2020 Annual
Groundwater Monitoring Report

Former Dowell Schlumberger Facility
Artesia, New Mexico
507 East Richey Avenue
Artesia, Eddy County, New Mexico

April 2021

Prepared for:

Schlumberger and DOW

Prepared by:

ch2m

Dawn Greening
Remediation Manager

Schlumberger Technology Corporation
121 Industrial Blvd
Sugar Land, TX 77478
Tel: (318) 393-6480

April 1, 2021

Mr. Bradford Billings
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Former Dowell Schlumberger Facility, 507 East Richey Avenue, Artesia, Eddy County, New Mexico. 2020 Annual Groundwater Monitoring Report

Dear Mr. Billings,

Please find the 2020 Annual Groundwater Monitoring Report for the Former Dowell Schlumberger Facility in Artesia, New Mexico, incident number NAUTOFSC00114.

As discussed in the report text, we are requesting approval to install two new monitoring wells on the offsite property, based on the downgradient investigation results. In addition, we are requesting approval to change the sampling frequency from semiannual to annual for a subset of monitoring wells. With your approval, the sampling frequency changes will be implemented during the April 2021 monitoring event.

The report has been split into two submittals to meet size criteria of the New Mexico Oil Conservation Division's document submittal website. The first submittal includes the document text, tables, and figures. The second submittal includes the report appendixes.

Should you have any questions regarding the submittal or requests described above and in the report text contact me at (318) 393-6480. I can also be reached by e-mail at DGreening@slb.com. I look forward to our continued work with you.

Sincerely,

Dawn Greening
Remediation Manager

Enclosures

c: Jim Strunk/The Dow Chemical Company
Monica Schneider/CH2M HILL Engineers, Inc.
Dave Urann/CH2M HILL Engineers, Inc.
Kathi Ried/CH2M HILL Engineers, Inc.
Aleeca Forsberg/CH2M HILL Engineers, Inc.

2020 Annual Groundwater Monitoring Report Former Dowell Schlumberger Facility Artesia, New Mexico

507 East Richey Avenue
Artesia, Eddy County, New Mexico

Prepared for

Schlumberger Technology Corporation and
The Dow Chemical Company

April 2021

CH2M HILL Engineers, Inc.

Contents

Acronyms and Abbreviations ..... **vii**

1 Introduction **1-1**
1.1 Modifications to Sitewide Activities 1-1

2 Site Background **2-1**
2.1 Site Description and History 2-1
2.2 Geology and Hydrogeology 2-2

3 2020 Site Activities **3-1**
3.1 Groundwater Monitoring Activities 3-1
3.1.1 Semiannual Groundwater Monitoring 3-1
3.1.2 ISCO Phase II Performance Monitoring 3-1
3.2 Groundwater Extraction and Treatment Operations 3-1
3.2.1 GAC Performance Monitoring 3-2
3.2.2 System Flow Rates 3-2
3.2.3 System Inspections and Maintenance 3-2
3.2.4 Extraction Well Rehabilitation 3-2
3.3 Delineation of the Downgradient Plume 3-2
3.3.1 Well Installation Permits 3-3
3.3.2 Utility Clearances 3-3
3.3.3 Drilling and Soil Logging 3-3
3.3.4 Groundwater Sampling 3-3
3.3.5 Borehole Abandonment 3-4
3.4 Waste Management 3-4

4 Results and Discussion **4-1**
4.1 Groundwater Elevation and Gradient 4-1
4.2 Groundwater Analytical Results 4-1
4.2.1 ISCO Phase II Performance Monitoring Results 4-1
4.2.2 Semiannual Groundwater Monitoring Results 4-2
4.3 Groundwater Treatment System Sampling Results 4-2
4.4 Downgradient Delineation Results 4-3

5 Summary and Recommendations **5-1**
5.1 Summary 5-1
5.2 Recommendations 5-1
5.2.1 Performance Monitoring at the MW-12 ISCO Injection Area 5-1
5.2.2 Semiannual Groundwater Monitoring 5-1
5.2.3 Monitoring Well Installation in Downgradient Plume 5-1
5.2.4 Operations and Maintenance of the Groundwater Extraction and Treatment System 5-2

6 References **6-1**

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

Appendixes

A NMOCD Correspondence
B Performance Monitoring Data Sheets
C NMOSE Well Installation and Plugging and Abandonment Permits
D Soil Boring Logs
E Laboratory Analytical Reports and Data Validation Checklists

Tables

3-1 Groundwater Gauging and Sampling Summary
4-1 Groundwater Elevation Data—2020
4-2 Summary of Groundwater Monitoring Analytical Results—2020
4-3 Groundwater Extraction and Treatment System Performance Monitoring Analytical Results—2020
4-4 Summary of Downgradient Delineation Analytical Results—2020
5-1 Summary of Analytical Data for Monitoring Wells Proposed for Annual Groundwater Monitoring

Figures

1-1 Site Location Map
1-2 Site Plan
4-1 Potentiometric Surface Map—April 2020
4-2 Potentiometric Surface Map—October 2020
4-3 Concentration Map for 1,1-DCE—2020
4-4 Concentration Map for PCE—2020
4-5 Concentration Map for 1,1-DCA—2020
4-6 Proposed Downgradient Well Installation Locations

Released to Imaging: 6/9/2021 9:44:58 AM

Acronyms and Abbreviations

bgs	below ground surface
CH2M	CH2M HILL Engineers, Inc.
COC	chemical of concern
CVOC	chlorinated volatile organic compound
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
Dowell	a defunct joint venture between Schlumberger Technology Corporation and The Dow Chemical Company
DPT	direct-push technology
EW	extraction well
GAC	granular activated carbon
gpm	gallon(s) per minute
ISCO	in situ chemical oxidation
mg/L	milligram(s) per liter
MW	monitoring well
$NaMnO_4$	sodium permanganate
NMOCD	New Mexico Oil Conservation Division
NMOSE	New Mexico Office of the State Engineer
NMWQCC	New Mexico Water Quality Control Commission
PCE	tetrachloroethene
SB	soil boring
site	Former Dowell Schlumberger Facility, Artesia, New Mexico
STC	Schlumberger Technology Corporation
SVE	soil vapor extraction
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound

Released to Imaging: 6/9/2021 9:44:58 AM

SECTION 1

Introduction

CH2M HILL Engineers, Inc. (CH2M) completed the annual groundwater monitoring, downgradient delineation investigation, and ongoing remediation activities at the Former Dowell Schlumberger Facility (site) located at 507 East Richey Avenue, Artesia, Eddy County, New Mexico. Dowell Schlumberger Incorporated (Dowell) is a defunct joint venture between Schlumberger Technology Corporation (STC) and The Dow Chemical Company. The site was regulated by the New Mexico Oil Conservation Division (NMOCD) under Discharge Permit GW-114 until August 2019 when the Stage I and Stage II Abatement Plans (CH2M 2017a) were approved by the NMOCD. Figure 1-1 shows the site location, and Figure 1-2 shows the site plan.

The objectives of the site activities, as stated in the Stage II Abatement Plan (CH2M 2017a) and the Abatement Plan addendum (CH2M 2019a), are to:

- Monitor concentrations of site contaminants of concern (COCs) in groundwater to assess the performance of implemented remedial actions.
  - Conduct semiannual groundwater monitoring to assess COC concentrations in the downgradient plume and the performance of the groundwater extraction, treatment, and reinjection system.
  - Conduct quarterly groundwater monitoring to assess COC concentrations in the in situ chemical oxidation (ISCO) injection area and to evaluate the performance of ISCO in decreasing COC concentrations.
- Delineate the extent of 1,1-dichloroethene (1,1-DCE) and tetrachloroethene (PCE) offsite.

1.1 Modifications to Sitewide Activities

Based on recommendations presented in the *2019 Annual Monitoring Report, Former Dowell Schlumberger Facility, Artesia, New Mexico* (CH2M 2020) and approved by the NMOCD in April 2020 (Bradford Billings/NMOCD 2020), samples were no longer analyzed for dissolved manganese analysis from the wells in the 2014 ISCO injection area. Sampling and analysis for dissolved manganese was discontinued because concentrations fluctuated, and there was no discernable pattern indicating detected manganese concentrations in groundwater were a result of the 2014 injections of sodium permanganate ($NaMnO_4$). Appendix A contains the NMOCD approval of the modification.

A review of historical potentiometric surface maps and COC concentrations in groundwater at MW-33 indicated the well is sidegradient to the groundwater flow path and is no longer a sentinel well. Based on this information, STC and Dow requested approval to abandon the monitoring well and obtained approval from the NMOCD in September (Appendix A). Monitoring well MW-33 is planned to be abandoned during the 2021 reporting period.

The remainder of this report documents the annual groundwater monitoring, downgradient delineation investigation, and ongoing remediation activities and sampling results, and presents recommendations for future activities.

Released to Imaging: 6/9/2021 9:44:58 AM

SECTION 2

Site Background

Section 2 provides an overview of the site background, history of operations, and geology and hydrogeology.

2.1 Site Description and History

The site was used as an oilfield services facility operated by Dowell between 1969 and 1990 and in the early 2000s. Underground storage tanks (USTs) and the acid plant have been decommissioned and removed, but the office, maintenance, and storage buildings remain at the site (Figure 1-2). Most recently, the site was used for concrete-blending activities (October 2018 through April 2020). The remaining property outside the former oilfield services facility fence line is undeveloped, other than for limited environmental-related infrastructure and an electrical transmission line owned by others.

During the early 1990s, the NMOCD assumed responsibility for regulatory oversight of the site. In 1995, a chlorinated volatile organic compound (CVOC) groundwater plume was identified near the former Wash Bay.

Key remedial responses were:

- Removal of fuel-related volatile organic compounds (VOCs) and CVOCs from site groundwater and soil surrounding the former USTs, Former Wash Bay, and Former Acid Plant (Figure 1-2) via excavation and installation and operation of soil vapor extraction (SVE) systems in the early 1990s. The SVE systems effectively removed fuel-related VOCs within the vadose zone in former USTs and the Former Wash Bay. The SVE system at the former USTs was decommissioned in the early 2000s (Western Water Consultants Inc. 2004). The former Wash Bay SVE system was decommissioned in 2014 after a soil investigation found no fuel-related VOCs or CVOC in site soils above New Mexico Environmental Department regional soil screening levels (CH2M 2014).
- Injection of zero-valent iron in the downgradient portions of the CVOC groundwater plume between 2001 and 2002, which was difficult to inject, had inconsistent distribution, and resulted in minimal CVOC concentration reduction.
- Installation and operation of a groundwater extraction and treatment system that extracts groundwater, provides treatment via granular activated carbon (GAC), and then discharges into the ground by gravity at the subsurface infiltration gallery, which is approximately 230 yards upgradient, adjacent to MW-31. The groundwater extraction and treatment system has been operational from December 2008 (Duell Environmental LLC 2009) through present and was upgraded in 2015 to add EW-03 (CH2M 2016) and in 2017 to add EW-04 (CH2M 2018) near the downgradient end of the plume (defined by MW-28, MW-29, and MW-30). System optimization was initiated in 2019 to increase extraction rates at EW-03 and EW-04 and terminate extraction from wells EW-01 and EW-02 (CH2M 2020).
- Injection of $NaMnO_4$ into eight injection wells (IJ-1 through IJ-8, Figure 1-2) 20 feet upgradient of MW-25 (CH2M 2015) to use ISCO to accelerate CVOC destruction at the site in 2014.
- Injection of sodium and potassium persulfate in 2017 (Phase I) and 2019 (Phase II) to reduce residual CVOC and petroleum hydrocarbon concentrations around the former SVE systems area, identified in 2016 (CH2M 2017b), to below their respective New Mexico Water Quality Control Commission (NMWQCC) standards. Figure 1-2 presents the 2017 Phase I injection points (IP-1 through IP-6) and the 2019 Phase II injection wells (IJ-9 through IJ-20).

Received by OCD: 4/1/2021 10:42:57 AM

On July 9, 2019, STC, CH2M, and the NMOCD met for a site status update, at which time the Stage I and Stage II Abatement Plan (CH2M 2017a) was revisited, and the current addendum was presented (as summarized in the meeting notes [CH2M 2019a]). NMOCD subsequently approved the Stage I and Stage II Abatement Plan and current addendum, and the proposed revisions to the monitoring network on August 14, 2019 (Appendix A). In accordance with Title 19, Chapter 15, Part 30, Section 10 of the New Mexico Administrative Code (2002), the abatement standards that will be continued to be used will be those presented in the Stage I and II Abatement Plan (CH2M 2017a).

2.2 Geology and Hydrogeology

Regional geology and hydrogeology are described in the Stage I Abatement Plan (CH2M 2017a). Sitewide lithology consists of fine-grained silts and lean to fat clays with intermittent stringers of caliche from 15 to 30 feet below ground surface (bgs; CH2M 2017b). Groundwater at the site is partially confined and has been observed in the caliche stringers at depths from 20 to 30 feet bgs. Static water levels range between 14 and 18 feet bgs at the site, and groundwater flow direction is generally to the north-northeast. Additional site-specific geologic data was collected during 2020 and is discussed in Section 4.4.

Released to Imaging: 6/9/2021 9:44:58 AM

SECTION 3

2020 Site Activities

The following activities occurred at the site during 2020:

- Collection of semiannual groundwater samples and depth-to-water measurements.
- Collection of quarterly performance monitoring groundwater samples in the ISCO injection area (Figure 1-2).
- Continued operations and maintenance of the groundwater extraction and treatment system, replacement of the GAC, and rehabilitation of EW-03 and EW-04.
- Delineation of the downgradient plume.

3.1 Groundwater Monitoring Activities

Semiannual groundwater samples are collected at the site in April and October. A portion of the semiannual groundwater sampling locations (MW-11, MW-12, MW-17C, MW-36, MW-37, and MW-38) also serve to monitor the ISCO performance quarterly.

3.1.1 Semiannual Groundwater Monitoring

Depth-to-water was measured at the 21 site monitoring wells in both April and October 2020 (Table 3-1). Depth-to-water was not measured at MW-33; as described in Section 1, MW-33 is planned to be abandoned as approved by NMOCD in 2021.

Groundwater samples were collected from the semiannual monitoring wells (Table 3-1) using HydraSleeves and submitted for laboratory analysis of 1,1-DCE, 1,1-dichloroethane (1,1-DCA), naphthalene, benzene, and PCE by the U.S. Environmental Protection Agency (USEPA) SW-846 Method 8260B, except MW-35. Groundwater samples from MW-35 were submitted for laboratory analysis of 1,1-DCE and PCE, the offsite COCs.

3.1.2 Phase II Performance Monitoring—ISCO Injection Area

Performance monitoring groundwater samples were collected quarterly in the ISCO injection area (Table 3-1) using low-flow methods in accordance with USEPA low-flow sampling guidance (USEPA 2002). Groundwater samples were collected from MW-11, MW-12, MW-17C, MW-36, MW-37, and MW-38 and submitted for laboratory analysis of 1,1-DCE, 1,1-DCA, naphthalene, benzene, and PCE by USEPA Method 8260B. As a condition of NMOCD Discharge Permit Amendment Approval to inject sodium persulfate and potassium persulfate at the site, groundwater samples were also collected and submitted for laboratory analysis of sulfate by USEPA Method 300.0.

Before groundwater was sampled, depth-to-water was measured and wells were purged with a peristaltic pump. Field parameters (temperature, pH, conductivity, turbidity, dissolved oxygen, and oxidation-reduction potential) were measured and recorded during purging activities. Appendix B contains performance monitoring field data sheets for the sampling events.

3.2 Groundwater Extraction and Treatment Operations

Groundwater extraction and treatment system operations included the following components:

- Collection of GAC performance monitoring samples.
- Documentation of the flow rates from the extraction wells and the combined outflow.

Received by OCD: 4/1/2021 10:42:57 AM

- Quarterly system inspections and maintenance.
- Extraction well rehabilitation.

The groundwater extraction and treatment system operated continuously in 2020, excluding downtimes due to maintenance and power outages. Daily emails were received from the onboard telemetry that reported flow rates, system pressure, total gallons through the system, and upset conditions.

The groundwater extraction and treatment system was unintentionally shut down three times during the 2020 reporting period due to power outages in the Artesia area (August and September) and a small leak/drip into the secondary containment from a GAC vessel that was not completely sealed following replacement of the GAC (October). The system was not operational for a total of approximately 60 days during the 2020 reporting period.

3.2.1 GAC Performance Monitoring

Samples were collected from the GAC inlet, mid-GAC, and GAC outlet in April and October, and submitted for laboratory analysis of 1,1-DCE, 1,1-DCA, naphthalene, benzene, and PCE by USEPA Method 8260B. The GAC vessels were drained, and the GAC was replaced in both April and October. Spent GAC was transported offsite for reactivation.

3.2.2 System Flow Rates

The system was operated to optimize groundwater extraction based on the capture-zone analysis recommendations presented in the *2019 Annual Groundwater Monitoring Report, Former Dowell Schlumberger Facility, Artesia, New Mexico* (CH2M 2020). Optimized operations include only the operation of extraction wells EW-03 and EW-04 at flow rates between 8 to 10 gallons per minute (gpm) and 13 to 15 gpm, respectively. Based on the flow totalizer, approximately 8.81 million gallons of groundwater were extracted, treated, and re-infiltrated in 2020. The average extraction rates at the extraction wells in 2020 were 7.1 gpm at EW-03 and 12.9 gpm at EW-04.

3.2.3 System Inspections and Maintenance

During the quarterly maintenance site visits in February, April, September, and October, extraction well flow rates and the combined outflow were measured, and physical inspection of the system to observe for leaks and/or upset conditions was completed. In April, cartridge filters were replaced.

3.2.4 Extraction Well Rehabilitation

EW-03 and EW-04 were rehabilitated by chemical treatment in April and October to reduce the growth of iron-reducing bacteria. Rehabilitation included brushing/swabbing the well casing and screen to physically remove the bacterial deposits, removing debris using a bailer, and placing NuWell chemical solution into the well screen. After the NuWell chemical solution was placed, the well screen and sand pack were swabbed and surged. The NuWell chemical solution was left in the well screen and sand pack overnight. The following day, the well screen and sand pack were swabbed, surged, and bailed to remove debris that had accumulated overnight. Groundwater and NuWell chemical solutions bailed from EW-03 and EW-04 were temporarily contained in 55-gallon steel drums and transferred to the groundwater extraction and treatment system for treatment and re-infiltration.

3.3 Delineation of the Downgradient Plume

Delineation of the downgradient plume from October through November included the following components:

- Submittal and approval of well installation permits

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

- Submittal and approval of a plugging and abandonment plan
- Utility clearances
- Drilling and installation of temporary sampling points by direct-push technology (DPT) drilling
- Grab groundwater sampling
- Borehole abandonment
- Waste management

3.3.1 Well Installation Permits

Although monitoring wells were not installed during delineation of the downgradient plume, well permit applications for non-consumptive use of water were submitted to the New Mexico Office of the State Engineer (NMOSE) because the soil borings were advanced below the water table. On November 4, 2020, NMOSE granted well permits (Appendix C).

3.3.2 Utility Clearances

Before drilling activities began, soil boring locations were staked, a New Mexico OneCall ticket was initiated, and a third-party utility-locating service used ground penetrating radar to identify utilities within a 20-foot diameter around each boring location.

3.3.3 Drilling and Soil Logging

Soil borings (SB)-38 through SB-40 were first attempted by EarthWorx Environmental Services on October 7, 2020. However, the DPT rig could not be advanced to depths to encounter groundwater due to dense fine-grained deposits, and the soil borings were abandoned without collecting groundwater grab samples. Talon/LPE mobilized to the site on November 18, 2020, to advance the soil borings. The second DPT drilling attempt was successful because the driller completed shorter drilling runs of 1 to 2 feet to push through the dense, fine-grained materials.

SB-38, SB-39, SB-40, SB-41, SB-42, SB-45, SB-46, and SB-47 (Figure 1-2) were advanced into groundwater at depths ranging from 27.5 to 34.5 feet bgs using DPT drilling techniques. Two planned soil borings (SB-43 and SB-44) were not advanced because of the extra time required to penetrate the dense, fine-grained materials. These boring locations were planned between SB-40 and SB-46/SB-47 (Figure 1-2) and were not needed to delineate the extent of 1,1-DCE and PCE offsite based on the results at SB-46 and SB-47 (see Section 4.4).

The soil borings were drilled using a 2-inch-inside-diameter DPT drilling rod with Macrocore coring methods, and soil was described and lithologically logged in accordance with the Unified Soil Classification System. Appendix D contains soil boring logs.

3.3.4 Groundwater Sampling

The soil borings were advanced to approximately 3 feet below the top of water, as determined by the depth of observed water in the soil core, DPT drilling rods were removed, and grab groundwater sampling was conducted. Grab groundwater sampling was initially attempted using disposable tubing and a peristaltic pump in the open borehole. However, the groundwater was too deep for the peristaltic pump to convey the water to the surface. Instead, grab groundwater samples were collected from open boreholes with HydraSleeves using a new tether for each soil boring (SB-39, SB-40, SB-42, and SB-47). Where there was not enough groundwater in the borehole for HydraSleeve sampling, a disposable bailer was used to collect samples (SB-38, SB-41, and SB-46).

Groundwater samples were placed immediately in a cooler on ice and were shipped to Eurofins TestAmerica in Houston, Texas, for analysis of 1,1-DCE and PCE using USEPA Method SW846-8260.

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

3.3.5 Borehole Abandonment

As required by the NMOSE-approved well installation permit, a plugging and abandonment plan was submitted to the NMOSE for approval. Approval to plug the soil borings was granted on November 12, 2020, and is included in Appendix C. Per NMOSE requirements, the soil borings were abandoned from the bottom up to the ground surface using a cement-bentonite slurry and tremie pipe on November 20, 2020.

3.4 Waste Management

Waste generated from DPT activities, including soil cuttings and consumable materials (disposable bailers, acetate sleeves, and used personal protective equipment), was containerized in 55-gallon steel drums temporarily stored within the delineation area. At the completion of DPT activities, waste drums were moved inside the fenced groundwater extraction and treatment facility for storage. A waste characterization sample was collected, characterization results indicated the waste was non-hazardous, and a waste profile was generated. Soil will be disposed of in 2021.

Groundwater and decontamination water generated during sampling and delineation activities was containerized in 5-gallon buckets and transferred to the groundwater extraction and treatment system for treatment and re-infiltration.

Released to Imaging: 6/9/2021 9:44:58 AM

SECTION 4

Results and Discussion

This section includes a review of the depth-to-water measurements, quarterly and semiannual groundwater sampling data, groundwater treatment system sampling results, and the downgradient delineation findings.

4.1 Groundwater Elevation and Gradient

Figures 4-1 and 4-2 show the April and October 2020 potentiometric maps. Table 4-1 presents 2020 groundwater elevation data.

During April, an area of localized groundwater mounding was observed at MW-31, which is near the gravity infiltration trench. Groundwater flow direction is to the north-northeast toward the extraction and treatment system.

The groundwater surface observed for the October sampling event was inconsistent with that observed in April and with historical observations. As described in Section 3.2, the groundwater extraction and treatment system shut down in October, prior to groundwater sampling activities, due to an assumed power outage. The system was returned to power approximately 2 hours prior to the collection of groundwater elevation data. However, the groundwater elevations in the monitoring wells along the northern boundary of the site (MW-28, MW-29, and MW-35) continued to indicate the groundwater flow direction in the downgradient area of the plume is to the north-northeast toward the extraction and treatment system. As presented in Table 4-1, there is a trend of decreasing groundwater elevations at monitoring wells located in the southwest portion of the site.

The overall groundwater gradient was 0.0077 feet per foot for the April event, with the overall direction of groundwater flow to the north-northeast. The overall groundwater gradient was 0.0052 feet per foot for the October event, with the overall direction of groundwater flow to the northeast in the downgradient portion of the plume and to the east in the ISCO injection area. The 2021 groundwater elevation data will be used to assess whether this recent groundwater flow pattern continues.

4.2 Groundwater Monitoring Analytical Results

Table 4-2 summarizes the groundwater monitoring analytical results for 2020. Appendix E contains the 2020 laboratory analytical reports and data validation checklists. In addition to the semiannual data from April and October, Table 4-3 and Appendix E also include the results from the January and July performance monitoring sampling at monitoring wells in the ISCO injection area. Appendix B includes the field parameter measurements for monitoring wells (MW-11, MW-12, MW-17C, MW-36, MW-37, and MW-38) purged using low-flow methods in the ISCO injection area.

Table 4-2 shows the groundwater analytical results compared to the NMWQCC standards, as defined in the approved Abatement Plan (CH2M 2017a). Figures 4-3, 4-4, and 4-5 present concentrations in groundwater for 1,1-DCE, PCE, and 1,1-DCA, respectively. The extent of the exceedance of the NMWQCC standard is shown as an isopleth line on each figure, where applicable.

4.2.1 Phase II Performance Monitoring Results—ISCO Injection Area

As described in the *2019 Annual Monitoring Report* (CH2M 2020), the purpose of the Phase II ISCO application, completed in September 2019, was to reduce CVOCs to concentrations less than the NMWQCC standard in the area monitored by monitoring wells MW-11, MW-12, MW-17C, MW-36, MW-37, and MW-38. Post-injection groundwater samples were collected quarterly, approximately

Received by OCD: 4/1/2021 10:42:57 AM

4 (January), 7 (April), 10 (July), and 13 months (October) after the Phase II ISCO injections. The Phase II injections were completed about 2 years after Phase I. As of the October 2020 groundwater sampling event, 1,1-DCA is the only COC with concentrations that exceeded its NMWQCC standard. The results are summarized below for constituents where at least one analytical sample result exceeded the NMWQCC standard during any 2020 monitoring event:

- As summarized in Table 4-2, benzene concentrations exceeded its NMWQCC standard at MW-36 and MW-37 during the July 2020 sampling event and concentrations decreased to less than its NMWQCC standard in October (0.00934 J milligrams per liter [mg/L] and 0.00205 mg/L, respectively). Benzene concentrations at MW-11, MW-12, MW-17C, and MW-38 were less than its NMWQCC standard throughout 2020.
- As summarized in Table 4-2 and shown in Figure 4-3, 1,1-DCE concentrations exceeded its NMWQCC standard at MW-37 and MW-38 in at least one 2020 sampling event, though concentrations decreased below its NMWQCC standard in October. 1,1-DCE concentrations remained below its NMWQCC standard at MW-11, MW-12, MW-17C, and MW-36 throughout 2020.
- As summarized in Table 4-2 and shown in Figure 4-4, 1,1-DCA concentrations exceeded its NMWQCC standard at four of six performance monitoring wells in 2020. While 1,1-DCA concentrations at MW-36 and MW-38 decreased from January to October, they remained relatively stable at MW-12 and MW-37.
- Sulfate concentrations exceeded its NMWQCC standard at MW-11, MW-12, MW-17C, MW-36, MW-37, and MW-38 in 2020. Sulfate concentrations, which naturally exceed the NMWQCC standard with an average baseline concentration of 2,302 mg/L (CH2M 2018), have fluctuated since the pilot-scale (Phase I) ISCO application due to the slow release of persulfate from the potassium persulfate. The average sulfate concentration during 2020 was 2,415 mg/L.

4.2.2 Semiannual Groundwater Monitoring Results—Downgradient Area

Semiannual groundwater monitoring in the downgradient area consists of monitoring wells MW-25, MW-28, MW-29, MW-30, MW-31, MW-32, MW-34, and MW-35 (Table 3-1).

As summarized in Table 4-2 and shown in Figure 4-5, 1,1-DCE concentrations exceeded its NMWQCC standard of 0.005 mg/L at the downgradient of the plume at MW-28, MW-29, and MW-35 during the April and October sampling events. Although 1,1-DCE concentrations at MW-28, MW-29, and MW-35 generally remained stable in 2020, concentrations have decreased since the installation of EW-04 in 2017 (CH2M 2018, 2019b, 2020).

PCE, 1,1-DCA, benzene, and naphthalene were not detected at concentrations greater than the NMWQCC standards in 2020 in the downgradient plume area.

4.3 Groundwater Treatment System Sampling Results

Table 4-3 shows the groundwater extraction and treatment system performance monitoring analytical results. 1,1-DCE concentrations exceeded its NMWQCC standard of 0.005 mg/L at the inlet in April and October and at the middle GAC sampling location in April. Though it was detected in October, the 1,1-DCE concentration at the outlet did not exceed its NMWQCC standard. Benzene, 1,1-DCA, naphthalene, and PCE were not detected or concentrations were below their respective NMWQCC standards in the inlet, middle, and outlet GAC system location samples in April and October.

Because of the 1,1-DCE NMWQCC standard exceedance at the middle GAC sampling location and its detection at the outlet sampling location in October, the lead GAC was changed out during the both April and October 2020 sampling events, respectively.

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

4.4 Downgradient Delineation Results

Site lithology in the downgradient plume area is composed of mainly fine-grained deposits of silts and lean to fat clays with caliche from 16 to 25 feet bgs (Appendix D). This lithology is similar to what has been observed during previous investigations (CH2M 2017a and 2017b).

Groundwater in soil cores was generally observed in a wet silt unit located below a clay unit between 24 and 28 feet bgs. Water levels measured in boreholes ranged from 19.01 feet bgs at SB-42 to 26.25 feet bgs at SB-46.

Grab groundwater sample results from the downgradient delineation are summarized as follows:

- 1,1-DCE concentrations exceeded its NMWQCC standard of 0.005 mg/L at SB-40 (0.0138 mg/L) (Table 4-4, Figure 4-3).
- PCE concentrations were below its NMWQCC standard of 0.02 mg/L at the eight grab groundwater sampling locations (Table 4-4, Figure 4-4).

Released to Imaging: 6/9/2021 9:44:58 AM

SECTION 5

Summary and Recommendations

5.1 Summary

Environmental activities have been conducted at the site since the early 1990s. The following are the key findings from the 2020 activities:

- Benzene, naphthalene, and PCE concentrations in groundwater are less than their NMWQCC standards during the last monitoring event of 2020 (October). In addition, 1,1-DCA and 1,1-DCE concentrations in groundwater are less than their NMWQCC standards, except for a few wells in the ISCO injection area and downgradient area, respectively.
- For the ISCO injection area, 1,1-DCA concentrations are greater than its NMWQCC standard and showed decreasing concentrations for MW-38 and stable or slightly increasing concentrations at MW-12, MW-36, and MW-37 in 2020. In addition, sulfate concentrations generally remain elevated, indicating that the (slow-release) potassium persulfate remains active.
- For the downgradient area, 1,1-DCE concentrations are greater than the NMWQCC standard near the property boundary (MW-28, MW-29, and MW-35) where groundwater extraction is ongoing. In 2020, the concentrations at MW-28 (near EW-03) and MW-29 (near EW-04) are decreasing, while 1,1-DCE concentrations at MW-35 are slightly increasing.
- The downgradient plume is delineated offsite, with 1,1-DCE concentrations at its NMWQCC standard (0.005 mg/L) at downgradient location SB-46 (0.0051 mg/L). PCE did not exceed its NMWQCC standard at the downgradient sampling locations.

5.2 Recommendations

5.2.1 Performance Monitoring at the ISCO Injection Area

Performance monitoring in the ISCO injection area will be performed quarterly in January, April, July, and October 2021. The January and July events will occur concurrently with the semiannual sampling events described below. Samples will be analyzed for COCs and for sulfate.

Performance monitoring data will be used to assess whether the observed COC concentration reductions are sustained, whether the sulfate concentrations return to baseline conditions, and whether contingency injections using the new injection wells are warranted to address the residual 1,1-DCA.

5.2.2 Semiannual Groundwater Monitoring

The groundwater monitoring program will continue semiannually.

Sampling at the following monitoring wells is proposed to be modified from semiannual (April and October) to annual (October): MW-22, MW-25, MW-32, and MW-34. This recommendation is based on recent and historical groundwater analytical data, which demonstrate COC concentrations have been less than applicable NMWQCC standards for at least the last eight sampling events (Table 5-1).

5.2.3 Monitoring Well Installation in Downgradient Plume

As shown in Figure 4-6, two new monitoring wells are proposed to be installed to monitor the distal end of the 1,1-DCE plume. One monitoring well is proposed approximately 25 feet from SB-40 to provide data related to the progress of the current groundwater extraction and treatment system. The second

Received by OCD: 4/1/2021 10:42:57 AM

well is proposed approximately 50 feet downgradient from SB-46 to confirm the November 2020 delineation effort and monitor the furthest extent of the plume.

The proposed monitoring wells will be installed using a hollow-stem auger drilling rig. Depth-to-water and analytical samples are recommended to be collected from the new monitoring wells as part of the semiannual monitoring events. Groundwater samples will be analyzed for 1,1-DCE and PCE, consistent with data collected at MW-35. The data will be used to evaluate whether the capture-zone analysis needs to be updated and whether the groundwater extraction and treatment system requires expansion to fully capture the extent of the downgradient plume. Findings and recommendations will be discussed in a future annual groundwater monitoring report. While STC has an existing access agreement with the offsite property owner, an amendment will be required before executing the downgradient delineation.

5.2.4 Operations and Maintenance of the Groundwater Extraction and Treatment System

Ongoing operation of the groundwater extraction and treatment system will continue in 2021. Automated daily system monitoring and notifications by email will continue, and site visits will take place to evaluate and repair upset conditions, as necessary. Quarterly site visits will continue to maintain the groundwater extraction and treatment system. During quarterly maintenance visits in April and October, water samples will be collected from the influent, between the lead and lag GAC vessels, and effluent to assess treatment system performance. These data will be used to assess when GAC replacement is needed.

Released to Imaging: 6/9/2021 9:44:58 AM

SECTION 6

References

Billings, Bradford/New Mexico Oil Conservation Division (NMOCD), Hydrologist. 2020. Email to Virgilio Cocianni/Schlumberger Technology Corporation. April 14.

CH2M HILL Engineers, Inc. (CH2M). 2014. *Site Investigation Report, Former Dowell Schlumberger Facility, Artesia, New Mexico.* March.

CH2M HILL Engineers, Inc. (CH2M). 2015. *2014 Annual Groundwater Monitoring Report, Former Dowell Schlumberger Facility, Artesia, New Mexico.* March.

CH2M HILL Engineers, Inc. (CH2M). 2016. *2015 Annual Groundwater Monitoring Report, Former Dowell Schlumberger Facility, Artesia, New Mexico.* March.

CH2M HILL Engineers, Inc. (CH2M). 2017a. *Stage I and Stage II Abatement Plan, Former Dowell Schlumberger Facility, Artesia, New Mexico.* October.

CH2M HILL Engineers, Inc. (CH2M). 2017b. *MW-12 Investigation Report, Former Dowell Schlumberger Facility, Artesia, New Mexico.* June.

CH2M HILL Engineers, Inc. (CH2M). 2018. *2017 Annual Groundwater Monitoring Report, Former Dowell Schlumberger Facility, Artesia, New Mexico.* April.

CH2M HILL Engineers, Inc. (CH2M). 2019a. Meeting Summary. *Dowell Schlumberger Artesia, New Mexico Site Status Update Meeting.* July 9.

