: 2022-057
Arkansas Drinking Water	Florida: Cert E871149 SEKS WET
Arkansas Certification #: 88-00679	Texas Certification #: T104704407-22-16
Illinois Certification #: 2000302023-5	Utah Certification #: KS000212022-12
Iowa Certification #: 118	Illinois Certification #: 004592
Kansas/NELAP Certification #: E-10116	Kansas Field Laboratory Accreditation: # E-92587
Louisiana Certification #: 03055	Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: CLINTON ENGINES
Pace Project No.: 60429976

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60429976001	MW-102	Water	05/31/23 08:42	06/01/23 10:55
60429976002	MW-3B	Water	05/31/23 09:18	06/01/23 10:55
60429976003	MW-1B	Water	05/31/23 09:36	06/01/23 10:55
60429976004	MW-9	Water	05/31/23 09:54	06/01/23 10:55
60429976005	MW-10A	Water	05/31/23 10:08	06/01/23 10:55
60429976006	MW-10B	Water	05/31/23 10:16	06/01/23 10:55
60429976007	MW-X	Water	05/31/23 10:16	06/01/23 10:55
60429976008	MW-14	Water	05/31/23 10:50	06/01/23 10:55
60429976009	MW-103	Water	05/31/23 11:06	06/01/23 10:55
60429976010	MW-104	Water	05/31/23 11:20	06/01/23 10:55
60429976011	MW-13	Water	05/31/23 11:40	06/01/23 10:55
60429976012	MW-Y	Water	05/31/23 11:40	06/01/23 10:55
60429976013	MW-12	Water	05/31/23 11:56	06/01/23 10:55
60429976014	MW-101	Water	05/31/23 12:12	06/01/23 10:55
60429976015	MW-6B	Water	05/31/23 13:12	06/01/23 10:55
60429976016	MW-11B	Water	05/31/23 13:32	06/01/23 10:55
60429976017	MW-4B	Water	05/31/23 13:42	06/01/23 10:55
60429976018	MW-2B	Water	05/31/23 13:51	06/01/23 10:55
60429976019	MW-8B	Water	05/31/23 14:12	06/01/23 10:55
60429976020	FIELD BLANK	Water	05/31/23 14:15	06/01/23 10:55
60429976021	TRIP BLANK	Water	05/31/23 14:20	06/01/23 10:55

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: CLINTON ENGINES
Pace Project No.: 60429976

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60429976001	MW-102	EPA 5030B/8260	PGH	69	PASI-K
60429976002	MW-3B	EPA 5030B/8260	PGH	69	PASI-K
60429976003	MW-1B	EPA 5030B/8260	PGH	69	PASI-K
60429976004	MW-9	EPA 5030B/8260	PGH	69	PASI-K
60429976005	MW-10A	EPA 5030B/8260	PGH	69	PASI-K
60429976006	MW-10B	EPA 5030B/8260	PGH	69	PASI-K
60429976007	MW-X	EPA 5030B/8260	PGH	69	PASI-K
60429976008	MW-14	EPA 5030B/8260	PGH	69	PASI-K
60429976009	MW-103	EPA 5030B/8260	PGH	69	PASI-K
60429976010	MW-104	EPA 5030B/8260	PGH	69	PASI-K
60429976011	MW-13	EPA 5030B/8260	PGH	69	PASI-K
60429976012	MW-Y	EPA 5030B/8260	HM1	69	PASI-K
60429976013	MW-12	EPA 5030B/8260	HM1	69	PASI-K
60429976014	MW-101	EPA 5030B/8260	HM1	69	PASI-K
60429976015	MW-6B	EPA 5030B/8260	HM1	69	PASI-K
60429976016	MW-11B	EPA 5030B/8260	HM1	69	PASI-K
60429976017	MW-4B	EPA 5030B/8260	HM1	69	PASI-K
60429976018	MW-2B	EPA 5030B/8260	HM1	69	PASI-K
60429976019	MW-8B	EPA 5030B/8260	HM1	69	PASI-K
60429976020	FIELD BLANK	EPA 5030B/8260	HM1	69	PASI-K
60429976021	TRIP BLANK	EPA 5030B/8260	HM1	69	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-102	Lab ID: 60429976001	Collected: 05/31/23 08:42	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.74	1		06/01/23 16:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		06/01/23 16:36	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.82	1		06/01/23 16:36	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.12	1		06/01/23 16:36	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		06/01/23 16:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.084	1		06/01/23 16:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		06/01/23 16:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.33	1		06/01/23 16:36	127-18-4	
Toluene	ND	ug/L	1.0	0.25	1		06/01/23 16:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.93	1		06/01/23 16:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		06/01/23 16:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		06/01/23 16:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.14	1		06/01/23 16:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.21	1		06/01/23 16:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.16	1		06/01/23 16:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.41	1		06/01/23 16:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.32	1		06/01/23 16:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.090	1		06/01/23 16:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.17	1		06/01/23 16:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.28	1		06/01/23 16:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		06/01/23 16:36	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120		1		06/01/23 16:36	2199-69-1	
Toluene-d8 (S)	99	%	80-120		1		06/01/23 16:36	2037-26-5	
Preservation pH	1.0		0.10		1		06/01/23 16:36		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-3B	Lab ID: 60429976002	Collected: 05/31/23 09:18	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	7.4	10		06/01/23 18:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1.3	10		06/01/23 18:01	1634-04-4	
Naphthalene	ND	ug/L	100	8.2	10		06/01/23 18:01	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	1.2	10		06/01/23 18:01	103-65-1	
Styrene	ND	ug/L	10.0	1.2	10		06/01/23 18:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	0.84	10		06/01/23 18:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	1.5	10		06/01/23 18:01	79-34-5	
Tetrachloroethylene	8.7J	ug/L	10.0	3.3	10		06/01/23 18:01	127-18-4	
Toluene	ND	ug/L	10.0	2.5	10		06/01/23 18:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	9.3	10		06/01/23 18:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	7.3	10		06/01/23 18:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	1.1	10		06/01/23 18:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	1.4	10		06/01/23 18:01	79-00-5	
Trichloroethylene	663	ug/L	10.0	2.1	10		06/01/23 18:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1.6	10		06/01/23 18:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	25.0	4.1	10		06/01/23 18:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	3.2	10		06/01/23 18:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	0.90	10		06/01/23 18:01	108-67-8	
Vinyl chloride	10.4	ug/L	10.0	1.7	10		06/01/23 18:01	75-01-4	
Xylene (Total)	ND	ug/L	30.0	2.8	10		06/01/23 18:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	80-120		10		06/01/23 18:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120		10		06/01/23 18:01	2199-69-1	
Toluene-d8 (S)	97	%	80-120		10		06/01/23 18:01	2037-26-5	
Preservation pH	1.0		0.10		10		06/01/23 18:01		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-1B	Lab ID: 60429976003	Collected: 05/31/23 09:36	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	3.7	5		06/01/23 17:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	0.64	5		06/01/23 17:47	1634-04-4	
Naphthalene	ND	ug/L	50.0	4.1	5		06/01/23 17:47	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	0.60	5		06/01/23 17:47	103-65-1	
Styrene	ND	ug/L	5.0	0.62	5		06/01/23 17:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.42	5		06/01/23 17:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	0.77	5		06/01/23 17:47	79-34-5	
Tetrachloroethylene	ND	ug/L	5.0	1.6	5		06/01/23 17:47	127-18-4	
Toluene	7.7	ug/L	5.0	1.3	5		06/01/23 17:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	4.6	5		06/01/23 17:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	3.7	5		06/01/23 17:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.54	5		06/01/23 17:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.71	5		06/01/23 17:47	79-00-5	
Trichloroethylene	2.8J	ug/L	5.0	1.0	5		06/01/23 17:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	0.82	5		06/01/23 17:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	12.5	2.0	5		06/01/23 17:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.6	5		06/01/23 17:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	0.45	5		06/01/23 17:47	108-67-8	
Vinyl chloride	184	ug/L	5.0	0.84	5		06/01/23 17:47	75-01-4	
Xylene (Total)	1.5J	ug/L	15.0	1.4	5		06/01/23 17:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	106	%	80-120		5		06/01/23 17:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	80-120		5		06/01/23 17:47	2199-69-1	
Toluene-d8 (S)	99	%	80-120		5		06/01/23 17:47	2037-26-5	
Preservation pH	1.0		0.10		5		06/01/23 17:47		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-9	Lab ID: 60429976004	Collected: 05/31/23 09:54	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	200	14.7	20		06/01/23 18:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	2.6	20		06/01/23 18:15	1634-04-4	
Naphthalene	ND	ug/L	200	16.4	20		06/01/23 18:15	91-20-3	
n-Propylbenzene	ND	ug/L	20.0	2.4	20		06/01/23 18:15	103-65-1	
Styrene	ND	ug/L	20.0	2.5	20		06/01/23 18:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	20.0	1.7	20		06/01/23 18:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	3.1	20		06/01/23 18:15	79-34-5	
Tetrachloroethylene	ND	ug/L	20.0	6.6	20		06/01/23 18:15	127-18-4	
Toluene	ND	ug/L	20.0	5.1	20		06/01/23 18:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	20.0	18.5	20		06/01/23 18:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	20.0	14.6	20		06/01/23 18:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	20.0	2.2	20		06/01/23 18:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	20.0	2.8	20		06/01/23 18:15	79-00-5	
Trichloroethylene	909	ug/L	20.0	4.2	20		06/01/23 18:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	20.0	3.3	20		06/01/23 18:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	50.0	8.2	20		06/01/23 18:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	20.0	6.5	20		06/01/23 18:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	20.0	1.8	20		06/01/23 18:15	108-67-8	
Vinyl chloride	ND	ug/L	20.0	3.3	20		06/01/23 18:15	75-01-4	
Xylene (Total)	ND	ug/L	60.0	5.6	20		06/01/23 18:15	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	80-120		20		06/01/23 18:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	80-120		20		06/01/23 18:15	2199-69-1	
Toluene-d8 (S)	99	%	80-120		20		06/01/23 18:15	2037-26-5	
Preservation pH	1.0		0.10		20		06/01/23 18:15		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES

Pace Project No.: 60429976

Sample: MW-10A	Lab ID: 60429976005	Collected: 05/31/23 10:08	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
Acetone	ND	ug/L	1000	254	100		06/01/23 19:12	67-64-1	
Benzene	ND	ug/L	100	13.6	100		06/01/23 19:12	71-43-2	
Bromobenzene	ND	ug/L	100	8.8	100		06/01/23 19:12	108-86-1	
Bromochloromethane	ND	ug/L	100	20.2	100		06/01/23 19:12	74-97-5	
Bromodichloromethane	ND	ug/L	100	15.5	100		06/01/23 19:12	75-27-4	
Bromoform	ND	ug/L	100	67.6	100		06/01/23 19:12	75-25-2	
Bromomethane	ND	ug/L	500	46.0	100		06/01/23 19:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	1000	97.5	100		06/01/23 19:12	78-93-3	
n-Butylbenzene	ND	ug/L	100	15.3	100		06/01/23 19:12	104-51-8	
sec-Butylbenzene	ND	ug/L	100	11.0	100		06/01/23 19:12	135-98-8	
tert-Butylbenzene	ND	ug/L	100	12.0	100		06/01/23 19:12	98-06-6	
Carbon disulfide	ND	ug/L	500	97.8	100		06/01/23 19:12	75-15-0	
Carbon tetrachloride	ND	ug/L	100	17.2	100		06/01/23 19:12	56-23-5	
Chlorobenzene	ND	ug/L	100	8.9	100		06/01/23 19:12	108-90-7	
Chloroethane	ND	ug/L	100	37.4	100		06/01/23 19:12	75-00-3	
Chloroform	ND	ug/L	100	22.0	100		06/01/23 19:12	67-66-3	
Chloromethane	ND	ug/L	100	28.3	100		06/01/23 19:12	74-87-3	
2-Chlorotoluene	ND	ug/L	100	10.8	100		06/01/23 19:12	95-49-8	
4-Chlorotoluene	ND	ug/L	100	14.9	100		06/01/23 19:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	250	78.0	100		06/01/23 19:12	96-12-8	
Dibromochloromethane	ND	ug/L	100	30.5	100		06/01/23 19:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	100	19.6	100		06/01/23 19:12	106-93-4	
Dibromomethane	ND	ug/L	100	10.9	100		06/01/23 19:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	100	12.5	100		06/01/23 19:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	100	13.2	100		06/01/23 19:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	100	13.3	100		06/01/23 19:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	100	19.9	100		06/01/23 19:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	100	12.2	100		06/01/23 19:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	100	21.2	100		06/01/23 19:12	107-06-2	
1,2-Dichloroethene (Total)	2180	ug/L	100	22.2	100		06/01/23 19:12	540-59-0	
1,1-Dichloroethene	ND	ug/L	100	21.9	100		06/01/23 19:12	75-35-4	
cis-1,2-Dichloroethene	2150	ug/L	100	12.9	100		06/01/23 19:12	156-59-2	
trans-1,2-Dichloroethene	27.6J	ug/L	100	10.2	100		06/01/23 19:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	100	13.9	100		06/01/23 19:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	100	10.4	100		06/01/23 19:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	100	16.2	100		06/01/23 19:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	100	13.5	100		06/01/23 19:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	100	7.8	100		06/01/23 19:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	100	18.2	100		06/01/23 19:12	10061-02-6	
Ethylbenzene	ND	ug/L	100	12.0	100		06/01/23 19:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	100	41.7	100		06/01/23 19:12	87-68-3	
2-Hexanone	ND	ug/L	1000	110	100		06/01/23 19:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	100	9.7	100		06/01/23 19:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	100	12.7	100		06/01/23 19:12	99-87-6	
Methylene Chloride	54.0J	ug/L	100	39.1	100		06/01/23 19:12	75-09-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-10A	Lab ID: 60429976005	Collected: 05/31/23 10:08	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	1000	73.6	100		06/01/23 19:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	100	12.8	100		06/01/23 19:12	1634-04-4	
Naphthalene	ND	ug/L	1000	82.2	100		06/01/23 19:12	91-20-3	
n-Propylbenzene	ND	ug/L	100	11.9	100		06/01/23 19:12	103-65-1	
Styrene	ND	ug/L	100	12.3	100		06/01/23 19:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	100	8.4	100		06/01/23 19:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	15.4	100		06/01/23 19:12	79-34-5	
Tetrachloroethene	ND	ug/L	100	33.0	100		06/01/23 19:12	127-18-4	
Toluene	ND	ug/L	100	25.3	100		06/01/23 19:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	100	92.7	100		06/01/23 19:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	100	73.2	100		06/01/23 19:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	100	10.9	100		06/01/23 19:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	100	14.2	100		06/01/23 19:12	79-00-5	
Trichloroethene	5720	ug/L	100	21.0	100		06/01/23 19:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	100	16.4	100		06/01/23 19:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	250	40.8	100		06/01/23 19:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	100	32.4	100		06/01/23 19:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	100	9.0	100		06/01/23 19:12	108-67-8	
Vinyl chloride	134	ug/L	100	16.7	100		06/01/23 19:12	75-01-4	
Xylene (Total)	ND	ug/L	300	28.2	100		06/01/23 19:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	80-120		100		06/01/23 19:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	80-120		100		06/01/23 19:12	2199-69-1	
Toluene-d8 (S)	97	%	80-120		100		06/01/23 19:12	2037-26-5	
Preservation pH	1.0		0.10		100		06/01/23 19:12		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-10B	Lab ID: 60429976006	Collected: 05/31/23 10:16	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500	36.8	50		06/01/23 18:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	6.4	50		06/01/23 18:44	1634-04-4	
Naphthalene	ND	ug/L	500	41.1	50		06/01/23 18:44	91-20-3	
n-Propylbenzene	ND	ug/L	50.0	6.0	50		06/01/23 18:44	103-65-1	
Styrene	ND	ug/L	50.0	6.2	50		06/01/23 18:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	4.2	50		06/01/23 18:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	7.7	50		06/01/23 18:44	79-34-5	
Tetrachloroethylene	ND	ug/L	50.0	16.5	50		06/01/23 18:44	127-18-4	
Toluene	ND	ug/L	50.0	12.6	50		06/01/23 18:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	46.4	50		06/01/23 18:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	36.6	50		06/01/23 18:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	5.4	50		06/01/23 18:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	7.1	50		06/01/23 18:44	79-00-5	
Trichloroethylene	3880	ug/L	50.0	10.5	50		06/01/23 18:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	8.2	50		06/01/23 18:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	125	20.4	50		06/01/23 18:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	50.0	16.2	50		06/01/23 18:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	50.0	4.5	50		06/01/23 18:44	108-67-8	
Vinyl chloride	96.5	ug/L	50.0	8.4	50		06/01/23 18:44	75-01-4	
Xylene (Total)	ND	ug/L	150	14.1	50		06/01/23 18:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	107	%	80-120		50		06/01/23 18:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120		50		06/01/23 18:44	2199-69-1	
Toluene-d8 (S)	98	%	80-120		50		06/01/23 18:44	2037-26-5	
Preservation pH	1.0		0.10		50		06/01/23 18:44		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-X	Lab ID: 60429976007	Collected: 05/31/23 10:16	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	200	14.7	20		06/01/23 18:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	2.6	20		06/01/23 18:29	1634-04-4	
Naphthalene	ND	ug/L	200	16.4	20		06/01/23 18:29	91-20-3	
n-Propylbenzene	ND	ug/L	20.0	2.4	20		06/01/23 18:29	103-65-1	
Styrene	ND	ug/L	20.0	2.5	20		06/01/23 18:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	20.0	1.7	20		06/01/23 18:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	3.1	20		06/01/23 18:29	79-34-5	
Tetrachloroethylene	ND	ug/L	20.0	6.6	20		06/01/23 18:29	127-18-4	
Toluene	ND	ug/L	20.0	5.1	20		06/01/23 18:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	20.0	18.5	20		06/01/23 18:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	20.0	14.6	20		06/01/23 18:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	20.0	2.2	20		06/01/23 18:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	20.0	2.8	20		06/01/23 18:29	79-00-5	
Trichloroethylene	3810	ug/L	20.0	4.2	20		06/01/23 18:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	20.0	3.3	20		06/01/23 18:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	50.0	8.2	20		06/01/23 18:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	20.0	6.5	20		06/01/23 18:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	20.0	1.8	20		06/01/23 18:29	108-67-8	
Vinyl chloride	92.2	ug/L	20.0	3.3	20		06/01/23 18:29	75-01-4	
Xylene (Total)	ND	ug/L	60.0	5.6	20		06/01/23 18:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	80-120		20		06/01/23 18:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120		20		06/01/23 18:29	2199-69-1	
Toluene-d8 (S)	100	%	80-120		20		06/01/23 18:29	2037-26-5	
Preservation pH	1.0		0.10		20		06/01/23 18:29		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES

Pace Project No.: 60429976

Sample: MW-14 Lab ID: 60429976008 Collected: 05/31/23 10:50 Received: 06/01/23 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260							
		Pace Analytical Services - Kansas City							
Acetone	22.8	ug/L	10.0	2.5	1		06/01/23 17:33	67-64-1	
Benzene	ND	ug/L	1.0	0.14	1		06/01/23 17:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.088	1		06/01/23 17:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.20	1		06/01/23 17:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.16	1		06/01/23 17:33	75-27-4	
Bromoform	ND	ug/L	1.0	0.68	1		06/01/23 17:33	75-25-2	
Bromomethane	ND	ug/L	5.0	0.46	1		06/01/23 17:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.98	1		06/01/23 17:33	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.15	1		06/01/23 17:33	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.11	1		06/01/23 17:33	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.12	1		06/01/23 17:33	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.98	1		06/01/23 17:33	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.17	1		06/01/23 17:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.089	1		06/01/23 17:33	108-90-7	
Chloroethane	ND	ug/L	1.0	0.37	1		06/01/23 17:33	75-00-3	
Chloroform	ND	ug/L	1.0	0.22	1		06/01/23 17:33	67-66-3	
Chloromethane	ND	ug/L	1.0	0.28	1		06/01/23 17:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.11	1		06/01/23 17:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.15	1		06/01/23 17:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.78	1		06/01/23 17:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.30	1		06/01/23 17:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		06/01/23 17:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.11	1		06/01/23 17:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.12	1		06/01/23 17:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/01/23 17:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/01/23 17:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.20	1		06/01/23 17:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.12	1		06/01/23 17:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.21	1		06/01/23 17:33	107-06-2	
1,2-Dichloroethylene (Total)	153	ug/L	1.0	0.22	1		06/01/23 17:33	540-59-0	
1,1-Dichloroethene	0.32J	ug/L	1.0	0.22	1		06/01/23 17:33	75-35-4	
cis-1,2-Dichloroethene	102	ug/L	1.0	0.13	1		06/01/23 17:33	156-59-2	
trans-1,2-Dichloroethene	51.7	ug/L	1.0	0.10	1		06/01/23 17:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1		06/01/23 17:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.10	1		06/01/23 17:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.16	1		06/01/23 17:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.14	1		06/01/23 17:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.078	1		06/01/23 17:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.18	1		06/01/23 17:33	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.12	1		06/01/23 17:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.42	1		06/01/23 17:33	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.1	1		06/01/23 17:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.097	1		06/01/23 17:33	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.13	1		06/01/23 17:33	99-87-6	
Methylene Chloride	ND	ug/L	1.0	0.39	1		06/01/23 17:33	75-09-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-14	Lab ID: 60429976008	Collected: 05/31/23 10:50	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.74	1		06/01/23 17:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		06/01/23 17:33	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.82	1		06/01/23 17:33	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.12	1		06/01/23 17:33	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		06/01/23 17:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.084	1		06/01/23 17:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		06/01/23 17:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.33	1		06/01/23 17:33	127-18-4	
Toluene	ND	ug/L	1.0	0.25	1		06/01/23 17:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.93	1		06/01/23 17:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		06/01/23 17:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		06/01/23 17:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.14	1		06/01/23 17:33	79-00-5	
Trichloroethene	25.4	ug/L	1.0	0.21	1		06/01/23 17:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.16	1		06/01/23 17:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.41	1		06/01/23 17:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.32	1		06/01/23 17:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.090	1		06/01/23 17:33	108-67-8	
Vinyl chloride	1.3	ug/L	1.0	0.17	1		06/01/23 17:33	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.28	1		06/01/23 17:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	106	%	80-120		1		06/01/23 17:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120		1		06/01/23 17:33	2199-69-1	
Toluene-d8 (S)	98	%	80-120		1		06/01/23 17:33	2037-26-5	
Preservation pH	1.0			0.10		1		06/01/23 17:33	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
 Pace Project No.: 60429976