CH2M HILL Engineers, Inc. (CH2M). 2019b. *2018 Annual Groundwater Monitoring Report, Former Dowell Schlumberger Facility, Artesia, New Mexico.* March.

CH2M HILL Engineers, Inc. (CH2M). 2020. *2019 Annual Groundwater Monitoring Report, Former Dowell Schlumberger Facility, Artesia, New Mexico.* March.

Duell Environmental, LLC. 2009. *2008 Annual Report, Schlumberger Oilfield Services, Artesia, New Mexico.* January.

Lyford, F.P. 1973. *Valley Fill in the Roswell-Artesia Area, New Mexico*. USGS Open File Report.

New Mexico Administrative Code 19.15.30.10. 2002. *Natural Resources and Wildlife, Oil and Gas, Remediation. Modification of Abatement Standards*.

U.S. Environmental Protection Agency (USEPA). 2002. *Ground-Water Sampling Guidelines for Superfund and RCRA Project Managers*. Office of Solid Waste And Emergency Response, EPA-542-S-02-001. May.

Western Water Consultants, Inc. 2004. *2003 Annual Report, Schlumberger Oilfield Services, Artesia, New Mexico.* February 11.

Tables

Table 3-1. Groundwater Gauging and Sampling Summary

2020 Annual Groundwater Monitoring Report

Former Dowell Schlumberger Facility, Artesia, New Mexico

Well ID	Groundwater Elevation Measurements	Semiannual Groundwater Sampling [a] (USEPA Method 8260)	ISCO Performance Monitoring Groundwater Sampling [b] (USEPA Method 8260s and 300.0)
MW-8	X		
MW-11	X	X	X
MW-12	X	X	X
MW-15	X		
MW-17C	X	X	X
MW-18	X		
MW-20	X		
MW-21	X		
MW-22	X	X	
MW-25	X	X	
MW-26	X		
MW-28	X	X	
MW-29	X	X	
MW-30	X	X	
MW-31	X	X	
MW-32	X	X	
MW-33 [c]	NS	NS	
MW-34	X	X	
MW-35	X	X	
MW-36	X	X	X
MW-37	X	X	X
MW-38	X	X	X

Notes:

[a] Samples for the semiannual groundwater monitoring were collected via HydraSleeves.

[b] Samples for the ISCO Performance Monitoring were collected using low flow sampling methods.

[c] Well not accessible due to access agreement.

ID = identification

ISCO = in situ chemical oxidation

MW = monitoring well

NS = not sampled

USEPA = U.S. Environmental Protection Agency

Released to Imaging: 6/9/2021 9:44:58 AM

Table 4-1. Groundwater Elevation Data - 2020
2020 Annual Groundwater Monitoring Report
Former Dowell Schlumberger Facility, Artesia, New Mexico

Well ID	Date	Total Depth (ft btoc)	Top of Casing Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
MW-8	04/27/2020	35.00	3359.53	14.72	3344.81
	10/05/2020			17.10	3342.43
MW-11	01/14/2020	30.00	3356.27	14.35	3341.92
	04/27/2020			14.51	3341.76
	07/14/2020			16.72	3339.55
	10/05/2020			18.72	3337.55
MW-12	01/14/2020	25.70	3356.61	14.40	3342.21
	04/27/2020			14.54	3342.07
	07/14/2020			16.68	3339.93
	10/05/2020			18.57	3338.04
MW-15	04/27/2020	34.00	3357.69	14.53	3343.16
	10/05/2020			18.56	3339.13
MW-17C	01/14/2020	62.44	3356.55	14.48	3342.07
	04/27/2020			14.60	3341.95
	07/14/2020			16.73	3339.82
	10/05/2020			18.62	3337.93
MW-18	04/27/2020	30.09	3356.71	14.92	3341.79
	10/05/2020			18.85	3337.86
MW-20	04/27/2020	28.00	3359.12	17.60	3341.52
	10/05/2020			18.92	3340.20
MW-21	04/27/2020	17.41	3356.89	16.60	3340.29
	10/05/2020			18.41	3338.48
MW-22	04/27/2020	15.63	3355.18	16.25	3338.93
	10/05/2020			19.50	3335.68
MW-25	04/27/2020	27.30	3355.67	18.95	3336.72
	10/05/2020			20.42	3335.25
MW-26	04/27/2020	27.35	3354.2	18.65	3335.55
	10/05/2020			18.72	3335.48
MW-28	04/27/2020	27.94	3355.93	24.35	3331.58
	10/05/2020			22.29	3333.64
MW-29	04/27/2020	20.25	3355.06	23.90	3331.16
	10/05/2020			22.15	3332.91
MW-30	04/27/2020	27.89	3354.61	20.95	3333.66
	10/05/2020			20.33	3334.28
MW-31	04/27/2020	30.89	3356.38	12.95	3343.43
	10/05/2020			19.87	3336.51
MW-32	04/27/2020	38.85	3354.54	20.09	3334.45
	10/05/2020			19.79	3334.75
MW-33	04/27/2020	35.00	3349.67	NM	NM
	10/05/2020			NM	NM
MW-34	04/27/2020	32.00	3356.28	20.35	3335.93
	10/05/2020			21.14	3335.14
MW-35	04/27/2020	28.50	3352.91	21.65	3331.26
	10/05/2020			21.75	3331.16
MW-36	01/14/2020	25.38	NS	14.55	NS
	04/27/2020			14.36	
	07/14/2020			13.62	
	10/05/2020			18.50	

Table 4-1. Groundwater Elevation Data - 2020

2020 Annual Groundwater Monitoring Report
Former Dowell Schlumberger Facility, Artesia, New Mexico

Well ID	Date	Total Depth (ft btoc)	Top of Casing Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
MW-37	01/14/2020	25.5	NS	14.25	NS
	04/27/2020			14.38	
	07/14/2020			16.47	
	10/05/2020			18.21	
MW-38	01/14/2020	25.03	NS	14.48	NS
	04/27/2020			14.48	
	07/14/2020			16.63	
	10/05/2020			18.43	

Notes:
ft amsl = feet above mean sea level
ft btoc = feet below top of casing
ID = identification
MW = monitoring well
NM = not measured
NS = not surveyed

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

Table 4-2. Summary of Groundwater Monitoring Analytical Results—2020

2020 Annual Groundwater Monitoring Report

Former Dowell Schlumberger Facility, Artesia, New Mexico

		COMPOUND	1,1-DCA	1,1-DCE	Benzene	Naphthalene	Sulfate	PCE
		UNITS	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		NMWQCC STANDARDS	0.025	0.005	0.01	0.03	600	0.02
Well Number	**Sample Date**	**Monitoring Event**						
MW-11	01/14/2020	ISCO Performance	**0.0036**	< 0.000192	< 0.000176	< 0.000527	**1630 J+**	< 0.000333
	04/28/2020	Semiannual	**0.00645**	< 0.000192	< 0.000176	< 0.000129	**7940**	< 0.000333
	07/14/2020	ISCO Performance	**0.00487**	< 0.000192	< 0.000176	< 0.000129	**1380**	**0.000391 J**
	10/06/2020	Semiannual	**0.00533 J**	**0.000223 J**	< 0.000176	**0.000641**	**573 J**	< 0.000333
MW-12	01/14/2020	ISCO Performance	**0.0517**	**0.00275**	**0.00899**	**0.0034**	**9260**	**0.000515 J**
	04/27/2020	Semiannual	**0.0319**	**0.00135**	**0.00528**	**0.00776**	**2660**	**0.000529 J**
	07/14/2020	ISCO Performance	**0.047**	**0.00164**	**0.00328**	**0.00668**	**1680**	**0.000816 J**
	10/06/2020	Semiannual	**0.0556**	**0.00324 J**	**0.00345**	**0.00382**	**887**	**0.000366 J**
MW-17C	01/14/2020	ISCO Performance	< 0.000168	**0.000277 J**	< 0.000176	< 0.000129	**2210**	< 0.000333
	04/29/2020	Semiannual	< 0.000168	< 0.000192	< 0.000176	< 0.000129	**3280 J-**	< 0.000333
	07/14/2020	ISCO Performance	< 0.000168	< 0.000192	< 0.000176	< 0.000129	**772**	< 0.000333
	10/06/2020	Semiannual	**0.000252 J**	**0.000276 J**	< 0.000176	**0.00019**	**893**	< 0.000333
MW-22	04/27/2020	Semiannual	**0.00167**	**0.000437 J**	< 0.000176	< 0.000129	--	< 0.000333
	10/05/2020	Semiannual	**0.00111 J**	**0.000239 J**	< 0.000176	< 0.000129	--	< 0.000333
MW-25	04/27/2020	Semiannual	**0.00171**	**0.00167**	< 0.000176	< 0.000129	--	**0.00119**
	10/05/2020	Semiannual	**0.00168**	**0.00194**	< 0.000176	< 0.000129	--	**0.00129**
MW-28	04/28/2020	Semiannual	**0.00438**	**0.0101**	< 0.000176	< 0.000129	--	**0.00808**
	10/05/2020	Semiannual	**0.00451**	**0.00882**	< 0.000176	< 0.000129	--	**0.00769**
MW-29	04/28/2020	Semiannual	**0.0111**	**0.0252**	< 0.000176	< 0.000129	--	**0.0205**
	10/05/2020	Semiannual	**0.0104**	**0.0184**	< 0.000176	< 0.000129	--	**0.0184**
MW-30	04/28/2020	Semiannual	**0.001**	**0.00266**	< 0.000176	< 0.000129	--	**0.0028**
	10/06/2020	Semiannual	**0.00137 J**	**0.00304 J**	< 0.000176	< 0.000129	--	**0.00325 J**
MW-31	04/28/2020	Semiannual	**0.00168**	< 0.000192	< 0.000176	< 0.000129	--	< 0.000333
	10/05/2020	Semiannual	**0.000537 J**	< 0.000192	< 0.000176	< 0.000129	--	< 0.000333
MW-32	04/27/2020	Semiannual	< 0.000168	< 0.000192	< 0.000176	< 0.000129	--	< 0.000333
	10/05/2020	Semiannual	< 0.000168	< 0.000192	< 0.000176	< 0.000129	--	< 0.000333
MW-34	04/28/2020	Semiannual	**0.0017**	**0.000914 J**	< 0.000176	**0.00109 J**	--	**0.00056 J**
	10/05/2020	Semiannual	**0.00163**	< 0.000192	< 0.000176	< 0.000129	--	**0.000446 J**

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

Table 4-2. Summary of Groundwater Monitoring Analytical Results—2020

2020 Annual Groundwater Monitoring Report

Former Dowell Schlumberger Facility, Artesia, New Mexico

		COMPOUND	1,1-DCA	1,1-DCE	Benzene	Naphthalene	Sulfate	PCE
		UNITS	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		NMWQCC STANDARDS	0.025	0.005	0.01	0.03	600	0.02
Well Number	**Sample Date**	**Monitoring Event**						
MW-35	04/28/2020	Semiannual	--	**0.0158**	--	--	--	**0.0116**
	10/05/2020	Semiannual	--	**0.0171**	--	--	--	**0.0121**
MW-36	01/14/2020	ISCO Performance	**0.0411**	**0.000457 J**	**0.0138**	**0.00696**	**2180**	**0.00733**
	04/27/2020	Semiannual	**0.0408**	< 0.000192	**0.0198**	**0.00991**	**4270**	**0.00807**
	07/14/2020	ISCO Performance	**0.0458**	< 0.000192	**0.0219**	**0.0146**	**862**	**0.00969**
	10/06/2020	Semiannual	**0.034 J**	**0.000441 J**	**0.00934 J**	**0.00503**	**849**	**0.00845 J**
MW-37	01/14/2020	ISCO Performance	**0.0477**	**0.00667**	**0.00521**	**0.0056**	**2090**	**0.00432**
	04/27/2020	Semiannual	**0.0347 J**	**0.00207 J**	**0.00258 J**	**0.0083 J**	**5960**	**0.00236**
	07/14/2020	ISCO Performance	**0.0794**	**0.00761**	**0.0296**	**0.0878**	**638**	**0.00413**
	10/06/2020	Semiannual	**0.0547 J**	**0.00446**	**0.00205**	**0.00313**	**1540**	**0.00389**
MW-38	01/14/2020	ISCO Performance	**0.131**	**0.00982**	**0.00125**	**0.0103**	**785**	**0.00748**
	04/27/2020	Semiannual	**0.12**	**0.0074**	**0.00112**	**0.0053**	**2710**	**0.00673**
	07/14/2020	ISCO Performance	**0.1**	**0.00581**	**0.000885 J**	**0.00737**	**1760**	**0.00667**
	10/06/2020	Semiannual	**0.0922**	**0.0015 J**	**0.000855**	**0.000866 J**	**1160**	**0.00442 J**

Notes:

Analytical methods used USEPA Method 8260 (VOCs) and USEPA Method 300.0 (Anions)

Detected results are shown in bold font.

Results exceeding NMWQCC Standards are shown in bold font and shaded. Results that do not exeed the NMWQCC Standard at one significant figure are not shaded.

< = chemical not detected at a concentration above the instrument detection limit

-- = sample not collected for specific analyte

1,1-DCA = 1,1-dichloroethane

1,1-DCE = 1,1-dichloroethene

ISCO = in situ chemical oxidation

J = chemical detected at concentration above instrument detection limit but below method detection limit

J- = chemical recovery was low in associated matrix spike/matrix spike duplicate, result is estimated low

J+ = chemical recovery was high in associated matrix spike/matrix spike duplicate, result is estimated high

mg/L = milligrams per liter

NMWQCC = New Mexico Water Quality Control Commission

PCE = tetrachloroethene

USEPA = U.S. Environmental Protection Agency

VOC = volatile organic compound

Page 26 of 1122

Table 4-3. Groundwater Extraction and Treatment System Performance Monitoring Analytical Results—2020

2020 Annual Groundwater Monitoring Report

Former Dowell Schlumberger Facility, Artesia, New Mexico

	COMPOUND	1,1-DCA	1,1-DCE	Benzene	Naphthalene	PCE
	UNITS	mg/L	mg/L	mg/L	mg/L	mg/L
	NMWQCC STANDARDS	0.025	0.005	0.01	0.03	0.02
SAMPLE LOCATION	**SAMPLE DATE**					
GAC INLET	04/28/2020	**0.00279**	**0.00917**	< 0.000176	< 0.000129	**0.0066**
	10/05/2020	**0.00357 J**	**0.0115 J**	< 0.000176	< 0.000129	**0.00831 J**
MID-GAC	04/28/2020	**0.00348**	**0.00865**	< 0.000176	< 0.000129	< 0.000333
	10/05/2020	**0.000526 J**	< 0.000192	< 0.000176	< 0.000129	< 0.000333
GAC OUTLET	04/28/2020	**0.00202**	< 0.000192	< 0.000176	< 0.000129	< 0.000333
	10/05/2020	**0.00326**	**0.00181**	< 0.000176	< 0.000129	< 0.000333

Notes:

Analytical methods used USEPA Method 8260 (VOCs)

Detected results are shown in bold font.

Results exceeding NMWQCC Standards are shown in bold font and shaded.

< = chemical not detected at a concentration above the instrument detection limit

1,1-DCA = 1,1-dichloroethane

1,1-DCE = 1,1-dichloroethene

GAC = granular activated carbon

J = chemical detected at concentration above instrument detection limit but below method detection limit

mg/L = milligrams per liter

NMWQCC = New Mexico Water Quality Control Commission

PCE = tetrachloroethene

USEPA = U.S. Environmental Protection Agency

VOC = volatile organic compound

Released to Imaging: 6/9/2021 9:44:58 AM

Table 4-4. Summary of Downgradient Delineation Groundwater Analytical Results—2020

2020 Annual Groundwater Monitoring Report

Former Dowell Schlumberger Facility, Artesia, New Mexico

	COMPOUND	1,1-DCE	PCE
	UNITS	mg/L	mg/L
	NMWQCC STANDARDS	0.005	0.02
SOIL BORING LOCATION	**SAMPLE DATE**		
SB-38	11/20/2020	**0.00251**	**0.00134**
SB-39	11/19/2020	**0.00276**	**0.00233**
SB-40	11/18/2020	**0.0138**	**0.00676**
SB-41	11/19/2020	**0.00182**	**0.00154**
SB-42	11/19/2020	**0.00304**	**0.00249**
SB-46	11/20/2020	**0.0051**	**0.00455**
SB-47	11/20/2020	**0.00131**	**0.000676 J**

Notes:

Analytical methods used USEPA Method 8260 (VOCs)

Detected results are shown in bold font.

Results exceeding NMWQCC Standards are shown in bold font and shaded. Results that do not exceed the NMQCC Standard at one significant figure are not shaded.

1,1-DCE = 1,1-dichloroethene

J = chemical detected at concentration above instrument detection limit but below method detection limit

mg/L = milligrams per liter

NMWQCC = New Mexico Water Quality Control Commission

PCE = tetrachloroethene

USEPA = U.S. Environmental Protection Agency

VOCs = volatile organic compounds

Table 5-1. Summary of Analytical Data for Monitoring Wells Proposed for Annual Groundwater Monitoring

2020 Annual Groundwater Monitoring Report

Former Dowell Schlumberger Facility, Artesia, New Mexico

	COMPOUND	1,1-DCE	1,1-DCA	Benzene	Naphthalene	PCE
	UNITS	mg/L	mg/L	mg/L	mg/L	mg/L
	NMWQCC STANDARDS	0.025	0.005	0.01	0.03	0.02
WELL NUMBER	SAMPLE DATE					
MW-22	04/04/2017	**0.000302 J**	**0.000856 J**	< 0.000176	< 0.000129	**0.00102**
	10/02/2017	**0.000527 J**	**0.000687 J**	< 0.000176	< 0.000129	**0.000944 J**
	04/24/2018	< 0.000168	< 0.000192	< 0.000176	< 0.000129	**0.000389 J**
	10/23/2018	< 0.000168	< 0.000192	< 0.000176	< 0.000129	< 0.000333
	04/23/2019	**0.000546 J**	< 0.000192	< 0.000176	< 0.000129	< 0.000333
	10/29/2019	**0.000832 J**	< 0.000192	< 0.000176	< 0.000129	< 0.000333
	04/27/2020	**0.00167**	**0.000437 J**	< 0.000176	< 0.000129	< 0.000333
	10/05/2020	**0.00111 J**	**0.000239 J**	< 0.000176	< 0.000129	< 0.000333
MW-25	04/04/2017	**0.00091 J**	**0.00369**	< 0.000176	< 0.000129	**0.00322**
	10/02/2017	**0.00117**	**0.00311**	< 0.000176	< 0.000129	**0.00337**
	04/24/2018	**0.000574 J**	**0.00176**	< 0.000176	< 0.000129	**0.00183**
	10/23/2018	< 0.000168	**0.00144**	< 0.000176	< 0.000129	**0.00196**
	04/23/2019	**0.000701 J**	**0.000777 J**	< 0.000176	< 0.000129	**0.00118**
	10/29/2019	**0.000989 J**	**0.000473 J**	< 0.000176	< 0.000129	**0.000895 J**
	04/27/2020	**0.00171**	**0.00167**	< 0.000176	< 0.000129	**0.00119**
	10/05/2020	**0.00168**	**0.00194**	< 0.000176	< 0.000129	**0.00129**
MW-32	04/05/2017	**0.000208 J**	**0.000409 J**	< 0.000176	< 0.000129	**0.000707 J**
	10/02/2017	**0.000784 J**	**0.00042 J**	< 0.000176	< 0.000129	**0.00172**
	04/24/2018	**0.000458 J**	< 0.000192	< 0.000176	< 0.000129	**0.00126**
	10/23/2018	**0.000256 J**	< 0.000192	< 0.000176	< 0.000129	**0.000811 J**
	04/22/2019	< 0.000168	< 0.000192	< 0.000176	< 0.000129	**0.000639 J**
	10/29/2019	**0.000171 J**	< 0.000192	< 0.000176	< 0.000129	**0.000921 J**
	04/27/2020	< 0.000168	< 0.000192	< 0.000176	< 0.000129	< 0.000333
	10/05/2020	< 0.000168	< 0.000192	< 0.000176	< 0.000129	< 0.000333
MW-34	04/05/2017	**0.00145**	**0.00484**	< 0.000176	< 0.000129	**0.00482**
	10/02/2017	**0.00131**	**0.00267**	< 0.000176	< 0.000129	**0.00316**
	04/23/2018	**0.000709 J**	**0.00188**	< 0.000176	< 0.000129	**0.00221**
	10/23/2018	**0.000371 J**	**0.000679 J**	< 0.000176	< 0.000129	**0.000966 J**
	04/22/2019	**0.00068 J**	**0.000507 J**	< 0.000176	< 0.000129	**0.000858 J**
	10/29/2019	**0.00104**	**0.000784 J-**	< 0.000176	**0.000174 J**	**0.00126**
	04/28/2020	**0.0017**	**0.000914 J**	< 0.000176	**0.00109 J**	**0.00056 J**
	10/05/2020	**0.00163**	< 0.000192	< 0.000176	< 0.000129	**0.000446 J**

Notes:

Analytical methods used USEPA Method 8260 (VOCs)

Detected results are shown in bold font.

< = chemical not detected at a concentration above the instrument detection limit

1,1-DCA = 1,1-dichloroethane

1,1-DCE = 1,1-dichloroethene

J = chemical detected at concentration above instrument detection limit but below method detection limit

J- = chemical recovery was low in associated matrix spike/matrix spike duplicate, result is estimated low

mg/L = milligrams per liter

NMWQCC = New Mexico Water Quality Control Commission

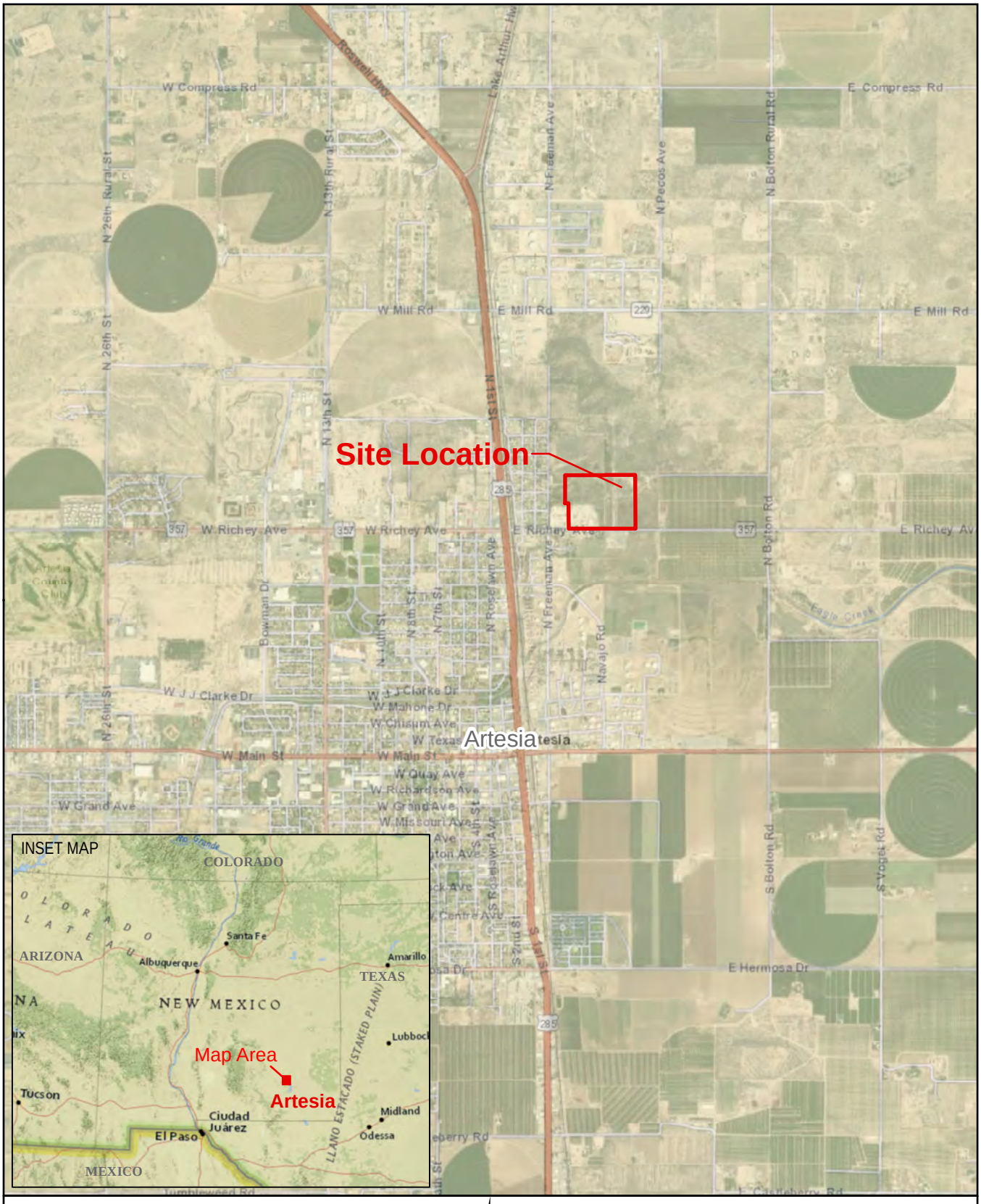
PCE = tetrachloroethene

USEPA = U.S. Environmental Protection Agency

VOCs = volatile organic compounds

Released to Imaging: 6/9/2021 9:44:58 AM

Figures



N

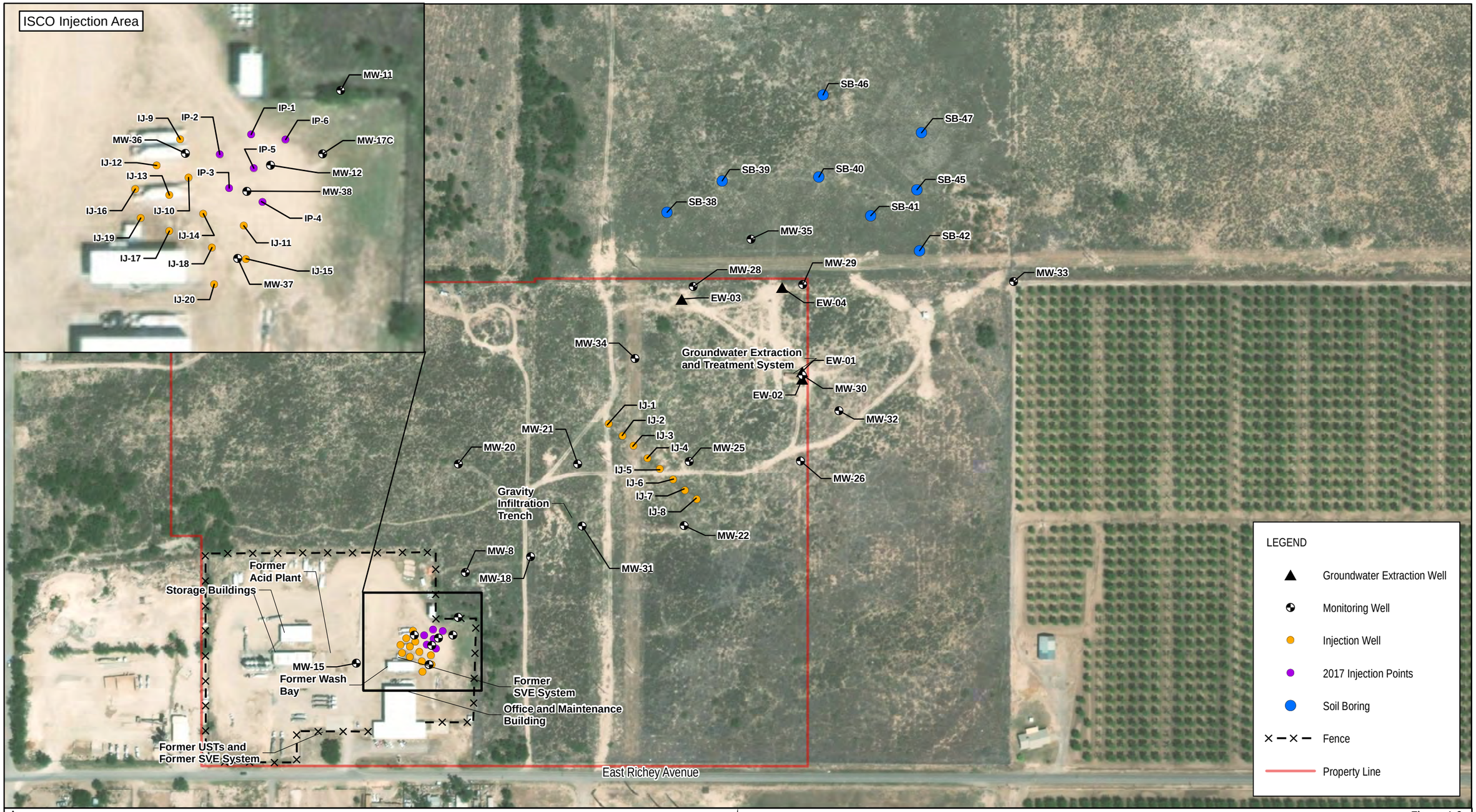
0 0.25 0.5

Approximate scale in miles

Figure 1-1.
Site Location Map
2020 Annual Groundwater Monitoring Report
Former Dowell Schlumberger Facility
Artesia, New Mexico

Source:
Esri, DigitalGlobe, GeoEye, USGS, Intermap, National Geographic, DeLorme, HERE, NOAA

EN02231611111MKE N:\DOWELL_SCHLUMBERGER\ARTESIA_469935\MAPFILES\ANN_GW_MON_2021\FIG1-1_LOC_MAP_AGWM.MXD TA 1/21/2021



Acronyms:
ISCO = in situ chemical oxidation
SVE = soil vapor extraction
UST = underground storage tank

Source:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS. USGS,AeroGRID, IGN,and the GIS User Community

N

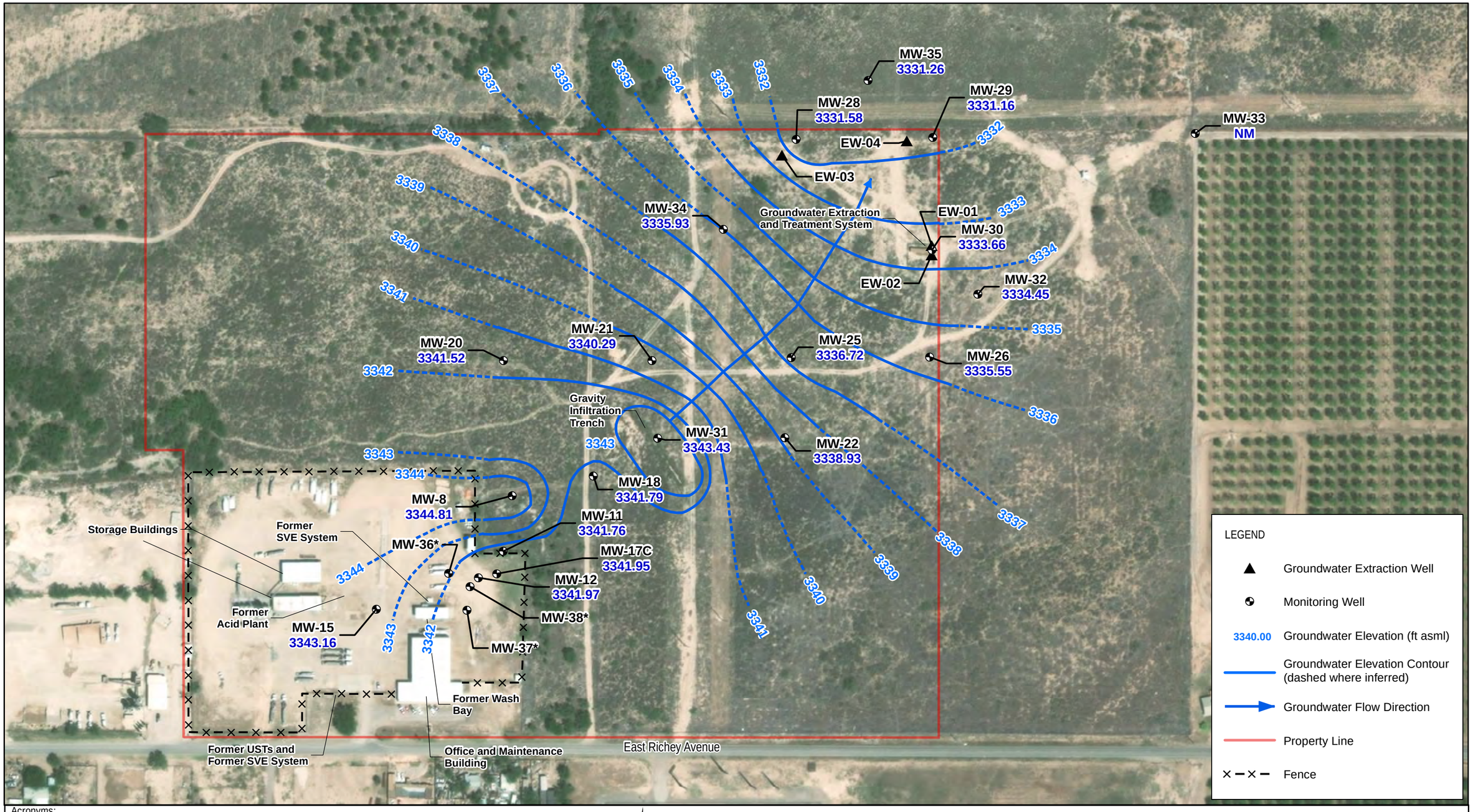
0 150 300

Approximate scale in feet

Figure 1-2.
Site Plan
2020 Annual Groundwater Monitoring Report
Former Dowell Schlumberger Facility
Artesia, New Mexico

ch2m.

EN0223161111MKE N:\DOWELL_SCHLUMBERGER\ARTESIA_469935\MAPFILES\ANN_GW_MON_2021\FIG1-2_SITE_PLAN.MXD TA 2/15/2021



Acronyms:
* = Top of casing elevation not surveyed
ft amsl = feet above mean sea level
NM = not measured
SVE = soil vapor extration
UST = underground storage tank

Source:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Aorbis DS. USGS,AeroGRID, IGN,and the GIS User Community

N

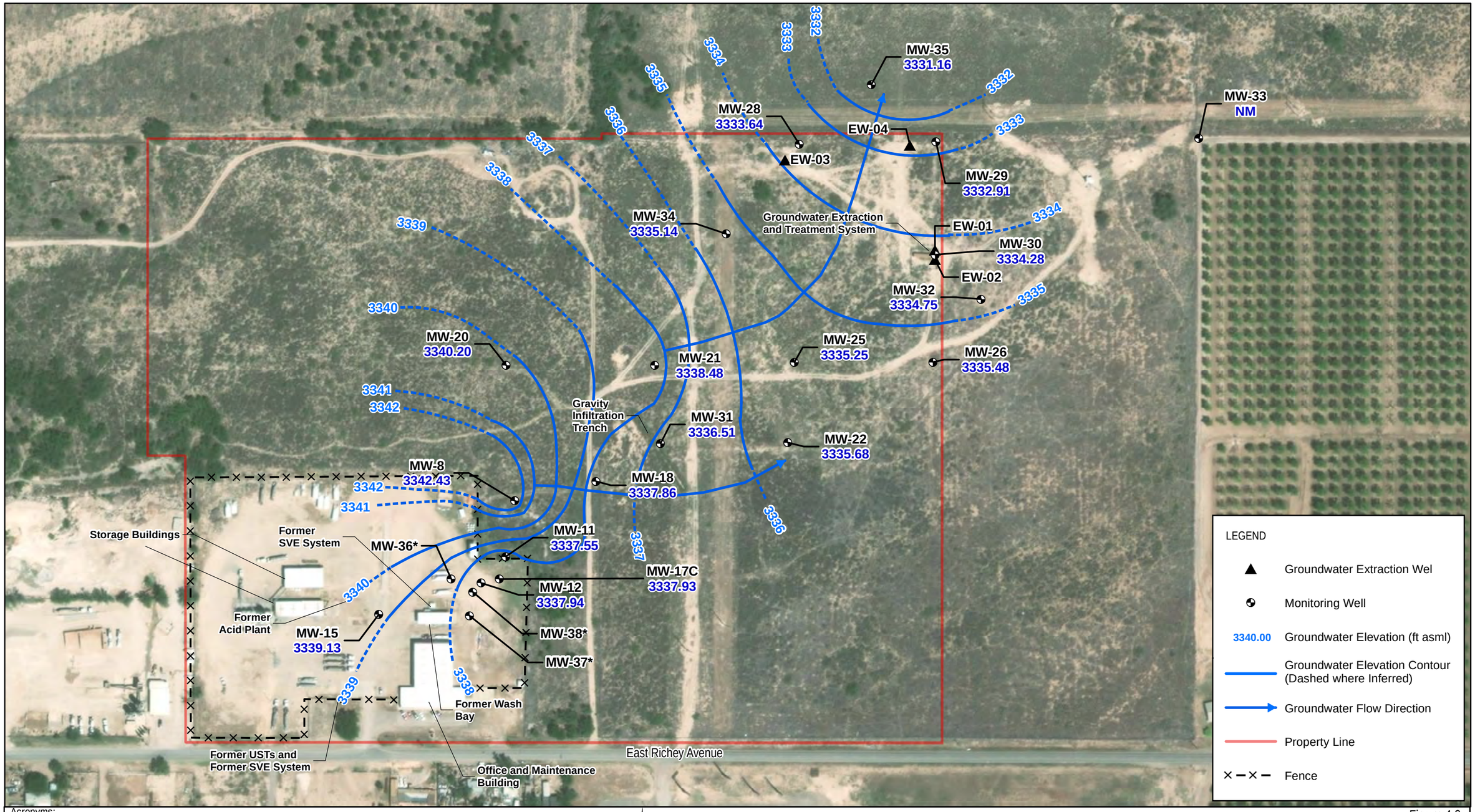
0 100 200

Approximate scale in feet

Figure 4-1.
Potentiometric Surface Map - April 2020
2020 Annual Groundwater Monitoring Report
Former Dowell Schlumberger Facility
Artesia, New Mexico

ch2m

EN0223161111MKE N:\DOWELL_SCHLUMBERGER\ARTESIA_469935\MAPFILES\ANN_GW_MON_2021\FIG4-1_POTSURF_APRIL2020_AGWM.MXD TA 2/11/2021



Acronyms:
* = Top of casing elevation not surveyed
ft amsl = feet above mean sea level
NM = not measured
SVE = soil vapor extration
UST = underground storage tank

Source:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbis DS. USGS,AeroGRID, IGN,and the GIS User Community

N

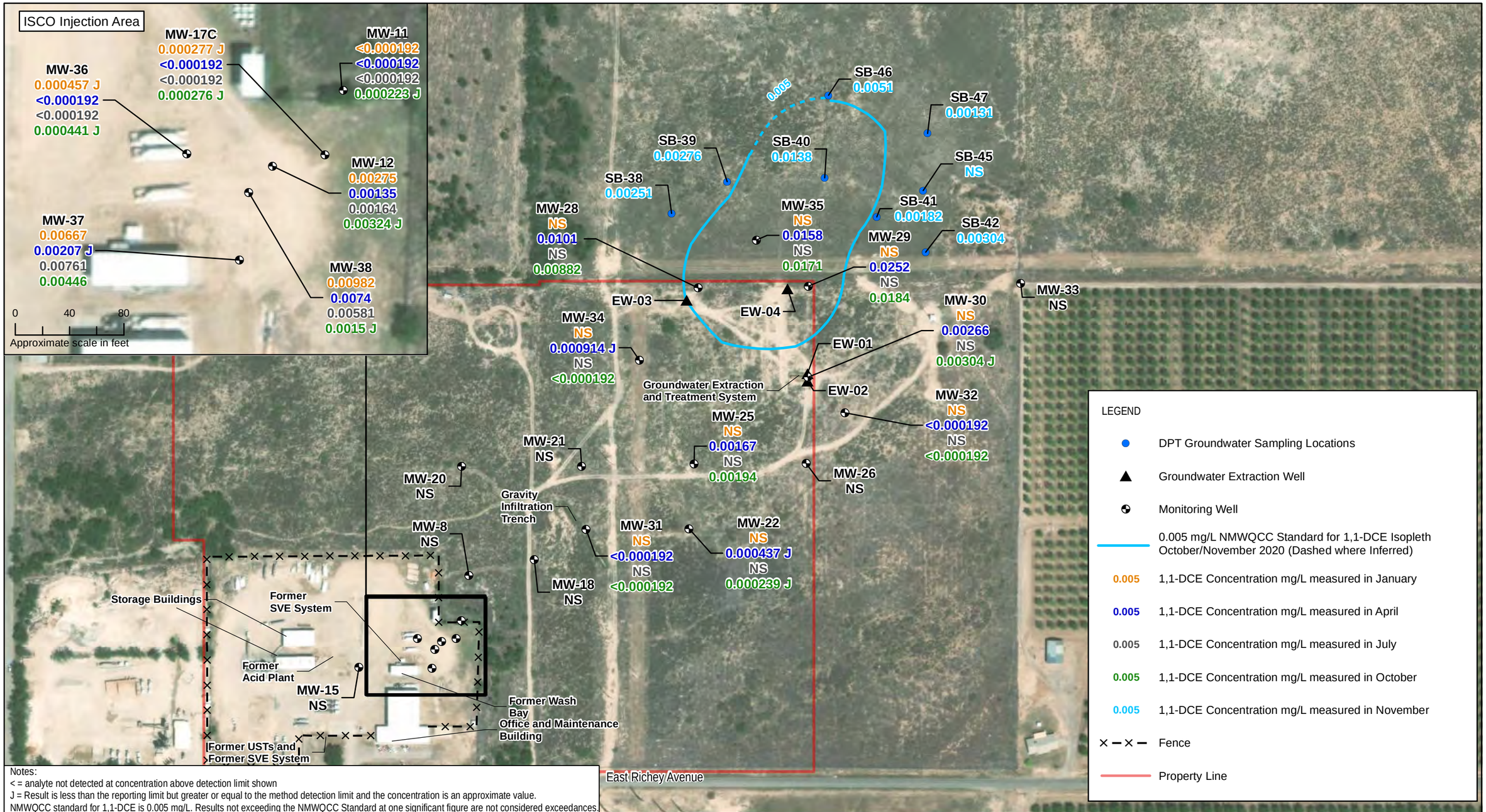
0 100 200

Approximate scale in feet

Figure 4-2.
Potentiometric Surface Map - October 2020
2020 Annual Groundwater Monitoring Report
Former Dowell Schlumberger Facility
Artesia, New Mexico

ch2m

EN0223161111MKE N:\DOWELL_SCHLUMBERGER\ARTESIA_469935\MAPFILES\ANN_GW_MON_2021\FIG4-2_POTSURF_OCT2020_AGWM.MXD TA 2/25/2021



Notes:
< = analyte not detected at concentration above detection limit shown
J = Result is less than the reporting limit but greater or equal to the method detection limit and the concentration is an approximate value.
NMWQCC standard for 1,1-DCE is 0.005 mg/L. Results not exceeding the NMWQCC Standard at one significant figure are not considered exceedances.

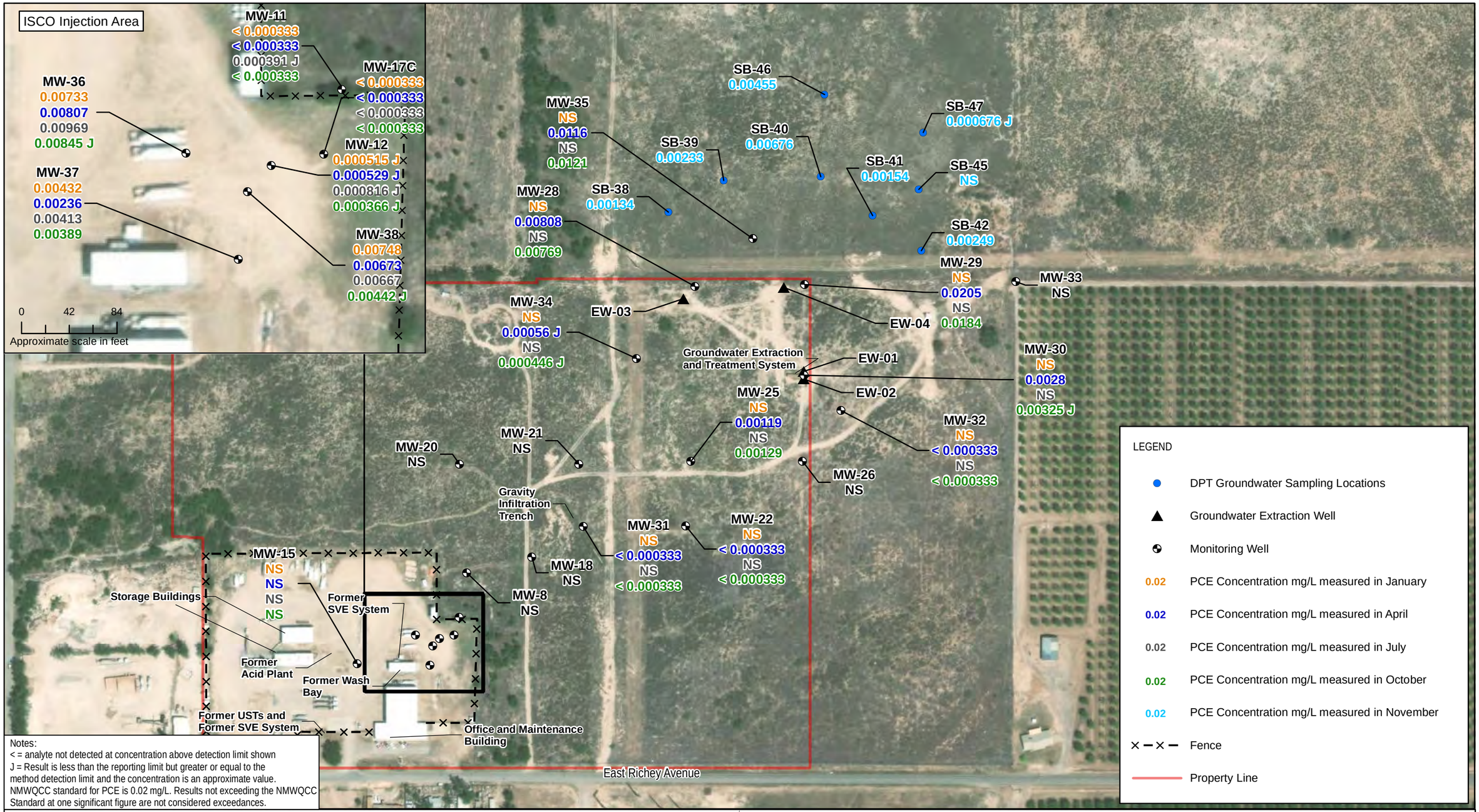
Acronyms:
1,1-DCE = 1,1-dichloroethene
DPT = direct push technology
ISCO = in situ chemical oxidation
mg/L= milligrams per liter
NMWQCC = New Mexico Water Quality Control Commission
NS = not sampled
SVE = soil vapor extraction
UST = Underground storage tank

Source:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS. USGS,AeroGRID, IGN,and the GIS User Community

Figure 4-3.
Concentration Map for 1,1-DCE - 2020
2020 Annual Groundwater Monitoring Report
Former Dowell Schlumberger Facility
Artesia, New Mexico

ch2m

EN0223161111MKE \\ABQFPP01\ARCINFO\AV_PROJ\DOWELL_SCHLUMBERGER\ARTESIA_469935\MAPFILES\ANN_GW_MON_2021\FIG4-3_ISOCON_DCE_2020_AGWM.MXD TA 3/17/2021



Notes:
< = analyte not detected at concentration above detection limit shown
J = Result is less than the reporting limit but greater or equal to the method detection limit and the concentration is an approximate value.
NMWQCC standard for PCE is 0.02 mg/L. Results not exceeding the NMWQCC Standard at one significant figure are not considered exceedances.

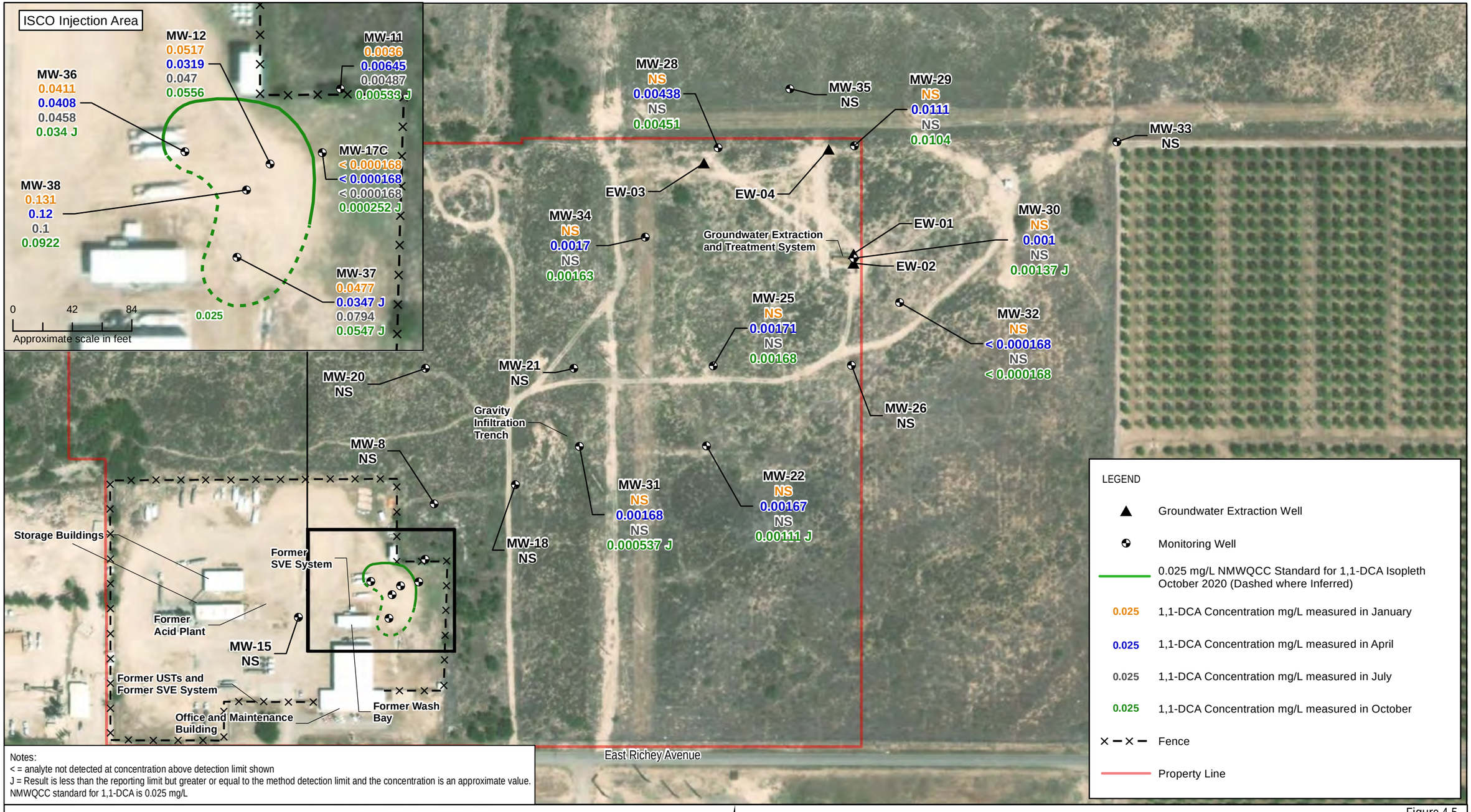
Acronyms:
DPT = direct push technology
ISCO = in situ chemical oxidation
mg/L= milligrams per liter
NMWQCC = New Mexico Water Quality Control Commission
NS = not sampled
PCE = tetrachloroethene
SVE = soil vapor extraction tank
UST = underground storage

Source:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Aorbis DS. USGS,AeroGRID, IGN,and the GIS User Community

Figure 4-4.
Concentration Map for PCE - 2020
2020 Annual Groundwater Monitoring Report
Former Dowell Schlumberger Facility
Artesia, New Mexico

ch2m

EN0223161111MKE \\ABQFPP01\ARCINFO\AV_PROJ\DOWELL_SCHLUMBERGER\ARTESIA_469935\MAPFILES\ANN_GW_MON_2021\FIG4-4_ISOCON_PCE_2020_AGWM.MXD TA 3/16/2021



Notes:
< = analyte not detected at concentration above detection limit shown
J = Result is less than the reporting limit but greater or equal to the method detection limit and the concentration is an approximate value.
NMWQCC standard for 1,1-DCA is 0.025 mg/L

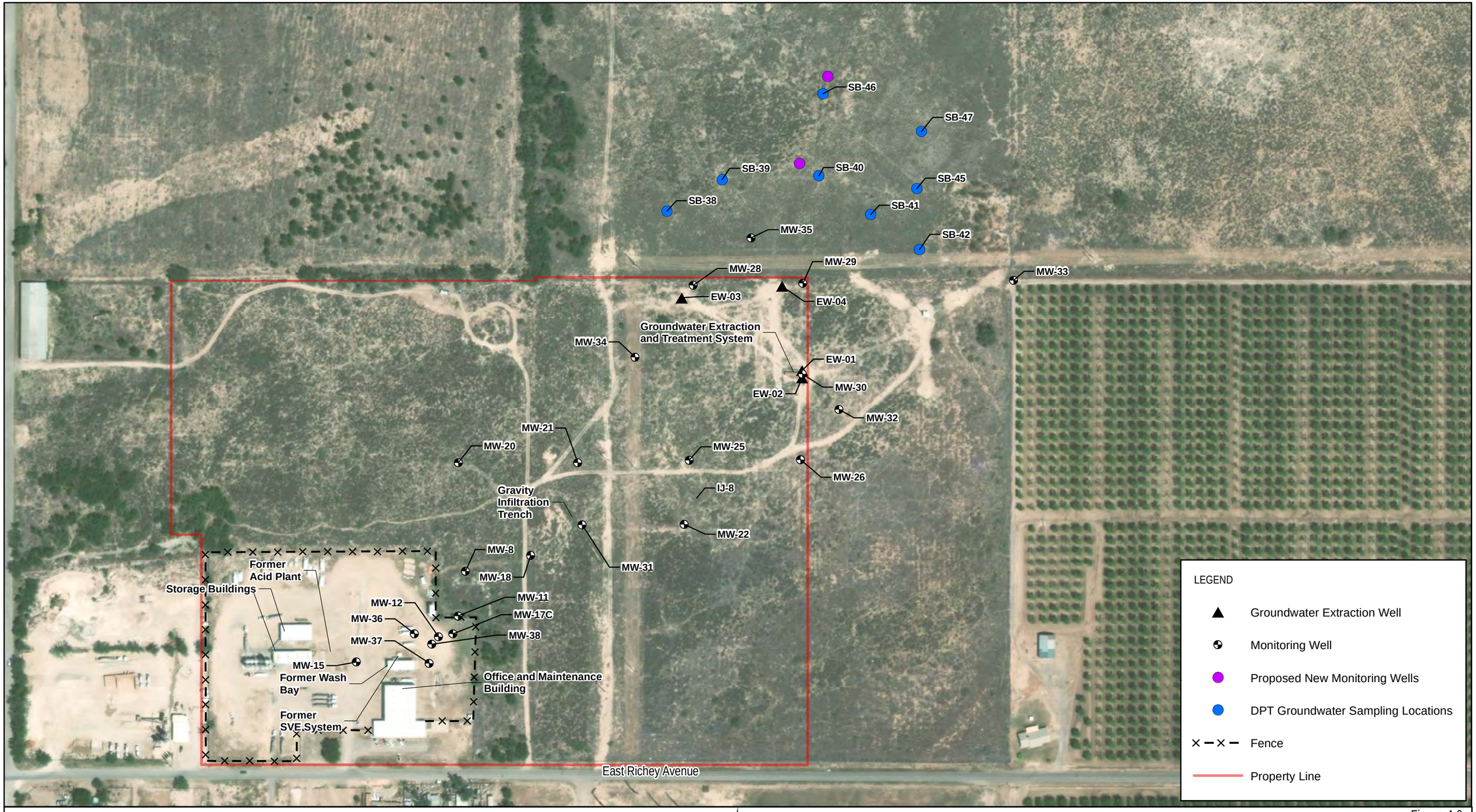
Acronyms:
1,1-DCA = 1,1-dichloroethane
ISCO = in situ chemical oxidation
mg/L= milligrams per liter
NMWQCC = New Mexico Water Quality Control Commission
NS = not sampled
SVE = soil vapor extraction
UST = underground storage tank

Source:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS. USGS,AeroGRID, IGN,and the GIS User Community

N
0 100 200
Approximate scale in feet

Figure 4-5.
Concentration Map for 1,1-DCA - 2020
2020 Annual Groundwater Monitoring Report
Former Dowell Schlumberger Facility
Artesia, New Mexico

EN0223161111MKE \\ABQFPP01\ARCINFO\AV_PROJ\DOWELL_SCHLUMBERGER\ARTESIA_469935\MAPFILES\ANN_GW_MON_2021\FIG4-5_ISOCON_DCA_2020_AGWM.MXD TA 3/17/2021



Acronyms:
DPT = direct push technology
SVE = soil vapor extraction

Source:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Aorbis DS. USGS,AeroGRID, IGN,and the GIS User Community

Figure 4-6.
Proposed Downgradient Well Installation Locations Locations
2020 Annual Groundwater Monitoring Report
Former Dowell Schlumberger Facility
Artesia, New Mexico

EN0223161111MKE N:\DOWELL_SCHLUMBERGER\ARTESIA_469935\MAPFILES\ANN_GW_MON_2021\FIG4-6_PROPOSED_MW_LOCATIONS_AGWM.MXD TA 2/11/2021

ch2m:

Appendix A
NMOCD Correspondence

To: Virgilio Cocianni
Subject: RE: [Ext] RE: Dowell Schlumberger Facility at 507 East Richey Avenue, Artesia, New Mexico APPROVALS

From: Virgilio Cocianni <cocianni-v@slb.com>
Sent: Wednesday, August 14, 2019 9:32 AM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: Strunk Jr, Jim (J) <JStrunkjr@dow.com>; Schneider, Monica/PNS <Monica.Schneider@jacobs.com>; Urann, David/BOS <David.Urann@jacobs.com>
Subject: [EXTERNAL] RE: [Ext] RE: Dowell Schlumberger Facility at 507 East Richey Avenue, Artesia, New Mexico APPROVALS

Good morning and thanks for your quick response, Brad.
Have a great day.
Cheers,
Vic.

Vic Cocianni
Schlumberger Remediation Manager
Phone: +1-281-285-4747

"Courage doesn't always roar. Sometimes courage is the little voice at the end of the day that says I'll try again tomorrow." Mary Ann Radmacher.
(Please continue to be patient with me, She is still making me).

Schlumberger-Private

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Wednesday, August 14, 2019 9:30 AM
To: Virgilio Cocianni <cocianni-v@slb.com>
Cc: Strunk Jr, Jim (J) <JStrunkjr@dow.com>; Schneider, Monica/PNS <Monica.Schneider@jacobs.com>; Dave Urann (david.urann@jacobs.com) <david.urann@jacobs.com>
Subject: [Ext] RE: Dowell Schlumberger Facility at 507 East Richey Avenue, Artesia, New Mexico APPROVALS

8/14/2019

Vic Cocianni – Schlumberger
Jim Strunk Jr. - Dowell

Good Morning,

Re: Dowell Schlumberger Facility in Artesia, NM – Stage I and Stage II Abatement Plan (Previous GW-114) and Addendum

The Oil Conservation Division (OCD), and I personally, thank you for your efforts and concise work on this location. It is much appreciated.

The following is approved:

The 2017 Abatement Plan and current Addendum, as relayed in July 2019 communication.

Monitor wells identified as MW's -8, -15, -18, -20, -21, -26 and -33 may be removed from future scheduled sampling events (including the next scheduled event), however, as mentioned in the Addendum, please leave in place for use as groundwater elevation markers. Please take depth to water elevations at these well locations during sampling events and incorporate data in mapping.

Please proceed with gaining access for additional work to the North from the Artesia Alfalfa Growers Association (AFGA), and as mentioned in the Addendum, I stand ready to assist in this access process if I may be of any assistance.

Once again, thank you for your skills and patience. If there are any questions or need for clarification please email concerns.

Sincerely,

Bradford Billings
EMNRD/OCD
Santa Fe

From: Virgilio Cocianni <cocianni-v@slb.com>
Sent: Tuesday, August 13, 2019 2:41 PM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: Strunk Jr, Jim (J) <JStrunkjr@dow.com>; Schneider, Monica/PNS <Monica.Schneider@jacobs.com>; Dave Urann (david.urann@jacobs.com) <david.urann@jacobs.com>
Subject: Dowell Schlumberger Facility at 507 East Richey Avenue, Artesia, New Mexico – July 9, 2019 Meeting Summary

Good afternoon, Brad.
Thank you for your time to meet with us on July 9th. The summary and the presentation slides from our meeting have been uploaded as one combined PDF to the NMOCD ftp site. The pdf file is titled "7.9.19 Artesia NM Meeting Summary" and was uploaded to the BGBs folder on CentreStack. Would you please confirm that the pdf file uploaded correctly?

As discussed during our meeting, we are requesting to remove seven monitoring wells from the semiannual groundwater sampling program. These wells have met the 8 consecutive quarters without an exceedance of NMWQCC standards. These wells will be retained for collection of groundwater elevation data. We are requesting these changes be implemented during the October 2019 semiannual monitoring event. Tables with the historical analytical data for each of the seven wells and the proposed semiannual monitoring program moving forward are attached to the meeting summary (Tables 1 and 2).

Have a wonderful evening.
Cheers,
Vic.

Vic Cocianni
Schlumberger Remediation Manager
Phone: +1-281-285-4747

"Courage doesn't always roar. Sometimes courage is the little voice at the end of the day that says I'll try again tomorrow." Mary Ann Radmacher.
(Please continue to be patient with me, She is still making me).

Schlumberger-Private

NOTICE - This communication may contain confidential and privileged information that is for the sole use of the intended recipient. Any viewing, copying or distribution of, or reliance on this message by unintended recipients is strictly prohibited. If you have received this message in error, please notify us immediately by replying to the message and deleting it from your computer.

From:	Billings, Bradford, EMNRD
To:	Virgilio Cocianni
Cc:	Strunk Jr, Jim (J); Schneider, Monica/PNS; Urann, David/BOS; Forsberg, Aleeca/ABQ; Nea, Anne/STL
Subject:	[EXTERNAL] RE: Dowell Schlumberger Facility at 507 East Richey Avenue, Artesia, New Mexico – 2019 Annual Groundwater Monitoring Report
Date:	Thursday, April 2, 2020 11:07:48 AM

04/02/2020

"Vic" Cocianni – Schlumberger

RE: Dowell Schlumberger Facility in Artesia GW-114

First let me offer the hope that everyone and those about you are well and stay that way.

All recommendations in Section 5.2 in 2019 monitor report are APPROVED.

Please keep me informed of progress with access for well(s).

The Oil Conservation Division (OCD) appreciates your efforts.

Stay well.

Sincerely,

Bradford Billings

EMNRD/OCD
Albuquerque, NM

505-670-6549

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From:	Billings, Bradford, EMNRD
To:	Schneider, Monica/PNS
Cc:	Strunk Jr, Jim (J); Dawn Greening; Urann, David/BOS; Forsberg, Aleeca/ABQ; Perlmutter, Mike/ATL; Ried, Kathi/MKE
Subject:	[EXTERNAL] RE: Former Dowell Schlumberger Facility, 507 East Richey Avenue, Artesia, Eddy County, New Mexico – Request to Abandon Monitoring Well MW-33
Date:	Tuesday, September 15, 2020 9:23:21 AM

09/15/2020

Dow
Schlumberger
Jacobs

RE: Request for Monitor Well Abandonment (MW-33) at the Former Dowell Schlumberger Facility

To All,

The request made in attached email is APPROVED. Please inform the Oil Conservation Division (OCD) of timing for the abandonment of identified monitor well.

Thank you for your time and efforts. OCD appreciates your work. If there are additional questions or needs please contact as needed. Please keep a copy of this communication for your records as no PAPER copy will follow.

Sincerely,

Bradford Billings
EMNRD/OCD

From: Schneider, Monica/PNS <Monica.Schneider@jacobs.com>
Sent: Tuesday, September 15, 2020 7:55 AM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: Strunk Jr, Jim (J) <JStrunkjr@dow.com>; Dawn Greening <DGreening@slb.com>; Urann, David/BOS <David.Urann@jacobs.com>; Forsberg, Aleeca/ABQ <Aleeca.Forsberg@jacobs.com>; Perlmutter, Mike/ATL <Mike.Perlmutter@jacobs.com>; Ried, Kathi/MKE <Kathi.Ried@jacobs.com>
Subject: [EXT] Former Dowell Schlumberger Facility, 507 East Richey Avenue, Artesia, Eddy County, New Mexico – Request to Abandon Monitoring Well MW-33

Good morning, Brad.
Thank you very much for your time to talk yesterday so I could discuss the request below with you, on behalf of Schlumberger Technology Corporation and The Dow Chemical, before sending a formal request for your approval.

On behalf of Schlumberger Technology Corporation and The Dow Chemical, herein is the formal request for your approval to discontinue monitoring the groundwater level at MW-33 and abandon monitoring well MW-33 (well location shown on Figure 1-2; 2019 Annual Groundwater Monitoring

Report).
The rationale for this request is that chlorinated volatile organic compounds (CVOCs) have not been detected since 2015 (Table 1; 7.9.19 Artesia NM Meeting Summary.pdf) and the well location is sidegradient to the 1,1-dichloroethene (DCE) and tetrachloroethene (PCE) plumes (October 2019 potentiometric surface shown on Figure 4-2 and October 2019 capture zone shown on Figure 4-8; 2019 Annual Groundwater Monitoring Report).

We understand if conditions change, NMOCD may direct us to reinstall a well in this location or in proximity to it.

Thank you,
Monica

Monica Schneider | Jacobs | Program Manager | 314.605.4616 |
Monica.Schneider@jacobs.com | www.jacobs.com

NOTICE - This communication may contain confidential and privileged information that is for the sole use of the intended recipient. Any viewing, copying or distribution of, or reliance on this message by unintended recipients is strictly prohibited. If you have received this message in error, please notify us immediately by replying to the message and deleting it from your computer.

Appendix B
Performance Monitoring Data Sheets

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW-11	1/14/2020

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM

WEATHER (wind/temp/ppt): Sunny 70°F 10-15mph OTHER NOTABLE FIELD CONDITIONS:

INITIAL ORGANIC VAPOR METER READINGS: 0.0 ppm

INITIAL DEPTH TO WATER: 14.35 TOTAL DEPTH OF WELL: 30.40 SCREENED INTERVAL:

PURGE VOLUME CALCULATION:

METHOD OF PURGING (circle): peristaltic pump Geo pump grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: Horiba U-52

Well Purging Information

Date / Time	Total volume (gals)	Water Level (ft btoc) <= 0.33 ft	Temp (°C) +/- 1	pH +/- 10%	Turbidity (NTU) 10% or <10 NTU	Conductivity (mS/cm) +/-3%	DO (mg/L) 10% or <0.5 mg/L	ORP (millivolts) +/- 10%	Remarks (color, odor, sheen, sediment, etc.) Stabilization parameters
1/14/2020 1415	0.1	14.41	22.42	4.14	0.0	5.88	1.65	59	~100 mL/min
1420	0.3	14.41	21.62	4.09	0.0	6.04	0.96	72	
1425	0.5	14.41	21.51	4.08	0.0	6.05	0.80	77	
1430	0.7	14.41	21.51	4.08	0.0	6.06	0.76	79	
1435	0.9	14.41	21.56	4.09	0.0	5.93	0.69	81	
1440	1.1	14.41	21.61	4.10	0.0	5.89	0.67	82	
1445	1.5	14.49	21.69	4.11	0.0	5.91	0.82	81	
1450	1.75	14.41	21.74	4.12	0.0	5.83	0.61	85	
1455	2.0	14.41	21.71	4.13	0.0	5.78	0.66	87	
1500	2.5	14.41	21.71	4.13	0.0	5.76	0.63	89	

Sample Information

SAMPLE DATE: 1/14/2020 SAMPLE TYPE: grab SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: MB

SAMPLING METHOD: LowFlow - Peristaltic SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

SAMPLE ID(s): Artesia-MW11-01142020 DUPLICATE/BLANK SAMPLE ID(s): NA

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.):

Sample ID	Sample Time	Sample Containers No.	Sample Containers Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
	1502	3	40mL VOA	HCL	8260	TA HOU
	1502	1	1L Poly	ICE	300.0	TA HOU

Initials of sampling personnel MB

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW-12	1/14/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM

WEATHER (wind/temp/ppt): sunny, warm OTHER NOTABLE FIELD CONDITIONS: wind from South

INITIAL ORGANIC VAPOR METER READINGS: 0.1 ppm

INITIAL DEPTH TO WATER: 14.40 TOTAL DEPTH OF WELL: SCREENED INTERVAL:

PURGE VOLUME CALCULATION:

METHOD OF PURGING (circle): peristaltic pump Geo pump grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: Heron WLF, Horiba U-52, MiniRAE PID

Well Purging Information

Time	Total volume (gals)	Water Level (ft btoc) <= 0.33 ft	Temp (°C) +/- 1	pH +/- 10%	Turbidity (NTU) 10% or <10 NTU	Conductivity (mS/cm) +/-3%	DO (mg/L) 10% or <0.5 mg/L	ORP (millivolts) +/- 10%	Remarks (color, odor, sheen, sediment, etc.) Stabilization parameters
1215	begin purge								
1217	0.25	14.61	19.95	7.32	337	5.12	0.00	-214	
1223	0.75	14.66	19.95	7.24	7.9	5.23	0.00	~~-225~~	ORP = -223
1227	1.0	14.63	19.90	7.24	8.3	5.22	0.00	-223	
1233	1.5	14.61	19.41	7.20	18.6	5.24	0.00	-222	
1237	2.0	14.60	19.40	7.20	9.8	5.21	0.00	-220	sample @ 1240 parameters stable

Sample Information

SAMPLE DATE: 1/14/20 SAMPLE TYPE: grab SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: Aleeca Forsberg

SAMPLING METHOD: Low flow w/ stabilization SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

SAMPLE ID(s): ARTESIA-MW12-01142020 DUPLICATE/BLANK SAMPLE ID(s): None

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.): small black particles in water. Slight effervescence when going into VOA bottle w/ HCl

Sample ID	Sample Time	Sample Containers No.	Sample Containers Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
as above	1240	3	40ml VOA	HCl 4°C	8260 LL	Eurofins Test America
	1	1	1L poly	4°C	300.0 Sulfate	

Initials of sampling personnel AF

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

PROJECT NUMBER	WELL ID	Purge Date:
D3151100.A	MW-17C	1/14/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM

WEATHER (wind/temp/ppt): breeze from east OTHER NOTABLE FIELD CONDITIONS:

INITIAL ORGANIC VAPOR METER READINGS: 0.0ppm

INITIAL DEPTH TO WATER: 14.48 TOTAL DEPTH OF WELL: SCREENED INTERVAL:

PURGE VOLUME CALCULATION:

METHOD OF PURGING (circle): peristaltic pump Geo pump grundfos pump Bailer #C103193

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: YSI Heron# C103097

Well Purging Information

Date / Time	Total volume (gals)	Water Level (ft btoc) <= 0.33 ft	Temp (°C) +/- 1	pH +/- 10%	Turbidity (NTU) 10% or <10 NTU	Conductivity (mS/cm) +/-3%	DO (mg/L) 10% or <0.5 mg/L	ORP (millivolts) +/- 10%	Remarks (color, odor, sheen, sediment, etc.) Stabilization parameters
1120	begin purge								had tubing on flow thru wrong
1121	0.25	14.60	12.44	7.18	2.14	0.027	12.83	223	DO not accurate
~~1226~~ 1228	0.5	14.85	16.19	7.38	~~105~~ 91.4	4.46	0.00	9.4	
1138	1	14.81	17.05	7.40	~~10~~ 16	4.37	0.00	181	Turb 30.3
1138	1.3	14.76	18.3	7.45	22.2	4.36	0.00	180	
1148	1.75	14.76	18.42	7.48	0.2	4.34	0.00	180	
1148	2.25	14.80	18.59	7.50	0.5	4.32	0.00	179	sample

Do not use first reading as starting point for stabilization. had tubing (in/out) backwards on flow through.