Sample: MW-103	Lab ID: 60429976009	Collected: 05/31/23 11:06	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
Acetone	37.2	ug/L	10.0	2.5	1		06/01/23 16:50	67-64-1	
Benzene	ND	ug/L	1.0	0.14	1		06/01/23 16:50	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.088	1		06/01/23 16:50	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.20	1		06/01/23 16:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.16	1		06/01/23 16:50	75-27-4	
Bromoform	ND	ug/L	1.0	0.68	1		06/01/23 16:50	75-25-2	
Bromomethane	ND	ug/L	5.0	0.46	1		06/01/23 16:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.98	1		06/01/23 16:50	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.15	1		06/01/23 16:50	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.11	1		06/01/23 16:50	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.12	1		06/01/23 16:50	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.98	1		06/01/23 16:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.17	1		06/01/23 16:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.089	1		06/01/23 16:50	108-90-7	
Chloroethane	ND	ug/L	1.0	0.37	1		06/01/23 16:50	75-00-3	
Chloroform	ND	ug/L	1.0	0.22	1		06/01/23 16:50	67-66-3	
Chloromethane	ND	ug/L	1.0	0.28	1		06/01/23 16:50	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.11	1		06/01/23 16:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.15	1		06/01/23 16:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.78	1		06/01/23 16:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.30	1		06/01/23 16:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		06/01/23 16:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.11	1		06/01/23 16:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.12	1		06/01/23 16:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/01/23 16:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/01/23 16:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.20	1		06/01/23 16:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.12	1		06/01/23 16:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.21	1		06/01/23 16:50	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.22	1		06/01/23 16:50	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.22	1		06/01/23 16:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.13	1		06/01/23 16:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.10	1		06/01/23 16:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1		06/01/23 16:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.10	1		06/01/23 16:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.16	1		06/01/23 16:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.14	1		06/01/23 16:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.078	1		06/01/23 16:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.18	1		06/01/23 16:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.12	1		06/01/23 16:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.42	1		06/01/23 16:50	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.1	1		06/01/23 16:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.097	1		06/01/23 16:50	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.13	1		06/01/23 16:50	99-87-6	
Methylene Chloride	ND	ug/L	1.0	0.39	1		06/01/23 16:50	75-09-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-103	Lab ID: 60429976009	Collected: 05/31/23 11:06	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.74	1		06/01/23 16:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		06/01/23 16:50	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.82	1		06/01/23 16:50	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.12	1		06/01/23 16:50	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		06/01/23 16:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.084	1		06/01/23 16:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		06/01/23 16:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.33	1		06/01/23 16:50	127-18-4	
Toluene	ND	ug/L	1.0	0.25	1		06/01/23 16:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.93	1		06/01/23 16:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		06/01/23 16:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		06/01/23 16:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.14	1		06/01/23 16:50	79-00-5	
Trichloroethene	0.83J	ug/L	1.0	0.21	1		06/01/23 16:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.16	1		06/01/23 16:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.41	1		06/01/23 16:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.32	1		06/01/23 16:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.090	1		06/01/23 16:50	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.17	1		06/01/23 16:50	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.28	1		06/01/23 16:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	80-120		1		06/01/23 16:50	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120		1		06/01/23 16:50	2199-69-1	
Toluene-d8 (S)	102	%	80-120		1		06/01/23 16:50	2037-26-5	
Preservation pH	1.0		0.10		1		06/01/23 16:50		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-104		Lab ID: 60429976010		Collected:	Received:	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Pace Analytical Services - Kansas City									
Acetone	23.5	ug/L	10.0	2.5	1		06/01/23 17:04	67-64-1	
Benzene	ND	ug/L	1.0	0.14	1		06/01/23 17:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.088	1		06/01/23 17:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.20	1		06/01/23 17:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.16	1		06/01/23 17:04	75-27-4	
Bromoform	ND	ug/L	1.0	0.68	1		06/01/23 17:04	75-25-2	
Bromomethane	ND	ug/L	5.0	0.46	1		06/01/23 17:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.98	1		06/01/23 17:04	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.15	1		06/01/23 17:04	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.11	1		06/01/23 17:04	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.12	1		06/01/23 17:04	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.98	1		06/01/23 17:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.17	1		06/01/23 17:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.089	1		06/01/23 17:04	108-90-7	
Chloroethane	ND	ug/L	1.0	0.37	1		06/01/23 17:04	75-00-3	
Chloroform	ND	ug/L	1.0	0.22	1		06/01/23 17:04	67-66-3	
Chloromethane	ND	ug/L	1.0	0.28	1		06/01/23 17:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.11	1		06/01/23 17:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.15	1		06/01/23 17:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.78	1		06/01/23 17:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.30	1		06/01/23 17:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		06/01/23 17:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.11	1		06/01/23 17:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.12	1		06/01/23 17:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/01/23 17:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/01/23 17:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.20	1		06/01/23 17:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.12	1		06/01/23 17:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.21	1		06/01/23 17:04	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.22	1		06/01/23 17:04	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.22	1		06/01/23 17:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.13	1		06/01/23 17:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.10	1		06/01/23 17:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1		06/01/23 17:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.10	1		06/01/23 17:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.16	1		06/01/23 17:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.14	1		06/01/23 17:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.078	1		06/01/23 17:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.18	1		06/01/23 17:04	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.12	1		06/01/23 17:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.42	1		06/01/23 17:04	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.1	1		06/01/23 17:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.097	1		06/01/23 17:04	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.13	1		06/01/23 17:04	99-87-6	
Methylene Chloride	ND	ug/L	1.0	0.39	1		06/01/23 17:04	75-09-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-104	Lab ID: 60429976010	Collected: 05/31/23 11:20	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.74	1		06/01/23 17:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		06/01/23 17:04	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.82	1		06/01/23 17:04	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.12	1		06/01/23 17:04	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		06/01/23 17:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.084	1		06/01/23 17:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		06/01/23 17:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.33	1		06/01/23 17:04	127-18-4	
Toluene	ND	ug/L	1.0	0.25	1		06/01/23 17:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.93	1		06/01/23 17:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		06/01/23 17:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		06/01/23 17:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.14	1		06/01/23 17:04	79-00-5	
Trichloroethene	0.27J	ug/L	1.0	0.21	1		06/01/23 17:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.16	1		06/01/23 17:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.41	1		06/01/23 17:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.32	1		06/01/23 17:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.090	1		06/01/23 17:04	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.17	1		06/01/23 17:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.28	1		06/01/23 17:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	80-120		1		06/01/23 17:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120		1		06/01/23 17:04	2199-69-1	
Toluene-d8 (S)	105	%	80-120		1		06/01/23 17:04	2037-26-5	
Preservation pH	1.0		0.10		1		06/01/23 17:04		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-13	Lab ID: 60429976011	Collected: 05/31/23 11:40	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
Acetone	15.3	ug/L	10.0	2.5	1		06/01/23 17:18	67-64-1	
Benzene	ND	ug/L	1.0	0.14	1		06/01/23 17:18	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.088	1		06/01/23 17:18	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.20	1		06/01/23 17:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.16	1		06/01/23 17:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.68	1		06/01/23 17:18	75-25-2	
Bromomethane	ND	ug/L	5.0	0.46	1		06/01/23 17:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.98	1		06/01/23 17:18	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.15	1		06/01/23 17:18	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.11	1		06/01/23 17:18	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.12	1		06/01/23 17:18	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.98	1		06/01/23 17:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.17	1		06/01/23 17:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.089	1		06/01/23 17:18	108-90-7	
Chloroethane	ND	ug/L	1.0	0.37	1		06/01/23 17:18	75-00-3	
Chloroform	ND	ug/L	1.0	0.22	1		06/01/23 17:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.28	1		06/01/23 17:18	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.11	1		06/01/23 17:18	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.15	1		06/01/23 17:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.78	1		06/01/23 17:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.30	1		06/01/23 17:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		06/01/23 17:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.11	1		06/01/23 17:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.12	1		06/01/23 17:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/01/23 17:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/01/23 17:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.20	1		06/01/23 17:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.12	1		06/01/23 17:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.21	1		06/01/23 17:18	107-06-2	
1,2-Dichloroethene (Total)	14.2	ug/L	1.0	0.22	1		06/01/23 17:18	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.22	1		06/01/23 17:18	75-35-4	
cis-1,2-Dichloroethene	14.0	ug/L	1.0	0.13	1		06/01/23 17:18	156-59-2	
trans-1,2-Dichloroethene	0.22J	ug/L	1.0	0.10	1		06/01/23 17:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1		06/01/23 17:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.10	1		06/01/23 17:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.16	1		06/01/23 17:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.14	1		06/01/23 17:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.078	1		06/01/23 17:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.18	1		06/01/23 17:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.12	1		06/01/23 17:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.42	1		06/01/23 17:18	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.1	1		06/01/23 17:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.097	1		06/01/23 17:18	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.13	1		06/01/23 17:18	99-87-6	
Methylene Chloride	ND	ug/L	1.0	0.39	1		06/01/23 17:18	75-09-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-13	Lab ID: 60429976011	Collected: 05/31/23 11:40	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.74	1		06/01/23 17:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		06/01/23 17:18	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.82	1		06/01/23 17:18	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.12	1		06/01/23 17:18	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		06/01/23 17:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.084	1		06/01/23 17:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		06/01/23 17:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.33	1		06/01/23 17:18	127-18-4	
Toluene	ND	ug/L	1.0	0.25	1		06/01/23 17:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.93	1		06/01/23 17:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		06/01/23 17:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		06/01/23 17:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.14	1		06/01/23 17:18	79-00-5	
Trichloroethene	0.23J	ug/L	1.0	0.21	1		06/01/23 17:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.16	1		06/01/23 17:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.41	1		06/01/23 17:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.32	1		06/01/23 17:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.090	1		06/01/23 17:18	108-67-8	
Vinyl chloride	2.1	ug/L	1.0	0.17	1		06/01/23 17:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.28	1		06/01/23 17:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	106	%	80-120		1		06/01/23 17:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	80-120		1		06/01/23 17:18	2199-69-1	
Toluene-d8 (S)	98	%	80-120		1		06/01/23 17:18	2037-26-5	
Preservation pH	1.0			0.10		1		06/01/23 17:18	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-Y	Lab ID: 60429976012	Collected: 05/31/23 11:40	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
Acetone	15.9	ug/L	10.0	2.5	1		06/02/23 19:54	67-64-1	
Benzene	ND	ug/L	1.0	0.14	1		06/02/23 19:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.088	1		06/02/23 19:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.20	1		06/02/23 19:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.16	1		06/02/23 19:54	75-27-4	L1
Bromoform	ND	ug/L	1.0	0.68	1		06/02/23 19:54	75-25-2	
Bromomethane	ND	ug/L	5.0	0.46	1		06/02/23 19:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.98	1		06/02/23 19:54	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.15	1		06/02/23 19:54	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.11	1		06/02/23 19:54	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 19:54	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.98	1		06/02/23 19:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.17	1		06/02/23 19:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.089	1		06/02/23 19:54	108-90-7	
Chloroethane	ND	ug/L	1.0	0.37	1		06/02/23 19:54	75-00-3	
Chloroform	ND	ug/L	1.0	0.22	1		06/02/23 19:54	67-66-3	
Chloromethane	ND	ug/L	1.0	0.28	1		06/02/23 19:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.11	1		06/02/23 19:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.15	1		06/02/23 19:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.78	1		06/02/23 19:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.30	1		06/02/23 19:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		06/02/23 19:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.11	1		06/02/23 19:54	74-95-3	L1
1,2-Dichlorobenzene	ND	ug/L	1.0	0.12	1		06/02/23 19:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/02/23 19:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/02/23 19:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.20	1		06/02/23 19:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.12	1		06/02/23 19:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.21	1		06/02/23 19:54	107-06-2	
1,2-Dichloroethene (Total)	13.7	ug/L	1.0	0.22	1		06/02/23 19:54	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.22	1		06/02/23 19:54	75-35-4	
cis-1,2-Dichloroethene	13.5	ug/L	1.0	0.13	1		06/02/23 19:54	156-59-2	
trans-1,2-Dichloroethene	0.22J	ug/L	1.0	0.10	1		06/02/23 19:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1		06/02/23 19:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.10	1		06/02/23 19:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.16	1		06/02/23 19:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.14	1		06/02/23 19:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.078	1		06/02/23 19:54	10061-01-5	L1
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.18	1		06/02/23 19:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 19:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.42	1		06/02/23 19:54	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.1	1		06/02/23 19:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.097	1		06/02/23 19:54	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.13	1		06/02/23 19:54	99-87-6	
Methylene Chloride	ND	ug/L	1.0	0.39	1		06/02/23 19:54	75-09-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-Y	Lab ID: 60429976012	Collected: 05/31/23 11:40	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.74	1		06/02/23 19:54	108-10-1	L1
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		06/02/23 19:54	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.82	1		06/02/23 19:54	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 19:54	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		06/02/23 19:54	100-42-5	L1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.084	1		06/02/23 19:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		06/02/23 19:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.33	1		06/02/23 19:54	127-18-4	
Toluene	ND	ug/L	1.0	0.25	1		06/02/23 19:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.93	1		06/02/23 19:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		06/02/23 19:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		06/02/23 19:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.14	1		06/02/23 19:54	79-00-5	
Trichloroethene	0.23J	ug/L	1.0	0.21	1		06/02/23 19:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.16	1		06/02/23 19:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.41	1		06/02/23 19:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.32	1		06/02/23 19:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.090	1		06/02/23 19:54	108-67-8	
Vinyl chloride	1.7	ug/L	1.0	0.17	1		06/02/23 19:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.28	1		06/02/23 19:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		06/02/23 19:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120		1		06/02/23 19:54	2199-69-1	
Toluene-d8 (S)	99	%	80-120		1		06/02/23 19:54	2037-26-5	
Preservation pH	1.0		0.10		1		06/02/23 19:54		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-12	Lab ID: 60429976013	Collected: 05/31/23 11:56	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
Acetone	18.3	ug/L	10.0	2.5	1		06/05/23 11:15	67-64-1	
Benzene	ND	ug/L	1.0	0.14	1		06/05/23 11:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.088	1		06/05/23 11:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.20	1		06/05/23 11:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.16	1		06/05/23 11:15	75-27-4	
Bromoform	ND	ug/L	1.0	0.68	1		06/05/23 11:15	75-25-2	
Bromomethane	ND	ug/L	5.0	0.46	1		06/05/23 11:15	74-83-9	
2-Butanone (MEK)	2.2J	ug/L	10.0	0.98	1		06/05/23 11:15	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.15	1		06/05/23 11:15	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.11	1		06/05/23 11:15	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.12	1		06/05/23 11:15	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.98	1		06/05/23 11:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.17	1		06/05/23 11:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.089	1		06/05/23 11:15	108-90-7	
Chloroethane	ND	ug/L	1.0	0.37	1		06/05/23 11:15	75-00-3	L1
Chloroform	ND	ug/L	1.0	0.22	1		06/05/23 11:15	67-66-3	
Chloromethane	ND	ug/L	1.0	0.28	1		06/05/23 11:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.11	1		06/05/23 11:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.15	1		06/05/23 11:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.78	1		06/05/23 11:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.30	1		06/05/23 11:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		06/05/23 11:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.11	1		06/05/23 11:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.12	1		06/05/23 11:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/05/23 11:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/05/23 11:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.20	1		06/05/23 11:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.12	1		06/05/23 11:15	75-34-3	
1,2-Dichloroethane	0.79J	ug/L	1.0	0.21	1		06/05/23 11:15	107-06-2	
1,2-Dichloroethene (Total)	34.5	ug/L	1.0	0.22	1		06/05/23 11:15	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.22	1		06/05/23 11:15	75-35-4	
cis-1,2-Dichloroethene	22.4	ug/L	1.0	0.13	1		06/05/23 11:15	156-59-2	
trans-1,2-Dichloroethene	12.1	ug/L	1.0	0.10	1		06/05/23 11:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1		06/05/23 11:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.10	1		06/05/23 11:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.16	1		06/05/23 11:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.14	1		06/05/23 11:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.078	1		06/05/23 11:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.18	1		06/05/23 11:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.12	1		06/05/23 11:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.42	1		06/05/23 11:15	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.1	1		06/05/23 11:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.097	1		06/05/23 11:15	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.13	1		06/05/23 11:15	99-87-6	
Methylene Chloride	ND	ug/L	1.0	0.39	1		06/05/23 11:15	75-09-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-12	Lab ID: 60429976013	Collected: 05/31/23 11:56	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.74	1		06/05/23 11:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		06/05/23 11:15	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.82	1		06/05/23 11:15	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.12	1		06/05/23 11:15	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		06/05/23 11:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.084	1		06/05/23 11:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		06/05/23 11:15	79-34-5	
Tetrachloroethylene	ND	ug/L	1.0	0.33	1		06/05/23 11:15	127-18-4	
Toluene	ND	ug/L	1.0	0.25	1		06/05/23 11:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.93	1		06/05/23 11:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		06/05/23 11:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		06/05/23 11:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.14	1		06/05/23 11:15	79-00-5	
Trichloroethylene	60.4	ug/L	1.0	0.21	1		06/05/23 11:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.16	1		06/05/23 11:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.41	1		06/05/23 11:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.32	1		06/05/23 11:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.090	1		06/05/23 11:15	108-67-8	
Vinyl chloride	0.40J	ug/L	1.0	0.17	1		06/05/23 11:15	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.28	1		06/05/23 11:15	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		06/05/23 11:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	80-120		1		06/05/23 11:15	2199-69-1	
Toluene-d8 (S)	101	%	80-120		1		06/05/23 11:15	2037-26-5	
Preservation pH	1.0		0.10		1		06/05/23 11:15		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-101	Lab ID: 60429976014	Collected: 05/31/23 12:12	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
Acetone	59.3	ug/L	10.0	2.5	1		06/02/23 04:58	67-64-1	
Benzene	ND	ug/L	1.0	0.14	1		06/02/23 04:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.088	1		06/02/23 04:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.20	1		06/02/23 04:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.16	1		06/02/23 04:58	75-27-4	
Bromoform	ND	ug/L	1.0	0.68	1		06/02/23 04:58	75-25-2	
Bromomethane	ND	ug/L	5.0	0.46	1		06/02/23 04:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.98	1		06/02/23 04:58	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.15	1		06/02/23 04:58	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.11	1		06/02/23 04:58	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 04:58	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.98	1		06/02/23 04:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.17	1		06/02/23 04:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.089	1		06/02/23 04:58	108-90-7	
Chloroethane	ND	ug/L	1.0	0.37	1		06/02/23 04:58	75-00-3	
Chloroform	ND	ug/L	1.0	0.22	1		06/02/23 04:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.28	1		06/02/23 04:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.11	1		06/02/23 04:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.15	1		06/02/23 04:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.78	1		06/02/23 04:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.30	1		06/02/23 04:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		06/02/23 04:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.11	1		06/02/23 04:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.12	1		06/02/23 04:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/02/23 04:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/02/23 04:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.20	1		06/02/23 04:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.12	1		06/02/23 04:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.21	1		06/02/23 04:58	107-06-2	
1,2-Dichloroethene (Total)	0.23J	ug/L	1.0	0.22	1		06/02/23 04:58	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.22	1		06/02/23 04:58	75-35-4	
cis-1,2-Dichloroethene	0.23J	ug/L	1.0	0.13	1		06/02/23 04:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.10	1		06/02/23 04:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1		06/02/23 04:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.10	1		06/02/23 04:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.16	1		06/02/23 04:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.14	1		06/02/23 04:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.078	1		06/02/23 04:58	10061-01-5	L1
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.18	1		06/02/23 04:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 04:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.42	1		06/02/23 04:58	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.1	1		06/02/23 04:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.097	1		06/02/23 04:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.13	1		06/02/23 04:58	99-87-6	
Methylene Chloride	ND	ug/L	1.0	0.39	1		06/02/23 04:58	75-09-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-101	Lab ID: 60429976014	Collected: 05/31/23 12:12	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.74	1		06/02/23 04:58	108-10-1	L1
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		06/02/23 04:58	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.82	1		06/02/23 04:58	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 04:58	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		06/02/23 04:58	100-42-5	L1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.084	1		06/02/23 04:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		06/02/23 04:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.33	1		06/02/23 04:58	127-18-4	
Toluene	ND	ug/L	1.0	0.25	1		06/02/23 04:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.93	1		06/02/23 04:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		06/02/23 04:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		06/02/23 04:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.14	1		06/02/23 04:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.21	1		06/02/23 04:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.16	1		06/02/23 04:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.41	1		06/02/23 04:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.32	1		06/02/23 04:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.090	1		06/02/23 04:58	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.17	1		06/02/23 04:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.28	1		06/02/23 04:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		06/02/23 04:58	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120		1		06/02/23 04:58	2199-69-1	
Toluene-d8 (S)	100	%	80-120		1		06/02/23 04:58	2037-26-5	
Preservation pH	1.0		0.10		1		06/02/23 04:58		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-6B	Lab ID: 60429976015	Collected: 05/31/23 13:12	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
Acetone	148	ug/L	10.0	2.5	1		06/02/23 05:14	67-64-1	
Benzene	ND	ug/L	1.0	0.14	1		06/02/23 05:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.088	1		06/02/23 05:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.20	1		06/02/23 05:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.16	1		06/02/23 05:14	75-27-4	
Bromoform	ND	ug/L	1.0	0.68	1		06/02/23 05:14	75-25-2	
Bromomethane	ND	ug/L	5.0	0.46	1		06/02/23 05:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.98	1		06/02/23 05:14	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.15	1		06/02/23 05:14	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.11	1		06/02/23 05:14	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 05:14	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.98	1		06/02/23 05:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.17	1		06/02/23 05:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.089	1		06/02/23 05:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.37	1		06/02/23 05:14	75-00-3	
Chloroform	ND	ug/L	1.0	0.22	1		06/02/23 05:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.28	1		06/02/23 05:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.11	1		06/02/23 05:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.15	1		06/02/23 05:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.78	1		06/02/23 05:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.30	1		06/02/23 05:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		06/02/23 05:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.11	1		06/02/23 05:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.12	1		06/02/23 05:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/02/23 05:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/02/23 05:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.20	1		06/02/23 05:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.12	1		06/02/23 05:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.21	1		06/02/23 05:14	107-06-2	