Sample Information

SAMPLE DATE: 1/14/20 SAMPLE TYPE: grab SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: Alexa Forsberg

SAMPLING METHOD: low flow w/stabilization SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

SAMPLE ID(s): Artesia-MW17C-01142020 DUPLICATE/BLANK SAMPLE ID(s): N/A

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.): See last reading above

Sample ID	Sample Time	Sample Containers No.	Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
See above	1150	3	40ml VOA	HCl 4°C	8260 LL	Eurofins, TA
		1	1L poly	4°C	300.0 Sulfate	"

Initials of sampling personnel AF

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW-36	1/14/2020

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM

WEATHER (wind/temp/ppt): Part cloud, 10mph, 60°F OTHER NOTABLE FIELD CONDITIONS: N/A

INITIAL ORGANIC VAPOR METER READINGS: 1.0 ppm

INITIAL DEPTH TO WATER: 14.55 TOTAL DEPTH OF WELL: 25.40 SCREENED INTERVAL:

PURGE VOLUME CALCULATION:

METHOD OF PURGING (circle): peristaltic pump Geo pump grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: Horiba U-52

Well Purging Information

Date 1/14/2020 Time	Total volume (gals)	Water Level (ft btoc) <= 0.33 ft	Temp (°C) +/- 1	pH +/- 10%	Turbidity (NTU) 10% or <10 NTU	Conductivity (mS/cm) +/-3%	DO (mg/L) 10% or <0.5 mg/L	ORP (millivolts) +/- 10%	Remarks (color, odor, sheen, sediment, etc.) Stabilization parameters
1129	0.1	15.33	19.37	3.85	78.1	8.99	2.56	326	~100mL/min
1134	0.2	15.35	19.62	3.96	73.7	8.98	2.03	355	
1139	0.5	15.36	20.16	4.00	93.0	8.87	2.44	372	
1144	0.8	15.41	20.54	3.96	70.8	8.76	0.95	384	
1149	~~0.5~~ MB 1.1	15.40	20.50	3.96	59.0	8.61	0.98	390	
1154	1.2	15.40	20.57	3.96	45.0	8.35	0.98	395	
1159	1.4	15.41	20.73	3.96	31.6	8.02	1.01	399	
1204	1.6	15.42	20.77	3.97	24.4	7.79	0.97	399	
1209	1.8	15.42	20.81	3.97	20.2	7.54	0.94	399	
1214	2.0	15.41	20.86	3.97	15.6	7.33	0.85	398	
MB ~~1219~~ 1219	2.2	15.42	20.94	3.98	14.3	7.18	0.83	397	
1224	2.4	15.43	20.98	3.99	11.2	7.04	0.82	395	
1229	2.6	15.43	20.90	4.00	10.8	6.93	0.90	392	
1234	2.8	15.42	20.93	4.00	11.2	6.85	0.72	391	

Sample Information

SAMPLE DATE: 1/14/2020 SAMPLE TYPE: grab SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: MB

SAMPLING METHOD: Low Flow - Peristaltic SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

SAMPLE ID(s): Artesia-MW36-01142020 DUPLICATE/BLANK SAMPLE ID(s): N/A

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.): Some small bubbles - Reacts w/ HCL

Sample ID	Sample Time	Sample Containers No.	Sample Containers Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
	1235	VOCs 3	40mL VOA	HCl	8260 Li	TA/Hou
	1235	Sulfate 1	1L Poly	Ice	300.0	TA/Hou

Initials of sampling personnel MB

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW-37	1/14/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM

WEATHER (wind/temp/ppt): Hot, sunny, West wind OTHER NOTABLE FIELD CONDITIONS:

INITIAL ORGANIC VAPOR METER READINGS: 0.1ppm

INITIAL DEPTH TO WATER: 14.25 TOTAL DEPTH OF WELL: 25 SCREENED INTERVAL: 15-25

PURGE VOLUME CALCULATION: (25-14.25) ~~x 0.163~~ = 1.75 x 3 well vol = 5.25 gal.

METHOD OF PURGING (circle): peristaltic pump Geo pump grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and ~~ran~~ through GAC treatment

MONITORING EQUIPMENT USED:

Well Purging Information

Date / Time	Total volume (gals)	Water Level (ft btoc) <= 0.33 ft	Temp (°C) +/- 1	pH +/- 10%	Turbidity (NTU) 10% or <10 NTU	Conductivity (mS/cm) +/-3%	DO (mg/L) 10% or <0.5 mg/L	ORP (millivolts) +/- 10%	Remarks (color, odor, sheen, sediment, etc.) Stabilization parameters
1305	begin	purge							
1307	0.25	14.72	20.01	7.33	9.6	5.32	7.11	-139	
1312	0.75	14.81	19.71	7.24	2.6	5.33	2.81	-156	NO ODOR
1317	1.5	14.90	19.69	7.22	3.8	5.34	0.00	-170	
1322	2.3	14.90	19.65	7.20	1.9	5.34	0.00	-156	
1327	2.8	14.84	19.65	7.19	3.9	5.33	0.00	~~-138~~ -119	
1332	3.5	14.83	19.62	7.17	1.9	5.32	0.00	-109	
1336	4.25	14.83	19.62	7.17	2.6	5.32	0.00	-83	
1343	4.75	14.75	19.58	7.15	3.5	5.30	0.00	-54	
1348	5.25	14.82	19.58	7.16	5.3	5.29	0.00	-43	
1350									ORP would not stabilize w/ low flow- 3x saturated casing volumes removed before sampling

Sample Information

SAMPLE DATE: 1/14/2020 SAMPLE TYPE: grab SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: Aleeca Forsberg

SAMPLING METHOD: ~~low flow w/ stabilization~~ purge volume SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

SAMPLE ID(s): ARTESIA-MW37-01142020 DUPLICATE/BLANK SAMPLE ID(s): None

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.):

Sample ID	Sample Time	Sample Containers No.	Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
see above	1350	3	40ml VOA	HCl 4°C	8260 VOC	Eurofins Test America
↓	↓	1	1L poly	4°C	300.0 Sulfate	↓

Initials of sampling personnel AF

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW-38	1/14/2020

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM

WEATHER (wind/temp/ppt): Sunny 70°F, 10mph OTHER NOTABLE FIELD CONDITIONS: Wind from S.

INITIAL ORGANIC VAPOR METER READINGS: 0.0ppm

INITIAL DEPTH TO WATER: 14.48 TOTAL DEPTH OF WELL: 25.03 SCREENED INTERVAL:

PURGE VOLUME CALCULATION:

METHOD OF PURGING (circle): peristaltic pump Geo pump grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: Horiba U-52

Well Purging Information

Date 1/14/2020	Total volume (gals)	Water Level (ft btoc)	Temp (°C)	pH	Turbidity (NTU)	Conductivity (mS/cm)	DO (mg/L)	ORP (millivolts)	Remarks (color, odor, sheen, sediment, etc.)
Time		<= 0.33 ft	+/- 1	+/- 10%	10% or <10 NTU	+/-3%	10% or <0.5 mg/L	+/- 10%	Stabilization parameters
1256	0.1	14.60	21.08	3.97	0.0	4.37	0.97	-17	
1302	0.3	14.65	21.29	4.01	0.0	4.35	0.83	-38	
1307	0.5	14.62	21.33	4.03	0.0	4.38	0.84	-73	
1312	0.7	14.63	21.38	4.04	0.0	4.38	0.69	-99	
1317	0.9	14.63	21.42	4.05	0.0	4.37	0.67	-111	
1322	1.2	14.64	21.44	4.06	0.0	4.37	0.67	-118	
1327	1.4	14.64	21.40	4.07	0.0	4.36	0.61	-126	
1332	1.8	14.65	21.34	4.08	0.0	4.35	0.62	-131	
1337	2.2	14.65	21.34	4.08	0.0	4.35	0.67	-134	Stable - Sample

Sample Information

SAMPLE DATE: 1/14/2020 SAMPLE TYPE: grab SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: MBooth

SAMPLING METHOD: Low-Flow - Peristaltic SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

SAMPLE ID(s): Artesia-MW38-01142020 DUPLICATE/BLANK SAMPLE ID(s):

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.):

Sample ID	Sample Time	Sample Containers No.	Sample Containers Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
	1340	3	40mL VOA	HCl	8260	TA/Hou
	1340	1	1L Poly	ICE	300.0	TA/Hou

Initials of sampling personnel MB

GWSample-PurgeForms_template.xlsx

Page 52 of 1122

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW-11	4/28/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM

WEATHER (wind/temp/ppt): SUNNY, FEW SCATTERED CLOUDS ~75F OTHER NOTABLE FIELD CONDITIONS: NONE

INITIAL ORGANIC VAPOR METER READINGS: 0.0 PPM

INITIAL DEPTH TO WATER: 14.57 TOTAL DEPTH OF WELL: SCREENED INTERVAL:

PURGE VOLUME CALCULATION:

METHOD OF PURGING (circle): peristaltic pump (Geo pump) grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: HORIBA U52, HERON WLI

Well Purging Information

Date / Time	Total volume (gals)	Water Level (ft btoc) <= 0.33 ft	Temp (°C) +/- 1	pH +/- 10%	Turbidity (NTU) 10% or <10 NTU	Conductivity (mS/cm) +/-3%	DO (mg/L) 10% or <0.5 mg/L	ORP (millivolts) +/- 10%	Remarks (color, odor, sheen, sediment etc.) Stabilization parameters
0911	START PURGE								
0916	0.25	14.58	18.93	8.08	5.4	6.44	0.00	114	
0921	0.50	14.59	19.60	8.10	3.6	6.37	0.00	123	
0926	0.75	14.59	19.85	8.11	2.1	6.35	0.00	128	
0931	1.00	14.60	20.05	8.10	1.9	6.31	0.00	132	
0936	1.25	14.59	20.34	8.06	1.4	6.25	0.33	136	
0943	1.50	14.60	20.57	7.99	0.7	6.18	1.05	140	
0948	1.75	14.60	20.63	7.98	0.3	6.14	0.84	139	
0953	2.00	14.60	20.93	8.17	0.0	6.06	0.22	128	
0958	2.50	14.60	20.90	8.25	0.0	6.04	0.00	123	
1003	2.75	14.59	21.14	8.32	0.0	5.99	0.00	118	
1008	3.00	14.59	21.13	8.35	0.0	5.97	0.00	115	
1013	3.25	14.59	21.21	8.36	0.0	5.95	0.00	113	

Sample Information

SAMPLE DATE: 4/28/20 SAMPLE TYPE: (Grab) SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: DW, AF

SAMPLING METHOD: LOW FLOW SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

SAMPLE ID(s): ARTESIA-MW11-04282020 DUPLICATE/BLANK SAMPLE ID(s): N/A

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.):

Sample ID	Sample Time	Sample Containers No.	Sample Containers Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
SEE ABOVE	1018	3	40 ml	HCl, 4°C	8260B LL	
" "	1018	1	1 L	4°C	300.0	

Initials of sampling personnel

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 53 of 1122

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW-12	4/27/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia NM

WEATHER (wind/temp/ppt): SUNNY, CLOUDY, ~76°F OTHER NOTABLE FIELD CONDITIONS: NONE

INITIAL ORGANIC VAPOR METER READINGS: 0.0 PPM

INITIAL DEPTH TO WATER: 14.50 TOTAL DEPTH OF WELL: SCREENED INTERVAL:

PURGE VOLUME CALCULATION:

METHOD OF PURGING (circle): peristaltic pump (Geo pump) grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: HORIBA U-52, HERON WL1

Well Purging Information

Date / Time	Total volume (gals)	Water Level (ft btoc) <= 0.33 ft	Temp (°C) +/- 1	pH +/- 10%	Turbidity (NTU) 10% or <10 NTU	Conductivity (mS/cm) +/-3%	DO (mg/L) 10% or <0.5 mg/L	ORP (millivolts) +/- 10%	Remarks (color, odor, sheen, sediment, etc.) / Stabilization parameters
1300	START PURGE								ODOR OBSERVED
1302	0.25		24.58	7.49	13.3	4.47	0.00	-218	PETROLEUM ODOR
1307	0.50		22.93	7.45	1.4	4.63	0.00	-223	
1312	0.75		22.83	7.57	1.6	4.67	0.00	-223	
1317	1.00		22.44	7.69	7.7	4.68	0.00	-234	
1322	1.25		22.22	7.74	0.0	4.67	0.00	-237	
1327	1.50		21.71	7.76	0.0 DUP	4.70	0.00	-237	
1332	1.75		21.84	7.76	0.0	4.66	0.00	-239	
1337	2.00		21.84	7.78	0.0	4.65	0.00	-240	

Sample Information

SAMPLE DATE: 4/27/20 SAMPLE TYPE: (grab) SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: DN, AF

SAMPLING METHOD: LOW FLOW SAMPLE TEMP/pH/EC/TURB/DO: see last entry above

SAMPLE ID(s): ARTESIA-MW12-04272020 DUPLICATE/BLANK SAMPLE ID(s):

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.):

Sample ID	Sample Time	Sample Containers No	Sample Containers Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
SEE ABOVE	1341	3	40ML	HCL, 4°C	BX60BLL	
	1341	1	1L	4°C	300.0	

Initials of sampling personnel: DN

GWSample-PurgeForms_template.xlsx

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 54 of 1122

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW17C	4/29/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM

WEATHER (wind/temp/ppt): Sunny, breezy OTHER NOTABLE FIELD CONDITIONS:

INITIAL ORGANIC VAPOR METER READINGS: 0.0

INITIAL DEPTH TO WATER: 14.89 TOTAL DEPTH OF WELL: SCREENED INTERVAL:

PURGE VOLUME CALCULATION: (62.35-14.89)=47.46 x 0.162 = 7.68gal. 7.68gal + (20 x 0.162) = 10.92 gallons

METHOD OF PURGING (circle): peristaltic pump Geo pump grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: Horan WLI, Horiba U-52

Well Purging Information

Date / Time	Total volume (gals)	Water Level (ft btoc) <= 0.33 ft	Temp (°C) +/- 1	pH +/- 10%	Turbidity (NTU) 10% or <10 NTU	Conductivity (mS/cm) +/-3%	DO (mg/L) 10% or <0.5 mg/L	ORP (millivolts) +/- 10%	Remarks (color, odor, sheen, sediment, etc.) Stabilization parameters
0833 start purge									
0835	0.3	15.08	21.38	4.86	3.4	4.09	0.25	289	
0840	0.6	15.12	20.74	6.85	0.0	4.02	0.00	187	
0845	1.2	15.09	20.32	7.08	0.0	4.01	0.00	150	
0850	1.7	15.09	20.91	7.16	0.0	4.00	0.00	126	
0855	2.4	15.09	21.08	7.17	10.1	3.99	0.00	112	
0900	2.8	15.09	21.12	7.19	0.0	3.98	0.00	103	
0905	3.1	15.1	21.31	7.21	0.0	3.98	0.00	94	
0910	3.6	15.1	21.30	7.30	2.5	3.97	0.00	74	
0915	4.1	15.1	21.46	7.35	0.0	3.96	0.00	50	
0920	4.6	15.1	21.73	7.40	0.0	3.94	0.00	34	
0925	5.0	15.09	21.70	7.42	4.1	3.94	0.00	26	
0930	5.2	15.09	21.05	7.43	6.0	4.03	0.00	19	
0935	5.6	15.08	21.07	7.40	0.0	4.02	0.00	15	
0940	6.1	15.09	21.07	7.36	0.0	4.02	0.00	16	

Sample Information

SAMPLE DATE: 4/29/20 SAMPLE TYPE: grab SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: A Forsberg

SAMPLING METHOD: Low flow

SAMPLE ID(s): Artesia-MW17C-04292020, MS/MSD SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

DUPLICATE/BLANK SAMPLE ID(s):

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.):

Sample ID	Sample Time	Sample Containers No.	Sample Containers Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
See above	~~1240~~ 0940	9	40ml VOA	HCl, 4°F	8260 M	Sample @ 0942
		2	1L poly	4°F	300.0	

Initials of sampling personnel

GWSample-PurgeForms_template.xlsx

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 55 of 1122

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW-36	4/27/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM

WEATHER (wind/temp/ppt): SUNNY, CLOUDY, ~78°F OTHER NOTABLE FIELD CONDITIONS: NONE

INITIAL ORGANIC VAPOR METER READINGS: 0.0 PPM

INITIAL DEPTH TO WATER: TOTAL DEPTH OF WELL: SCREENED INTERVAL:

PURGE VOLUME CALCULATION:

METHOD OF PURGING (circle): peristaltic pump (geo pump) grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: HORIBA U-52, HERON WL1

Well Purging Information

Time	Total volume (gals)	Water Level (ft btoc)	Temp (°C)	pH	Turbidity (NTU)	Conductivity (mS/cm)	DO (mg/L)	ORP (millivolts)	Remarks (color, odor, sheen, sediment, etc.)
		<= 0.33 ft	+/- 1	+/- 10%	10% or <10 NTU	+/-3%	10% or <0.5 mg/L	+/- 10%	Stabilization parameters
1401	START	PURGE							
1406	0.25		21.48	7.07	19.4	7.97	0.00	231	ORANGE/RUST TINT
1411	0.50		21.40	7.15	18.5	7.87	0.00	254	COLOR OBSERVED
1416	0.75		22.06	7.20	14.5	7.57	0.00	261	
1421	1.00		22.13	7.22	11.7	7.30	0.00	263	
1426	1.25		21.88	7.23	14.1	7.00	0.00	263	
1431	1.50		21.81	7.23	22.2	6.86	0.00	262	
1436	1.75		21.80	7.21	20.0	6.64	0.00	260	
1441	2.00		21.77	7.20	20.9	6.50	0.00	255	

Sample Information

SAMPLE DATE: 4/27/20 SAMPLE TYPE: (grab) SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: DW, AF

SAMPLING METHOD: LOW FLOW SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

SAMPLE ID(s): ARTESIA-MW36-04272020 DUPLICATE/BLANK SAMPLE ID(s):

NOTABLE OBSERVATIONS (color, odor, sand, headspace etc.): ORANGE/RUST TINT COLOR

Sample ID	Sample Time	Sample Containers No.	Sample Containers Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
SEE ABOVE	1444	3	40ML	HCL, 4°C	8260B LL	
	1449	1	1L	4°C	300.0	

Initials of sampling personnel: [signature]

GWSample-PurgeForms_template xlsx

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 56 of 1122

CH2MHILL

PROJECT NUMBER	WELL ID	Sample Date
~~479421.CV.01~~	MW-37	4/27/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Grants Chlorinated Solvents Plume Site LOCATION: ARTESIA, NM

WEATHER (wind/temp/ppt): SUNNY, CLOUDY, ~78°F OTHER NOTABLE FIELD CONDITIONS: NONE

INITIAL ORGANIC VAPOR METER READINGS: 6.0 PPM

INITIAL DEPTH TO WATER: TOTAL DEPTH OF WELL: SCREENED INTERVAL:

PURGE VOLUME CALCULATION:

METHOD OF PURGING (circle): peristaltic pump (Geo pump) grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: HORIBA U-52, HERON WL1

Well Purging Information

Date / Time	Total volume gals or L	Water Level (ft btoc) <= 0.33 ft	Temp (°C) +/- 1°C	pH +/- 1	Conductivity (mS/cm) +/- 10%	Turbidity (NTU) 10% or <10 NTU	DO (mg/L) 10% or <0.5 mg/L	ORP (mV) +/-10%	Remarks (color, odor, sheen, sediment, etc.) Stabilization Requirements
1511	START	PURGE							
1516	0.25		21.82	7.41	5.31	1.6	0.00	6	PETROLEUM ODOR OBSERVED
1521	0.50		21.75	7.51	5.08	1.0	0.00	-100	
1526	0.75		21.19	7.57	5.09	0.7	0.00	-118	
1531	1.00		21.22	7.59	5.10	0.6	0.00	-114	
1537	1.25		21.40	7.59	5.12	0.6	0.00	-100	
1542	1.50	14.76	21.41	7.58	5.13	1.1	0.00	-87	
1547	1.75	14.77	21.41	7.56	5.15	0.7	0.00	-59	
1552	2.00	14.77	21.38	7.54	5.19	0.3	0.00	-18	
1557	2.50	14.72	21.43	7.53	5.19	0.3	0.00	1	
1602	3.00	14.72	21.61	7.51	5.18	0.1	0.00	17	
1607	3.50	14.69	21.64	7.48	5.19	0.1	0.00	31	
1612	3.75	14.66	21.73	7.47	5.19	0.0	0.00	42	
1617	4.00	14.67	21.76	7.45	5.19	0.0	0.00	49	
1622	4.25	14.68	21.83	7.44	5.19	0.0	0.00	56	
1627	4.50	14.68	21.30	7.43	5.25	0.0	0.00	59	
1632	4.75	14.68	21.23	7.41	5.75	0.0	0.00	63	

Sample Information

SAMPLE DATE: 4/27/20 SAMPLE TYPE: (grab) SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: DW, AF

SAMPLING METHOD: LOW FLOW SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

SAMPLE ID(s): ARTESIA-MW37-04272020 DUPLICATE/BLANK SAMPLE ID(s): ARTESIA-MD37-04272020

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.):

Sample ID	Sample Time	Sample Containers No.	Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
SEE ABOVE	1635	16	40 mL VOA	4°C, HC	VOC	
	1635	1	1L poly	4°C H_2SO_4	~~TOC, NO_3+NO_2~~ SULFATE	EPA Houston
		~~1~~	~~1L poly~~	ZnAC + NaOH	Sulfide	EPA Houston
		~~1~~	~~1L Poly~~	4°C	Cl, SO_4	EPA Houston
		1	~~1L Poly~~	HNO_3	TAL Metals	EPA Houston
		2	~~40 mL VOA~~	4°C	VFA	Pace
		1	~~1L Poly~~	4°C	qPCR	Microbial Insights
		~~2~~	~~40 mL VOA~~	$NaPO_3$	MEE	Pace

Initials of sampling personnel

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 57 of 1122

PROJECT NUMBER	WELL ID	Purge Date
D3151100	MW-38	4/27/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM

WEATHER (wind/temp/ppt): Sunny, wind from S. OTHER NOTABLE FIELD CONDITIONS: None

INITIAL ORGANIC VAPOR METER READINGS: 0.0 ppm

INITIAL DEPTH TO WATER: 14.35 TOTAL DEPTH OF WELL: SCREENED INTERVAL: 15-25

PURGE VOLUME CALCULATION:

METHOD OF PURGING (circle): peristaltic pump Geo pump grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: Horiba U-52 Heron WL

Well Purging Information

Date / Time	Total volume (gals)	Water Level (ft btoc) <= 0.33 ft	Temp (°C) +/- 1	pH +/- 10%	Turbidity (NTU) 10% or <10 NTU	Conductivity (mS/cm) +/-3%	DO (mg/L) 10% or <0.5 mg/L	ORP (millivolts) +/- 10%	Remarks (color, odor, sheen, sediment, etc.) Stabilization parameters
1155	start purge								
1157	0.25	14.80	23.96	5.13	1.2	4.18	0.62	7	
1202	0.5	14.90	20.98	7.36	1.4	4.35	0.0	-150	
1207	1.25	14.92	20.31	7.40	3.5	4.38	0.0	-174	
1212	1.75	14.92	20.44	7.45	0.5	4.36	0.3	-181	
1217	2.25	15.00	20.32	7.41	0.7	4.34	0.00	-185	
1222	2.5	15.00	20.34	7.44	0.6	4.34	0.00	-188	

Sample Information

SAMPLE DATE: 4/27/20 SAMPLE TYPE: (grab) SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: AF, DN

SAMPLING METHOD: low flow SAMPLE TEMP/pH/EC/TURB/DO: see last entry above

SAMPLE ID(s): Artesia-MW38-042720 DUPLICATE/BLANK SAMPLE ID(s):

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.):

Sample ID	Sample Time	Sample Containers No.	Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
See above	1222	3	40 mL	HCl, 4°C	8260VL	
		1	250 mL	4°C	300.0	

Initials of sampling personnel: AF

GWSample-PurgeForms_template.xlsx

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW-11	07/14/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM

WEATHER (wind/temp/ppt): BREEZE, SUNNY, ~106°F OTHER NOTABLE FIELD CONDITIONS:

INITIAL ORGANIC VAPOR METER READINGS: 0.0

INITIAL DEPTH TO WATER: 16.72' TOTAL DEPTH OF WELL: 30.40 SCREENED INTERVAL:

PURGE VOLUME CALCULATION:

METHOD OF PURGING (circle): peristaltic pump (Geo pump) grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: HORIBA, HERON WLM

Well Purging Information

Date / Time	Total volume (gals)	Water Level (ft btoc) <= 0.33 ft	Temp (°C) +/- 1	pH +/- 10%	Turbidity (NTU) 10% or <10 NTU	Conductivity (mS/cm) +/-3%	DO (mg/L) 10% or <0.5 mg/L	ORP (millivolts) +/- 10%	Remarks (color, odor, sheen, sediment, etc.) Stabilization parameters
1323	0	—	—	—	—	—	—	—	START PURGE
1328	0.25	16.76	21.47	6.68	0.0	6.83	0.43	54	
1333	0.5	16.76	21.49	6.66	0.0	6.81	0.38	59	
1338	0.75	16.75	21.26	6.64	0.0	6.76	0.29	65	
1343	1.0	16.75	21.34	6.63	0.0	6.66	0.24	67	
1348	1.25	16.75	21.91	6.62	0.0	6.55	0.21	69	
1353	1.50	16.75	21.78	6.62	0.0	6.53	0.32	71	

Sample Information

SAMPLE DATE: 07/14/20 SAMPLE TYPE: (grab) SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: D. WILLIAMS

SAMPLING METHOD: LOW FLOW SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

SAMPLE ID(s): ARTESIA-MW11-071420 DUPLICATE/BLANK SAMPLE ID(s): NONE

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.):

Sample ID	Sample Time	Sample Containers No.	Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
SEE ABOVE	1354	3	40 ml VOA	HCL	VOCs	TA HOUSTON
	1354	1	1L POLY	ICE (4°C)	SULFATE	TA HOUSTON

Initials of sampling personnel DW

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW-12	7/14/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM

WEATHER (wind/temp/ppt): BREEZE, SUNNY, ~100°F OTHER NOTABLE FIELD CONDITIONS:

INITIAL ORGANIC VAPOR METER READINGS: 0.0

INITIAL DEPTH TO WATER: 16.68 TOTAL DEPTH OF WELL: 25.68 SCREENED INTERVAL:

PURGE VOLUME CALCULATION:

METHOD OF PURGING (circle): peristaltic pump (Geo pump) grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: HORIBA, HERON WLM

Well Purging Information

Date / Time	Total volume (gals)	Water Level (ft btoc) <= 0.33 ft	Temp (°C) +/- 1	pH +/- 10%	Turbidity (NTU) 10% or <10 NTU	Conductivity (mS/cm) +/-3%	DO (mg/L) 10% or <0.5 mg/L	ORP (millivolts) +/- 10%	Remarks (color, odor, sheen, sediment, etc.) Stabilization parameters
1211	0	—	—	—	—	—	—	—	START PURGE
1216	0.75	16.90	25.88	6.37	18.3	5.19	0.27	-110	
1221	0.5	16.81	27.89	6.37	7.4	5.14	0.35	-112	
1226	0.75	16.88	26.07	6.36	5.0	5.12	1.10	-105	
1231	1.0	16.90	24.72	6.35	0.0	5.25	0.77	-106	
1236	1.25	16.91	24.52	6.35	0.0	5.24	0.46	-107	
1241	1.50	16.90	24.34	6.34	0.0	5.20	0.37	-107	
1246	1.75	16.90	24.57	6.34	0.0	5.18	0.32	-106	

Sample Information

SAMPLE DATE: 07/14/20 SAMPLE TYPE: (grab) SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: D. WILLIAMS

SAMPLING METHOD: LOW FLOW SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

SAMPLE ID(s): ARTESIA-MW12-071420 DUPLICATE/BLANK SAMPLE ID(s): NONE

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.): PETROL. ODOR

Sample ID	Sample Time	Sample Containers No.	Sample Containers Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
SEE	1247	3	40ML VOA	HCL	VOCs	TA HOUSTON
ABOVE	1247	1	1L POLY	ICE (4°C)	SULFATE	TA HOUSTON

Initials of sampling personnel DW

Page 59 of 1122

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW-17C	7/14/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM

WEATHER (wind/temp/ppt): BREEZE, SUNNY, ~98°F OTHER NOTABLE FIELD CONDITIONS:

INITIAL ORGANIC VAPOR METER READINGS: 0.0

INITIAL DEPTH TO WATER: 16.73 TOTAL DEPTH OF WELL: 62.40 SCREENED INTERVAL:

PURGE VOLUME CALCULATION:

METHOD OF PURGING (circle): peristaltic pump (Geo pump) grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: HORIBA, HERON WLM

Well Purging Information

Date / Time	Total volume (gals)	Water Level (ft btoc) <= 0.33 ft	Temp (°C) +/- 1	pH +/- 10%	Turbidity (NTU) 10% or <10 NTU	Conductivity (mS/cm) +/-3%	DO (mg/L) 10% or <0.5 mg/L	ORP (millivolts) +/- 10%	Remarks (color, odor, sheen, sediment, etc.) Stabilization parameters
1118	—	—	—	—	— DW	—	—	—	STARTED PURGE
1123	0.25	16.86	24.73	6.46	0.00	4.69	0.51	119	
1128	0.5	16.84	24.81	6.49	0.0	4.61	0.36	107	
1133	0.75	16.85	24.64	6.51	0.0	4.58	0.30	104	
1138	1.0	16.86	24.95	6.52	0.0	4.55	0.28	104	
1143	1.25	16.86	24.71	6.53	0.0	4.53	0.25	104	

Sample Information

SAMPLE DATE: 7/14/20 SAMPLE TYPE: grab SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: D. WILLIAMS

SAMPLING METHOD: LOW FLOW SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

SAMPLE ID(s): ARTESIA-MW17-071420 DUPLICATE/BLANK SAMPLE ID(s): NONE

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.):

Sample ID	Sample Time	Sample Containers No.	Sample Containers Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
SEE ABOVE	1145	3	40ml VOA	HCl	VOCs	TA HOUSTON
	1151	1	1L POLY	ICE (4°C)	SULFATE	TA HOUSTON

Initials of sampling personnel DW

Page 61 of 1122

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW 36	7/14/2020

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM

WEATHER (wind/temp/ppt): 90's, Sunny, Calm OTHER NOTABLE FIELD CONDITIONS: NA

INITIAL ORGANIC VAPOR METER READINGS: 0.2

INITIAL DEPTH TO WATER: 13.66 TOTAL DEPTH OF WELL: 25' SCREENED INTERVAL:

PURGE VOLUME CALCULATION:

METHOD OF PURGING (circle): peristaltic pump Geo pump grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: Horiba

Well Purging Information

Date 7/14/20	Total volume (gals)	Water Level (ft btoc)	Temp (°C)	pH	Turbidity (NTU)	Conductivity (mS/cm)	DO (mg/L)	ORP (millivolts)	Remarks (color, odor, sheen, sediment, etc.)
Time		<= 0.33 ft	+/- 1	+/- 10%	10% or <10 NTU	+/-3%	10% or <0.5 mg/L	+/- 10%	Stabilization parameters
1115	Pump on	—	—	—	—	—	—	—	
1118	0.1	17.10	25.98	6.50	25.4	5.95	0.00	266	
1123	0.3	17.83	25.53	6.48	14.5	5.93	0.00	312	
1128	0.4	17.95	27.97	6.48	14.0	5.71	0.00	327	
1133	0.5	18.00	28.38	6.48	23.6	5.62	0.00	336	
1138	0.6	18.01	28.70	6.48	18.1	5.54	0.00	335	
1143	0.8	18.02	29.03	6.48	13.1	5.43	0.00	332	
1148	1.0	18.06	29.19	6.48	11.7	5.37	0.00	325	
1153	1.2	18.12	29.37	6.49	9.7	5.18	0.00	300	
1158	1.4	18.11	29.57	6.49	9.3	5.18	0.00	252	
1203	1.6	18.10	29.65	6.49	9.9	5.19	0.00	258	ORP not stable
1205	Sample	—	—	—	—	—	—	—	see EPA low flow guidance

Sample Information

SAMPLE DATE: 7/14/2020 SAMPLE TYPE: grab SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: MB

SAMPLING METHOD: Peri Pump - Low Flow SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

SAMPLE ID(s): Artesia-MW36-07/1420 DUPLICATE/BLANK SAMPLE ID(s): NA

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.):

Sample ID	Sample Time	Sample Containers No.	Sample Containers Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
See	1205	3	40mL VOA	HCl	VOCs	TA Houston
Hobas	1205	1	1L Poly	Ice	Sulfate	

Initials of sampling personnel: MB

GWSample-PurgeForms_template xlsx

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 62 of 1122

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW37	7/14/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility LOCATION: Artesia, NM NA

WEATHER (wind/temp/ppt): 95, 5mph, clear OTHER NOTABLE FIELD CONDITIONS: NA

INITIAL ORGANIC VAPOR METER READINGS: 0.0

INITIAL DEPTH TO WATER: 16.45 TOTAL DEPTH OF WELL: See water level sheet SCREENED INTERVAL:

PURGE VOLUME CALCULATION

METHOD OF PURGING (circle): peristaltic pump Geo pump grundfos pump Bailer

DISPOSITION OF DISCHARGE WATER: into onsite tank and run through GAC treatment

MONITORING EQUIPMENT USED: Horiba

Well Purging Information

Date 7/14/20	Total volume (gals)	Water Level (ft btoc)	Temp (°C)	pH	Turbidity (NTU)	Conductivity (mS/cm)	DO (mg/L)	ORP (millivolts)	Remarks (color, odor sheen, sediment, etc.)
Time		<= 0.33 ft	+/- 1	+/- 10%	10% or <10 NTU	+/-3%	10% or <0.5 mg/L	+/- 10%	Stabilization parameters
1220	Pump on		—		—	—	—	—	
1225	0.1	16.65	26.29	6.86	0.4	5.30	0.00	170	
1230	0.2	16.73	24.24	6.91	0.0	5.28	0.00	159	
1235	0.3	16.65	26.20	6.90	0.0	5.32	0.00	167	
1240	0.5	16.73	23.85	6.91	0.0	5.27	0.00	154	
1245	0.7	16.68	24.23	6.90	0.7	5.18	0.00	96	
1250	0.9	16.77	23.36	6.89	2.7	5.07	0.00	44	
1255	1.1	16.78	23.18	6.89	5.3	5.09	0.00	47	
1300	1.3	16.78	23.14	6.88	5.6	5.15	0.00	81	ORP Not stable, see EPA low flow guidance
1305	Sample time								

Sample Information

SAMPLE DATE: 7/14/20 20 SAMPLE TYPE: grab SAMPLE MATRIX: groundwater

SAMPLING PERSONNEL: M Booth

SAMPLING METHOD: Low Flow SAMPLE TEMP/pH/EC/TURB/DO: see last entry, above

SAMPLE ID(s): Artesia-MW37-07142O DUPLICATE/BLANK SAMPLE ID(s): NA

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.)

Sample ID	Sample Time	Sample Containers No	Volume/Type	Preservatives (ice, acids, bases others)	Analytical Method	Laboratory
See	1305	3	40mL VOA	HCL	300.0	TA Houston
Above	1305	1	5x Poly	Ice	VOCs	TA Houston

Initials of sampling personnel: MB

GWSample-PurgeForms_template.xlsx

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 63 of 1122

PROJECT NUMBER	WELL ID	Purge Date:
D3151100	MW-34	7/14/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT	Former Dowell Schlumberger Facility	LOCATION Artesia NM	
WEATHER (wind/temp/ppt)	105°F, 5mph, clear	OTHER NOTABLE FIELD CONDITIONS	NA
INITIAL ORGANIC VAPOR METER READINGS	0.0		
INITIAL DEPTH TO WATER	16.55	TOTAL DEPTH OF WELL: see WL sheet	SCREENED INTERVAL
PURGE VOLUME CALCULATION			
METHOD OF PURGING (circle)	peristaltic pump Geo pump grundfos pump Bailer		
DISPOSITION OF DISCHARGE WATER	into onsite tank and run through GAC treatment		
MONITORING EQUIPMENT USED:	Horiba		

Well Purging Information

Date / Time	Total volume (gals)	Water Level (ft btoc) <= 0.33 ft	Temp (°C) +/- 1	pH +/- 10%	Turbidity (NTU) 10% or <10 NTU	Conductivity (mS/cm) +/-3%	DO (mg/L) 10% or <0.5 mg/L	ORP (millivolts) +/- 10%	Remarks (color, odor, sheen, sediment, etc.) Stabilization parameters
1315	Pump on	—	—	—	—	—	—	—	
1320	0.1	16.81	23.84	6.99	0.0	4.57	0.00	-47	
1325	0.3	16.82	22.44	6.98	0.0	4.50	0.00	-72	
1330	0.5	16.85	22.72	6.97	0.0	4.47	0.00	-87	
1335	0.7	16.81	23.10	6.94	0.0	4.38	0.00	-109	
1340	0.9	16.82	23.38	6.91	0.0	4.38	0.00	-111	Hydrocarbon odor
1345	1.3	16.82	22.84	6.92	0.0	4.38	0.00	-118	Stable
1347	Sample								

Sample Information

SAMPLE DATE	7/14/20	SAMPLE TYPE grab	SAMPLE MATRIX: groundwater
SAMPLING PERSONNEL	M. Booth		
SAMPLING METHOD	Low Flow	SAMPLE TEMP/pH/EC/TURB/DO	see last entry, above
SAMPLE ID(s):	Artesia-MW34-071420	DUPLICATE/BLANK SAMPLE ID(s):	NA
NOTABLE OBSERVATIONS (color, odor, sand headspace, etc.):	Hydrocarbon Odor		

Sample ID	Sample Time	Sample Containers No.	Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method	Laboratory
See Above	1347	3	40mL VOA	HCl	8015	TA Houston
	1347	1	1L Poly	Ice	Sulfate	

Initials of sampling personnel: MB

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 64 of 1122

ch2m

PROJECT NUMBER	WELL ID	DATE
D3151100, A.CS.EV.AR.20-04-02	MW-11	10/6/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility Artesia
LOCATION: Artesia, New Mexico
WEATHER (wind/temp/ppt):
OTHER NOTABLE FIELD CONDITIONS:
INITIAL ORGANIC VAPOR METER READINGS:
INITIAL DEPTH TO WATER: 18.65
TOTAL DEPTH OF WELL: 30.35
SCREENED INTERVAL: 20-30
PURGE VOLUME CALCULATION: (30.35 - 18.65) = 11.7 X 0.165 = 1.815 X (20 X 0.165) = 5.98 gallons
METHOD OF PURGING: Peristaltic Pump
DISPOSITION OF DISCHARGE WATER: Into P&T system
MONITORING EQUIPMENT USED: Horiba U-52, MultiRAE, Water Level Indicator

Well Purging Information

Time	Total volume (gals)	DTW (ft btoc)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO	ORP	Remarks (color, odor, sheen, sediment, etc.)
1206	—	18.65	beg	n	purge				
1209	0.1	18.70	26.55	7.32	5.64	0.0	5.14	110	start of H2O
1214	0.5	18.70	24.85	7.18	5.80	0.0	0.00	120	
1219	0.75	18.70	24.46	7.18	5.85	0.0	0.00	122	
1224	1.1	18.70	24.55	7.18	5.82	0.0	0.00	123	
1229	1.65	18.70	24.25	7.15	5.81	0.0	0.00	124	
1234	2.25	18.70	25.02	7.13	5.64	0.0	0.00	125	Sample stabilization

Sample Information

SAMPLE DATE: 10/6/20
SAMPLE TYPE: grab
SAMPLE MATRIX: GW
SAMPLING PERSONNEL: A. Forsberg
SPLIT SAMPLES OBTAINED BY: NA
SAMPLING METHOD: low-flow with parameter stabilization
SAMPLE TEMP/pH/EC/TURB/DO: See measurements above
SAMPLE ID(s): ARTESIA-MW11-100620
DUPLICATE/BLANK SAMPLE ID(s): ARTESIA-MD11-100620
NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.):

Sample ID	Sample Time	Sample Containers No./Volume/Type	Preservatives (ice, acids,)	Analytical Method	Laboratory	
See above	1140	3 40 mL VOA	HCL, ice	8260B	TestAmerica/HOU	
PD@	1150	1 L poly	ice	300	TestAmerica/HOU	Sulfate

Initials of sampling personnel: AF

Received by OCD: 4/1/2021 10:42:57 AM
Released to Imaging: 6/9/2021 9:44:58 AM

Page 65 of 1122

ch2m:

PROJECT NUMBER	WELL ID	DATE
D3151100	MW-12	10/6/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility Artesia
LOCATION: Artesia, New Mexico
WEATHER (wind/temp/ppt): 80°F, clear, 15mph wind
OTHER NOTABLE FIELD CONDITIONS:
INITIAL ORGANIC VAPOR METER READINGS: 0.0 ppm
INITIAL DEPTH TO WATER: 18.55
TOTAL DEPTH OF WELL: 25.67
SCREENED INTERVAL:
PURGE VOLUME CALCULATION:
METHOD OF PURGING: Peristaltic Pump
DISPOSITION OF DISCHARGE WATER: into P&T system
MONITORING EQUIPMENT USED: Horiba U-52, MultiRAE, Water Level Indicator

Well Purging Information

Time	Total volume (gals)	DTW (ft btoc)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO	ORP	Remarks (color, odor, sheen, sediment, etc.)
1130	Pump on								
1130	0.1	18.63	23.55	6.23	5.09	40.6	0.42	-87	
1135	0.2	18.63	23.76	6.21	5.05	29.8	0.74	-86	
1140	0.3	18.64	23.73	6.19	4.97	15.5	0.70	-81	
1145	0.4	18.64	23.42	6.19	4.92	1.8	0.65	-81	
1150	0.5	18.63	23.17	6.19	4.92	1.4	0.25	-81	
1155	0.6	18.64	23.55	6.18	4.85	0.0	0.23	-83	
1200	0.7	18.63	23.51	6.18	4.83	0.0	0.22	-86	
			Parameters stable						

Sample Information

SAMPLE DATE: 10/6/20
SAMPLE TYPE: grab
SAMPLE MATRIX: GW
SAMPLING PERSONNEL: M. Booth
SPLIT SAMPLES OBTAINED BY: —
SAMPLING METHOD: low-flow with parameter stabilization
SAMPLE TEMP/pH/EC/TURB/DO: See measurements above
SAMPLE ID(s): ARTESIA-MW12-10062020
DUPLICATE/BLANK SAMPLE ID(s): —
NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.): clear

Sample ID	Sample Time	Sample Containers No./Volume/Type	Preservatives (ice, acids,)	Analytical Method	Laboratory
See Above	1205	3 40 mL VOA	HCL, ice	8260B	TestAmerica/HOU
1	1205	1 L poly	ice	300	TestAmerica/HOU

Initials of sampling personnel: M Booth

Received by OCD: 4/1/2021 10:42:57 AM
Released to Imaging: 6/9/2021 9:44:58 AM

Page 66 of 1122

ch2m

PROJECT NUMBER	WELL ID	DATE
D3151100.A.CS.EO.A02.20-0402	MW-17C	10/6/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT Former Dowell Schlumberger Facility Artesia — LOCATION Artesia, New Mexico

WEATHER (wind/temp/ppt) — OTHER NOTABLE FIELD CONDITIONS

INITIAL ORGANIC VAPOR METER READINGS

INITIAL DEPTH TO WATER 18.60

PURGE VOLUME CALCULATION (62.33-18.60)=43.73 x 0.165 = 7.21 → x 20 x 0.165 = 10.51 gallons — TOTAL DEPTH OF WELL 62.33 — SCREENED INTERVAL 52-62

METHOD OF PURGING Peristaltic Pump

DISPOSITION OF DISCHARGE WATER Into P&T system

MONITORING EQUIPMENT USED Horiba U-52, MultiRAE, Water Level Indicator

Well Purging Information

Time	Total volume (gals)	DTW (ft btoc)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO	ORP	Remarks (color, odor, sheen, sediment, etc.)
1058	start purge								
1103	0.0	18.81	21.51	7.55	4.28	0.0	5.84	82	start of H_2O
1108	0.3	18.85	22.97	7.64	4.36	0.0	1.80	106	
1113	0.75	18.89	22.36	7.29	4.15	0.0	0.21	119	
1118	1.5	18.91	22.14	7.21	4.08	0.0	0.00	122	
1123	1.75	18.91	22.10	7.19	4.08	0.0	0.00	123	
1128	2.25	18.90	22.04	7.16	4.09	0.0	0.00	128	sample stabilization

Sample Information

SAMPLE DATE 10/6/20 — SAMPLE TYPE grab — SAMPLE MATRIX. GW

SAMPLING PERSONNEL A Forsberg — SPLIT SAMPLES OBTAINED BY NA

SAMPLING METHOD low-flow with parameter stabilization — SAMPLE TEMP/pH/EC/TURB/DO See measurements above

SAMPLE ID(s) ARTESIA-MW17C-100620 — DUPLICATE/BLANK SAMPLE ID(s) NA

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.)

Sample ID	Sample Time	Sample Containers No /Volume/Type	Preservatives (ice, acids,)	Analytical Method	Laboratory	
SEE above	1130	3 40 mL VOA	HCL, ice	8260B	TestAmerica/HOU	
		1 L poly	ice	300	TestAmerica/HOU	sulfate

Initials of sampling personnel AF

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 67 of 1122

ch2m:

PROJECT NUMBER	WELL ID	DATE
D3151100	MW-36	10/6/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility Artesia
LOCATION: Artesia, New Mexico
WEATHER (wind/temp/ppt): 10mph, 70°F, Clear
OTHER NOTABLE FIELD CONDITIONS
INITIAL ORGANIC VAPOR METER READINGS: 0.0ppm
INITIAL DEPTH TO WATER: 18.47
TOTAL DEPTH OF WELL: 25.36
SCREENED INTERVAL:
PURGE VOLUME CALCULATION:
METHOD OF PURGING: Peristaltic Pump
DISPOSITION OF DISCHARGE WATER: Into P&T system
MONITORING EQUIPMENT USED: Horiba U-52, MultiRAE, Water Level Indicator

Well Purging Information

Time	Total volume (gals)	DTW (ft btoc)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO	ORP	Remarks (color, odor, sheen, sediment, etc.)
0943	Pump on								
0945	0.1	18.89	19.42	5.67	5.87	246	0.60	252	100mL/min
0950	0.1	18.96	19.95	5.74	5.85	189	0.61	246	W.L not Stable,
0955	0.3	19.11	20.56	5.80	5.81	144	0.52	240	Increasing head.
1000	0.4	19.50	20.58	5.84	5.72	78.4	0.35	179	
1005	0.5	19.51	20.68	5.84	5.83	66.1	0.37	95	
1010	0.6	19.53	21.09	5.85	5.84	89.8	0.41	66	
1015	0.7	19.54	21.27	5.86	5.86	87.8	0.40	56	
1020	0.8	19.55	21.60	5.86	5.84	80.7	0.38	52	
1025	0.9	19.56	21.89	5.87	5.74	70.6	0.36	57	
1030	1.0	19.56	22.10	5.85	5.70	62.1	0.34	64	
1035	1.1	19.56	22.33	5.87	5.67	59.4	0.34	56	
1040	1.2	19.56	22.56	5.87	5.61	59.7	0.33	46	
1045	1.3	19.56	22.74	5.83	5.56	56.7	0.31	54.3	
		Parameters Stable							

Sample Information

SAMPLE DATE: 10/6/20
SAMPLE TYPE: grab
SAMPLE MATRIX: GW
SAMPLING PERSONNEL: M. Book
SPLIT SAMPLES OBTAINED BY: —
SAMPLING METHOD: low-flow with parameter stabilization
SAMPLE TEMP/pH/EC/TURB/DO: See measurements above
SAMPLE ID(s): Artesia-MW36-100620
DUPLICATE/BLANK SAMPLE ID(s): —
NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.):

Sample ID	Sample Time	Sample Containers No./Volume/Type	Preservatives (ice, acids,)	Analytical Method	Laboratory	
See Above ↓	1050	3 40 mL VOA	HCL, ice	8260B	TestAmerica/HOU	
	1050	1 L poly	ice	300	TestAmerica/HOU	

Initials of sampling personnel: MBB

Received by OCD: 4/1/2021 10:42:57 AM
Released to Imaging: 6/9/2021 9:44:58 AM

Page 68 of 1122

ch2m:

PROJECT NUMBER: D3151100, A.CS.EV.AR.20-84-82

WELL ID: MW37

DATE: 10/6/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: Former Dowell Schlumberger Facility Artesia

LOCATION: Artesia, New Mexico

WEATHER (wind/temp/ppt): Sunny, warm

OTHER NOTABLE FIELD CONDITIONS:

INITIAL ORGANIC VAPOR METER READINGS:

INITIAL DEPTH TO WATER: 18.20

TOTAL DEPTH OF WELL: 25.2

SCREENED INTERVAL: 14-24

PURGE VOLUME CALCULATION: (25.2 - 18.20) = 7 x 0.165 = 1.15 x 3 = 3.465 gal

METHOD OF PURGING: Peristaltic Pump

DISPOSITION OF DISCHARGE WATER: Into P&T system

MONITORING EQUIPMENT USED: Horiba U-52, ~~MultiRAE~~, Water Level Indicator

Well Purging Information

Time	Total volume (gals)	DTW (ft btoc)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO	ORP	Remarks (color, odor, sheen, sediment, etc.)
0821	—	18.20	Start purge						WL
0824	0.0	—	16.15	6.19	5.600	3.7	~~5.71~~ 0.69	253	start of H2O
0829	0.25	18.62	19.60	6.91	~~2375.54~~	5.9	0.00	237	
0834	0.75	18.64	19.91	6.90	5.44	5.6	0.00	215	
0839	1.25	18.64	20.00	6.88	5.33	6.9	0.00	82	
0844	1.6	18.64	19.97	6.89	5.37	7.7	0.00	97	
0849	2.0	18.64	20.00	6.89	5.42	7.1	0.00	140	
~~0854~~ 0854	2.25	18.64	20.07	6.89	5.46	6.7	0.00	162	
0859	2.5	18.64	20.15	6.88	5.40	6.4	0.00	189	Sample stabilization
0904									
0909									

Sample Information

SAMPLE DATE: 10/6/20

SAMPLE TYPE: grab

SAMPLE MATRIX: GW

SAMPLING PERSONNEL: A Forsberg

SPLIT SAMPLES OBTAINED BY: NA

SAMPLING METHOD: low-flow with parameter stabilization

SAMPLE TEMP/pH/EC/TURB/DO: See measurements above

SAMPLE ID(s): ARTESIA-MW37-100620

DUPLICATE/BLANK SAMPLE ID(s): NA

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.):

Sample ID	Sample Time	Sample Containers No./Volume/Type	Preservatives (ice, acids.)	Analytical Method	Laboratory	
see above	1000	3 40 mL VOA	HCL, ice	8260B	TestAmerica/HOU	
		1 L poly	ice	300	TestAmerica/HOU	sulfate

Initials of sampling personnel: AF

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 69 of 1122

ch2m:

PROJECT NUMBER D3151100,A.CS.EV.WR.20-09-02 | WELL ID MW-38 | DATE 10/6/20

GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT Former Dowell Schlumberger Facility Artesia | LOCATION Artesia, New Mexico

WEATHER (wind/temp/ppt): | OTHER NOTABLE FIELD CONDITIONS

INITIAL ORGANIC VAPOR METER READINGS:

INITIAL DEPTH TO WATER: 18.45 | TOTAL DEPTH OF WELL 24.96 | SCREENED INTERVAL 14-24

PURGE VOLUME CALCULATION: (24.96-18.45)=6.51 x 0.165 = 1.075 x 3 = 3.25 gallons

METHOD OF PURGING: Peristaltic Pump

DISPOSITION OF DISCHARGE WATER: Into P&T system

MONITORING EQUIPMENT USED: Horiba U-52, MultiRAE, Water Level Indicator

Well Purging Information

Time	Total volume (gals)	DTW (ft btoc)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO	ORP	Remarks (color, odor, sheen, sediment, etc.)
0920	start purge								
0922	0.00	18.71	20.32	7.02	5.64	0.0	0.00	-35	start of H_2O
0927	0.5	19.15	20.49	6.93	5.47	0.0	0.00	-131	turn down pump
0932	0.75	19.31	20.51	6.92	5.43	0.0	0.00	-141	
0937	1.00	19.53	20.58	6.91	5.38	0.0	0.00	-133	
0942	1.5	19.69	20.69	6.90	5.36	0.0	0.00	-122	
0947 0952	2.0	19.65	20.85	6.87	5.37	0.0	0.00	-116	
1006	2.5	19.62	21.04	6.87	5.36	0.0	0.00	-111	Sample Stabilization
1016									

Sample Information

SAMPLE DATE 10/6/20 | SAMPLE TYPE grab | SAMPLE MATRIX GW

SAMPLING PERSONNEL A Forsberg | SPLIT SAMPLES OBTAINED BY NA

SAMPLING METHOD low-flow with parameter stabilization | SAMPLE TEMP/pH/EC/TURB/DO See measurements above

SAMPLE ID(s) ARTESIA-MW38-100620 | DUPLICATE/BLANK SAMPLE ID(s) NA

NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.)

Sample ID	Sample Time	Sample Containers No./Volume/Type	Preservatives (ice, acids,)	Analytical Method	Laboratory	
See above	1008	3 40 mL VOA	HCL, ice	8260B	TestAmerica/HOU	
		1 L poly	ice	300	TestAmerica/HOU	sulfate

Initials of sampling personnel AF

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Appendix C
NMOSE Well Installation and Plugging and Abandonment Permits

Page 71 of 1122

John R. D Antonio, Jr., P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 681270
File Nbr: RA 12969

Nov. 04, 2020

SCHLUMBERGER TECHNOLOGY CORP
DAWN GREENING
121 INDUSTRIAL BLVD
SUGAR LAND, TX 77478

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

* If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.

* If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.

* The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.

* This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Andrew Dennis
(575)622-6521

Enclosure

explore

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 72 of 1122

File No. RA-12969

NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: http://www.ose.state.nm.us/

Purpose:	☐ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well (Pump test)	☐ Construction Site/Public Works Dewatering	☐ Other(Describe):
☒ Monitoring Well	☐ Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

☒ Temporary Request - Requested Start Date: 11/02/2020 Requested End Date: 11/02/2021

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

1. APPLICANT(S)

Name: Dawn Greening	Name:
Contact or Agent: check here if Agent ☐ Schlumberger Technology Corporation	Contact or Agent: check here if Agent ☐
Mailing Address: 121 Industrial Blvd	Mailing Address:
City: Sugar Land	City:
State: TX Zip Code: 77478	State: Zip Code:
Phone: (318) 393-6480 ☐ Home ☐ Cell Phone (Work):	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional): DGreening@slb.com	E-mail (optional):

USE 3 NMSV 4 2020 PM 0:40

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 11/17/16

File No.: RA-12969	Trn. No.: 681270	Receipt No.:
Trans Description (optional): RA-12969 POD1-10		
Sub-Basin: RA	PCW/LOG Due Date: 11/4/21	

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 73 of 1122

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☐ NM State Plane (NAD83) (Feet)
☐ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

■ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
SB-38	-104.389785	32.861274	NE1/4 SW1/4 Section 4 T16S R26E
SB-39	-104.289310	32.861502	NE ¼ SW ¼ Section 4 T16S R26E
SB-40	-104.388478	32.861530	NE ¼ SW ¼ Section 4 T16S R26E
SB-41	-104.388033	32.861249	NE ¼ SW ¼ Section 4 T16S R26E
SB-42	-104.387613	32.860995	NE ¼ SW ¼ Section 4 T16S R26E

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ■ Yes ☐ No **If yes, how many** 5

Other description relating well to common landmarks, streets, or other:
Former Dowell Schlumberger Facility, 507 East Richey Avenue, Artesia, NM 88210

Well is on land owned by: Artesia Alfalfa Growers Association

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ■ Yes ☐ No
If yes, how many 5

Approximate depth of well (feet): 30	Outside diameter of well casing (inches):
Driller Name: Talon LPE	Driller License Number: WD-1800

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

OSE DIT NOV 4 2020 AM 10:40

For Item 4 - The monitoring wells will be temporary grab groundwater sampling points collected from direct-push technology (DPT) boreholes. The temporary sampling points are required to provide data related to remediation of groundwater that contains chlorinated solvents in exceedance of New Mexico Water Quality Control Commission standards. The monitoring event will occur one time and boreholes will be abandoned immediately after sample collection.

FOR OSE INTERNAL USE — Application for Permit, Form WR-07

File No.: RA-12969	Trn No.: 681270

Received by OCD: 4/1/2021 10:42:57 AM
Released to Imaging: 6/9/2021 9:44:58 AM

Page 74 of 1122

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory:	**Pollution Control and/or Recovery:**	**Construction De-Watering:**	**Mine De-Watering:**
☐ Include a description of any proposed pump test, if applicable.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge.	☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring: ■ Include the reason for the monitoring well, and, ■ The duration of the planned monitoring.	☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Dawn Greening
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Applicant Signature Dawn Greening

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 04th day of November 20 20, for the State Engineer,

John R. D'Antonio Jr., P.E., State Engineer

By: Juan Hern[illegible]
Signature Print

Title: Water Resources Manager I
Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: RA-12969 Trn No.: 681270

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 75 of 1122

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT 1
POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a: ☐ Move-From Point of Diversion(s) ☐ Move-To Point of Diversion(s)	**b. Information on Attachment(s):** Number of points of diversion involved in the application: 5 Total number of pages attached to the application: 1

☐ **Surface Point of Diversion** **OR** ☒ **Well**

Name of ditch, acequia, or spring:	
Stream or water course:	
Tributary of:	

c. Location (Required):
Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), **or** Lat/Long (WGS84)

NM State Plane (NAD83) (feet) NM West Zone ☐ NM Central Zone ☐ NM East Zone ☐	UTM (NAD83) (meters) Zone 13N ☐ Zone 12N ☐	☒ Lat/Long– (WGS84) 1/10th of second	OTHER (allowable only for move-from descriptions - see application form for format) ☐ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant
POD Number: SB-43	X or Longitude -104.388852	Y or Latitude 32.861932	Other Location Description:
POD Number: SB-44	X or Longitude -104.388172	Y or Latitude 32.861729	Other Location Description:
POD Number: SB-45	X or Longitude -104.387637	Y or Latitude 32.861439	Other Location Description:
POD Number: SB-46	X or Longitude -104.388444	Y or Latitude 32.862126	Other Location Description:
POD Number: SB-47	X or Longitude -104.387597	Y or Latitude 32.861852	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:

DSE DIT NOV 4 2020 AM10:40

FOR OSE INTERNAL USE

Form wr-08
POD DESCRIPTIONS - ATTACHMENT 1

File Number: RA-12969	Trn Number: 681270
Trans Description (optional):	

Received by OCD: 4/1/2021 10:42:57 AM
Released to Imaging: 6/9/2021 9:44:58 AM

Page 76 of 1122

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

17-1A Depth of the well shall not exceed the thickness of the valley fill.

17-4 No water shall be appropriated and beneficially used under this permit.

17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

Trn Desc: RA 12969 POD1-10

File Number: RA 12969
Trn Number: 681270

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 77 of 1122

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.

17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.

17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

17-Q The State Engineer retains jurisdiction over this permit.

17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

LOG The Point of Diversion RA 12969 POD1 must be completed and the Well Log filed on or before 11/04/2021.

LOG The Point of Diversion RA 12969 POD10 must be completed and the Well Log filed on or before 11/04/2021.

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 78 of 1122

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion RA 12969 POD2 must be completed and the Well Log filed on or before 11/04/2021.

LOG The Point of Diversion RA 12969 POD3 must be completed and the Well Log filed on or before 11/04/2021.

LOG The Point of Diversion RA 12969 POD4 must be completed and the Well Log filed on or before 11/04/2021.

LOG The Point of Diversion RA 12969 POD5 must be completed and the Well Log filed on or before 11/04/2021.

LOG The Point of Diversion RA 12969 POD6 must be completed and the Well Log filed on or before 11/04/2021.

LOG The Point of Diversion RA 12969 POD7 must be completed and the Well Log filed on or before 11/04/2021.

LOG The Point of Diversion RA 12969 POD8 must be completed and the Well Log filed on or before 11/04/2021.

LOG The Point of Diversion RA 12969 POD9 must be completed and the Well Log filed on or before 11/04/2021.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected:
Formal Application Rcvd: 11/04/2020 Pub. of Notice Ordered:
Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 04 d[illegible] A.D., 2020

John R. D Antonio, Jr. P.E. , St[illegible]

By: JUAN HERNANDEZ

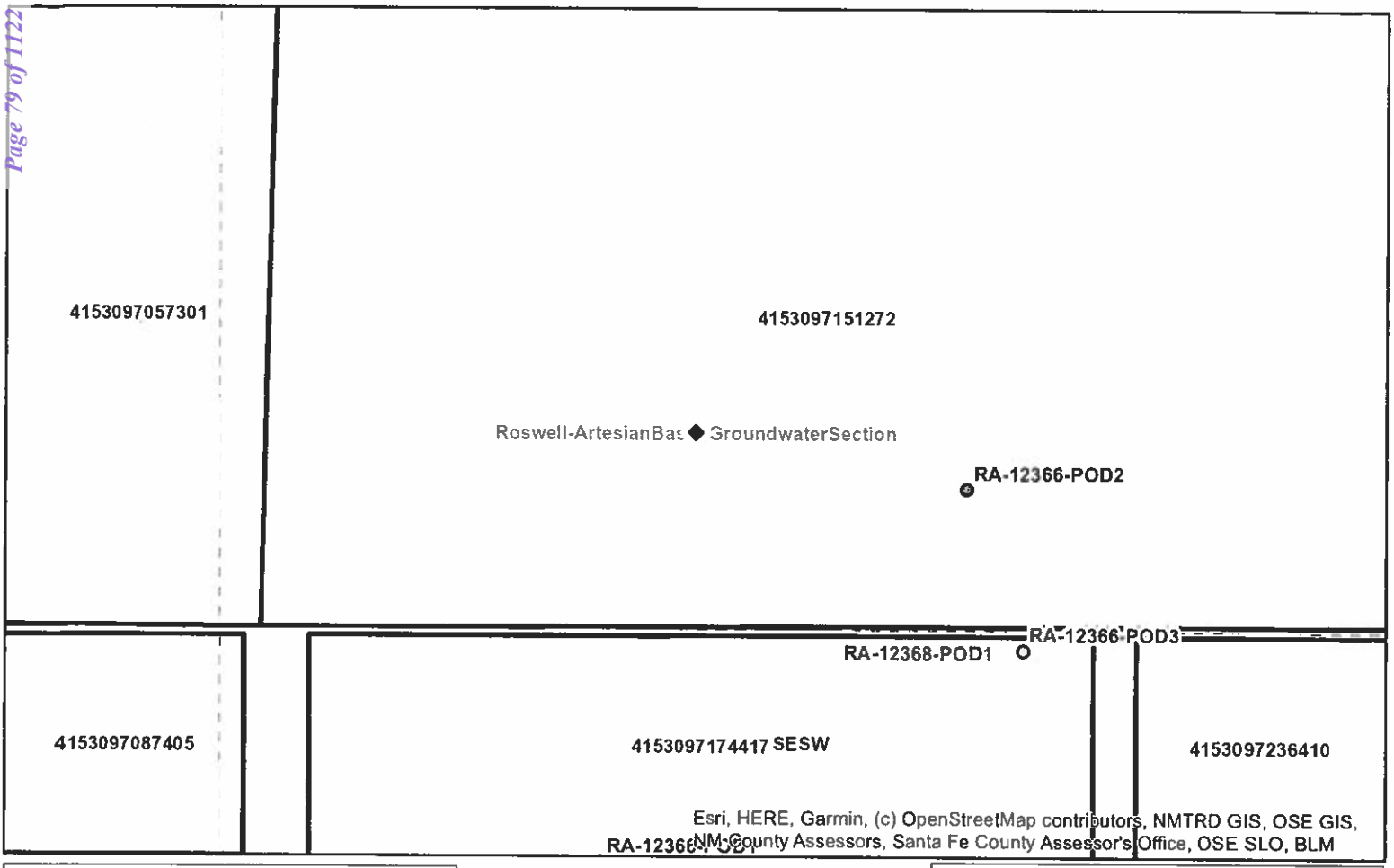
Trn Desc: RA 12969 POD1-10

File Number: RA 12969
Trn Number: 681270

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 79 of 1122



Coordinates

UTM - NAD 83 (m) - Zone 13
Easting 557094.109
Northing 3636072.315

State Plane - NAD 83 (f) - Zone E
Easting 524006.580
Northing 677067.571

Degrees Minutes Seconds
Latitude 32 : 51 : 40.586400
Longitude -104 : 23 : 23.226000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:2,257

ft
0 45 90 180

N

A. Dennis 11/4/2020

Spatial Information

County: Eddy
Groundwater Basin: Roswell
Abstract Area:RA

Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
SESWNESW Qtr of Sec 04 of 017S 026E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 4153097151272
Parcel Owner: ARTESIA ALFALFA
Address:N FREEMAN AVENUE null null

Legal: Subd: BOWMAN LAND DIVISION #1 Tract: 1 TRACT 1 MAP# 51A-B1-1 CAB# 3-671-1 LOC E OF 2106 N FREEMAN AVENUE ODD SHAPE TRACT

POD Information

Owner: DAWN GREENING
File Number: RA-12969 POD1
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

◆ Coord Search Location

GIS WATERS PODs

o Active
o Pending

WRAB Abstract Project Areas

Eddy County Parcels 2020

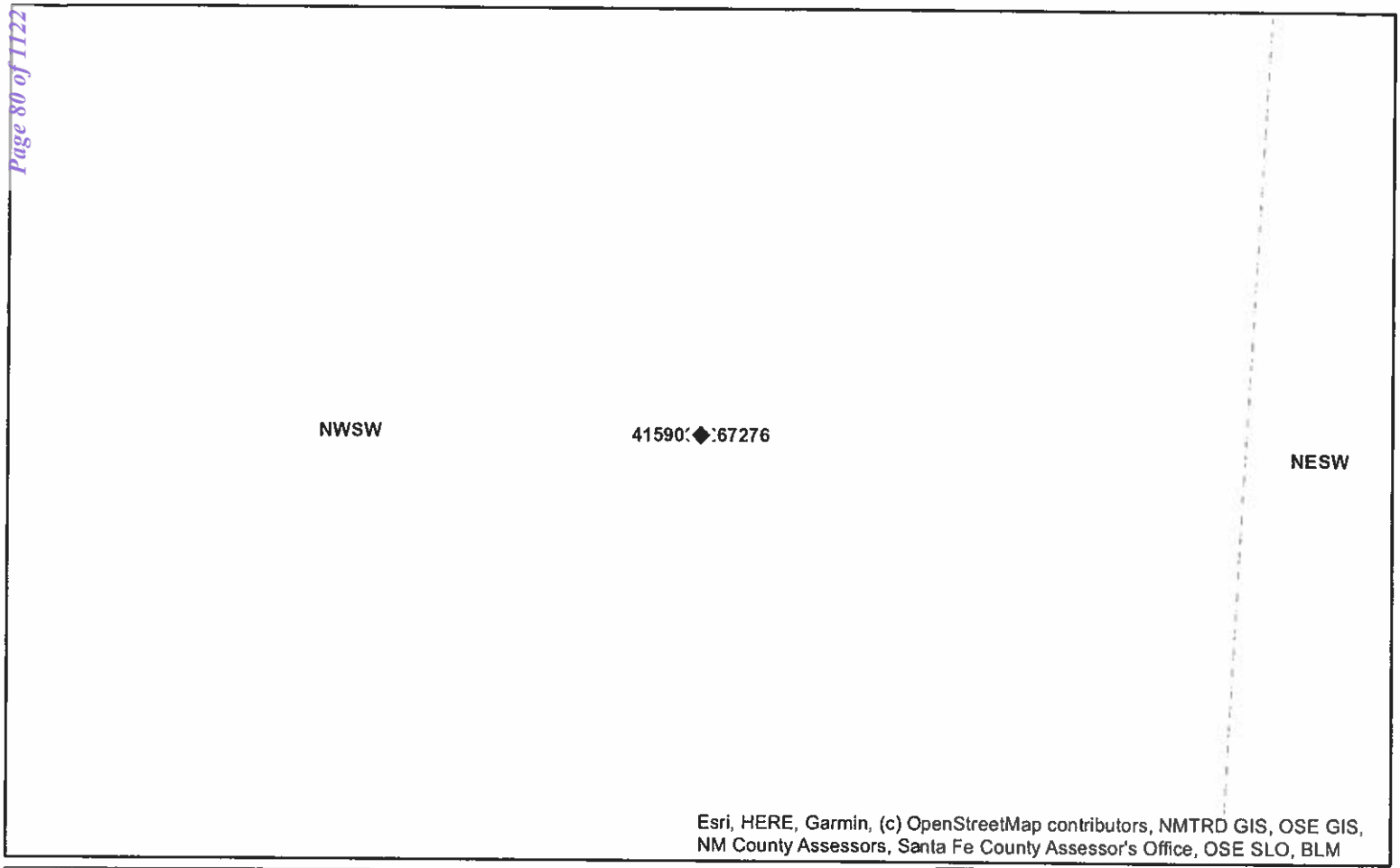
Hydro Survey Boundary

<all other values>

None
All
Partial
Hydro Survey Footprints
Sections

BLM Land Grant
PLSSTownship
PLSSFirstDiv...
PLSSSecond...