1,2-Dichloroethene (Total)	0.97J	ug/L	1.0	0.22	1		06/02/23 05:14	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.22	1		06/02/23 05:14	75-35-4	
cis-1,2-Dichloroethene	0.97J	ug/L	1.0	0.13	1		06/02/23 05:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.10	1		06/02/23 05:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1		06/02/23 05:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.10	1		06/02/23 05:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.16	1		06/02/23 05:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.14	1		06/02/23 05:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.078	1		06/02/23 05:14	10061-01-5	L1
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.18	1		06/02/23 05:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 05:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.42	1		06/02/23 05:14	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.1	1		06/02/23 05:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.097	1		06/02/23 05:14	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.13	1		06/02/23 05:14	99-87-6	
Methylene Chloride	ND	ug/L	1.0	0.39	1		06/02/23 05:14	75-09-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-6B	Lab ID: 60429976015	Collected: 05/31/23 13:12	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.74	1		06/02/23 05:14	108-10-1	L1
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		06/02/23 05:14	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.82	1		06/02/23 05:14	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 05:14	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		06/02/23 05:14	100-42-5	L1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.084	1		06/02/23 05:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		06/02/23 05:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.33	1		06/02/23 05:14	127-18-4	
Toluene	ND	ug/L	1.0	0.25	1		06/02/23 05:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.93	1		06/02/23 05:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		06/02/23 05:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		06/02/23 05:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.14	1		06/02/23 05:14	79-00-5	
Trichloroethene	3.0	ug/L	1.0	0.21	1		06/02/23 05:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.16	1		06/02/23 05:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.41	1		06/02/23 05:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.32	1		06/02/23 05:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.090	1		06/02/23 05:14	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.17	1		06/02/23 05:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.28	1		06/02/23 05:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		06/02/23 05:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	80-120		1		06/02/23 05:14	2199-69-1	
Toluene-d8 (S)	98	%	80-120		1		06/02/23 05:14	2037-26-5	
Preservation pH	1.0			0.10		1		06/02/23 05:14	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-11B	Lab ID: 60429976016	Collected: 05/31/23 13:32	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City								
Acetone	56.9	ug/L	10.0	2.5	1			06/02/23 05:30	67-64-1
Benzene	ND	ug/L	1.0	0.14	1			06/02/23 05:30	71-43-2
Bromobenzene	ND	ug/L	1.0	0.088	1			06/02/23 05:30	108-86-1
Bromochloromethane	ND	ug/L	1.0	0.20	1			06/02/23 05:30	74-97-5
Bromodichloromethane	ND	ug/L	1.0	0.16	1			06/02/23 05:30	75-27-4
Bromoform	ND	ug/L	1.0	0.68	1			06/02/23 05:30	75-25-2
Bromomethane	ND	ug/L	5.0	0.46	1			06/02/23 05:30	74-83-9
2-Butanone (MEK)	ND	ug/L	10.0	0.98	1			06/02/23 05:30	78-93-3
n-Butylbenzene	ND	ug/L	1.0	0.15	1			06/02/23 05:30	104-51-8
sec-Butylbenzene	ND	ug/L	1.0	0.11	1			06/02/23 05:30	135-98-8
tert-Butylbenzene	ND	ug/L	1.0	0.12	1			06/02/23 05:30	98-06-6
Carbon disulfide	ND	ug/L	5.0	0.98	1			06/02/23 05:30	75-15-0
Carbon tetrachloride	ND	ug/L	1.0	0.17	1			06/02/23 05:30	56-23-5
Chlorobenzene	ND	ug/L	1.0	0.089	1			06/02/23 05:30	108-90-7
Chloroethane	ND	ug/L	1.0	0.37	1			06/02/23 05:30	75-00-3
Chloroform	ND	ug/L	1.0	0.22	1			06/02/23 05:30	67-66-3
Chloromethane	ND	ug/L	1.0	0.28	1			06/02/23 05:30	74-87-3
2-Chlorotoluene	ND	ug/L	1.0	0.11	1			06/02/23 05:30	95-49-8
4-Chlorotoluene	ND	ug/L	1.0	0.15	1			06/02/23 05:30	106-43-4
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.78	1			06/02/23 05:30	96-12-8
Dibromochloromethane	ND	ug/L	1.0	0.30	1			06/02/23 05:30	124-48-1
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1			06/02/23 05:30	106-93-4
Dibromomethane	ND	ug/L	1.0	0.11	1			06/02/23 05:30	74-95-3
1,2-Dichlorobenzene	ND	ug/L	1.0	0.12	1			06/02/23 05:30	95-50-1
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1			06/02/23 05:30	541-73-1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.13	1			06/02/23 05:30	106-46-7
Dichlorodifluoromethane	ND	ug/L	1.0	0.20	1			06/02/23 05:30	75-71-8
1,1-Dichloroethane	ND	ug/L	1.0	0.12	1			06/02/23 05:30	75-34-3
1,2-Dichloroethane	ND	ug/L	1.0	0.21	1			06/02/23 05:30	107-06-2
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.22	1			06/02/23 05:30	540-59-0
1,1-Dichloroethene	ND	ug/L	1.0	0.22	1			06/02/23 05:30	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.13	1			06/02/23 05:30	156-59-2
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.10	1			06/02/23 05:30	156-60-5
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1			06/02/23 05:30	78-87-5
1,3-Dichloropropane	ND	ug/L	1.0	0.10	1			06/02/23 05:30	142-28-9
2,2-Dichloropropane	ND	ug/L	1.0	0.16	1			06/02/23 05:30	594-20-7
1,1-Dichloropropene	ND	ug/L	1.0	0.14	1			06/02/23 05:30	563-58-6
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.078	1			06/02/23 05:30	10061-01-5 L1
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.18	1			06/02/23 05:30	10061-02-6
Ethylbenzene	ND	ug/L	1.0	0.12	1			06/02/23 05:30	100-41-4
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.42	1			06/02/23 05:30	87-68-3
2-Hexanone	ND	ug/L	10.0	1.1	1			06/02/23 05:30	591-78-6
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.097	1			06/02/23 05:30	98-82-8
p-Isopropyltoluene	ND	ug/L	1.0	0.13	1			06/02/23 05:30	99-87-6
Methylene Chloride	ND	ug/L	1.0	0.39	1			06/02/23 05:30	75-09-2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-11B	Lab ID: 60429976016	Collected: 05/31/23 13:32	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.74	1		06/02/23 05:30	108-10-1	L1
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		06/02/23 05:30	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.82	1		06/02/23 05:30	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 05:30	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		06/02/23 05:30	100-42-5	L1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.084	1		06/02/23 05:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		06/02/23 05:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.33	1		06/02/23 05:30	127-18-4	
Toluene	ND	ug/L	1.0	0.25	1		06/02/23 05:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.93	1		06/02/23 05:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		06/02/23 05:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		06/02/23 05:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.14	1		06/02/23 05:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.21	1		06/02/23 05:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.16	1		06/02/23 05:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.41	1		06/02/23 05:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.32	1		06/02/23 05:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.090	1		06/02/23 05:30	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.17	1		06/02/23 05:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.28	1		06/02/23 05:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		06/02/23 05:30	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120		1		06/02/23 05:30	2199-69-1	
Toluene-d8 (S)	99	%	80-120		1		06/02/23 05:30	2037-26-5	
Preservation pH	1.0		0.10		1		06/02/23 05:30		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-4B	Lab ID: 60429976017	Collected: 05/31/23 13:42	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
Acetone	25.0	ug/L	10.0	2.5	1		06/02/23 05:46	67-64-1	
Benzene	ND	ug/L	1.0	0.14	1		06/02/23 05:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.088	1		06/02/23 05:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.20	1		06/02/23 05:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.16	1		06/02/23 05:46	75-27-4	
Bromoform	ND	ug/L	1.0	0.68	1		06/02/23 05:46	75-25-2	
Bromomethane	ND	ug/L	5.0	0.46	1		06/02/23 05:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.98	1		06/02/23 05:46	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.15	1		06/02/23 05:46	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.11	1		06/02/23 05:46	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 05:46	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.98	1		06/02/23 05:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.17	1		06/02/23 05:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.089	1		06/02/23 05:46	108-90-7	
Chloroethane	ND	ug/L	1.0	0.37	1		06/02/23 05:46	75-00-3	
Chloroform	ND	ug/L	1.0	0.22	1		06/02/23 05:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.28	1		06/02/23 05:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.11	1		06/02/23 05:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.15	1		06/02/23 05:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.78	1		06/02/23 05:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.30	1		06/02/23 05:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		06/02/23 05:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.11	1		06/02/23 05:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.12	1		06/02/23 05:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/02/23 05:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/02/23 05:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.20	1		06/02/23 05:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.12	1		06/02/23 05:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.21	1		06/02/23 05:46	107-06-2	
1,2-Dichloroethene (Total)	1.0	ug/L	1.0	0.22	1		06/02/23 05:46	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.22	1		06/02/23 05:46	75-35-4	
cis-1,2-Dichloroethene	1.0	ug/L	1.0	0.13	1		06/02/23 05:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.10	1		06/02/23 05:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1		06/02/23 05:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.10	1		06/02/23 05:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.16	1		06/02/23 05:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.14	1		06/02/23 05:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.078	1		06/02/23 05:46	10061-01-5	L1
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.18	1		06/02/23 05:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 05:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.42	1		06/02/23 05:46	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.1	1		06/02/23 05:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.097	1		06/02/23 05:46	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.13	1		06/02/23 05:46	99-87-6	
Methylene Chloride	ND	ug/L	1.0	0.39	1		06/02/23 05:46	75-09-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-4B	Lab ID: 60429976017	Collected: 05/31/23 13:42	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.74	1		06/02/23 05:46	108-10-1	L1
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		06/02/23 05:46	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.82	1		06/02/23 05:46	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 05:46	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		06/02/23 05:46	100-42-5	L1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.084	1		06/02/23 05:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		06/02/23 05:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.33	1		06/02/23 05:46	127-18-4	
Toluene	ND	ug/L	1.0	0.25	1		06/02/23 05:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.93	1		06/02/23 05:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		06/02/23 05:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		06/02/23 05:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.14	1		06/02/23 05:46	79-00-5	
Trichloroethene	1.7	ug/L	1.0	0.21	1		06/02/23 05:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.16	1		06/02/23 05:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.41	1		06/02/23 05:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.32	1		06/02/23 05:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.090	1		06/02/23 05:46	108-67-8	
Vinyl chloride	0.45J	ug/L	1.0	0.17	1		06/02/23 05:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.28	1		06/02/23 05:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		06/02/23 05:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120		1		06/02/23 05:46	2199-69-1	
Toluene-d8 (S)	99	%	80-120		1		06/02/23 05:46	2037-26-5	
Preservation pH	1.0			0.10		1		06/02/23 05:46	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-2B	Lab ID: 60429976018	Collected: 05/31/23 13:51	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City								
Acetone	152J	ug/L	250	63.5	25		06/02/23 07:22	67-64-1	
Benzene	ND	ug/L	25.0	3.4	25		06/02/23 07:22	71-43-2	
Bromobenzene	ND	ug/L	25.0	2.2	25		06/02/23 07:22	108-86-1	
Bromochloromethane	ND	ug/L	25.0	5.0	25		06/02/23 07:22	74-97-5	
Bromodichloromethane	ND	ug/L	25.0	3.9	25		06/02/23 07:22	75-27-4	
Bromoform	ND	ug/L	25.0	16.9	25		06/02/23 07:22	75-25-2	
Bromomethane	ND	ug/L	125	11.5	25		06/02/23 07:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	250	24.4	25		06/02/23 07:22	78-93-3	
n-Butylbenzene	ND	ug/L	25.0	3.8	25		06/02/23 07:22	104-51-8	
sec-Butylbenzene	ND	ug/L	25.0	2.8	25		06/02/23 07:22	135-98-8	
tert-Butylbenzene	ND	ug/L	25.0	3.0	25		06/02/23 07:22	98-06-6	
Carbon disulfide	ND	ug/L	125	24.4	25		06/02/23 07:22	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	4.3	25		06/02/23 07:22	56-23-5	
Chlorobenzene	ND	ug/L	25.0	2.2	25		06/02/23 07:22	108-90-7	
Chloroethane	ND	ug/L	25.0	9.4	25		06/02/23 07:22	75-00-3	
Chloroform	ND	ug/L	25.0	5.5	25		06/02/23 07:22	67-66-3	
Chloromethane	36.0	ug/L	25.0	7.1	25		06/02/23 07:22	74-87-3	
2-Chlorotoluene	ND	ug/L	25.0	2.7	25		06/02/23 07:22	95-49-8	
4-Chlorotoluene	ND	ug/L	25.0	3.7	25		06/02/23 07:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	62.5	19.5	25		06/02/23 07:22	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	7.6	25		06/02/23 07:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	4.9	25		06/02/23 07:22	106-93-4	
Dibromomethane	ND	ug/L	25.0	2.7	25		06/02/23 07:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	25.0	3.1	25		06/02/23 07:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	3.3	25		06/02/23 07:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	3.3	25		06/02/23 07:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	5.0	25		06/02/23 07:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	3.0	25		06/02/23 07:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5.3	25		06/02/23 07:22	107-06-2	
1,2-Dichloroethene (Total)	758	ug/L	25.0	5.6	25		06/02/23 07:22	540-59-0	
1,1-Dichloroethene	ND	ug/L	25.0	5.5	25		06/02/23 07:22	75-35-4	
cis-1,2-Dichloroethene	741	ug/L	25.0	3.2	25		06/02/23 07:22	156-59-2	
trans-1,2-Dichloroethene	16.6J	ug/L	25.0	2.6	25		06/02/23 07:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	3.5	25		06/02/23 07:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	25.0	2.6	25		06/02/23 07:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	25.0	4.0	25		06/02/23 07:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	25.0	3.4	25		06/02/23 07:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	25.0	1.9	25		06/02/23 07:22	10061-01-5	L1
trans-1,3-Dichloropropene	ND	ug/L	25.0	4.6	25		06/02/23 07:22	10061-02-6	
Ethylbenzene	ND	ug/L	25.0	3.0	25		06/02/23 07:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	25.0	10.4	25		06/02/23 07:22	87-68-3	
2-Hexanone	ND	ug/L	250	27.5	25		06/02/23 07:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	25.0	2.4	25		06/02/23 07:22	98-82-8	
p-Isopropyltoluene	ND	ug/L	25.0	3.2	25		06/02/23 07:22	99-87-6	
Methylene Chloride	ND	ug/L	25.0	9.8	25		06/02/23 07:22	75-09-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-2B	Lab ID: 60429976018	Collected: 05/31/23 13:51	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	18.4	25		06/02/23 07:22	108-10-1	L1
Methyl-tert-butyl ether	ND	ug/L	25.0	3.2	25		06/02/23 07:22	1634-04-4	
Naphthalene	ND	ug/L	250	20.6	25		06/02/23 07:22	91-20-3	
n-Propylbenzene	ND	ug/L	25.0	3.0	25		06/02/23 07:22	103-65-1	
Styrene	ND	ug/L	25.0	3.1	25		06/02/23 07:22	100-42-5	L1
1,1,1,2-Tetrachloroethane	ND	ug/L	25.0	2.1	25		06/02/23 07:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	3.8	25		06/02/23 07:22	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	8.2	25		06/02/23 07:22	127-18-4	
Toluene	ND	ug/L	25.0	6.3	25		06/02/23 07:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	25.0	23.2	25		06/02/23 07:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	18.3	25		06/02/23 07:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	2.7	25		06/02/23 07:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	3.6	25		06/02/23 07:22	79-00-5	
Trichloroethene	2080	ug/L	25.0	5.2	25		06/02/23 07:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	4.1	25		06/02/23 07:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	62.5	10.2	25		06/02/23 07:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	25.0	8.1	25		06/02/23 07:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	25.0	2.2	25		06/02/23 07:22	108-67-8	
Vinyl chloride	44.4	ug/L	25.0	4.2	25		06/02/23 07:22	75-01-4	
Xylene (Total)	ND	ug/L	75.0	7.0	25		06/02/23 07:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	80-120		25		06/02/23 07:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120		25		06/02/23 07:22	2199-69-1	
Toluene-d8 (S)	100	%	80-120		25		06/02/23 07:22	2037-26-5	
Preservation pH	1.0		0.10		25		06/02/23 07:22		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-8B	Lab ID: 60429976019	Collected: 05/31/23 14:12	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City								
Acetone	310J	ug/L	1000	254	100		06/02/23 07:38	67-64-1	
Benzene	ND	ug/L	100	13.6	100		06/02/23 07:38	71-43-2	
Bromobenzene	ND	ug/L	100	8.8	100		06/02/23 07:38	108-86-1	
Bromochloromethane	ND	ug/L	100	20.2	100		06/02/23 07:38	74-97-5	
Bromodichloromethane	ND	ug/L	100	15.5	100		06/02/23 07:38	75-27-4	
Bromoform	ND	ug/L	100	67.6	100		06/02/23 07:38	75-25-2	
Bromomethane	ND	ug/L	500	46.0	100		06/02/23 07:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	1000	97.5	100		06/02/23 07:38	78-93-3	
n-Butylbenzene	ND	ug/L	100	15.3	100		06/02/23 07:38	104-51-8	
sec-Butylbenzene	ND	ug/L	100	11.0	100		06/02/23 07:38	135-98-8	
tert-Butylbenzene	ND	ug/L	100	12.0	100		06/02/23 07:38	98-06-6	
Carbon disulfide	ND	ug/L	500	97.8	100		06/02/23 07:38	75-15-0	
Carbon tetrachloride	ND	ug/L	100	17.2	100		06/02/23 07:38	56-23-5	
Chlorobenzene	ND	ug/L	100	8.9	100		06/02/23 07:38	108-90-7	
Chloroethane	ND	ug/L	100	37.4	100		06/02/23 07:38	75-00-3	
Chloroform	ND	ug/L	100	22.0	100		06/02/23 07:38	67-66-3	
Chloromethane	74.4J	ug/L	100	28.3	100		06/02/23 07:38	74-87-3	
2-Chlorotoluene	ND	ug/L	100	10.8	100		06/02/23 07:38	95-49-8	
4-Chlorotoluene	ND	ug/L	100	14.9	100		06/02/23 07:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	250	78.0	100		06/02/23 07:38	96-12-8	
Dibromochloromethane	ND	ug/L	100	30.5	100		06/02/23 07:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	100	19.6	100		06/02/23 07:38	106-93-4	
Dibromomethane	ND	ug/L	100	10.9	100		06/02/23 07:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	100	12.5	100		06/02/23 07:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	100	13.2	100		06/02/23 07:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	100	13.3	100		06/02/23 07:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	100	19.9	100		06/02/23 07:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	100	12.2	100		06/02/23 07:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	100	21.2	100		06/02/23 07:38	107-06-2	
1,2-Dichloroethene (Total)	9850	ug/L	100	22.2	100		06/02/23 07:38	540-59-0	
1,1-Dichloroethene	ND	ug/L	100	21.9	100		06/02/23 07:38	75-35-4	
cis-1,2-Dichloroethene	9390	ug/L	100	12.9	100		06/02/23 07:38	156-59-2	
trans-1,2-Dichloroethene	462	ug/L	100	10.2	100		06/02/23 07:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	100	13.9	100		06/02/23 07:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	100	10.4	100		06/02/23 07:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	100	16.2	100		06/02/23 07:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	100	13.5	100		06/02/23 07:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	100	7.8	100		06/02/23 07:38	10061-01-5	L1
trans-1,3-Dichloropropene	ND	ug/L	100	18.2	100		06/02/23 07:38	10061-02-6	
Ethylbenzene	ND	ug/L	100	12.0	100		06/02/23 07:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	100	41.7	100		06/02/23 07:38	87-68-3	
2-Hexanone	ND	ug/L	1000	110	100		06/02/23 07:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	100	9.7	100		06/02/23 07:38	98-82-8	
p-Isopropyltoluene	ND	ug/L	100	12.7	100		06/02/23 07:38	99-87-6	
Methylene Chloride	ND	ug/L	100	39.1	100		06/02/23 07:38	75-09-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: MW-8B	Lab ID: 60429976019	Collected: 05/31/23 14:12	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	1000	73.6	100		06/02/23 07:38	108-10-1	L1
Methyl-tert-butyl ether	ND	ug/L	100	12.8	100		06/02/23 07:38	1634-04-4	
Naphthalene	ND	ug/L	1000	82.2	100		06/02/23 07:38	91-20-3	
n-Propylbenzene	ND	ug/L	100	11.9	100		06/02/23 07:38	103-65-1	
Styrene	ND	ug/L	100	12.3	100		06/02/23 07:38	100-42-5	L1
1,1,1,2-Tetrachloroethane	ND	ug/L	100	8.4	100		06/02/23 07:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	15.4	100		06/02/23 07:38	79-34-5	
Tetrachloroethene	ND	ug/L	100	33.0	100		06/02/23 07:38	127-18-4	
Toluene	ND	ug/L	100	25.3	100		06/02/23 07:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	100	92.7	100		06/02/23 07:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	100	73.2	100		06/02/23 07:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	100	10.9	100		06/02/23 07:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	100	14.2	100		06/02/23 07:38	79-00-5	
Trichloroethene	9950	ug/L	100	21.0	100		06/02/23 07:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	100	16.4	100		06/02/23 07:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	250	40.8	100		06/02/23 07:38	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	100	32.4	100		06/02/23 07:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	100	9.0	100		06/02/23 07:38	108-67-8	
Vinyl chloride	265	ug/L	100	16.7	100		06/02/23 07:38	75-01-4	
Xylene (Total)	ND	ug/L	300	28.2	100		06/02/23 07:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		100		06/02/23 07:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	80-120		100		06/02/23 07:38	2199-69-1	
Toluene-d8 (S)	98	%	80-120		100		06/02/23 07:38	2037-26-5	
Preservation pH	1.0		0.10		100		06/02/23 07:38		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: FIELD BLANK	Lab ID: 60429976020	Collected: 05/31/23 14:15	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
Acetone	6.1J	ug/L	10.0	2.5	1		06/02/23 06:02	67-64-1	
Benzene	ND	ug/L	1.0	0.14	1		06/02/23 06:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.088	1		06/02/23 06:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.20	1		06/02/23 06:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.16	1		06/02/23 06:02	75-27-4	
Bromoform	ND	ug/L	1.0	0.68	1		06/02/23 06:02	75-25-2	
Bromomethane	ND	ug/L	5.0	0.46	1		06/02/23 06:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.98	1		06/02/23 06:02	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.15	1		06/02/23 06:02	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.11	1		06/02/23 06:02	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 06:02	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.98	1		06/02/23 06:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.17	1		06/02/23 06:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.089	1		06/02/23 06:02	108-90-7	
Chloroethane	ND	ug/L	1.0	0.37	1		06/02/23 06:02	75-00-3	
Chloroform	ND	ug/L	1.0	0.22	1		06/02/23 06:02	67-66-3	
Chloromethane	ND	ug/L	1.0	0.28	1		06/02/23 06:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.11	1		06/02/23 06:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.15	1		06/02/23 06:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.78	1		06/02/23 06:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.30	1		06/02/23 06:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		06/02/23 06:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.11	1		06/02/23 06:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.12	1		06/02/23 06:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/02/23 06:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/02/23 06:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.20	1		06/02/23 06:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.12	1		06/02/23 06:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.21	1		06/02/23 06:02	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.22	1		06/02/23 06:02	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.22	1		06/02/23 06:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.13	1		06/02/23 06:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.10	1		06/02/23 06:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1		06/02/23 06:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.10	1		06/02/23 06:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.16	1		06/02/23 06:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.14	1		06/02/23 06:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.078	1		06/02/23 06:02	10061-01-5	L1
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.18	1		06/02/23 06:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 06:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.42	1		06/02/23 06:02	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.1	1		06/02/23 06:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.097	1		06/02/23 06:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.13	1		06/02/23 06:02	99-87-6	
Methylene Chloride	ND	ug/L	1.0	0.39	1		06/02/23 06:02	75-09-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: FIELD BLANK	Lab ID: 60429976020	Collected: 05/31/23 14:15	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.74	1		06/02/23 06:02	108-10-1	L1
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		06/02/23 06:02	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.82	1		06/02/23 06:02	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 06:02	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		06/02/23 06:02	100-42-5	L1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.084	1		06/02/23 06:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		06/02/23 06:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.33	1		06/02/23 06:02	127-18-4	
Toluene	ND	ug/L	1.0	0.25	1		06/02/23 06:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.93	1		06/02/23 06:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		06/02/23 06:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		06/02/23 06:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.14	1		06/02/23 06:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.21	1		06/02/23 06:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.16	1		06/02/23 06:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.41	1		06/02/23 06:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.32	1		06/02/23 06:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.090	1		06/02/23 06:02	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.17	1		06/02/23 06:02	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.28	1		06/02/23 06:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	115	%	80-120		1		06/02/23 06:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	114	%	80-120		1		06/02/23 06:02	2199-69-1	
Toluene-d8 (S)	101	%	80-120		1		06/02/23 06:02	2037-26-5	
Preservation pH	1.0		0.10		1		06/02/23 06:02		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: TRIP BLANK	Lab ID: 60429976021	Collected: 05/31/23 14:20	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
Acetone	ND	ug/L	10.0	2.5	1		06/02/23 06:18	67-64-1	
Benzene	ND	ug/L	1.0	0.14	1		06/02/23 06:18	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.088	1		06/02/23 06:18	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.20	1		06/02/23 06:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.16	1		06/02/23 06:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.68	1		06/02/23 06:18	75-25-2	
Bromomethane	ND	ug/L	5.0	0.46	1		06/02/23 06:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.98	1		06/02/23 06:18	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.15	1		06/02/23 06:18	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.11	1		06/02/23 06:18	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 06:18	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.98	1		06/02/23 06:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.17	1		06/02/23 06:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.089	1		06/02/23 06:18	108-90-7	
Chloroethane	ND	ug/L	1.0	0.37	1		06/02/23 06:18	75-00-3	
Chloroform	ND	ug/L	1.0	0.22	1		06/02/23 06:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.28	1		06/02/23 06:18	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.11	1		06/02/23 06:18	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.15	1		06/02/23 06:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.78	1		06/02/23 06:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.30	1		06/02/23 06:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		06/02/23 06:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.11	1		06/02/23 06:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.12	1		06/02/23 06:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/02/23 06:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/02/23 06:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.20	1		06/02/23 06:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.12	1		06/02/23 06:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.21	1		06/02/23 06:18	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.22	1		06/02/23 06:18	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.22	1		06/02/23 06:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.13	1		06/02/23 06:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.10	1		06/02/23 06:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1		06/02/23 06:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.10	1		06/02/23 06:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.16	1		06/02/23 06:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.14	1		06/02/23 06:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.078	1		06/02/23 06:18	10061-01-5	L1
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.18	1		06/02/23 06:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 06:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.42	1		06/02/23 06:18	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.1	1		06/02/23 06:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.097	1		06/02/23 06:18	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.13	1		06/02/23 06:18	99-87-6	
Methylene Chloride	ND	ug/L	1.0	0.39	1		06/02/23 06:18	75-09-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: CLINTON ENGINES
Pace Project No.: 60429976