Received by OCD: 4/1/2021 10:42:57 AM
Released to Imaging: 6/9/2021 9:44:58 AM



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 566494.814

Northing 3636156.393

State Plane - NAD 83 (f) - Zone E

Easting 554857.935

Northing 677148.707

Degrees Minutes Seconds

Latitude 32 : 51 : 41.407200

Longitude -104 : 17 : 21.516000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:2,257

ft

0 45 90 180

N

A. Dennis 11/4/2020

Spatial Information

County: Eddy

Groundwater Basin: Roswell

Abstract Area: RA

Land Grant: Not in Land Grant

Restrictions:

NA

PLSS Description

NWSENWSW Qtr of Sec 04 of 017S 027E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 4159097267276

Parcel Owner: BUREAU OF LAND

Address: null null null

Legal: Quarter: NE S: 4 T: 17S R: 27E Quarter: NW S: 4 T: 17S R: 27E Quarter: SW S: 4 T: 17S R: 27E Quarter: SE S: 4 T: 17S R: 27E ALL MAP# 91-4 LOC ARTESIA EXEMPT

POD Information

Owner: DAWN GREENING

File Number: RA-12969 POD2

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

◆ Coord Search Location

WRAB Abstract Project Areas

☐ Eddy County Parcels 2020

Hydro Survey Boundary

☐ <all other values>

☐ None

☐ All

Partial

☐ Hydro Survey Footprints

☐ Sections

BLM Land Grant

☐ PLSSTownship

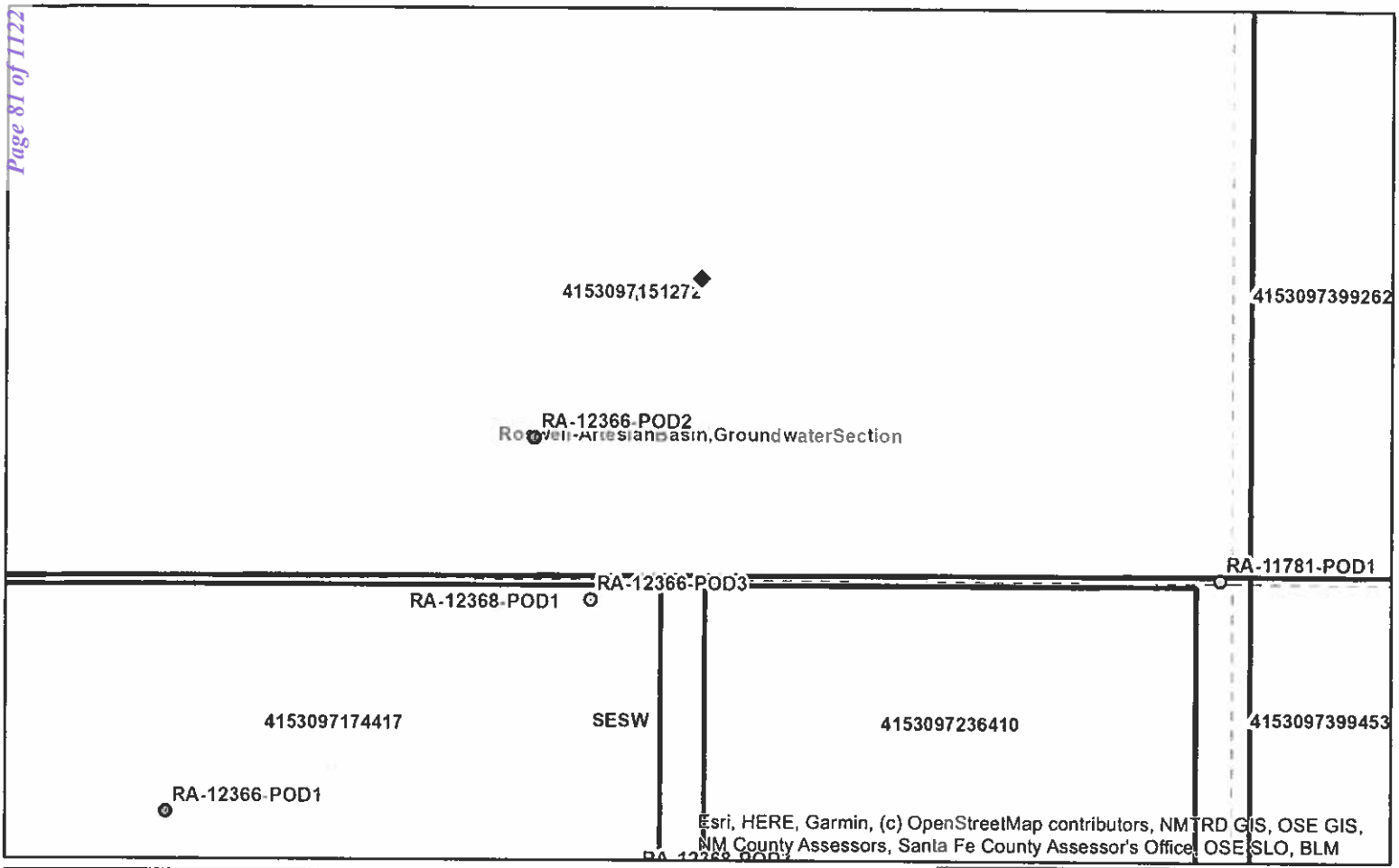
☐ PLSSFirstDiv...

☐ PLSSSecond...

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 81 of 1122



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 557216.233
Northing 3636101.402

State Plane - NAD 83 (f) - Zone E

Easting 524407.950
Northing 677160.496

Degrees Minutes Seconds

Latitude 32 : 51 : 41.508000
Longitude -104 : 23 : 18.520800

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:2,257

ft
0 45 90 180

N

A. Dennis 11/4/2020

Spatial Information

County: Eddy
Groundwater Basin: Roswell
Abstract Area:RA

Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
SWSENESW Qtr of Sec 04 of 017S 026E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 4153097151272
Parcel Owner: ARTESIA ALFALFA
Address:N FREEMAN AVENUE null null

Legal: Subd: BOWMAN LAND DIVISION #1 Tract: 1 TRACT 1 MAP# 51A-B1-1 CAB# 3-671-1 LOC E OF 2106 N FREEMAN AVENUE ODD SHAPE TRACT

POD Information

Owner: DAWN GREENING
File Number: RA-12969 POD3
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

◆ Coord Search Location

GIS WATERS PODs

- Active
- Pending

WRAB Abstract Project Areas

- Eddy County Parcels 2020

Hydro Survey Boundary

- <all other values>

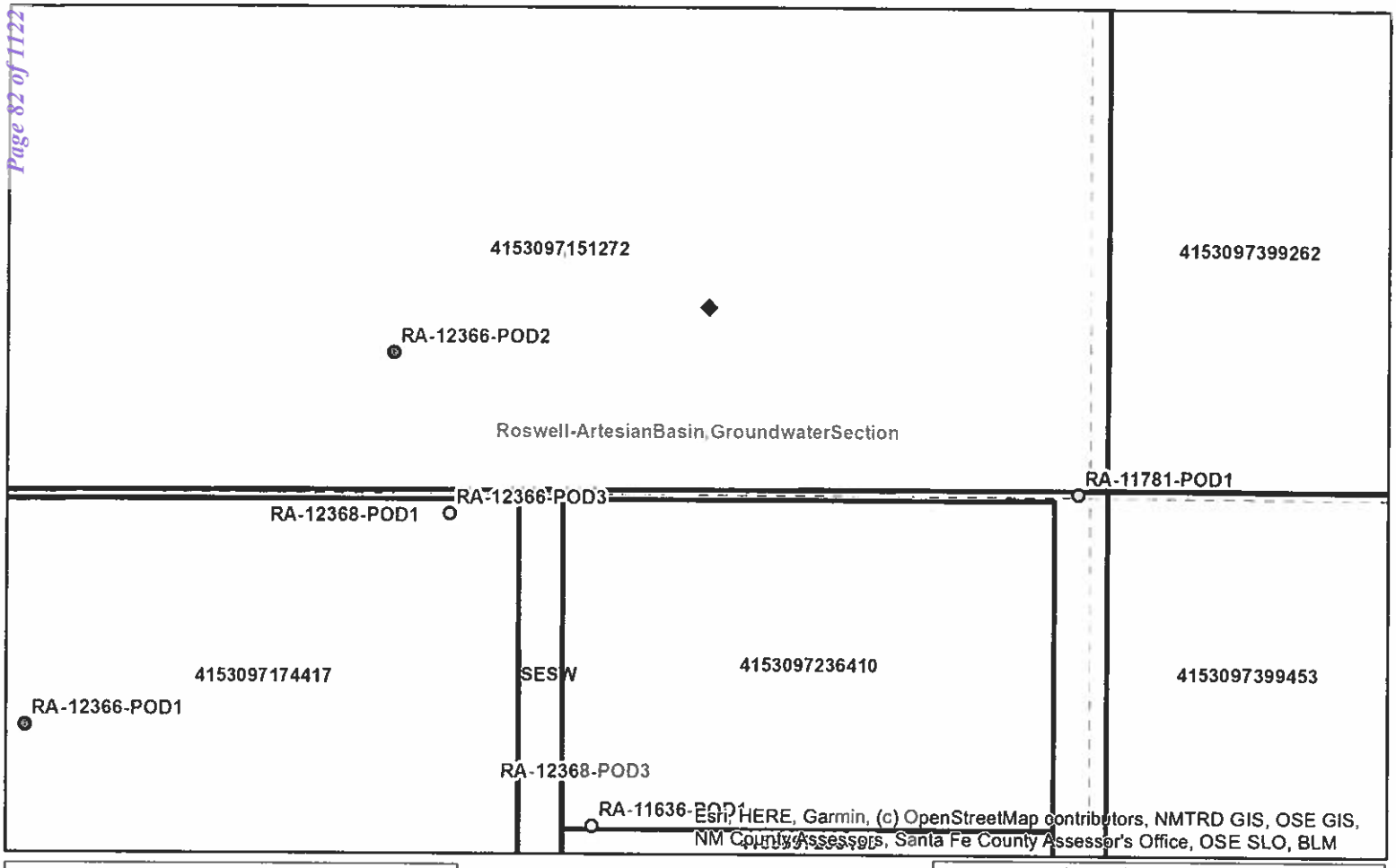
- None
- All
- Partial
- Hydro Survey Footprints
- Sections

BLM Land Grant

- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 557258.049
Northing 3636070.492

State Plane - NAD 83 (f) - Zone E

Easting 524544.536
Northing 677058.192

Degrees Minutes Seconds

Latitude 32 : 51 : 40.496400
Longitude -104 : 23 : 16.918800

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:2,257

ft
0 45 90 180

N

A. Dennis 11/4/2020

Spatial Information

County: Eddy
Groundwater Basin: Roswell
Abstract Area: RA

Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
SWSENESW Qtr of Sec 04 of 017S 026E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 4153097151272
Parcel Owner: ARTESIA ALFALFA
Address: N FREEMAN AVENUE null null

Legal: Subd: BOWMAN LAND DIVISION #1 Tract: 1 TRACT 1 MAP# 51A-B1-1 CAB# 3-671-1 LOC E OF 2106 N FREEMAN AVENUE ODD SHAPE TRACT

POD Information

Owner: DAWN GREENING
File Number: RA-12969 POD4
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

◆ Coord Search Location

OSE WATERS PODs

o Active
o Pending

WRAB Abstract Project Areas

Eddy County Parcels 2020

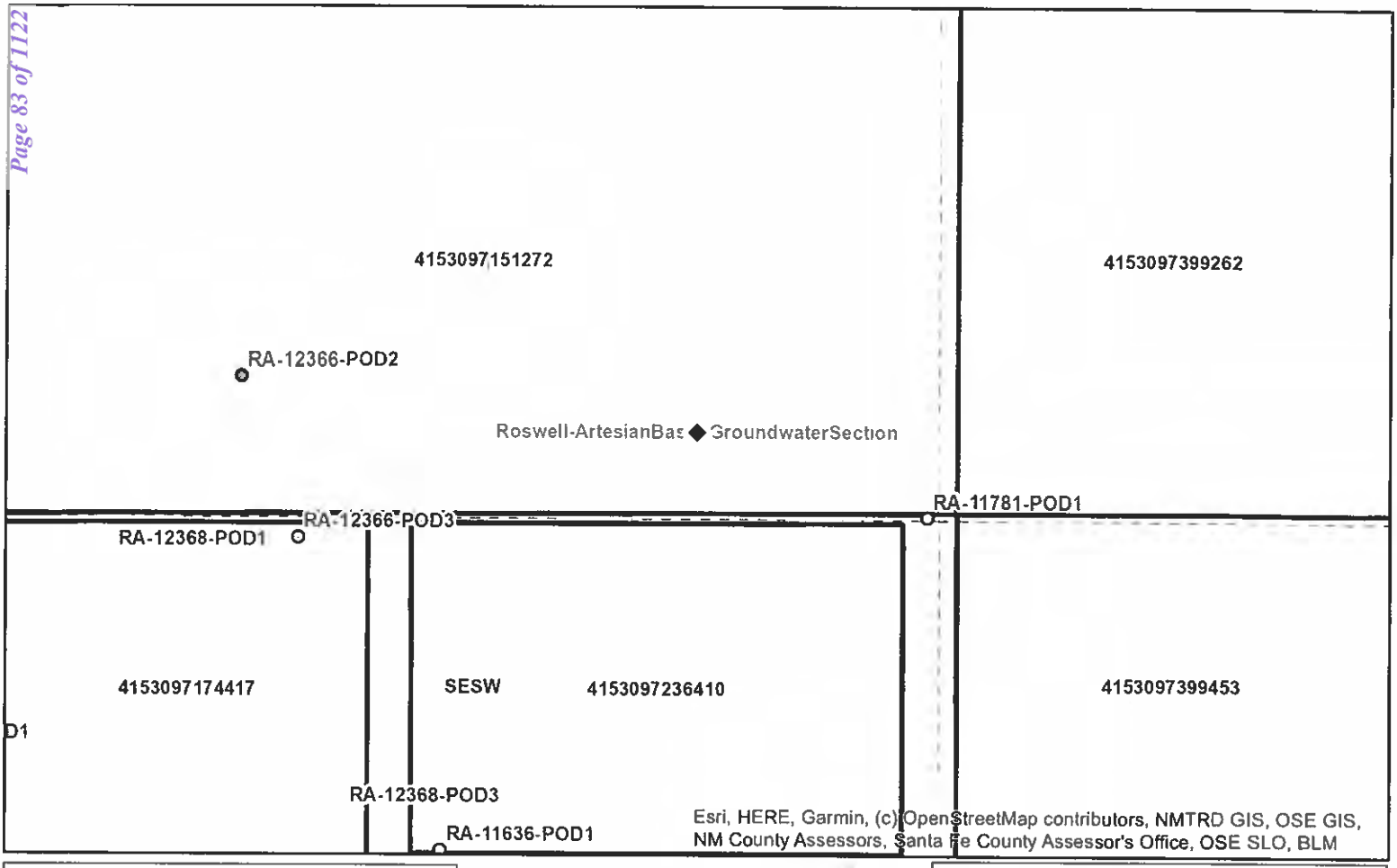
Hydro Survey Boundary

<all other values>

None
All
Partial
Hydro Survey Footprints
Sections

BLM Land Grant
PLSSTownship
PLSSFirstDiv...
PLSSSecond...

Received by OCD: 4/1/2021 10:42:57 AM
Released to Imaging: 6/9/2021 9:44:58 AM



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 557297.509

Northing 3636042.561

State Plane - NAD 83 (f) - Zone E

Easting 524673.452

Northing 676965.716

Degrees Minutes Seconds

Latitude 32 : 51 : 39.582000

Longitude -104 : 23 : 15.406800

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:2,257

ft

0 45 90 180

N

A. Dennis 11/4/2020

Spatial Information

County: Eddy

Groundwater Basin: Roswell

Abstract Area: RA

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description

SESENESW Qtr of Sec 04 of 017S 026E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 4153097151272

Parcel Owner: ARTESIA ALFALFA

Address: N FREEMAN AVENUE null null

Legal: Subd: BOWMAN LAND DIVISION #1 Tract: 1 TRACT 1 MAP# 51A-B1-1 CAB# 3-671-1 LOC E OF 2106 N FREEMAN AVENUE ODD SHAPE TRACT

POD Information

Owner: DAWN GREENING

File Number: RA-12969 POD5

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

◆ Coord Search Location

S WATERS
ODs

Active

Pending

WRAB Abstract Project Areas

Eddy County Parcels 2020

Hydro Survey Boundary

<all other values>

None

All

Partial

Hydro Survey Footprints

Sections

BLM Land Grant

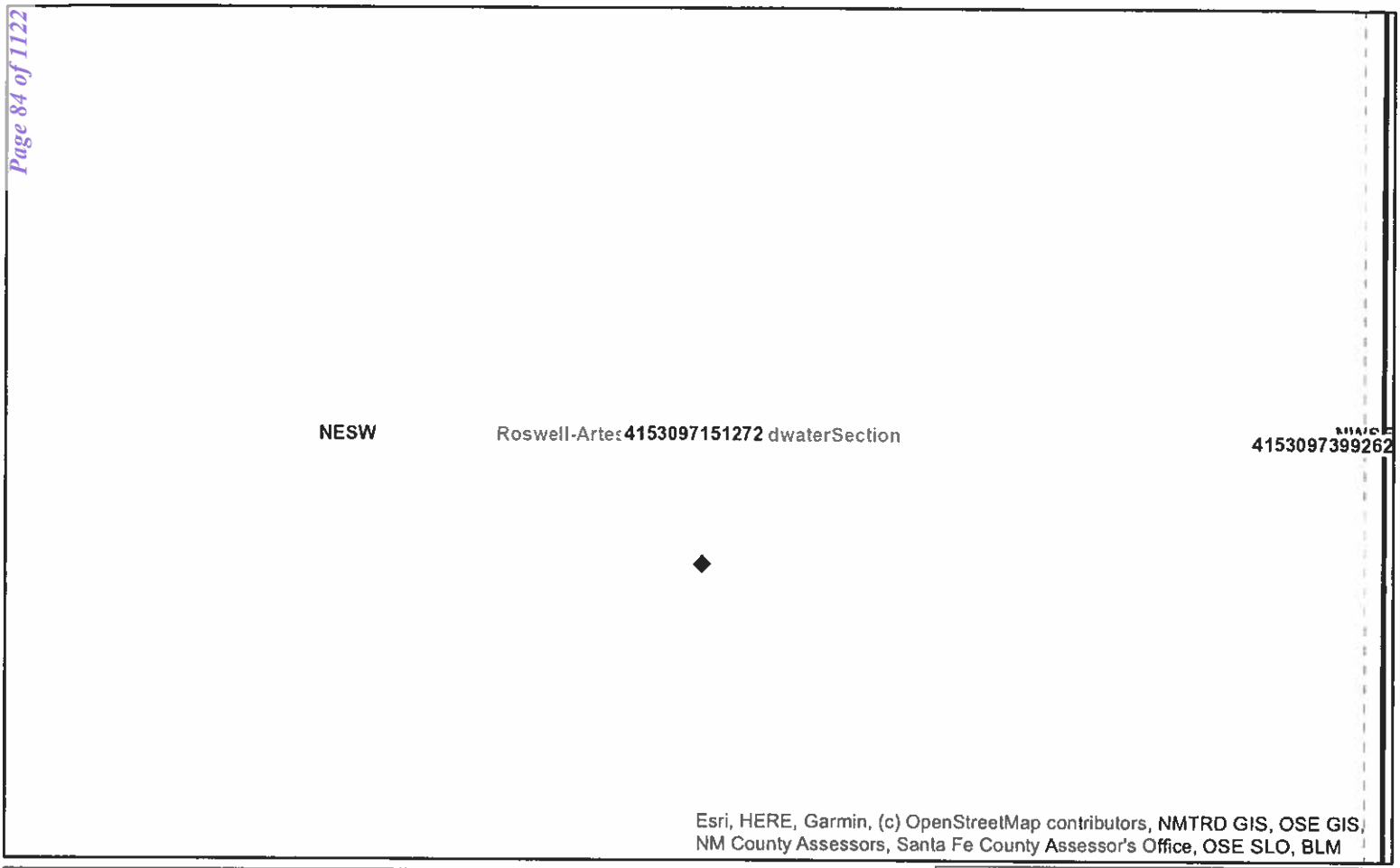
PLSSTownship

PLSSFirstDiv...

PLSSSecond...

Received by OCD: 6/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 557180.982

Northing 3636145.766

State Plane - NAD 83 (f) - Zone E

Easting 524293.188

Northing 677306.811

Degrees Minutes Seconds

Latitude 32 : 51 : 42.955200

Longitude -104 : 23 : 19.867200

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:2,257

ft

0 45 90 180

N

A. Dennis 11/4/2020

Office of the State Engineer
Interstate Stream Commission

Reproduction of this map has been made by the New Mexico Office of the State Engineer (OSE) to verify that this map accurately represents a source data used in the preparation. However, a degree of error is inherent in all maps, and there may be inaccuracies and errors in this map. The OSE makes no warranty, guarantee or representation regarding the accuracy, reliability, timeliness, completeness, currentness, or quality of any data provided herein. The OSE further makes no warranty, guarantee or representation regarding the use or the results of the use of the data with respect to correctness, accuracy, reliability, timeliness, or otherwise. The entire risk as to the results and performance of any data obtained from use of this map is assumed by the recipient. The OSE does not accept liability for any damages or loss incurred as a result of any use or reliance upon the data contained on this map by the recipient or any third party.

Spatial Information

County: Eddy

Groundwater Basin: Roswell

Abstract Area:RA

Land Grant:
Not in Land Grant

Restrictions:

NA

PLSS Description

NWSENESW Qtr of Sec 04 of 017S 026E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 4153097151272

Parcel Owner: ARTESIA ALFALFA

Address:N FREEMAN AVENUE null null

Legal: Subd: BOWMAN LAND DIVISION #1 Tract: 1 TRACT 1 MAP# 51A-B1-1 CAB# 3-671-1 LOC E OF 2106 N FREEMAN AVENUE ODD SHAPE TRACT

POD Information

Owner: DAWN GREENING

File Number: RA-12969 POD6

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

◆ Coord Search Location

WRAB Abstract Project Areas

☐ Eddy County Parcels 2020

Hydro Survey Boundary

☐ <all other values>

☐ None

☐ All

Partial

☐ Hydro Survey Footprints

Sections

BLM Land Grant

☐ PLSSTownship

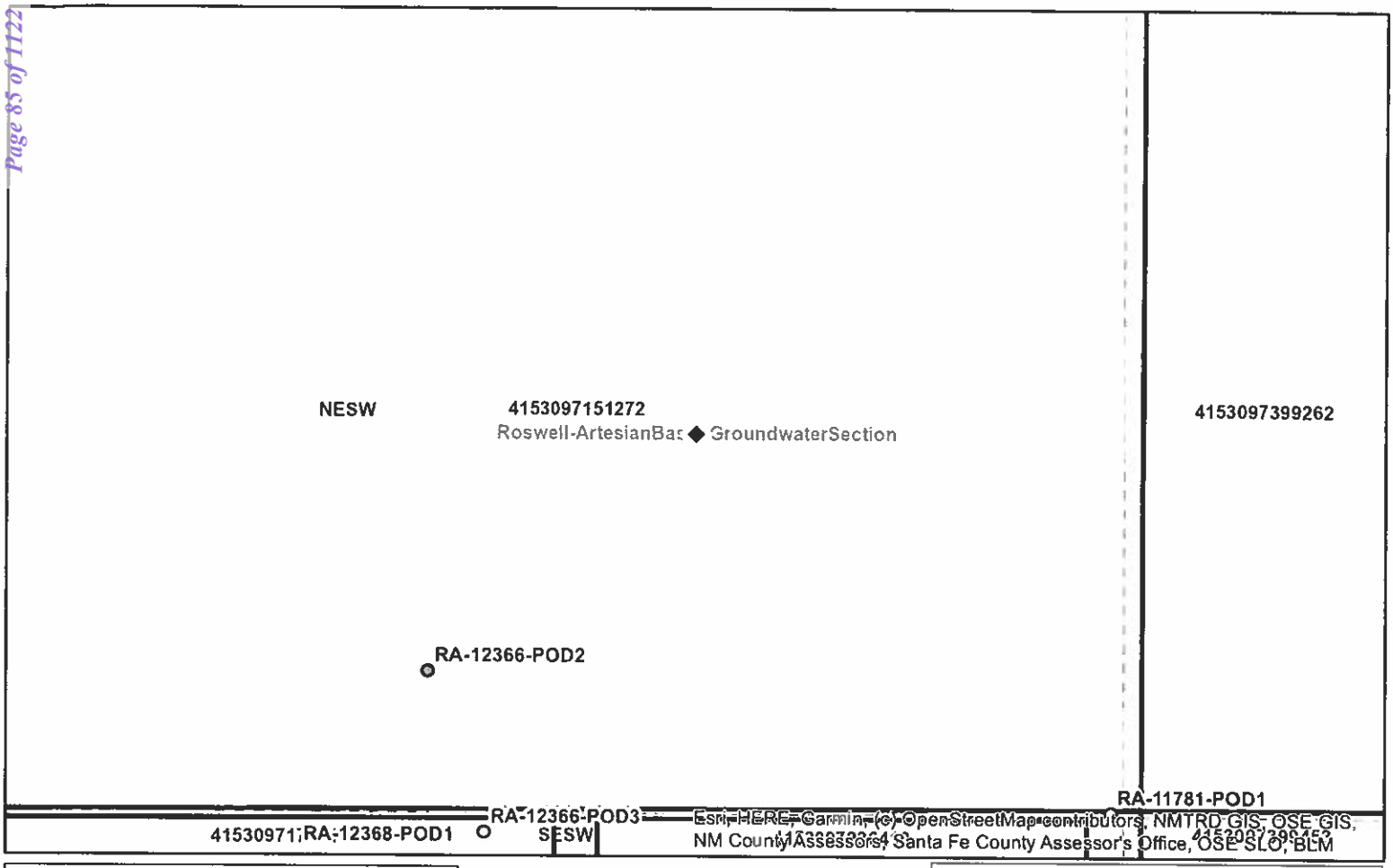
☐ PLSSFirstDiv...

PLSSSecond...

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 85 of 1122



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 557244.736

Northing 3636123.629

State Plane - NAD 83 (f) - Zone E

Easting 524501.946

Northing 677232.847

Degrees Minutes Seconds

Latitude 32 : 51 : 42.224400

Longitude -104 : 23 : 17.419200

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:2,257

ft

0 45 90 180

N

A. Dennis 11/4/2020

Office of the State Engineer

Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE/ISC) to verify the information contained in this map. The data used in its preparation, however, is a collection of many different sources and there may be errors in the data and errors in maps resulting from misinterpretation, positional inaccuracy, development methodology, interpretation of source data, and other circumstances.

The New Mexico OSE/ISC makes no warranty, representation or guarantee as to the content, sequence, accuracy, timeliness, or completeness of any of the data provided and assumes no responsibility for any misinterpretation and/or misuse of the data contained on this map. The New Mexico OSE/ISC shall not be liable for any direct, indirect, special, incidental, or consequential damages arising from the use of data contained on this map. The New Mexico OSE/ISC reserves the right to correct, update, modify, or replace any of the data contained on this map without prior notice.

Spatial Information

County: Eddy

Groundwater Basin: Roswell

Abstract Area:RA

Land Grant:
Not in Land Grant

Restrictions:

NA

PLSS Description

NWSENESW Qtr of Sec 04 of 017S 026E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 4153097151272

Parcel Owner: ARTESIA ALFALFA

Address:N FREEMAN AVENUE null null

Legal: Subd: BOWMAN LAND DIVISION #1 Tract: 1 TRACT 1 MAP# 51A-B1-1 CAB# 3-671-1 LOC E OF 2106 N FREEMAN AVENUE ODD SHAPE TRACT

POD Information

Owner: DAWN GREENING

File Number: RA-12969 POD7

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

◆ Coord Search Location

GIS WATERS PODs

o Active

o Pending

WRAB Abstract Project Areas

☐ Eddy County Parcels 2020

Hydro Survey Boundary

☐ <all other values>

☐ None

☐ All

Partial

☐ Hydro Survey Footprints

☐ Sections

BLM Land Grant

☐ PLSSTownship

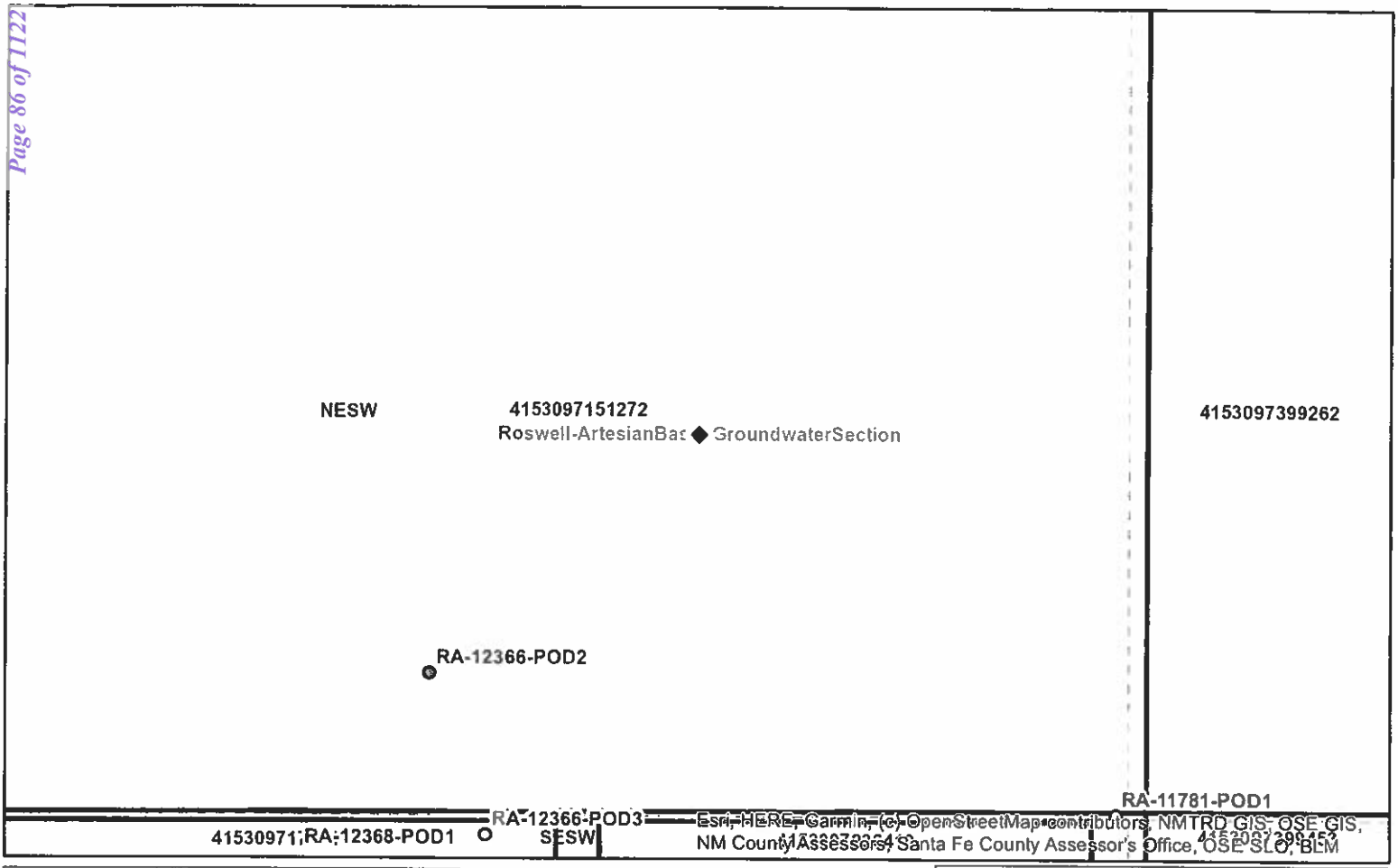
☐ PLSSFirstDiv...

☐ PLSSSecond...

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 86 of 1122



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 557244.736
Northing 3636123.629

State Plane - NAD 83 (f) - Zone E

Easting 524501.946
Northing 677232.847

Degrees Minutes Seconds

Latitude 32 : 51 : 42.224400
Longitude -104 : 23 : 17.419200

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:2,257

ft
0 45 90 180

N

A. Dennis 11/4/2020

Office of the State Engineer
Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their production. However, because of errors in the entry of maps and these maps may contain inaccuracies and errors and are provided without warranty of any kind, whether expressed or implied. The OSE makes no warranty, representation or guarantee as to the content, accuracy, timeliness or completeness of any of the data provided and assumes no liability for any decisions made or actions taken or not taken by the user of these maps in reliance upon any of the information or data contained on the maps, including, but not limited to, any damages arising out of or connected to, any claim that the data or maps are inaccurate, for any person's reliance upon the same or for any improper use of the data or maps.

Spatial Information

County: Eddy
Groundwater Basin: Roswell
Abstract Area:RA

Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
NWSENESW Qtr of Sec 04 of 017S 026E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 4153097151272
Parcel Owner: ARTESIA ALFALFA
Address:N FREEMAN AVENUE null null

Legal: Subd: BOWMAN LAND DIVISION #1 Tract: 1 TRACT 1 MAP# 51A-B1-1 CAB# 3-671-1 LOC E OF 2106 N FREEMAN AVENUE ODD SHAPE TRACT

POD Information

Owner: DAWN GREENING
File Number: RA-12969 POD8
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

◆ Coord Search Location

GIS WATERS PODs

o Active
o Pending

WRAB Abstract Project Areas

☐ Eddy County Parcels 2020

Hydro Survey Boundary

☐ <all other values>

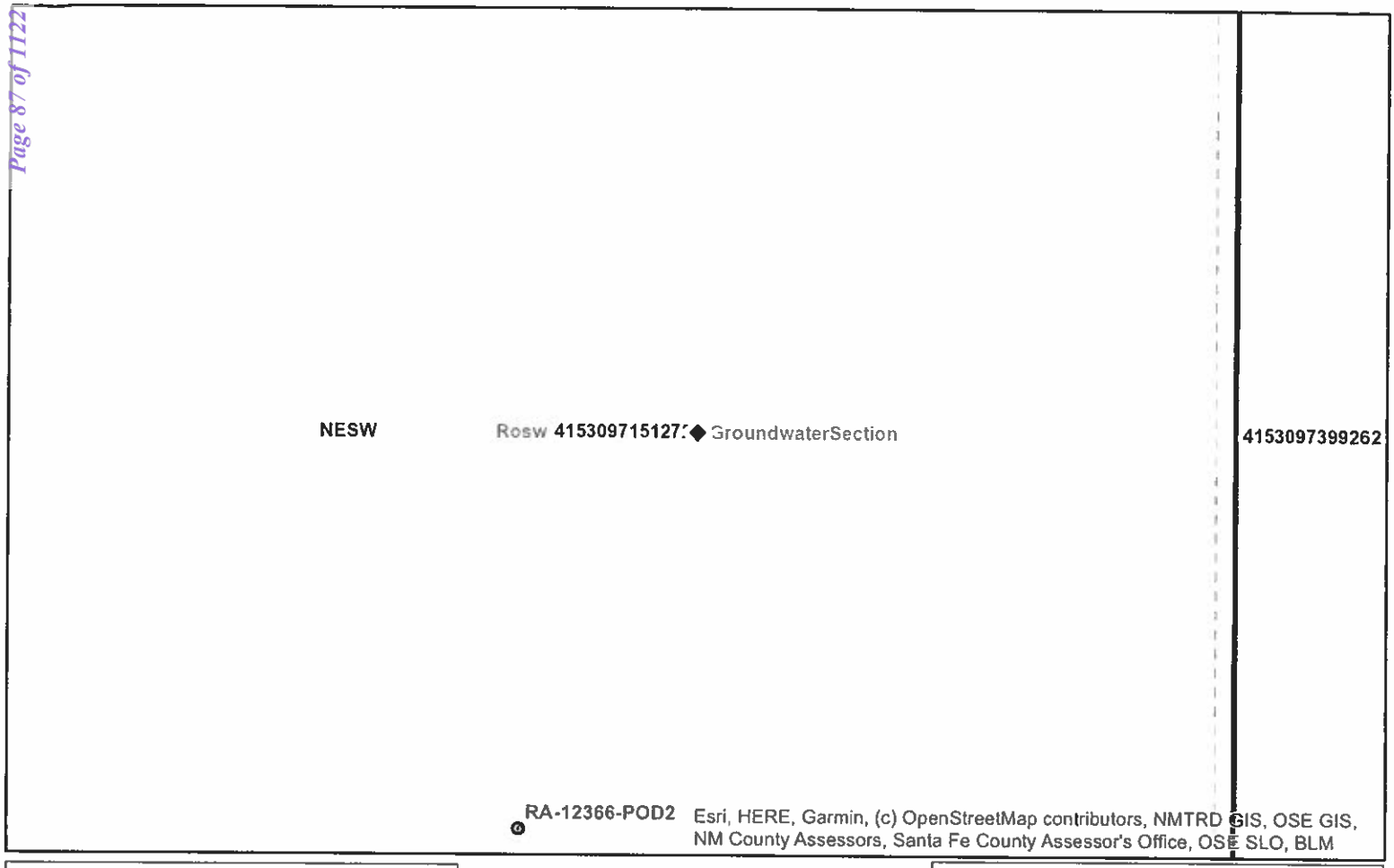
☐ None
☐ All
Partial
☐ Hydro Survey Footprints
☐ Sections

BLM Land Grant

☐ PLSSTownship
☐ PLSSFirstDiv...
☐ PLSSSecond...

Received by OCD: 4/1/2021 10:42:57 AM
Released to Imaging: 6/9/2021 9:44:58 AM

Page 87 of 1122



Coordinates

UTM - NAD 83 (m) - Zone 13
Easting 557219.031
Northing 3636167.493

State Plane - NAD 83 (f) - Zone E
Easting 524418.503
Northing 677377.326

Degrees Minutes Seconds
Latitude 32 : 51 : 43.653600
Longitude -104 : 23 : 18.398400

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:2,257

ft
0 45 90 180

N

A. Dennis 11/4/2020

Spatial Information

County: Eddy
Groundwater Basin: Roswell
Abstract Area:RA

Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
NWSENESW Qtr of Sec 04 of 017S 026E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 4153097151272
Parcel Owner: ARTESIA ALFALFA
Address:N FREEMAN AVENUE null null

Legal: Subd: BOWMAN LAND DIVISION #1 Tract: 1 TRACT 1 MAP# 51A-B1-1 CAB# 3-671-1 LOC E OF 2106 N FREEMAN AVENUE ODD SHAPE TRACT

POD Information

Owner: DAWN GREENING
File Number: RA-12969 POD9
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

◆ Coord Search Location

☐ Eddy County Parcels 2020

OSE WATERS PODs

⊙ Active

WRAB Abstract Project Areas

Hydro Survey Boundary

☐ <all other values>

☐ None

☐ All

Partial

☐ Hydro Survey Footprints

☐ Sections

BLM Land Grant

☐ PLSSTownship

☐ PLSSFirstDiv...

☐ PLSSSecond...

Received by OCD: 6/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Released to Imaging: 6/9/2021 9:44:58 AM

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – ROSWELL OFFICE

OFFICIAL RECEIPT NUMBER: 2 - 42703 DATE: 11/4/20 FILE NO.: Mem #

TOTAL: 150.00 RECEIVED: Fifty DOLLARS CHECK NO.: 928 CASH: _____

PAYOR: Alecca A. Forsberg ADDRESS: 1612 Pablo Dr NE CITY: Albuquerque STATE: NM

ZIP: 87112 RECEIVED BY: CO

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; and **yellow** copy for Water Rights. If a mistake is made, void the original and all copies and submit to Program Support/ASD as part of your daily deposit.

A. Ground Water Filing Fees

___	1. Change of Ownership of Water Right	$ 2.00
___	2. Application to Appropriate or Supplement Domestic 72-12-1 Well	$ 125.00
___	3. Application to Repair or Deepen 72-12-1 Well	$ 75.00
___	4. Application for Replacement 72-12-1 Well	$ 75.00
___	5. Application to Change Purpose of Use 72-12-1 Well	$ 75.00
___	6. Application for Stock Well/Temp. Use	$ 5.00
___	7. Application to Appropriate Irrigation, Municipal, or Commercial Use	$ 25.00
___	8. Declaration of Water Right	$ 1.00
___	9. Application for Additional Point of Diversion Non 72-12-1 Per Well	$ 25.00
___	10. Application to Change Place or Purpose of Use Non 72-12-1 Well	$ 25.00
___	11. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water	$ 50.00
___	12. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water	$ 50.00
___	13. Application to Change Point of Diversion of Non 72-12-1 Well	$ 25.00
___	14. Application to Repair or Deepen Non 72-12-1 Well	$ 5.00
10	15. Application for Test, Expl. Observ. Well	$ 5.00
___	16. Application for Extension of Time	$ 25.00
___	17. Proof of Application to Beneficial Use	$ 25.00
___	18. Notice of Intent to Appropriate	$ 25.00

B. Surface Water Filing Fees

___	1. Change of Ownership of a Water Right	$ 5.00
___	2. Declaration of Water Right	$ 10.00
___	3. Amended Declaration	$ 25.00
___	4. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Surface Water	$ 200.00
___	5. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water	$ 200.00
___	6. Application to Change Point of Diversion	$ 100.00
___	7. Application to Change Place and/or Purpose of Use	$ 100.00
___	8. Application to Appropriate	$ 25.00
___	9. Notice of Intent to Appropriate	$ 25.00
___	10. Application for Extension of Time	$ 50.00
___	11. Supplemental Well to a Surface Right	$ 100.00
___	12. Return Flow Credit	$ 100.00
___	13. Proof of Completion of Works	$ 25.00
___	14. Proof of Application of Water to Beneficial Use	$ 25.00
___	15. Water Development Plan	$ 100.00
___	16. Declaration of Livestock Water Impoundment	$ 10.00
___	17. Application for Livestock Water Impoundment	$ 10.00

All fees are non-refundable.

C. Well Driller Fees

___	1. Application for Well Driller's License	$ 50.00
___	2. Application for Renewal of Well Driller's License	$ 50.00
___	3. Application to Amend Well Driller's License	$ 50.00

D. Reproduction of Documents

___ @ 0.25¢ $_____

___ Map(s) $_____

E. Certification $_____

F. Other $_____

G. Comments:

* Mail

Received by OCD: 4/1/2021 10:42:57 AM

Page 89 of 1122

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 2 Office, Roswell, NM

John R. D'Antonio Jr., P.E.
State Engineer

1900 West Second Street
Roswell, New Mexico 88201
(575) 622-6521
FAX: (575) 623-8559

November 12, 2020

Schlumberger Technology Corporation
c/o Dawn Greening
121 Industrial Blvd
Sugar Land, TX 77478

RE: *Well Plugging Plan of Operations* for *RA-12969-POD1 through RA-12969-POD10*

Greetings:

Enclosed is your copy of Well Plugging Plan of Operations for the above referenced project, which has been approved subject to the attached Specific Conditions of Approval. The following conditions of approval have been developed to ensure compliance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 13, 2017, by the State Engineer.

Aggrieval of this permit, or any of the conditions of approval therein, suspends the permit. No plugging operations shall occur while a permit is aggrieved.

Sincerely,

Christopher Angel, PG
Water Resources Professional II
Water Resource Allocation Program

encl
cc: Santa Fe

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 90 of 1122

WELL PLUGGING PLAN OF OPERATIONS

NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☑ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: RA-12969-POD1- POD 10

Name of well owner: Schlumberger Technology Corporation

Mailing address: 121 Industrial Blvd County:

City: Sugar Land State: TX Zip code: 77478

Phone number: (318) 393-6480 E-mail: DGreening@slb.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Jarod Michalsky - Talon LPE

New Mexico Well Driller License No.: WD-1800 Expiration Date: 6/17/2022

IV. WELL INFORMATION: ☑ **Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.**

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: _____deg, _____ min, _____ sec
Longitude: _____deg, _____min, _____sec, NAD 83

2) Reason(s) for plugging well(s):

Monitoring points will be used one time during an environmental investigation and will be abandoned immediately after sample collection.

3) Was well used for any type of monitoring program? no If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? No If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: 24.02 feet below land surface / feet above land surface (circle one)

6) Depth of the well: 30 feet

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 91 of 1122

OSE DIT NOV 4 2020 PM 01:4...

7) Inside diameter of innermost casing: 1 inches.

8) Casing material: None

9) The well was constructed with:

[■] an open-hole production interval, state the open interval: 25-30

[ ] a well screen or perforated pipe, state the screened interval(s): _____

10) What annular interval surrounding the artesian casing of this well is cement-grouted? NA

11) Was the well built with surface casing? No If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? _____ If yes, please describe:

12) Has all pumping equipment and associated piping been removed from the well? NA If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

[ ] **If plugging method differs between multiple wells on same site, a separate form must be completed for each method.**

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

Tremmie bentonite grout from bottom of borehole to surface.

2) Will well head be cut-off below land surface after plugging? NA

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

1) For plugging intervals that employ cement grout, complete and attach Table A.

2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.

3) Theoretical volume of grout required to plug the well to land surface: 70-90lbs

4) Type of Cement proposed: Type I/II Portland Cement

5) Proposed cement grout mix: 7.5 gallons of water per 94 pound sack of Portland cement.

6) Will the grout be: _____ batch-mixed and delivered to the site

X mixed on site

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Page 92 of 1122

7) Grout additives requested, and percent by dry weight relative to cement:

6% Bentonite

8) Additional notes and calculations:

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

Temporary monitoring points will be used in a groundwater investigation using a direct-push technology (DPT) drilling rig. Monitoring points will be sampled after installation and immediately abandoned.

VIII. SIGNATURE:

I, Dawn Greening, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof, that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Signature of Applicant — Date: 11/02/2020

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

✓ Approved subject to the attached conditions.
____ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 12 day of November, 2020

John R. D'Antonio Jr. P.E., New Mexico State Engineer

By: Christopher Angel, PG
Water Resource Professional II

Received by OCD: 4/1/2021 10:42:57 AM
Released to Imaging: 6/9/2021 9:44:58 AM

Page 93 of 1122

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT to WD-08 Plan of Plugging
MULTIPLE MONITORING WELL DESCRIPTIONS

This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

Location (Required): Former Dowell Schlumberger Facility, 507 East Richey Avenue, Artesia, NM 88210

☐ NM State Plane (NAD83) (Feet) ☐ NM West Zone ☐ NM Central Zone ☐ NM East Zone	☐ UTM (NAD83) (Meters) ☐ Zone 13N ☐ Zone 12N	■ Lat/Long (WGS84) (1/10th of second)	OTHER (allowable only for move-from descriptions - see application form for format) ☐ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant

OSE POD Number:	Other Well ID:	X or Longitude (ddmmss):	Y or Latitude (ddmmss):	Other Location Info (PLSS):	Casing ID- (inches):	Depth to Water- (ft bgs):	Total well Depth- (ft bgs):	Grout Volume:	Surface Casing (Y or N):
RA 12969 POD1	SB-38	-104.389785	32.861274		1	22	30	2.8	N
RA 12969 POD2	SB-39	-104.289310	32.861502		1	22	30	2.8	N
RA 12969 POD3	SB-40	-104.388478	32.861530		1	22	30	2.8	N
RA 12969 POD4	SB-41	-104.388033	32.861249		1	22	30	2.8	N
RA 12969 POD5	SB-42	-104.387613	32.860995		1	22	30	2.8	N
RA 12969 POD6	SB-43	-104.388852	32.861932		1	22	30	2.8	N
RA 12969 POD7	SB-44	-104.388172	32.861729		1	22	30	2.8	N
RA 12969 POD8	SB-45	-104.387637	32.861439		1	22	30	2.8	N
RA 12969 POD9	SB-46	-104.388444	32.862126		1	22	30	2.8	N
RA 12969 POD 10	SB-47	-104.387597	32.861852		1	22	30	2.8	N

FOR OSE INTERNAL USE — Multiple Montioring POD Descriptions, Form wr-08m (Rev 7/31/19)

File Number:	Trn Number:
Trans Description (optional):	

Received by OCD: 4/1/2021 10:42:57 AM
Released to Imaging: 6/9/2021 9:44:58 AM

Page 94 of 1122

Specific Conditions of Approval RA-12969-POD1 through RA-12969-POD10

1. The cement-bentonite slurry (bentonite powder) shall be mixed using a maximum of 5.2 gallons water per 94-lb sack portland cement **PLUS** 0.6 gallons per 1% increase in bentonite up to a maximum 6% bentonite by dry weight ratio. Bentonite must be hydrated separately and then mixed.
2. Grout shall be tremied from the bottom up to ground surface.
3. A completed Plugging Record form shall be submitted no later than 30 days after completion of the plugging.
4. Before any attempts are made to plug this well, the O.S.E. District II Office shall be notified 48 hours in advance of the anticipated schedule for plugging, so that an O.S.E. representative has the opportunity to witness the procedures, if deemed necessary.
5. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
6. A complete plugging record shall be submitted with O.S.E. District II office no later than 30 days after the plugging.
7. Aggrieval of this permit, or any of the conditions of approval therein, suspends the permit. No plugging operations shall occur while a permit is aggrieved.

Witness my hand and seal this 12th day of September A.D., 2020

John R. D'Antonio Jr., P.E., State Engineer

By: _____
Christopher Angel, PG
Water Resources Professional II

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Appendix D
Soil Boring Logs

ch2m. SM	PROJECT NUMBER D3151100 A.CS.EV.AR.20-01-02	BORING NUMBER SB-38	SHEET # 1 of 2
	SOIL BORING LOG		LOGGER: McKenze Booth/ABQ Aleeca Forsberg/ABQ
PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **10/5/20**	Geoprobe 6620DT, Earth Worx Environmental	COORDINATES: / TOTAL DEPTH OF BORING: **33 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
1–4	1.5	ML	**SILT** (ML), 10 YR 6/4, light yellowish brown, dry, soft, low plasticity	VOCs = 0.0 ppm.
5–8	2	SM	**SILTY SAND** (SM), 10 YR 8/2, brown, dry, low plasticity, 50% caliche nodules	VOCs = 0.0 ppm.
9–10	4	ML	**SILT** (ML) 10 YR 6/3, pale brown, dry, medium plasticity	
11–12		CL	**FAT CLAY** (CH), 5 YR 8/3, pink, dry, high plasticity	VOCs = 0.0 ppm.
13–14	4	ML	**SILT** (ML) 10 YR 6/3, pale brown, dry, medium plasticity	VOCs = 0.0 ppm.
15–16		CL	**FAT CLAY** (CH), 7.5 YR 5/4, brown, moist, high plasticity, 10% caliche	
17–18	4	CL	**FAT CLAY** (CH), 7.5 YR 5/4, brown, moist, high plasticity, 10% caliche	PID = 0.0 ppm.
19–20		CL	**CLAYEY SAND** (CL) 10 YR 8/4, brown, moist	
21–24	2	CL	**FAT CLAY** (CH) 7.5 YR 5/4, brown, moist, high plasticity, 50% caliche, rust mottles	
25				

Sampler Signature: M. Booth Date: 10/5/2020

ch2m SM	PROJECT NUMBER D3151100 A.CS.EV.AR.20-01-02	BORING NUMBER SB-38	SHEET # 2 of 2
	SOIL BORING LOG		LOGGER: McKenze Booth/ABQ Aleeca Forsberg/ABQ
PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **10/5/20 and 11/18/20**	Geoprobe 6620DT, Earth Worx Environmental	COORDINATES: / TOTAL DEPTH OF BORING: **33 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
26–29	4	CL	**SILT** (CL), 7.5 YR 5/6, brown, moist, high plasticity, very hard, 25% gravel size caliche	VOCs = 0.0 ppm. End of boring on 10/5/20 DPT going down borehole with spear to try and open borehole to get through swelling clays
30–32	3.5	CH	**FAT CLAY** (CL), reddish brown, moist, medium stiff, gravel size caliche nodules	VOCs = 0.0 ppm.
		ML	**SILT** (ML), light brown, dry to moist, medium plasticity, stiff	
33	1	SW	**WELL GRADED SAND WITH GRAVEL AND CLAY** (SW), light pink, wet, medium dense, sand and gravel of various grain sizes	
34–50				Refusal. Measure water at 29.5 ft bgs

Sampler Signature: A. Forsberg Date: 11/18/2020

ch2m SM	PROJECT NUMBER D3151100 A.CS.EV.AR.20-01-02	BORING NUMBER SB-39	SHEET # 1 of 2
	SOIL BORING LOG		LOGGER: McKenze Booth/ABQ Aleeca Forsberg/ABQ
PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **10/5/20**	Geoprobe 6620DT, Earth Worx Environmental	COORDINATES: / TOTAL DEPTH OF BORING: **27.5 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
1	2.5	ML	**SILT** (ML), 10 YR 6/4, light yellowish brown, dry, medium plasticity	VOCs = 0.0 ppm.
2				
3		SM	**SILTY SAND** (SM), 7.5 YR 8/2, pinkish brown, dry, soft, low plasticity	
4				
5	4	CL	**LEAN CLAY** (CL), 10 YR 5/8, yellowish brown, dry, 50 - 75% caliche	VOCs = 0.0 ppm.
6				
7		ML	**SILT** (ML), 10 YR 6/4, light yellowish brown, dry, medium plasticity	
8				
9	4	ML	**SILT** (ML), 10 YR 6/4, light yellowish brown, dry, medium plasticity	VOCs = 0.0 ppm.
10		CH	**FAT CLAY** (CH), 10 YR 5/8, yellowish brown, dry, 50 - 75% caliche	VOCs = 0.0 ppm.
11				
12				
13	4	CH	**FAT CLAY** (CH), 10 YR 5/8, yellowish brown, dry, 50 - 75% caliche	VOCs = 0.0 ppm.
14				
15		CH	**FAT CLAY WITH SAND** (CH), 7.5 YR 5/8, brown, moist, high plasticity, 10% caliche	
16				
17	4	CH	**FAT CLAY WITH SAND** (CH), 7.5 YR 5/8, brown, moist, high plasticity, 10% caliche	PID = 0.0 ppm.
18				
19				
20				
21	4	CH	**FAT CLAY** WITH GRAVEL (CH) 10 YR 5/6, yellowish brown, moist, high plasticity, medium stiff, 75% caliche. Bottom 6-inches is soft	
22				
23				
24				refusal. End of boring on 10/5/20
25	3.5	ML	**SANDY SILT** (ML), reddish brown, wet, non-plastic, non-cohesive, very fine sand	start of boring 11/18/20.

Sampler Signature: M. Booth Date: 10/5/2020

ch2m. SM	PROJECT NUMBER D3151100 A.CS.EV.AR.20-01-02	BORING NUMBER SB-39	SHEET # 2 of 2
	SOIL BORING LOG		LOGGER: McKenze Booth/ABQ Aleeca Forsberg/ABQ
PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **10/5/20 and 11/18/20**	Geoprobe 6620DT, Earth Worx Environmental	COORDINATES: / TOTAL DEPTH OF BORING: **27.5 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
26	3.5	ML	**SANDY SILT** (ML) reddish brown, wet, non-plastic, non-cohesive, very fine sand	water at 25 ft bgs
27		ML	**SILT** (ML), reddish brown, moist, plastic, cohesive, medium stiff, few gravel size caliche nodules	
28				end of boring
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				

Sampler Signature: A. Forsberg Date: 11/18/2020

ch2m SM

PROJECT NUMBER	BORING NUMBER	SHEET # 1 of 2
D3151100 A.CS.EV.AR.20-01-02	SB-40	

SOIL BORING LOG

LOGGER: McKenze Booth/ABQ
Aleeca Forsberg/ABQ

PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **10/5/20**	Geoprobe 6620DT, Earth Worx Environmental	COORDINATES:	TOTAL DEPTH OF BORING: **29 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
1–4	2	ML	**SILT** (ML), 7.4 YR 8/2, pinkish white, dry, medium plasticity	VOCs = 0.0 ppm.
		CL	**LEAN CLAY** (CL), 7.5 YR 5/6, brown, dry, soft, medium plasticity, 25% caliche nodules, with silt	
5–8	4	CL	**LEAN CLAY** (CL), 7.5 YR 5/6, brown, dry, soft, medium plasticity, 25% caliche nodules, with silt	VOCs = 0.0 ppm.
		ML	**SILT** (ML), 7.5 YR 8/2, pinkish white, dry, medium plasticity	
		CL	**LEAN CLAY** (CL), 7.5 YR 5/6, brown, dry, medium plasticity	
9–12	4	CL	**LEAN CLAY** (CL), 7.5 YR 5/6, brown, dry, medium plasticity	VOCs = 0.0 ppm.
		ML	**SILT** (ML), 10 YR 5/6, yellowish brown, dry, medium plasticity, with 25% caliche nodules	VOCs = 0.0 ppm.
13–16	4	ML	**SILT** (ML), 10 YR 5/6, yellowish brown, dry, medium plasticity, with 25% caliche nodules	VOCs = 0.0 ppm.
		SC	**CLAYEY SAND** (SC), 5 YR 5/6, yellowish red, moist, medium plasticity	
17–20	4	SC	**CLAYEY SAND** (SC), 5 YR 5/6, yellowish red, moist, medium plasticity	
		GC	**CLAYEY GRAVEL** (GC), 7.5 YR 8/2, pinkish white, dry	PID = 0.0 ppm.
		CH	**FAT CLAY** (CH) 5 YR 5/6, yellowish brown, moist, high plasticity, 25% caliche	
21–24	4	CH	**FAT CLAY** (CH) 5 YR 5/6, yellowish brown, moist, high plasticity, 25% caliche	refusal. End of boring on 10/5/20
25	3.5	ML	**SILT** (ML), brown, wet, medium plasticity, very soft, few fine-grained sands	start of boring 11/18/20.

Sampler Signature: M. Booth Date: 10/5/2020

ch2m SM

PROJECT NUMBER	BORING NUMBER	SHEET # 2 of 2
D3151100 A.CS.EV.AR.20-01-02	SB-40	

SOIL BORING LOG

LOGGER: McKenze Booth/ABQ
Aleeca Forsberg/ABQ

PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **10/5/20 and 11/18/20**	Geoprobe 6620DT, Earth Worx Environmental	COORDINATES:	TOTAL DEPTH OF BORING: 29 **ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
26	3.5	CH	**FAT CLAY** (CH) brown, moist, high plasticity, stiff, small gravel size caliche nodules	water at 24.1 ft bgs
27		ML	**SILT** (ML), reddish brown, moist, plastic, cohesive, medium stiff, few gravel size caliche nodules	
28	2	CL	**LEAN CLAY** (CL) brown, moist, medium plasticity, soft, some fine to medium grained sand, 4" wet caliche layer	
29		CH	**FAT CLAY** (CH) brown, moist, high plasticity, stiff, small gravel size caliche nodules	
30				end of boring
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				

Sampler Signature: A. Forsberg Date: 11/18/2020

ch2m SM

PROJECT NUMBER	BORING NUMBER	SHEET # 1 of 2
D3151100 A.CS.EV.AR.20-01-02	SB-41	

SOIL BORING LOG

LOGGER: Aleeca Forsberg/ABQ

PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **11/19/20**	Geoprobe 6620DT, Talon LPE	COORDINATES:	TOTAL DEPTH OF BORING: **32 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
1–4	2	ML	**SILT** (ML), light brown to white, dry, medium plasticity, cohesive, very soft	VOCs = 0.0 ppm.
5	4	ML	**SILT** (ML), light brown to white, dry, medium plasticity, cohesive, very soft	
6–8		CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, cohesive, medium stiff, ~1 cm thick caliche layers throughout plasticity	VOCs = 0.0 ppm.
9	4	CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, cohesive, medium stiff, ~1 cm thick caliche layers throughout	VOCs = 0.0 ppm.
10–11		ML	**SILT** (ML),very light brown, dry, non-plastic, noncohesive, very soft, 5 - 8% small gravel size caliche	VOCs = 0.0 ppm.
12				switch to 2 ft runs
13	2	CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, cohesive, medium stiff to stiff	VOCs = 0.0 ppm.
14		ML	**SILT** (ML), white, dry, non-plastic, noncohesive	compacted from drilling
15	2	ML	**SILT** (ML), white, dry, non-plastic, noncohesive	
16		CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, cohesive, medium stiff to stiff. Bottom 6-inches has caliche nodules	
17	4	CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, cohesive, medium stiff to stiff. Bottom 6-inches has caliche nodules	switch to 4 ft runs
18–20		GC	**LEAN CLAY** (CL), light brown to white, dry to moist, lo to medium plasticity, cohesive, caliche content increases downward. Final 6-inches has rust mottles	PID = 0.0 ppm.
21	3	ML/CL	**SILT** (ML), light brown, dry, low plasticity, noncohesive, very soft **LEAN CLAY** (CL), reddish brown, moist, medium plasticity, cohesive, soft	
22		ML	**SILT** (ML), white, dry, caliche, 5-10% fine to medium grained sand	PID = 0.0 ppm.
23		CH	**FAT CLAY** (CH), reddish brown, moist, medium to high plasticity, cohesive, soft, bottom 3-inches is stiff to very stiff	
24–25	4	CH	**FAT CLAY** (CH), reddish brown, moist, medium to high plasticity, cohesive, stiff to very stiff	PID = 0.0 ppm.

Sampler Signature: A. Forsberg Date: 11/19/2020

ch2m: SM	PROJECT NUMBER D3151100 A.CS.EV.AR.20-01-02	BORING NUMBER SB-41	SHEET # 2 of 2
	SOIL BORING LOG		LOGGER: Aleeca Forsberg/ABQ
PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **11/19/20**	Geoprobe 6620DT, Talon LPE	COORDINATES: / TOTAL DEPTH OF BORING: **32 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
26	4	ML	**SILT** (ML), white, dry, caliche, 5-10% fine to medium grained sand	
27		CH	**FAT CLAY** (CH), reddish brown, moist, medium to high plasticity, cohesive, stiff to very stiff	
28	1	ML to CH	**SILT** (ML) grading to **FAT CLAY** (CH), white to very light brown, moist, medium plasticity, cohesive, medium stiff	1 ft run
29	3	CH	**FAT CLAY** (CH), reddish brown, moist, medium to high plasticity, cohesive, stiff to very stiff. 6-inch **SILT** (ML) caliche layer at 30.5 ft bgs	
30				
31				Water at 30.2 ft bgs
32	1	CH	**FAT CLAY** (CH), reddish brown, moist, medium to high plasticity, cohesive, stiff to very stiff	
33				end of boring
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				

Sampler Signature: A. Forsberg Date: 11/18/2020

ch2m SM	PROJECT NUMBER D3151100 A.CS.EV.AR.20-01-02	BORING NUMBER SB-42	SHEET # 1 of 2
	SOIL BORING LOG		LOGGER: Aleeca Forsberg/ABQ
PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **11/19/20**	Geoprobe 6620DT, Talon LPE	COORDINATES: / TOTAL DEPTH OF BORING: **30 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
1–4	2.5	ML	**SILT** (ML), very light brown, dry, low plasticity, non-cohesive, soft to very soft. Bottom 8 1/2-inches has caliche	VOCs = 0.0 ppm.
5	2.8	ML	**SILT** (ML), very light brown, dry, low plasticity, non-cohesive, very soft, stiffens downward	
6–8		CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, non-cohesive, medium stiff, caliche throughout with some gravel size black mottles	VOCs = 0.0 ppm.
9–12	3.5	CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, non-cohesive, medium stiff, caliche throughout with some gravel size black mottles	VOCs = 0.0 ppm. VOCs = 0.0 ppm.
13	3.5	ML	**GRAVELLY SILT** (ML), very light brown, dry	VOCs = 0.0 ppm.
14–16		CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, non-cohesive, medium stiff, gravel content increased downward to 10%	
17–19	3	CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, non-cohesive, medium stiff, caliche throughout with some gravel size black mottles caliche from 18 - 18.5 ft bgs moist at 18.5 ft bgs	PID = 0.0 ppm.
20	3.5	ML	**SILT** (ML), very pale brown to white, dry to moist, low to medium plasticity, cohesive, 5 - 15% clay and caliche	
21–22		CL	**LEAN CLAY** (CL), pale pink to white, moist, low plasticity, cohesive, stiff, no caliche nodules	PID = 0.0 ppm.
23–25	3.5	CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, non-cohesive, medium stiff fine to coarse gravel from 23.5 - 24 ft bgs increase in moisture content with depth	PID = 0.0 ppm.

Sampler Signature: A. Forsberg Date: 11/19/2020

ch2m. SM	PROJECT NUMBER D3151100 A.CS.EV.AR.20-01-02	BORING NUMBER SB-42	SHEET # 2 of 2
	SOIL BORING LOG		LOGGER: Aleeca Forsberg/ABQ
PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **11/19/20**	Geoprobe 6620DT, Talon LPE	COORDINATES: / TOTAL DEPTH OF BORING: **30 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
26	3	ML	**SILT** (ML), pale reddish brown, moist to wet, low plasticity, cohesive, medium stiff, trace gravel throughout, red mottles in top 3-inches	
27				
28				measured water at 20 ft bgs
29	2	ML	**GRAVELLY SILT** (ML), brown, wet, low plasticity, noncohesive, very soft. Bottom 6-inches medium stiff with trace gravel	
30				end of boring
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				

Sampler Signature: A. Forsberg Date: 11/18/2020

ch2m. SM	PROJECT NUMBER D3151100 A.CS.EV.AR.20-01-02	BORING NUMBER SB-45	SHEET # 1 of 2	
	SOIL BORING LOG		LOGGER: Aleeca Forsberg/ABQ	
PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **11/19/20**	Geoprobe 6620DT, Talon LPE	COORDINATES:	TOTAL DEPTH OF BORING: **34.5 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
1–4	2.8	ML	**SILT** (ML), white, grades to pale brown, dry, non-plastic, noncohesive, very soft to soft	VOCs = 0.0 ppm.
5	3	ML	**SILT** (ML), white, dry, non-plastic, noncohesive, very soft to soft	
6		CL	**LEAN CLAY** (CL), white, dry, non-plastic, noncohesive, soft. Caliche at 6 ft bgs	VOCs = 0.0 ppm.
7–8		ML	**SILT** (ML), reddish brown, dry, low plasticity, cohesive, medium stiff	
9	3.5	ML	**SILT** (ML), reddish brown, dry, non-plastic, noncohesive, very soft, stiffens downward	VOCs = 0.0 ppm.
10–11		CL	**LEAN CLAY** (CL), reddish brown, dry, medium plasticity, cohesive, trace gravel size caliche nodules Bottom 1 foot has a lot of caliche	VOCs = 0.0 ppm.
12–13	4	ML	**SILT** (ML), white, dry, low plasticity, noncohesive, gravel size caliche nodules	VOCs = 0.0 ppm.
14–16		CL	**LEAN CLAY** (CL), reddish brown, moist, low plasticity, non-cohesive, medium stiff, trace gravel size caliche	
17	4	ML	**SILT** (ML), white, dry, low plasticity, noncohesive, gravel size caliche nodules	
18–19		CL to CH	**LEAN CLAY** (CL) grading to **FAT CLAY** (CH) at 19 ft bgs, reddish brown, dry to moist, low to medium plasticity, stiff to soft gravel size caliche from 18.5 to 19 ft bgs	PID = 0.0 ppm.
20				switch to 2 ft runs
21	2	ML	**SILT** (ML), dry, pale brown to white, crumbly, gravel nodules	
22		CH	**FAT CLAY** (CH), reddish brown, moist, medium to high plasticity, stiff	PID = 0.0 ppm.
23–24	2	CH	**FAT CLAY** (CH), reddish brown, moist, medium to high plasticity, stiff, pink mottles hard **SILT** (ML) layer from 22.5 to 23 ft bgs	PID = 0.0 ppm.
25	3.5	CH	**FAT CLAY** (CH), reddish brown, moist, medium to high plasticity, stiff, pink mottles	

Sampler Signature: A. Forsberg Date: 11/19/2020

ch2m SM

PROJECT NUMBER	BORING NUMBER	SHEET # 2 of 2
D3151100 A.CS.EV.AR.20-01-02	SB-45	

SOIL BORING LOG

LOGGER: Aleeca Forsberg/ABQ

PROJECT : Former Dowell Schlumberger Facility, Artesia, NM | Date: **11/19/20** | Geoprobe 6620DT, Talon LPE | COORDINATES: | TOTAL DEPTH OF BORING: **34.5 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
26	3.5	ML	**SILT** (ML), brown, moist, medium plasticity, cohesive, soft	
27		CH	**FAT CLAY** (CH), brown, moist, medium to high plasticity, cohesive, medium stiff, white mottles	water at 26.3 ft bgs
28	3.5	CH	**FAT CLAY** (CH), brown, moist, medium to high plasticity, cohesive, medium stiff, white mottles throughout, red mottles at base	
31	3.5	ML	**SILT** (ML), brown grading to white, moist to wet, medium plasticity, cohesive, soft rust mottles in bottom 1.5 feet, gravelly layer from 30.5 to 31 ft bgs	
33	3.5	ML	**SILT** (ML), brown, wet, medium plasticity, cohesive, medium stiff, ~4-inch gravelly caliche unit at 33 ft bgs	
35				end of boring

Sampler Signature: A. Forsberg Date: 11/19/2020

ch2m. SM	PROJECT NUMBER D3151100 A.CS.EV.AR.20-01-02	BORING NUMBER SB-46	SHEET # 1 of 2
	SOIL BORING LOG		LOGGER: Aleeca Forsberg/ABQ
PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **11/20/20**	Geoprobe 6620DT, Talon LPE	COORDINATES: / TOTAL DEPTH OF BORING: **30 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
1–4	2	ML	**SILT** (ML), very pale brown to white, dry, non-plastic, noncohesive, very soft	VOCs = 0.0 ppm.
5–6	3.8	ML	**SILT** (ML), white, dry, non-plastic, noncohesive, very soft	VOCs = 0.0 ppm.
7–8		CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, cohesive, very stiff, black and light grey mottles	
9	3		Slough	VOCs = 0.0 ppm.
10–12		CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, cohesive, very stiff, black and light grey mottles. Bottom 1.5 ft have some small gravel size caliche	VOCs = 0.0 ppm.
13–16	3.8	CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, cohesive, very stiff, black and light grey mottles 2-inch think caliche layers from 13.5 to 14.5 ft bgs increased grey and white mottles with depth	VOCs = 0.0 ppm.
17–18	3.8	ML	**SILT** (ML), pale reddish brown, moist, low plasticity, cohesive, soft to medium stiff, white to grey mottles, rubbelized caliche layers from 16.5 to 17.5 ft bgs	switch to 2 ft runs PID = 0.0 ppm.
19–20	3.5	ML	**SILT** (ML), pale reddish brown, moist, low plasticity, cohesive, soft to medium stiff, white to grey mottles,	
		SP	**POORLY GRADED SAND** (SP), reddish brown, moist, medium dense, predominantly fine grained	
21–24	3.8	ML	**SILT** (ML), reddish brown, moist, low to medium plasticity, cohesive, soft but stiffens downward rubbelized caliche layer at 23.5 to 23.7 ft bgs very thin (less than 1 mm thick) grey reducing layer at 23.9 ft bgs	PID = 0.0 ppm. PID = 0.0 ppm.
25	3.8	CL	**LEAN CLAY** (CL), reddish brown, moist, medium plastic, cohesive, medium stiff to stiff.	