Sample: TRIP BLANK	Lab ID: 60429976021	Collected: 05/31/23 14:20	Received: 06/01/23 10:55	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.74	1		06/02/23 06:18	108-10-1	L1
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		06/02/23 06:18	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.82	1		06/02/23 06:18	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.12	1		06/02/23 06:18	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		06/02/23 06:18	100-42-5	L1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.084	1		06/02/23 06:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		06/02/23 06:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.33	1		06/02/23 06:18	127-18-4	
Toluene	ND	ug/L	1.0	0.25	1		06/02/23 06:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.93	1		06/02/23 06:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		06/02/23 06:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		06/02/23 06:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.14	1		06/02/23 06:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.21	1		06/02/23 06:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.16	1		06/02/23 06:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.41	1		06/02/23 06:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.32	1		06/02/23 06:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.090	1		06/02/23 06:18	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.17	1		06/02/23 06:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.28	1		06/02/23 06:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		06/02/23 06:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	80-120		1		06/02/23 06:18	2199-69-1	
Toluene-d8 (S)	100	%	80-120		1		06/02/23 06:18	2037-26-5	
Preservation pH	1.0		0.10		1		06/02/23 06:18		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES
Pace Project No.: 60429976

QC Batch:	850288	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60429976001, 60429976002, 60429976003, 60429976004, 60429976005, 60429976006, 60429976007, 60429976008, 60429976009, 60429976010, 60429976011		

METHOD BLANK: 3368044 Matrix: Water

Associated Lab Samples: 60429976001, 60429976002, 60429976003, 60429976004, 60429976005, 60429976006, 60429976007,
60429976008, 60429976009, 60429976010, 60429976011

Parameter	Units	Blank	Reporting	MDL	Analyzed	Qualifiers
		Result	Limit			
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.084	06/01/23 14:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	06/01/23 14:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	06/01/23 14:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.14	06/01/23 14:27	
1,1-Dichloroethane	ug/L	ND	1.0	0.12	06/01/23 14:27	
1,1-Dichloroethene	ug/L	ND	1.0	0.22	06/01/23 14:27	
1,1-Dichloropropene	ug/L	ND	1.0	0.14	06/01/23 14:27	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.93	06/01/23 14:27	
1,2,3-Trichloropropane	ug/L	ND	2.5	0.41	06/01/23 14:27	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.73	06/01/23 14:27	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	0.32	06/01/23 14:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	0.78	06/01/23 14:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	0.20	06/01/23 14:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.12	06/01/23 14:27	
1,2-Dichloroethane	ug/L	ND	1.0	0.21	06/01/23 14:27	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	0.22	06/01/23 14:27	
1,2-Dichloropropane	ug/L	ND	1.0	0.14	06/01/23 14:27	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	0.090	06/01/23 14:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.13	06/01/23 14:27	
1,3-Dichloropropane	ug/L	ND	1.0	0.10	06/01/23 14:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.13	06/01/23 14:27	
2,2-Dichloropropane	ug/L	ND	1.0	0.16	06/01/23 14:27	
2-Butanone (MEK)	ug/L	ND	10.0	0.98	06/01/23 14:27	
2-Chlorotoluene	ug/L	ND	1.0	0.11	06/01/23 14:27	
2-Hexanone	ug/L	ND	10.0	1.1	06/01/23 14:27	
4-Chlorotoluene	ug/L	ND	1.0	0.15	06/01/23 14:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.74	06/01/23 14:27	
Acetone	ug/L	ND	10.0	2.5	06/01/23 14:27	
Benzene	ug/L	ND	1.0	0.14	06/01/23 14:27	
Bromobenzene	ug/L	ND	1.0	0.088	06/01/23 14:27	
Bromochloromethane	ug/L	ND	1.0	0.20	06/01/23 14:27	
Bromodichloromethane	ug/L	ND	1.0	0.16	06/01/23 14:27	
Bromoform	ug/L	ND	1.0	0.68	06/01/23 14:27	
Bromomethane	ug/L	ND	5.0	0.46	06/01/23 14:27	
Carbon disulfide	ug/L	ND	5.0	0.98	06/01/23 14:27	
Carbon tetrachloride	ug/L	ND	1.0	0.17	06/01/23 14:27	
Chlorobenzene	ug/L	ND	1.0	0.089	06/01/23 14:27	
Chloroethane	ug/L	ND	1.0	0.37	06/01/23 14:27	
Chloroform	ug/L	ND	1.0	0.22	06/01/23 14:27	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES

Pace Project No.: 60429976

METHOD BLANK: 3368044

Matrix: Water

Associated Lab Samples: 60429976001, 60429976002, 60429976003, 60429976004, 60429976005, 60429976006, 60429976007,
60429976008, 60429976009, 60429976010, 60429976011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloromethane	ug/L	ND	1.0	0.28	06/01/23 14:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.13	06/01/23 14:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.078	06/01/23 14:27	
Dibromochloromethane	ug/L	ND	1.0	0.30	06/01/23 14:27	
Dibromomethane	ug/L	ND	1.0	0.11	06/01/23 14:27	
Dichlorodifluoromethane	ug/L	ND	1.0	0.20	06/01/23 14:27	
Ethylbenzene	ug/L	ND	1.0	0.12	06/01/23 14:27	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.42	06/01/23 14:27	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	0.097	06/01/23 14:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.13	06/01/23 14:27	
Methylene Chloride	ug/L	ND	1.0	0.39	06/01/23 14:27	
n-Butylbenzene	ug/L	ND	1.0	0.15	06/01/23 14:27	
n-Propylbenzene	ug/L	ND	1.0	0.12	06/01/23 14:27	
Naphthalene	ug/L	ND	10.0	0.82	06/01/23 14:27	
p-Isopropyltoluene	ug/L	ND	1.0	0.13	06/01/23 14:27	
sec-Butylbenzene	ug/L	ND	1.0	0.11	06/01/23 14:27	
Styrene	ug/L	ND	1.0	0.12	06/01/23 14:27	
tert-Butylbenzene	ug/L	ND	1.0	0.12	06/01/23 14:27	
Tetrachloroethene	ug/L	ND	1.0	0.33	06/01/23 14:27	
Toluene	ug/L	ND	1.0	0.25	06/01/23 14:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.10	06/01/23 14:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.18	06/01/23 14:27	
Trichloroethene	ug/L	ND	1.0	0.21	06/01/23 14:27	
Trichlorofluoromethane	ug/L	ND	1.0	0.16	06/01/23 14:27	
Vinyl chloride	ug/L	ND	1.0	0.17	06/01/23 14:27	
Xylene (Total)	ug/L	ND	3.0	0.28	06/01/23 14:27	
1,2-Dichlorobenzene-d4 (S)	%	97	80-120		06/01/23 14:27	
4-Bromofluorobenzene (S)	%	101	80-120		06/01/23 14:27	
Toluene-d8 (S)	%	94	80-120		06/01/23 14:27	

LABORATORY CONTROL SAMPLE: 3368045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.6	98	80-120	
1,1,1-Trichloroethane	ug/L	20	20.1	101	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.9	99	80-120	
1,1,2-Trichloroethane	ug/L	20	18.6	93	80-120	
1,1-Dichloroethane	ug/L	20	19.4	97	75-120	
1,1-Dichloroethene	ug/L	20	19.3	97	75-120	
1,1-Dichloropropene	ug/L	20	19.4	97	75-125	
1,2,3-Trichlorobenzene	ug/L	20	18.4	92	60-135	
1,2,3-Trichloropropane	ug/L	20	21.9	109	75-120	
1,2,4-Trichlorobenzene	ug/L	20	18.2	91	65-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES

Pace Project No.: 60429976

LABORATORY CONTROL SAMPLE: 3368045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.2	101	80-120	
1,2-Dibromo-3-chloropropane	ug/L	20	17.3	86	65-130	
1,2-Dibromoethane (EDB)	ug/L	20	19.7	99	80-120	
1,2-Dichlorobenzene	ug/L	20	18.9	95	80-120	
1,2-Dichloroethane	ug/L	20	19.3	96	80-120	
1,2-Dichloroethene (Total)	ug/L	40	38.3	96	80-120	
1,2-Dichloropropane	ug/L	20	18.0	90	80-120	
1,3,5-Trimethylbenzene	ug/L	20	22.1	110	75-120	
1,3-Dichlorobenzene	ug/L	20	19.4	97	80-120	
1,3-Dichloropropane	ug/L	20	19.8	99	80-120	
1,4-Dichlorobenzene	ug/L	20	18.6	93	80-120	
2,2-Dichloropropane	ug/L	20	17.7	89	55-135	
2-Butanone (MEK)	ug/L	100	79.8	80	50-155	
2-Chlorotoluene	ug/L	20	20.7	103	80-120	
2-Hexanone	ug/L	100	83.9	84	55-145	
4-Chlorotoluene	ug/L	20	20.3	101	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	70-130	
Acetone	ug/L	100	66.6	67	35-160	
Benzene	ug/L	20	19.5	97	80-120	
Bromobenzene	ug/L	20	20.2	101	80-120	
Bromochloromethane	ug/L	20	18.8	94	80-120	
Bromodichloromethane	ug/L	20	20.7	103	80-120	
Bromoform	ug/L	20	17.5	88	60-130	
Bromomethane	ug/L	20	20.5	102	50-140	
Carbon disulfide	ug/L	20	20.4	102	75-125	
Carbon tetrachloride	ug/L	20	19.5	98	70-130	
Chlorobenzene	ug/L	20	19.7	99	80-120	
Chloroethane	ug/L	20	19.4	97	70-130	
Chloroform	ug/L	20	18.1	91	75-120	
Chloromethane	ug/L	20	17.6	88	45-145	
cis-1,2-Dichloroethene	ug/L	20	19.4	97	80-120	
cis-1,3-Dichloropropene	ug/L	20	21.1	105	75-125	
Dibromochloromethane	ug/L	20	19.2	96	75-125	
Dibromomethane	ug/L	20	20.5	103	80-120	
Dichlorodifluoromethane	ug/L	20	19.3	96	25-180	
Ethylbenzene	ug/L	20	19.4	97	80-120	
Hexachloro-1,3-butadiene	ug/L	20	17.8	89	65-125	
Isopropylbenzene (Cumene)	ug/L	20	20.6	103	80-125	
Methyl-tert-butyl ether	ug/L	20	19.4	97	75-125	
Methylene Chloride	ug/L	20	19.5	97	70-140	
n-Butylbenzene	ug/L	20	19.1	95	70-125	
n-Propylbenzene	ug/L	20	21.6	108	80-120	
Naphthalene	ug/L	20	20.4	102	60-140	
p-Isopropyltoluene	ug/L	20	20.2	101	80-120	
sec-Butylbenzene	ug/L	20	20.9	105	80-120	
Styrene	ug/L	20	23.3	116	80-120	
tert-Butylbenzene	ug/L	20	19.9	100	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES
Pace Project No.: 60429976

LABORATORY CONTROL SAMPLE: 3368045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	19.6	98	80-125	
Toluene	ug/L	20	19.2	96	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.9	94	80-120	
trans-1,3-Dichloropropene	ug/L	20	19.3	96	75-125	
Trichloroethene	ug/L	20	19.4	97	80-125	
Trichlorofluoromethane	ug/L	20	20.4	102	75-125	
Vinyl chloride	ug/L	20	19.4	97	65-140	
Xylene (Total)	ug/L	60	59.5	99	80-120	
1,2-Dichlorobenzene-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			112	80-120	
Toluene-d8 (S)	%			99	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES

Pace Project No.: 60429976

QC Batch:	850299	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60429976014, 60429976015, 60429976016, 60429976017, 60429976018, 60429976019, 60429976020, 60429976021		

METHOD BLANK: 3368128

Matrix: Water

Associated Lab Samples: 60429976014, 60429976015, 60429976016, 60429976017, 60429976018, 60429976019, 60429976020,
60429976021

Parameter	Units	Blank	Reporting		Analyzed	Qualifiers
		Result	Limit	MDL		
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.084	06/02/23 04:10	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	06/02/23 04:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	06/02/23 04:10	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.14	06/02/23 04:10	
1,1-Dichloroethane	ug/L	ND	1.0	0.12	06/02/23 04:10	
1,1-Dichloroethene	ug/L	ND	1.0	0.22	06/02/23 04:10	
1,1-Dichloropropene	ug/L	ND	1.0	0.14	06/02/23 04:10	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.93	06/02/23 04:10	
1,2,3-Trichloropropane	ug/L	ND	2.5	0.41	06/02/23 04:10	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.73	06/02/23 04:10	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	0.32	06/02/23 04:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	0.78	06/02/23 04:10	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	0.20	06/02/23 04:10	
1,2-Dichlorobenzene	ug/L	0.13J	1.0	0.12	06/02/23 04:10	
1,2-Dichloroethane	ug/L	ND	1.0	0.21	06/02/23 04:10	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	0.22	06/02/23 04:10	
1,2-Dichloropropane	ug/L	ND	1.0	0.14	06/02/23 04:10	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	0.090	06/02/23 04:10	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.13	06/02/23 04:10	
1,3-Dichloropropane	ug/L	ND	1.0	0.10	06/02/23 04:10	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.13	06/02/23 04:10	
2,2-Dichloropropane	ug/L	ND	1.0	0.16	06/02/23 04:10	
2-Butanone (MEK)	ug/L	ND	10.0	0.98	06/02/23 04:10	
2-Chlorotoluene	ug/L	ND	1.0	0.11	06/02/23 04:10	
2-Hexanone	ug/L	ND	10.0	1.1	06/02/23 04:10	
4-Chlorotoluene	ug/L	ND	1.0	0.15	06/02/23 04:10	
4-Methyl-2-pentanone (MIBK)	ug/L	0.80J	10.0	0.74	06/02/23 04:10	
Acetone	ug/L	ND	10.0	2.5	06/02/23 04:10	
Benzene	ug/L	ND	1.0	0.14	06/02/23 04:10	
Bromobenzene	ug/L	ND	1.0	0.088	06/02/23 04:10	
Bromochloromethane	ug/L	ND	1.0	0.20	06/02/23 04:10	
Bromodichloromethane	ug/L	ND	1.0	0.16	06/02/23 04:10	
Bromoform	ug/L	ND	1.0	0.68	06/02/23 04:10	
Bromomethane	ug/L	ND	5.0	0.46	06/02/23 04:10	
Carbon disulfide	ug/L	ND	5.0	0.98	06/02/23 04:10	
Carbon tetrachloride	ug/L	ND	1.0	0.17	06/02/23 04:10	
Chlorobenzene	ug/L	ND	1.0	0.089	06/02/23 04:10	
Chloroethane	ug/L	ND	1.0	0.37	06/02/23 04:10	
Chloroform	ug/L	ND	1.0	0.22	06/02/23 04:10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES

Pace Project No.: 60429976

METHOD BLANK: 3368128

Matrix: Water

Associated Lab Samples: 60429976014, 60429976015, 60429976016, 60429976017, 60429976018, 60429976019, 60429976020,
60429976021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloromethane	ug/L	ND	1.0	0.28	06/02/23 04:10	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.13	06/02/23 04:10	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.078	06/02/23 04:10	
Dibromochloromethane	ug/L	ND	1.0	0.30	06/02/23 04:10	
Dibromomethane	ug/L	ND	1.0	0.11	06/02/23 04:10	
Dichlorodifluoromethane	ug/L	ND	1.0	0.20	06/02/23 04:10	
Ethylbenzene	ug/L	ND	1.0	0.12	06/02/23 04:10	
Hexachloro-1,3-butadiene	ug/L	0.68J	1.0	0.42	06/02/23 04:10	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	0.097	06/02/23 04:10	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.13	06/02/23 04:10	
Methylene Chloride	ug/L	ND	1.0	0.39	06/02/23 04:10	
n-Butylbenzene	ug/L	0.22J	1.0	0.15	06/02/23 04:10	
n-Propylbenzene	ug/L	ND	1.0	0.12	06/02/23 04:10	
Naphthalene	ug/L	ND	10.0	0.82	06/02/23 04:10	
p-Isopropyltoluene	ug/L	ND	1.0	0.13	06/02/23 04:10	
sec-Butylbenzene	ug/L	ND	1.0	0.11	06/02/23 04:10	
Styrene	ug/L	ND	1.0	0.12	06/02/23 04:10	
tert-Butylbenzene	ug/L	ND	1.0	0.12	06/02/23 04:10	
Tetrachloroethene	ug/L	ND	1.0	0.33	06/02/23 04:10	
Toluene	ug/L	ND	1.0	0.25	06/02/23 04:10	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.10	06/02/23 04:10	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.18	06/02/23 04:10	
Trichloroethene	ug/L	ND	1.0	0.21	06/02/23 04:10	
Trichlorofluoromethane	ug/L	ND	1.0	0.16	06/02/23 04:10	
Vinyl chloride	ug/L	ND	1.0	0.17	06/02/23 04:10	
Xylene (Total)	ug/L	ND	3.0	0.28	06/02/23 04:10	
1,2-Dichlorobenzene-d4 (S)	%	101	80-120		06/02/23 04:10	
4-Bromofluorobenzene (S)	%	100	80-120		06/02/23 04:10	
Toluene-d8 (S)	%	99	80-120		06/02/23 04:10	

LABORATORY CONTROL SAMPLE: 3368129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.3	107	80-120	
1,1,1-Trichloroethane	ug/L	20	22.6	113	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	22.6	113	80-120	
1,1,2-Trichloroethane	ug/L	20	23.3	117	80-120	
1,1-Dichloroethane	ug/L	20	21.6	108	75-120	
1,1-Dichloroethene	ug/L	20	21.9	110	75-120	
1,1-Dichloropropene	ug/L	20	22.1	111	75-125	
1,2,3-Trichlorobenzene	ug/L	20	19.5	97	60-135	
1,2,3-Trichloropropane	ug/L	20	23.8	119	75-120	
1,2,4-Trichlorobenzene	ug/L	20	19.2	96	65-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES

Pace Project No.: 60429976

LABORATORY CONTROL SAMPLE: 3368129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.3	102	80-120	
1,2-Dibromo-3-chloropropane	ug/L	20	21.4	107	65-130	
1,2-Dibromoethane (EDB)	ug/L	20	21.8	109	80-120	
1,2-Dichlorobenzene	ug/L	20	21.6	108	80-120	
1,2-Dichloroethane	ug/L	20	22.5	113	80-120	
1,2-Dichloroethene (Total)	ug/L	40	43.2	108	80-120	
1,2-Dichloropropane	ug/L	20	22.4	112	80-120	
1,3,5-Trimethylbenzene	ug/L	20	20.9	105	75-120	
1,3-Dichlorobenzene	ug/L	20	20.8	104	80-120	
1,3-Dichloropropane	ug/L	20	23.3	117	80-120	
1,4-Dichlorobenzene	ug/L	20	20.7	103	80-120	
2,2-Dichloropropane	ug/L	20	16.8	84	55-135	
2-Butanone (MEK)	ug/L	100	107	107	50-155	
2-Chlorotoluene	ug/L	20	20.9	105	80-120	
2-Hexanone	ug/L	100	108	108	55-145	
4-Chlorotoluene	ug/L	20	21.1	105	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	137	137	70-130 L1	
Acetone	ug/L	100	124	124	35-160	
Benzene	ug/L	20	22.0	110	80-120	
Bromobenzene	ug/L	20	22.2	111	80-120	
Bromochloromethane	ug/L	20	22.8	114	80-120	
Bromodichloromethane	ug/L	20	23.2	116	80-120	
Bromoform	ug/L	20	22.9	114	60-130	
Bromomethane	ug/L	20	20.7	104	50-140	
Carbon disulfide	ug/L	20	21.1	106	75-125	
Carbon tetrachloride	ug/L	20	22.6	113	70-130	
Chlorobenzene	ug/L	20	21.6	108	80-120	
Chloroethane	ug/L	20	23.8	119	70-130	
Chloroform	ug/L	20	22.0	110	75-120	
Chloromethane	ug/L	20	21.4	107	45-145	
cis-1,2-Dichloroethene	ug/L	20	21.3	107	80-120	
cis-1,3-Dichloropropene	ug/L	20	25.7	129	75-125 L1	
Dibromochloromethane	ug/L	20	22.4	112	75-125	
Dibromomethane	ug/L	20	23.6	118	80-120	
Dichlorodifluoromethane	ug/L	20	22.2	111	25-180	
Ethylbenzene	ug/L	20	21.3	106	80-120	
Hexachloro-1,3-butadiene	ug/L	20	16.2	81	65-125	
Isopropylbenzene (Cumene)	ug/L	20	21.0	105	80-125	
Methyl-tert-butyl ether	ug/L	20	21.8	109	75-125	
Methylene Chloride	ug/L	20	22.6	113	70-140	
n-Butylbenzene	ug/L	20	19.3	96	70-125	
n-Propylbenzene	ug/L	20	21.8	109	80-120	
Naphthalene	ug/L	20	19.8	99	60-140	
p-Isopropyltoluene	ug/L	20	20.2	101	80-120	
sec-Butylbenzene	ug/L	20	20.6	103	80-120	
Styrene	ug/L	20	25.0	125	80-120 L1	
tert-Butylbenzene	ug/L	20	20.6	103	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES
Pace Project No.: 60429976

LABORATORY CONTROL SAMPLE: 3368129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	22.8	114	80-125	
Toluene	ug/L	20	21.1	106	80-120	
trans-1,2-Dichloroethene	ug/L	20	21.8	109	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.3	107	75-125	
Trichloroethene	ug/L	20	21.5	107	80-125	
Trichlorofluoromethane	ug/L	20	23.6	118	75-125	
Vinyl chloride	ug/L	20	21.0	105	65-140	
Xylene (Total)	ug/L	60	62.8	105	80-120	
1,2-Dichlorobenzene-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			99	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES

Pace Project No.: 60429976

QC Batch: 850466 Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge

Associated Lab Samples: 60429976012 Laboratory: Pace Analytical Services - Kansas City

METHOD BLANK: 3368720

Matrix: Water

Associated Lab Samples: 60429976012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.084	06/02/23 17:46	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	06/02/23 17:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	06/02/23 17:46	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.14	06/02/23 17:46	
1,1-Dichloroethane	ug/L	ND	1.0	0.12	06/02/23 17:46	
1,1-Dichloroethene	ug/L	ND	1.0	0.22	06/02/23 17:46	
1,1-Dichloropropene	ug/L	ND	1.0	0.14	06/02/23 17:46	
1,2,3-Trichlorobenzene	ug/L	0.96J	1.0	0.93	06/02/23 17:46	
1,2,3-Trichloropropane	ug/L	ND	2.5	0.41	06/02/23 17:46	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.73	06/02/23 17:46	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	0.32	06/02/23 17:46	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	0.78	06/02/23 17:46	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	0.20	06/02/23 17:46	
1,2-Dichlorobenzene	ug/L	0.19J	1.0	0.12	06/02/23 17:46	
1,2-Dichloroethane	ug/L	ND	1.0	0.21	06/02/23 17:46	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	0.22	06/02/23 17:46	
1,2-Dichloropropane	ug/L	ND	1.0	0.14	06/02/23 17:46	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	0.090	06/02/23 17:46	
1,3-Dichlorobenzene	ug/L	0.14J	1.0	0.13	06/02/23 17:46	
1,3-Dichloropropane	ug/L	ND	1.0	0.10	06/02/23 17:46	
1,4-Dichlorobenzene	ug/L	0.15J	1.0	0.13	06/02/23 17:46	
2,2-Dichloropropane	ug/L	ND	1.0	0.16	06/02/23 17:46	
2-Butanone (MEK)	ug/L	ND	10.0	0.98	06/02/23 17:46	
2-Chlorotoluene	ug/L	ND	1.0	0.11	06/02/23 17:46	
2-Hexanone	ug/L	ND	10.0	1.1	06/02/23 17:46	
4-Chlorotoluene	ug/L	ND	1.0	0.15	06/02/23 17:46	
4-Methyl-2-pentanone (MIBK)	ug/L	0.85J	10.0	0.74	06/02/23 17:46	
Acetone	ug/L	ND	10.0	2.5	06/02/23 17:46	
Benzene	ug/L	ND	1.0	0.14	06/02/23 17:46	
Bromobenzene	ug/L	ND	1.0	0.088	06/02/23 17:46	
Bromochloromethane	ug/L	ND	1.0	0.20	06/02/23 17:46	
Bromodichloromethane	ug/L	ND	1.0	0.16	06/02/23 17:46	
Bromoform	ug/L	ND	1.0	0.68	06/02/23 17:46	
Bromomethane	ug/L	ND	5.0	0.46	06/02/23 17:46	
Carbon disulfide	ug/L	ND	5.0	0.98	06/02/23 17:46	
Carbon tetrachloride	ug/L	ND	1.0	0.17	06/02/23 17:46	
Chlorobenzene	ug/L	ND	1.0	0.089	06/02/23 17:46	
Chloroethane	ug/L	ND	1.0	0.37	06/02/23 17:46	
Chloroform	ug/L	ND	1.0	0.22	06/02/23 17:46	
Chloromethane	ug/L	ND	1.0	0.28	06/02/23 17:46	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES

Pace Project No.: 60429976

METHOD BLANK: 3368720

Matrix: Water

Associated Lab Samples: 60429976012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.13	06/02/23 17:46	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.078	06/02/23 17:46	
Dibromochloromethane	ug/L	ND	1.0	0.30	06/02/23 17:46	
Dibromomethane	ug/L	ND	1.0	0.11	06/02/23 17:46	
Dichlorodifluoromethane	ug/L	ND	1.0	0.20	06/02/23 17:46	
Ethylbenzene	ug/L	ND	1.0	0.12	06/02/23 17:46	
Hexachloro-1,3-butadiene	ug/L	1.3	1.0	0.42	06/02/23 17:46	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	0.097	06/02/23 17:46	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.13	06/02/23 17:46	
Methylene Chloride	ug/L	ND	1.0	0.39	06/02/23 17:46	
n-Butylbenzene	ug/L	0.25J	1.0	0.15	06/02/23 17:46	
n-Propylbenzene	ug/L	ND	1.0	0.12	06/02/23 17:46	
Naphthalene	ug/L	0.87J	10.0	0.82	06/02/23 17:46	
p-Isopropyltoluene	ug/L	ND	1.0	0.13	06/02/23 17:46	
sec-Butylbenzene	ug/L	ND	1.0	0.11	06/02/23 17:46	
Styrene	ug/L	ND	1.0	0.12	06/02/23 17:46	
tert-Butylbenzene	ug/L	ND	1.0	0.12	06/02/23 17:46	
Tetrachloroethene	ug/L	ND	1.0	0.33	06/02/23 17:46	
Toluene	ug/L	ND	1.0	0.25	06/02/23 17:46	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.10	06/02/23 17:46	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.18	06/02/23 17:46	
Trichloroethene	ug/L	ND	1.0	0.21	06/02/23 17:46	
Trichlorofluoromethane	ug/L	ND	1.0	0.16	06/02/23 17:46	
Vinyl chloride	ug/L	ND	1.0	0.17	06/02/23 17:46	
Xylene (Total)	ug/L	ND	3.0	0.28	06/02/23 17:46	
1,2-Dichlorobenzene-d4 (S)	%	119	80-120		06/02/23 17:46	
4-Bromofluorobenzene (S)	%	100	80-120		06/02/23 17:46	
Toluene-d8 (S)	%	100	80-120		06/02/23 17:46	

LABORATORY CONTROL SAMPLE: 3368721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.9	105	80-120	
1,1,1-Trichloroethane	ug/L	20	21.1	105	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	22.3	112	80-120	
1,1,2-Trichloroethane	ug/L	20	22.7	114	80-120	
1,1-Dichloroethane	ug/L	20	20.9	105	75-120	
1,1-Dichloroethene	ug/L	20	19.9	100	75-120	
1,1-Dichloropropene	ug/L	20	20.8	104	75-125	
1,2,3-Trichlorobenzene	ug/L	20	18.5	93	60-135	
1,2,3-Trichloropropane	ug/L	20	21.8	109	75-120	
1,2,4-Trichlorobenzene	ug/L	20	18.7	93	65-130	
1,2,4-Trimethylbenzene	ug/L	20	20.4	102	80-120	
1,2-Dibromo-3-chloropropane	ug/L	20	19.4	97	65-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES

Pace Project No.: 60429976

LABORATORY CONTROL SAMPLE: 3368721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	21.3	106	80-120	
1,2-Dichlorobenzene	ug/L	20	20.5	103	80-120	
1,2-Dichloroethane	ug/L	20	21.1	106	80-120	
1,2-Dichloroethene (Total)	ug/L	40	39.4	99	80-120	
1,2-Dichloropropane	ug/L	20	22.1	110	80-120	
1,3,5-Trimethylbenzene	ug/L	20	20.0	100	75-120	
1,3-Dichlorobenzene	ug/L	20	20.6	103	80-120	
1,3-Dichloropropane	ug/L	20	22.0	110	80-120	
1,4-Dichlorobenzene	ug/L	20	19.8	99	80-120	
2,2-Dichloropropane	ug/L	20	18.3	91	55-135	
2-Butanone (MEK)	ug/L	100	99.5	100	50-155	
2-Chlorotoluene	ug/L	20	20.6	103	80-120	
2-Hexanone	ug/L	100	92.4	92	55-145	
4-Chlorotoluene	ug/L	20	20.6	103	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	132	132	70-130 L1	
Acetone	ug/L	100	84.0	84	35-160	
Benzene	ug/L	20	20.8	104	80-120	
Bromobenzene	ug/L	20	21.4	107	80-120	
Bromochloromethane	ug/L	20	21.9	109	80-120	
Bromodichloromethane	ug/L	20	27.3	136	80-120 L1	
Bromoform	ug/L	20	22.8	114	60-130	
Bromomethane	ug/L	20	24.6	123	50-140	
Carbon disulfide	ug/L	20	19.0	95	75-125	
Carbon tetrachloride	ug/L	20	21.6	108	70-130	
Chlorobenzene	ug/L	20	21.4	107	80-120	
Chloroethane	ug/L	20	22.7	114	70-130	
Chloroform	ug/L	20	20.9	105	75-120	
Chloromethane	ug/L	20	19.7	98	45-145	
cis-1,2-Dichloroethene	ug/L	20	19.7	98	80-120	
cis-1,3-Dichloropropene	ug/L	20	25.5	127	75-125 L1	
Dibromochloromethane	ug/L	20	21.4	107	75-125	
Dibromomethane	ug/L	20	27.0	135	80-120 L1	
Dichlorodifluoromethane	ug/L	20	17.4	87	25-180	
Ethylbenzene	ug/L	20	20.7	104	80-120	
Hexachloro-1,3-butadiene	ug/L	20	16.6	83	65-125	
Isopropylbenzene (Cumene)	ug/L	20	20.6	103	80-125	
Methyl-tert-butyl ether	ug/L	20	19.9	99	75-125	
Methylene Chloride	ug/L	20	20.7	104	70-140	
n-Butylbenzene	ug/L	20	19.2	96	70-125	
n-Propylbenzene	ug/L	20	21.2	106	80-120	
Naphthalene	ug/L	20	18.4	92	60-140	
p-Isopropyltoluene	ug/L	20	19.5	98	80-120	
sec-Butylbenzene	ug/L	20	20.7	103	80-120	
Styrene	ug/L	20	24.3	122	80-120 L1	
tert-Butylbenzene	ug/L	20	20.5	103	80-120	
Tetrachloroethene	ug/L	20	21.9	110	80-125	
Toluene	ug/L	20	20.7	103	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES
Pace Project No.: 60429976

LABORATORY CONTROL SAMPLE: 3368721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	19.7	99	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.0	105	75-125	
Trichloroethene	ug/L	20	21.2	106	80-125	
Trichlorofluoromethane	ug/L	20	25.1	125	75-125	
Vinyl chloride	ug/L	20	20.8	104	65-140	
Xylene (Total)	ug/L	60	61.3	102	80-120	
1,2-Dichlorobenzene-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES

Pace Project No.: 60429976

QC Batch: 850695 Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge

Associated Lab Samples: 60429976013 Laboratory: Pace Analytical Services - Kansas City

METHOD BLANK: 3369450

Matrix: Water

Associated Lab Samples: 60429976013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.084	06/05/23 10:04	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	06/05/23 10:04	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	06/05/23 10:04	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.14	06/05/23 10:04	
1,1-Dichloroethane	ug/L	ND	1.0	0.12	06/05/23 10:04	
1,1-Dichloroethene	ug/L	ND	1.0	0.22	06/05/23 10:04	
1,1-Dichloropropene	ug/L	ND	1.0	0.14	06/05/23 10:04	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.93	06/05/23 10:04	
1,2,3-Trichloropropane	ug/L	ND	2.5	0.41	06/05/23 10:04	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.73	06/05/23 10:04	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	0.32	06/05/23 10:04	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	0.78	06/05/23 10:04	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	0.20	06/05/23 10:04	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.12	06/05/23 10:04	
1,2-Dichloroethane	ug/L	ND	1.0	0.21	06/05/23 10:04	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	0.22	06/05/23 10:04	
1,2-Dichloropropane	ug/L	ND	1.0	0.14	06/05/23 10:04	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	0.090	06/05/23 10:04	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.13	06/05/23 10:04	
1,3-Dichloropropane	ug/L	ND	1.0	0.10	06/05/23 10:04	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.13	06/05/23 10:04	
2,2-Dichloropropane	ug/L	ND	1.0	0.16	06/05/23 10:04	
2-Butanone (MEK)	ug/L	ND	10.0	0.98	06/05/23 10:04	
2-Chlorotoluene	ug/L	ND	1.0	0.11	06/05/23 10:04	
2-Hexanone	ug/L	ND	10.0	1.1	06/05/23 10:04	
4-Chlorotoluene	ug/L	ND	1.0	0.15	06/05/23 10:04	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.74	06/05/23 10:04	
Acetone	ug/L	ND	10.0	2.5	06/05/23 10:04	
Benzene	ug/L	ND	1.0	0.14	06/05/23 10:04	
Bromobenzene	ug/L	ND	1.0	0.088	06/05/23 10:04	
Bromochloromethane	ug/L	ND	1.0	0.20	06/05/23 10:04	
Bromodichloromethane	ug/L	ND	1.0	0.16	06/05/23 10:04	
Bromoform	ug/L	ND	1.0	0.68	06/05/23 10:04	
Bromomethane	ug/L	ND	5.0	0.46	06/05/23 10:04	
Carbon disulfide	ug/L	ND	5.0	0.98	06/05/23 10:04	
Carbon tetrachloride	ug/L	ND	1.0	0.17	06/05/23 10:04	
Chlorobenzene	ug/L	ND	1.0	0.089	06/05/23 10:04	
Chloroethane	ug/L	ND	1.0	0.37	06/05/23 10:04	
Chloroform	ug/L	ND	1.0	0.22	06/05/23 10:04	
Chloromethane	ug/L	ND	1.0	0.28	06/05/23 10:04	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES

Pace Project No.: 60429976

METHOD BLANK: 3369450

Matrix: Water

Associated Lab Samples: 60429976013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.13	06/05/23 10:04	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.078	06/05/23 10:04	
Dibromochloromethane	ug/L	ND	1.0	0.30	06/05/23 10:04	
Dibromomethane	ug/L	ND	1.0	0.11	06/05/23 10:04	
Dichlorodifluoromethane	ug/L	ND	1.0	0.20	06/05/23 10:04	
Ethylbenzene	ug/L	ND	1.0	0.12	06/05/23 10:04	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.42	06/05/23 10:04	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	0.097	06/05/23 10:04	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.13	06/05/23 10:04	
Methylene Chloride	ug/L	ND	1.0	0.39	06/05/23 10:04	
n-Butylbenzene	ug/L	ND	1.0	0.15	06/05/23 10:04	
n-Propylbenzene	ug/L	ND	1.0	0.12	06/05/23 10:04	
Naphthalene	ug/L	ND	10.0	0.82	06/05/23 10:04	
p-Isopropyltoluene	ug/L	ND	1.0	0.13	06/05/23 10:04	
sec-Butylbenzene	ug/L	ND	1.0	0.11	06/05/23 10:04	
Styrene	ug/L	ND	1.0	0.12	06/05/23 10:04	
tert-Butylbenzene	ug/L	ND	1.0	0.12	06/05/23 10:04	
Tetrachloroethene	ug/L	ND	1.0	0.33	06/05/23 10:04	
Toluene	ug/L	ND	1.0	0.25	06/05/23 10:04	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.10	06/05/23 10:04	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.18	06/05/23 10:04	
Trichloroethene	ug/L	ND	1.0	0.21	06/05/23 10:04	
Trichlorofluoromethane	ug/L	ND	1.0	0.16	06/05/23 10:04	
Vinyl chloride	ug/L	ND	1.0	0.17	06/05/23 10:04	
Xylene (Total)	ug/L	ND	3.0	0.28	06/05/23 10:04	
1,2-Dichlorobenzene-d4 (S)	%	99	80-120		06/05/23 10:04	
4-Bromofluorobenzene (S)	%	103	80-120		06/05/23 10:04	
Toluene-d8 (S)	%	101	80-120		06/05/23 10:04	

LABORATORY CONTROL SAMPLE: 3369451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.8	99	80-120	
1,1,1-Trichloroethane	ug/L	20	21.2	106	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	80-120	
1,1,2-Trichloroethane	ug/L	20	21.0	105	80-120	
1,1-Dichloroethane	ug/L	20	21.2	106	75-120	
1,1-Dichloroethene	ug/L	20	21.0	105	75-120	
1,1-Dichloropropene	ug/L	20	20.8	104	75-125	
1,2,3-Trichlorobenzene	ug/L	20	18.6	93	60-135	
1,2,3-Trichloropropane	ug/L	20	21.2	106	75-120	
1,2,4-Trichlorobenzene	ug/L	20	19.5	98	65-130	
1,2,4-Trimethylbenzene	ug/L	20	19.7	99	80-120	
1,2-Dibromo-3-chloropropane	ug/L	20	22.2	111	65-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES

Pace Project No.: 60429976

LABORATORY CONTROL SAMPLE: 3369451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	21.2	106	80-120	
1,2-Dichlorobenzene	ug/L	20	19.9	99	80-120	
1,2-Dichloroethane	ug/L	20	21.2	106	80-120	
1,2-Dichloroethene (Total)	ug/L	40	42.2	105	80-120	
1,2-Dichloropropane	ug/L	20	20.4	102	80-120	
1,3,5-Trimethylbenzene	ug/L	20	19.7	98	75-120	
1,3-Dichlorobenzene	ug/L	20	20.0	100	80-120	
1,3-Dichloropropane	ug/L	20	21.1	106	80-120	
1,4-Dichlorobenzene	ug/L	20	19.8	99	80-120	
2,2-Dichloropropane	ug/L	20	21.4	107	55-135	
2-Butanone (MEK)	ug/L	100	105	105	50-155	
2-Chlorotoluene	ug/L	20	19.9	99	80-120	
2-Hexanone	ug/L	100	97.6	98	55-145	
4-Chlorotoluene	ug/L	20	20.7	103	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	70-130	
Acetone	ug/L	100	84.5	84	35-160	
Benzene	ug/L	20	20.4	102	80-120	
Bromobenzene	ug/L	20	20.9	104	80-120	
Bromochloromethane	ug/L	20	22.6	113	80-120	
Bromodichloromethane	ug/L	20	21.1	106	80-120	
Bromoform	ug/L	20	23.1	115	60-130	
Bromomethane	ug/L	20	21.1	106	50-140	
Carbon disulfide	ug/L	20	21.2	106	75-125	
Carbon tetrachloride	ug/L	20	20.4	102	70-130	
Chlorobenzene	ug/L	20	21.1	105	80-120	
Chloroethane	ug/L	20	27.9	140	70-130 L1	
Chloroform	ug/L	20	21.1	106	75-120	
Chloromethane	ug/L	20	20.6	103	45-145	
cis-1,2-Dichloroethene	ug/L	20	21.4	107	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.9	104	75-125	
Dibromochloromethane	ug/L	20	21.8	109	75-125	
Dibromomethane	ug/L	20	21.8	109	80-120	
Dichlorodifluoromethane	ug/L	20	24.5	123	25-180	
Ethylbenzene	ug/L	20	20.5	102	80-120	
Hexachloro-1,3-butadiene	ug/L	20	18.8	94	65-125	
Isopropylbenzene (Cumene)	ug/L	20	20.3	101	80-125	
Methyl-tert-butyl ether	ug/L	20	20.9	104	75-125	
Methylene Chloride	ug/L	20	21.8	109	70-140	
n-Butylbenzene	ug/L	20	18.7	94	70-125	
n-Propylbenzene	ug/L	20	20.0	100	80-120	
Naphthalene	ug/L	20	18.9	94	60-140	
p-Isopropyltoluene	ug/L	20	19.7	98	80-120	
sec-Butylbenzene	ug/L	20	19.7	99	80-120	
Styrene	ug/L	20	20.7	104	80-120	
tert-Butylbenzene	ug/L	20	19.9	99	80-120	
Tetrachloroethene	ug/L	20	23.0	115	80-125	
Toluene	ug/L	20	20.6	103	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: CLINTON ENGINES
Pace Project No.: 60429976

LABORATORY CONTROL SAMPLE: 3369451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	20.8	104	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.5	108	75-125	
Trichloroethene	ug/L	20	20.5	102	80-125	
Trichlorofluoromethane	ug/L	20	22.7	113	75-125	
Vinyl chloride	ug/L	20	21.1	106	65-140	
Xylene (Total)	ug/L	60	61.6	103	80-120	
1,2-Dichlorobenzene-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			101	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: CLINTON ENGINES
Pace Project No.: 60429976

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 850288

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CLINTON ENGINES
Pace Project No.: 60429976

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60429976001	MW-102	EPA 5030B/8260	850288		
60429976002	MW-3B	EPA 5030B/8260	850288		
60429976003	MW-1B	EPA 5030B/8260	850288		
60429976004	MW-9	EPA 5030B/8260	850288		
60429976005	MW-10A	EPA 5030B/8260	850288		
60429976006	MW-10B	EPA 5030B/8260	850288		
60429976007	MW-X	EPA 5030B/8260	850288		
60429976008	MW-14	EPA 5030B/8260	850288		
60429976009	MW-103	EPA 5030B/8260	850288		
60429976010	MW-104	EPA 5030B/8260	850288		
60429976011	MW-13	EPA 5030B/8260	850288		
60429976012	MW-Y	EPA 5030B/8260	850466		
60429976013	MW-12	EPA 5030B/8260	850695		
60429976014	MW-101	EPA 5030B/8260	850299		
60429976015	MW-6B	EPA 5030B/8260	850299		
60429976016	MW-11B	EPA 5030B/8260	850299		
60429976017	MW-4B	EPA 5030B/8260	850299		
60429976018	MW-2B	EPA 5030B/8260	850299		
60429976019	MW-8B	EPA 5030B/8260	850299		
60429976020	FIELD BLANK	EPA 5030B/8260	850299		
60429976021	TRIP BLANK	EPA 5030B/8260	850299		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



60429976



DC#_Title: ENV-FRM-LENE-0009_Sample Co

Revision: 2

Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: Tetra TechCourier: FedEx UPS VIA Clay PEX ECI Pace Xroads Client Other Tracking #: _____ Pace Shipping Label Used? Yes No Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Packing Material: Bubble Wrap Bubble Bags Foam None Other Thermometer Used: T299 Type of Ice: Wet Blue None Cooler Temperature (°C): As-read 0.4 Corr. Factor +0.2 Corrected 0.6Date and initials of person examining contents:
PW 6/1/22

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>.

Section A

Required Client Information:		Required Project Information:		Invoice Information:	
Company: Address: Email: Phone: Requested Due Date:	TETRA TECH EMI 415 Oak Kansas City, MO 64106 Kaitlyn.mitchell@tetratech.com (816)412-1742	Report To: Copy To: Purchase Order #: Project Name: Project #:	Kaitlyn Mitchell Kaitlyn.mitchell@pacelabs.com Clinton Engineers 15191, line 5	Attention: Company Name: Address: Pace Quote: Pace Project Manager: Pace Profile #:	
Section B SAMPLE ID One Character per box. (A-Z, 0-9, -,) Sample Ids must be unique					
ITEM #	MATRIX	CODE	COLLECTED	Preservatives	
	Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Issue	DIV WT WW P SL OL WP AR OT TS	START	END	NaOH HCl HNO3 H2SO4 Unpreserved N2S2O3 Methanol 8260 VOCs Trip Blank Analyzes Test Y/N
1	MW-102	5/31/21	2021-05-31		
2	MW-30	1	2021-05-30		
3	MW-10	1	2021-05-30		
4	MW-9	1	2021-05-30		
5	MW-10A	1	2021-05-30		
6	MW-10B	1	2021-05-30		
7	MW-X	1	2021-05-30		
8	MW-14	1	2021-05-30		
9	MW-103	1	2021-05-30		
10	MW-104	1	2021-05-30		
11	MW-13	1	2021-05-30		
12	MW-Y	1	2021-05-30		
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION
		Macy Lamaway	6/1/21	0900	<i>[Signature]</i>
					6/1/21
					Y
Section C ANALYTICAL REQUEST Residual Chlorine (Y/N): <i>604109916</i> State / Location: IA Requested Analysis Filtered (Y/N): <i>3V1944</i>					
TEMP in C	Received on	Sample Collected (Y/N)	Sealed Container (Y/N)	Print Name of Sampler:	Signature of Sampler:
				Macy Lamaway	Macy Lamaway
				6/1/21	6/1/21
				1 of 2	1 of 2



CHAIN-OF-CUSTODY / Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>.

Section A

Required Client Information:

Company: TETRA TECH EMI	Report To: Kaitlyn Mitchell	Attention:	Page : 1 Of 1
Address: 415 Oak	Copy To:	Company Name:	
Kansas City, MO 64106	Purchase Order #:	Address:	Regulatory Agency
Email: kaitlyn.mitchell@tetratech.com	Project Name: Clinton Engines	Pace Quote:	
Phone: (816)412-1742	Project #: 15191, line 5	Pace Project Manager: Jamie church@pacelabs.com,	State / Location IA
Requested Due Date:			
SAMPLE ID One Character per box. (A-Z, 0-9, -,) Sample Ids must be unique ITEM #			
Required Project Information:			
Invoice Information:			
ANALYSIS TEST Y/N			
Preservatives			
Sample Temp At Collection			
# OF CONTAINERS			
Unpreserved			
HNO3			
NaOH			
HC1			
NAS2S2O3			
Methanol			
Other			
8260 VOCs			
Trap Blank			
Residual Chlorine (Y/N)			
Comments			
RELINQUISHED BY / AFFILIATION			
ADDITIONAL COMMENTS			
ACCEPTED BY / AFFILIATION			
DATE TIME			
DATE TIME			
SAMPLE CONDITIONS			
PRINT Name of SAMPLER:			
SIGNATURE of SAMPLER:			
DATE Signed:			
TEMP in C			
Received on			
Custody Sealed/Cooler (Y/N)			
Samples In (Y/N)			

DATA VERIFICATION REPORT

Prepared by: Ellen McEntee
Date: June 8, 2023
Site Name/Job Number: Clinton Engines / 103G65210190.009.03
Laboratory: Pace Analytical, Lenexa, KS

Data Package or SDG Number: 60429976

Sample Designations/Names:

MW-1B	MW-2B	MW-3B	MW-4B	MW-6B	MW-8B
MW-9	MW10A	MW10B	MW-11B	MW-12	MW-13
MW-14	MW-101	MW-102	MW-103	MW-104	MW-X
MW-Y	FIELD BLANK	TRIP BLANK			

Matrices: Water

Analytical Parameters: VOCs by SW-846 Method 8260

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Chain of custody	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The chain of custody was completed appropriately.
Data package completeness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The data package contains all the required elements.
Sample preservation, storage, and holding times	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The samples were received on 06/01/2023; the samples arrived in good condition. All samples were analyzed within the recommended holding time.

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Method and field blank contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>The trip blank was non-detect for all target analytes.</p> <p>Acetone was detected in the field blank at a concentration less than the reporting limit. The results for acetone in samples MW-1B, MW-14, MW-103, MW-104, MW-13, MW-Y, MW-12, MW-101, MW-11B, and MW-4B are detected at greater than the RL but less than ten times the trip blank concentration and were qualified as estimated, with possible high bias (flagged J+). The results for acetone in samples MW-X, MW-2B, and MW-8B are less than the RL and were qualified non-detect (flagged U) at the RL.</p>
Surrogate spikes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Surrogate spikes were within control limits.
Matrix spikes/matrix spike duplicates (MS/MSD)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MS/MSDs were not analyzed with these samples.
Laboratory control samples/Laboratory control sample duplicates (LCS/LCSD)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>LCS 3368129: The LCS recoveries for 4-methyl-2-pentanone (MIBK), cis-1,3-dichloropropene, and styrene were above the laboratory acceptance limit. The associated sample results are non-detect and were not qualified.</p> <p>LCS 3368721: The LCS recoveries for 4-methyl-2-pentanone (MIBK), bromodichloromethane, cis-1,3-dichloropropene, dibromomethane, and styrene were above the laboratory acceptance limit. The associated sample results are non-detect and were not qualified.</p> <p>LCS 3369451: The LCS recovery for chloroethane was above the laboratory acceptance limit. The associated sample result is non-detect and was not qualified.</p>

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Other (Field Duplicates)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>MW-10B/MW-X: The relative percent differences for all analytes were within the acceptance limit.</p> <p>MW-13/MW-Y: The relative percent differences for all analytes were within the acceptance limit.</p>
Summary				
Data are usable as qualified based on the findings for this validation effort.				