Sampler Signature: A. Forsberg Date: 11/20/2020

ch2m SM

PROJECT NUMBER	BORING NUMBER	SHEET # 2 of 2
D3151100 A.CS.EV.AR.20-01-02	SB-46	

SOIL BORING LOG

LOGGER: Aleeca Forsberg/ABQ

PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **11/20/20**	Geoprobe 6620DT, Talon LPE	COORDINATES:	TOTAL DEPTH OF BORING: **30 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
26	3.5	ML	**LEAN CLAY** (CL), reddish brown, moist, medium plastic, cohesive, medium stiff to stiff. 4-inch thick caliche layer at 27.5 ft bgs	
27				
28				
29	3.5	ML	**SILT** (ML), reddish brown, moist to wet, low to medium plastic, cohesive, medium stiff to stiff, trace fine sand and gravel throughout	water at 29 ft bgs
30				
31				end of boring
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				

Sampler Signature: A. Forsberg Date: 11/20/2020

ch2m SM	PROJECT NUMBER D3151100 A.CS.EV.AR.20-01-02	BORING NUMBER SB-47	SHEET # 1 of 2
	SOIL BORING LOG		LOGGER: Aleeca Forsberg/ABQ
PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **11/20/20**	Geoprobe 6620DT, Talon LPE	COORDINATES: / TOTAL DEPTH OF BORING: **31.5 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
1–4	3	ML	**SILT** (ML), white, dry, non-plastic, noncohesive, very soft in top foot, compacted in bottom 2.5 ft to stiff	VOCs = 0.0 ppm.
5–8	3.8	ML	**SILT** (ML), white grading to pale red at 7 ft bgs, dry, non-plastic, noncohesive, soft to medium stiff	VOCs = 0.0 ppm.
9–10	3.8	ML	**SILT** (ML), pale red at 7 ft bgs, dry, non-plastic, noncohesive, medium stiff	VOCs = 0.0 ppm.
11–12		CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, cohesive, stiff	VOCs = 0.0 ppm.
13		CL	**LEAN CLAY** (CL), reddish brown, dry, low plasticity, cohesive, stiff	VOCs = 0.0 ppm.
14–16		ML	**SILT** (ML), pale red at 7 ft bgs, dry, non-plastic, noncohesive, medium stiff. Stiffens downward to very stiff	
17–18	3.8	ML	**SILT** (ML), pale red at 7 ft bgs, dry, non-plastic, noncohesive, medium stiff	switch to 2 ft runs PID = 0.0 ppm.
19–20	3.8	ML	**SILT** (ML), pale red at 7 ft bgs, dry, non-plastic, noncohesive, medium stiff clay content increases with depth to 10% small gravel in bottom foot	
21		ML	**SILT** (ML), pale red at 7 ft bgs, dry, non-plastic, noncohesive, medium stiff, 10% clay, trace gravel	4 foot runs
22–23	3.8	CL	**LEAN CLAY** (CL), reddish brown, moist, medium plasticity, cohesive, medium stiff to soft, grey mottles throughout	PID = 0.0 ppm.
24				PID = 0.0 ppm.
25	3.8	CL	**LEAN CLAY** (CL), reddish brown, moist, medium plasticity, cohesive, medium stiff to soft, grey mottles throughout	

Sampler Signature: A. Forsberg Date: 11/20/2020

ch2m. SM	PROJECT NUMBER D3151100 A.CS.EV.AR.20-01-02	BORING NUMBER SB-47	SHEET # 2 of 2
	SOIL BORING LOG		LOGGER: Aleeca Forsberg/ABQ
PROJECT : Former Dowell Schlumberger Facility, Artesia, NM	Date: **11/20/20**	Geoprobe 6620DT, Talon LPE	COORDINATES: / TOTAL DEPTH OF BORING: **31.5 ft bgs**

DEPTH BELOW SURFACE (FT)	RECOVERY (FT)	USCS CODE	SOIL DESCRIPTION	COMMENTS/NOTES, PID RESULTS, SAMPLE COLLECTION (Date, Time, Sample ID)
26–28	3.5	ML	**LEAN CLAY** (CL), reddish brown, moist, medium plasticity, cohesive, medium stiff to soft, grey mottles throughout	water at 28 ft bgs
29–31			No recovery. Macrocore stuck in rod and core was destroyed while getting unstuck. **SILT** (ML) pale reddish brown, wet in shoe	end of boring
32–50				

Sampler Signature: A. Forsberg Date: 11/20/2020

Appendix E
Laboratory Analytical Reports and Data Validation Checklist

eurofins | Environment Testing TestAmerica

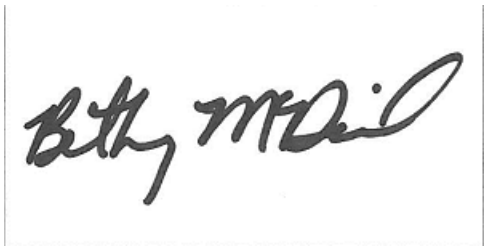
ANALYTICAL REPORT

Job Number: 600-199031-1

Job Description: Dowell - Artesia 1/14/20

For:
Jacobs Engineering Group, Inc.
3721 Rutledge Rd NE
Suite B-1
Albuquerque, NM 87109

Attention: Aleeca Forsberg



Approved for release.
Bethany A McDaniel
Senior Project Manager
1/28/2020 3:43 PM

Bethany A McDaniel, Senior Project Manager
6310 Rothway Street, Houston, TX, 77040
(713)358-2005
bethany.mcdaniel@testamericainc.com
01/28/2020

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Table of Contents

Cover Title Page 1
Data Summaries 4
Definitions 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Default Detection Limits 11
Surrogate Summary 12
QC Sample Results 13
QC Association 16
Chronicle 17
Certification Summary 19
Method Summary 20
Sample Summary 21
Manual Integration Summary 22
Reagent Traceability 38
Organic Sample Data 54
GC/MS VOA 54
Method 8260B Low Level 54
Method 8260B Low Level QC Summary 55
Method 8260B Low Level Sample Data 70
Standards Data 79
Method 8260B Low Level ICAL Data 79
Method 8260B Low Level CCAL Data 103
Raw QC Data 115
Method 8260B Low Level Blank Data 115

Table of Contents

Method 8260B Low Level LCS/LCSD Data 117
Method 8260B Low Level Run Logs 121
Method 8260B Low Level Prep Data 125
HPLC/IC 131
Method 300.0 131
Method 300.0 QC Summary 132
Method 300.0 Sample Data 140
Standards Data 146
Method 300.0 ICAL Data 146
Method 300.0 CCAL Data 155
Raw QC Data 171
Method 300.0 Blank Data 171
Method 300.0 LCS/LCSD Data 182
Method 300.0 MS/MSD Data 185
Method 300.0 Run Logs 187
Method 300.0 Prep Data 195
Shipping and Receiving Documents 198
Client Chain of Custody 199
Sample Receipt Checklist 201

Definitions/Glossary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Job Narrative
600-199031-1

Comments
No additional comments.

Receipt
The samples were received on 1/15/2020 10:36 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8º C.

GC/MS VOA
Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: ARTESIA-MW12-01142020 (600-199031-4) and ARTESIA-MW38-01142020 (600-199031-5). Elevated reporting limits (RLs) are provided.

Method 8260B: The method blank for analytical batch 600-285834 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for sulfate were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The Calibration blank for analytical batch 600-285676 contained chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Client Sample ID: ARTESIA-TB01-01142020 — Lab Sample ID: 600-199031-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.000487	J	0.00200	0.000129	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-MW17C-01142020 — Lab Sample ID: 600-199031-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.000277	J	0.00100	0.000192	mg/L	1		8260B	Total/NA
Sulfate	2210		50.0	9.57	mg/L	100		300.0	Total/NA

Client Sample ID: ARTESIA-MW36-01142020 — Lab Sample ID: 600-199031-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.0411		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.000457	J	0.00100	0.000192	mg/L	1		8260B	Total/NA
Benzene	0.0138		0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.00696		0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00733		0.00100	0.000333	mg/L	1		8260B	Total/NA
Sulfate	2180		100	19.1	mg/L	200		300.0	Total/NA

Client Sample ID: ARTESIA-MW12-01142020 — Lab Sample ID: 600-199031-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00275		0.00100	0.000192	mg/L	1		8260B	Total/NA
Benzene	0.00899		0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.00340	B	0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.000515	J	0.00100	0.000333	mg/L	1		8260B	Total/NA
1,1-Dichloroethane - DL	0.0517		0.00500	0.000840	mg/L	5		8260B	Total/NA
Sulfate	9260		250	47.9	mg/L	500		300.0	Total/NA

Client Sample ID: ARTESIA-MW38-01142020 — Lab Sample ID: 600-199031-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00982		0.00100	0.000192	mg/L	1		8260B	Total/NA
Benzene	0.00125		0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.0103	B	0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00748		0.00100	0.000333	mg/L	1		8260B	Total/NA
1,1-Dichloroethane - DL	0.131		0.0100	0.00168	mg/L	10		8260B	Total/NA
Sulfate	785		50.0	9.57	mg/L	100		300.0	Total/NA

Client Sample ID: ARTESIA-MW37-01142020 — Lab Sample ID: 600-199031-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.0477		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.00667		0.00100	0.000192	mg/L	1		8260B	Total/NA
Benzene	0.00521		0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.00560	B	0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00432		0.00100	0.000333	mg/L	1		8260B	Total/NA
Sulfate	2090		50.0	9.57	mg/L	100		300.0	Total/NA

Client Sample ID: ARTESIA-MW11-01142020 — Lab Sample ID: 600-199031-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00360		0.00100	0.000168	mg/L	1		8260B	Total/NA
Naphthalene	0.000527	J	0.00200	0.000129	mg/L	1		8260B	Total/NA
Sulfate	1630	F1	100	19.1	mg/L	200		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Client Sample ID: ARTESIA-TB01-01142020
Lab Sample ID: 600-199031-1
Date Collected: 01/14/20 11:00
Matrix: Water
Date Received: 01/15/20 10:36

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			01/17/20 23:02	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			01/17/20 23:02	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			01/17/20 23:02	1
Naphthalene	**0.000487**	**J**	0.00200	0.000129	mg/L			01/17/20 23:02	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			01/17/20 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*50 - 134*		*01/17/20 23:02*	*1*
4-Bromofluorobenzene	*119*		*67 - 139*		*01/17/20 23:02*	*1*
Dibromofluoromethane	*93*		*62 - 130*		*01/17/20 23:02*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*01/17/20 23:02*	*1*

Client Sample ID: ARTESIA-MW17C-01142020
Lab Sample ID: 600-199031-2
Date Collected: 01/14/20 11:50
Matrix: Water
Date Received: 01/15/20 10:36

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			01/17/20 23:28	1
1,1-Dichloroethene	**0.000277**	**J**	0.00100	0.000192	mg/L			01/17/20 23:28	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			01/17/20 23:28	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			01/17/20 23:28	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			01/17/20 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*50 - 134*		*01/17/20 23:28*	*1*
4-Bromofluorobenzene	*119*		*67 - 139*		*01/17/20 23:28*	*1*
Dibromofluoromethane	*91*		*62 - 130*		*01/17/20 23:28*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*01/17/20 23:28*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2210**		50.0	9.57	mg/L			01/17/20 02:53	100

Client Sample ID: ARTESIA-MW36-01142020
Lab Sample ID: 600-199031-3
Date Collected: 01/14/20 12:35
Matrix: Water
Date Received: 01/15/20 10:36

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.0411**		0.00100	0.000168	mg/L			01/17/20 23:54	1
1,1-Dichloroethene	**0.000457**	**J**	0.00100	0.000192	mg/L			01/17/20 23:54	1
Benzene	**0.0138**		0.00100	0.000176	mg/L			01/17/20 23:54	1
Naphthalene	**0.00696**		0.00200	0.000129	mg/L			01/17/20 23:54	1
Tetrachloroethene	**0.00733**		0.00100	0.000333	mg/L			01/17/20 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*50 - 134*		*01/17/20 23:54*	*1*
4-Bromofluorobenzene	*114*		*67 - 139*		*01/17/20 23:54*	*1*
Dibromofluoromethane	*92*		*62 - 130*		*01/17/20 23:54*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*01/17/20 23:54*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Client Sample ID: ARTESIA-MW36-01142020
Lab Sample ID: 600-199031-3
Date Collected: 01/14/20 12:35
Matrix: Water
Date Received: 01/15/20 10:36

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2180		100	19.1	mg/L			01/17/20 03:13	200

Client Sample ID: ARTESIA-MW12-01142020
Lab Sample ID: 600-199031-4
Date Collected: 01/14/20 12:40
Matrix: Water
Date Received: 01/15/20 10:36

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00275		0.00100	0.000192	mg/L			01/22/20 15:38	1
Benzene	0.00899		0.00100	0.000176	mg/L			01/22/20 15:38	1
Naphthalene	0.00340	B	0.00200	0.000129	mg/L			01/22/20 15:38	1
Tetrachloroethene	0.000515	J	0.00100	0.000333	mg/L			01/22/20 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*66*		*50 - 134*		*01/22/20 15:38*	*1*
4-Bromofluorobenzene	*117*		*67 - 139*		*01/22/20 15:38*	*1*
Dibromofluoromethane	*74*		*62 - 130*		*01/22/20 15:38*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*01/22/20 15:38*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.0517		0.00500	0.000840	mg/L			01/22/20 16:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*66*		*50 - 134*		*01/22/20 16:58*	*5*
4-Bromofluorobenzene	*123*		*67 - 139*		*01/22/20 16:58*	*5*
Dibromofluoromethane	*72*		*62 - 130*		*01/22/20 16:58*	*5*
Toluene-d8 (Surr)	*93*		*70 - 130*		*01/22/20 16:58*	*5*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	9260		250	47.9	mg/L			01/21/20 15:07	500

Client Sample ID: ARTESIA-MW38-01142020
Lab Sample ID: 600-199031-5
Date Collected: 01/14/20 13:40
Matrix: Water
Date Received: 01/15/20 10:36

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00982		0.00100	0.000192	mg/L			01/22/20 16:05	1
Benzene	0.00125		0.00100	0.000176	mg/L			01/22/20 16:05	1
Naphthalene	0.0103	B	0.00200	0.000129	mg/L			01/22/20 16:05	1
Tetrachloroethene	0.00748		0.00100	0.000333	mg/L			01/22/20 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*66*		*50 - 134*		*01/22/20 16:05*	*1*
4-Bromofluorobenzene	*116*		*67 - 139*		*01/22/20 16:05*	*1*
Dibromofluoromethane	*73*		*62 - 130*		*01/22/20 16:05*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*01/22/20 16:05*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Client Sample ID: ARTESIA-MW38-01142020
Lab Sample ID: 600-199031-5
Date Collected: 01/14/20 13:40
Matrix: Water
Date Received: 01/15/20 10:36

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.131		0.0100	0.00168	mg/L			01/22/20 17:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*69*		*50 - 134*		*01/22/20 17:24*	*10*
4-Bromofluorobenzene	*123*		*67 - 139*		*01/22/20 17:24*	*10*
Dibromofluoromethane	*75*		*62 - 130*		*01/22/20 17:24*	*10*
Toluene-d8 (Surr)	*93*		*70 - 130*		*01/22/20 17:24*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	785		50.0	9.57	mg/L			01/17/20 11:40	100

Client Sample ID: ARTESIA-MW37-01142020
Lab Sample ID: 600-199031-6
Date Collected: 01/14/20 13:50
Matrix: Water
Date Received: 01/15/20 10:36

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.0477		0.00100	0.000168	mg/L			01/22/20 16:32	1
1,1-Dichloroethene	0.00667		0.00100	0.000192	mg/L			01/22/20 16:32	1
Benzene	0.00521		0.00100	0.000176	mg/L			01/22/20 16:32	1
Naphthalene	0.00560	B	0.00200	0.000129	mg/L			01/22/20 16:32	1
Tetrachloroethene	0.00432		0.00100	0.000333	mg/L			01/22/20 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*69*		*50 - 134*		*01/22/20 16:32*	*1*
4-Bromofluorobenzene	*120*		*67 - 139*		*01/22/20 16:32*	*1*
Dibromofluoromethane	*73*		*62 - 130*		*01/22/20 16:32*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*01/22/20 16:32*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2090		50.0	9.57	mg/L			01/17/20 11:51	100

Client Sample ID: ARTESIA-MW11-01142020
Lab Sample ID: 600-199031-7
Date Collected: 01/14/20 15:02
Matrix: Water
Date Received: 01/15/20 10:36

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.00360		0.00100	0.000168	mg/L			01/18/20 00:20	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			01/18/20 00:20	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			01/18/20 00:20	1
Naphthalene	0.000527	J	0.00200	0.000129	mg/L			01/18/20 00:20	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			01/18/20 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*50 - 134*		*01/18/20 00:20*	*1*
4-Bromofluorobenzene	*117*		*67 - 139*		*01/18/20 00:20*	*1*
Dibromofluoromethane	*94*		*62 - 130*		*01/18/20 00:20*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*01/18/20 00:20*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Client Sample ID: ARTESIA-MW11-01142020

Date Collected: 01/14/20 15:02
Date Received: 01/15/20 10:36

Lab Sample ID: 600-199031-7

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1630	F1	100	19.1	mg/L			01/17/20 12:02	200

Default Detection Limits

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units
1,1-Dichloroethane	0.00100	0.000168	mg/L
1,1-Dichloroethene	0.00100	0.000192	mg/L
Benzene	0.00100	0.000176	mg/L
Naphthalene	0.00200	0.000129	mg/L
Tetrachloroethene	0.00100	0.000333	mg/L

Method: 300.0 - Anions, Ion Chromatography

Analyte	RL	MDL	Units
Sulfate	0.500	0.0957	mg/L

Surrogate Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(50-134)	(67-139)	(62-130)	(70-130)
600-199031-1	ARTESIA-TB01-01142020	89	119	93	106
600-199031-2	ARTESIA-MW17C-01142020	85	119	91	106
600-199031-3	ARTESIA-MW36-01142020	86	114	92	107
600-199031-4 - DL	ARTESIA-MW12-01142020	66	123	72	93
600-199031-4	ARTESIA-MW12-01142020	66	117	74	94
600-199031-5	ARTESIA-MW38-01142020	66	116	73	91
600-199031-5 - DL	ARTESIA-MW38-01142020	69	123	75	93
600-199031-6	ARTESIA-MW37-01142020	69	120	73	92
600-199031-7	ARTESIA-MW11-01142020	89	117	94	108
LCS 600-285529/3	Lab Control Sample	93	117	97	106
LCS 600-285834/3	Lab Control Sample	63	120	75	94
LCSD 600-285529/4	Lab Control Sample Dup	91	116	95	110
LCSD 600-285834/4	Lab Control Sample Dup	69	121	76	93
MB 600-285529/6	Method Blank	85	117	93	108
MB 600-285834/6	Method Blank	67	120	73	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-285529/6
Matrix: Water
Analysis Batch: 285529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			01/17/20 18:45	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			01/17/20 18:45	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			01/17/20 18:45	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			01/17/20 18:45	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			01/17/20 18:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*50 - 134*		*01/17/20 18:45*	*1*
4-Bromofluorobenzene	*117*		*67 - 139*		*01/17/20 18:45*	*1*
Dibromofluoromethane	*93*		*62 - 130*		*01/17/20 18:45*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*01/17/20 18:45*	*1*

Lab Sample ID: LCS 600-285529/3
Matrix: Water
Analysis Batch: 285529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethane			0.0100	0.01190		mg/L		119	70 - 140		
1,1-Dichloroethene			0.0100	0.01062		mg/L		106	58 - 148		
Benzene			0.0100	0.009567		mg/L		96	70 - 130		
Naphthalene			0.0100	0.008887		mg/L		89	10 - 150		
Tetrachloroethene			0.0100	0.01128		mg/L		113	47 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*50 - 134*
4-Bromofluorobenzene	*117*		*67 - 139*
Dibromofluoromethane	*97*		*62 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 600-285529/4
Matrix: Water
Analysis Batch: 285529

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0100	0.01135		mg/L		113	70 - 140	5	20
1,1-Dichloroethene			0.0100	0.01003		mg/L		100	58 - 148	6	20
Benzene			0.0100	0.009190		mg/L		92	70 - 130	4	20
Naphthalene			0.0100	0.008920		mg/L		89	10 - 150	0	20
Tetrachloroethene			0.0100	0.01130		mg/L		113	47 - 150	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*50 - 134*
4-Bromofluorobenzene	*116*		*67 - 139*
Dibromofluoromethane	*95*		*62 - 130*
Toluene-d8 (Surr)	*110*		*70 - 130*

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-285834/6
Matrix: Water
Analysis Batch: 285834

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			01/22/20 14:19	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			01/22/20 14:19	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			01/22/20 14:19	1
Naphthalene	0.0003796	J	0.00200	0.000129	mg/L			01/22/20 14:19	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			01/22/20 14:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*67*		*50 - 134*		*01/22/20 14:19*	*1*
4-Bromofluorobenzene	*120*		*67 - 139*		*01/22/20 14:19*	*1*
Dibromofluoromethane	*73*		*62 - 130*		*01/22/20 14:19*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*01/22/20 14:19*	*1*

Lab Sample ID: LCS 600-285834/3
Matrix: Water
Analysis Batch: 285834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethane			0.0100	0.01187		mg/L		119	70 - 140		
1,1-Dichloroethene			0.0100	0.01127		mg/L		113	58 - 148		
Benzene			0.0100	0.01157		mg/L		116	70 - 130		
Naphthalene			0.0100	0.006395		mg/L		64	10 - 150		
Tetrachloroethene			0.0100	0.01017		mg/L		102	47 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*63*		*50 - 134*
4-Bromofluorobenzene	*120*		*67 - 139*
Dibromofluoromethane	*75*		*62 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 600-285834/4
Matrix: Water
Analysis Batch: 285834

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0100	0.01138		mg/L		114	70 - 140	4	20
1,1-Dichloroethene			0.0100	0.01085		mg/L		108	58 - 148	4	20
Benzene			0.0100	0.01091		mg/L		109	70 - 130	6	20
Naphthalene			0.0100	0.006285		mg/L		63	10 - 150	2	20
Tetrachloroethene			0.0100	0.009509		mg/L		95	47 - 150	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*69*		*50 - 134*
4-Bromofluorobenzene	*121*		*67 - 139*
Dibromofluoromethane	*76*		*62 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-285350/35
Matrix: Water
Analysis Batch: 285350

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.0957	U	0.500	0.0957	mg/L			01/16/20 23:08	1

Lab Sample ID: LCS 600-285350/36
Matrix: Water
Analysis Batch: 285350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	18.75		mg/L		94	90 - 110

Lab Sample ID: MB 600-285550/6
Matrix: Water
Analysis Batch: 285550

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.0957	U	0.500	0.0957	mg/L			01/17/20 09:31	1

Lab Sample ID: LCS 600-285550/7
Matrix: Water
Analysis Batch: 285550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	18.11		mg/L		91	90 - 110

Lab Sample ID: 600-199031-7 MS
Matrix: Water
Analysis Batch: 285550

Client Sample ID: ARTESIA-MW11-01142020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	1630	F1	2000	4084	F1	mg/L		123	80 - 120

Lab Sample ID: 600-199031-7 MSD
Matrix: Water
Analysis Batch: 285550

Client Sample ID: ARTESIA-MW11-01142020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	1630	F1	2000	4388	F1	mg/L		138	80 - 120	7	20

Lab Sample ID: MB 600-285676/4
Matrix: Water
Analysis Batch: 285676

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.0957	U	0.500	0.0957	mg/L			01/21/20 13:54	1

Lab Sample ID: LCS 600-285676/5
Matrix: Water
Analysis Batch: 285676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	20.02		mg/L		100	90 - 110

QC Association Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

GC/MS VOA

Analysis Batch: 285529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-199031-1	ARTESIA-TB01-01142020	Total/NA	Water	8260B	
600-199031-2	ARTESIA-MW17C-01142020	Total/NA	Water	8260B	
600-199031-3	ARTESIA-MW36-01142020	Total/NA	Water	8260B	
600-199031-7	ARTESIA-MW11-01142020	Total/NA	Water	8260B	
MB 600-285529/6	Method Blank	Total/NA	Water	8260B	
LCS 600-285529/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-285529/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 285834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-199031-4	ARTESIA-MW12-01142020	Total/NA	Water	8260B	
600-199031-4 - DL	ARTESIA-MW12-01142020	Total/NA	Water	8260B	
600-199031-5	ARTESIA-MW38-01142020	Total/NA	Water	8260B	
600-199031-5 - DL	ARTESIA-MW38-01142020	Total/NA	Water	8260B	
600-199031-6	ARTESIA-MW37-01142020	Total/NA	Water	8260B	
MB 600-285834/6	Method Blank	Total/NA	Water	8260B	
LCS 600-285834/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-285834/4	Lab Control Sample Dup	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 285350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-199031-2	ARTESIA-MW17C-01142020	Total/NA	Water	300.0	
600-199031-3	ARTESIA-MW36-01142020	Total/NA	Water	300.0	
MB 600-285350/35	Method Blank	Total/NA	Water	300.0	
LCS 600-285350/36	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 285550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-199031-5	ARTESIA-MW38-01142020	Total/NA	Water	300.0	
600-199031-6	ARTESIA-MW37-01142020	Total/NA	Water	300.0	
600-199031-7	ARTESIA-MW11-01142020	Total/NA	Water	300.0	
MB 600-285550/6	Method Blank	Total/NA	Water	300.0	
LCS 600-285550/7	Lab Control Sample	Total/NA	Water	300.0	
600-199031-7 MS	ARTESIA-MW11-01142020	Total/NA	Water	300.0	
600-199031-7 MSD	ARTESIA-MW11-01142020	Total/NA	Water	300.0	

Analysis Batch: 285676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-199031-4	ARTESIA-MW12-01142020	Total/NA	Water	300.0	
MB 600-285676/4	Method Blank	Total/NA	Water	300.0	
LCS 600-285676/5	Lab Control Sample	Total/NA	Water	300.0	

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Client Sample ID: ARTESIA-TB01-01142020
Lab Sample ID: 600-199031-1
Date Collected: 01/14/20 11:00
Matrix: Water
Date Received: 01/15/20 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285529	01/17/20 23:02	RP	TAL HOU

Client Sample ID: ARTESIA-MW17C-01142020
Lab Sample ID: 600-199031-2
Date Collected: 01/14/20 11:50
Matrix: Water
Date Received: 01/15/20 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285529	01/17/20 23:28	RP	TAL HOU
Total/NA	Analysis	300.0		100	285350	01/17/20 02:53	SKR	TAL HOU

Client Sample ID: ARTESIA-MW36-01142020
Lab Sample ID: 600-199031-3
Date Collected: 01/14/20 12:35
Matrix: Water
Date Received: 01/15/20 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285529	01/17/20 23:54	RP	TAL HOU
Total/NA	Analysis	300.0		200	285350	01/17/20 03:13	SKR	TAL HOU

Client Sample ID: ARTESIA-MW12-01142020
Lab Sample ID: 600-199031-4
Date Collected: 01/14/20 12:40
Matrix: Water
Date Received: 01/15/20 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285834	01/22/20 15:38	YX1	TAL HOU
Total/NA	Analysis	8260B	DL	5	285834	01/22/20 16:58	YX1	TAL HOU
Total/NA	Analysis	300.0		500	285676	01/21/20 15:07	SKR	TAL HOU

Client Sample ID: ARTESIA-MW38-01142020
Lab Sample ID: 600-199031-5
Date Collected: 01/14/20 13:40
Matrix: Water
Date Received: 01/15/20 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285834	01/22/20 16:05	YX1	TAL HOU
Total/NA	Analysis	8260B	DL	10	285834	01/22/20 17:24	YX1	TAL HOU
Total/NA	Analysis	300.0		100	285550	01/17/20 11:40	SKR	TAL HOU

Client Sample ID: ARTESIA-MW37-01142020
Lab Sample ID: 600-199031-6
Date Collected: 01/14/20 13:50
Matrix: Water
Date Received: 01/15/20 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285834	01/22/20 16:32	YX1	TAL HOU
Total/NA	Analysis	300.0		100	285550	01/17/20 11:51	SKR	TAL HOU

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Client Sample ID: ARTESIA-MW11-01142020

Date Collected: 01/14/20 15:02
Date Received: 01/15/20 10:36

Lab Sample ID: 600-199031-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285529	01/18/20 00:20	RP	TAL HOU
Total/NA	Analysis	300.0		200	285550	01/17/20 12:02	SKR	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: Jacobs Engineering Group, Inc.
Job ID: 600-199031-1
Project/Site: Dowell - Artesia 1/14/20

Laboratory: Eurofins TestAmerica, Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0759	08-04-20
Louisiana	NELAP	01967	06-30-20
Oklahoma	State	2019-073	08-31-20
Texas	NELAP	T104704223-19-25	10-31-19 *
Texas	NELAP	T104704223-19-25	10-31-20
USDA	US Federal Programs	P330-18-00130	04-30-21
Utah	NELAP	TX000832019-5	07-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
5030B	Purge and Trap	SW846	TAL HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia 1/14/20

Job ID: 600-199031-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-199031-1	ARTESIA-TB01-01142020	Water	01/14/20 11:00	01/15/20 10:36	
600-199031-2	ARTESIA-MW17C-01142020	Water	01/14/20 11:50	01/15/20 10:36	
600-199031-3	ARTESIA-MW36-01142020	Water	01/14/20 12:35	01/15/20 10:36	
600-199031-4	ARTESIA-MW12-01142020	Water	01/14/20 12:40	01/15/20 10:36	
600-199031-5	ARTESIA-MW38-01142020	Water	01/14/20 13:40	01/15/20 10:36	
600-199031-6	ARTESIA-MW37-01142020	Water	01/14/20 13:50	01/15/20 10:36	
600-199031-7	ARTESIA-MW11-01142020	Water	01/14/20 15:02	01/15/20 10:36	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 282054

Lab Sample ID: IC 600-282054/2 Client Sample ID:

Date Analyzed: 12/04/19 13:08 Lab File ID: C33801.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	4.06	Poor chromatography	xiey	12/04/19 15:36
Chloromethane	4.40	Split Peak	xiey	12/04/19 16:40
Vinyl chloride	4.50	Poor chromatography	xiey	12/04/19 15:37
Bromomethane	4.89	Poor chromatography	xiey	12/04/19 15:37
Chloroethane	5.04	Poor chromatography	xiey	12/04/19 15:37
Dichlorofluoromethane	5.08	Poor chromatography	xiey	12/04/19 15:37
Acrolein	5.55	Poor chromatography	xiey	12/04/19 15:37
Acetonitrile	5.59	Poor chromatography	xiey	12/04/19 15:37
Acetone	5.66	Poor chromatography	xiey	12/04/19 15:37
1,1-Dichloroethene	6.03	Poor chromatography	xiey	12/04/19 15:40
t-Butanol	6.03	Poor chromatography	xiey	12/04/19 15:37
Iodomethane	6.08	Poor chromatography	xiey	12/04/19 15:40
Methyl acetate	6.16	Poor chromatography	xiey	12/04/19 15:40
trans-1,2-Dichloroethene	6.68	Poor chromatography	xiey	12/04/19 15:40
1,1-Dichloroethane	6.87	Poor chromatography	xiey	12/04/19 15:40
Propionitrile	6.88	Poor chromatography	xiey	12/04/19 15:40
Chloroform	7.47	Poor chromatography	xiey	12/04/19 15:40
Dibromofluoromethane	7.56	Poor chromatography	xiey	12/04/19 15:40
Tetrahydrofuran	7.73	Poor chromatography	xiey	12/04/19 15:40
1,2-Dichloroethane-d4 (Surr)	7.91	Poor chromatography	xiey	12/04/19 15:41
1,1,1-Trichloroethane	8.05	Poor chromatography	xiey	12/04/19 15:41
Benzene	8.35	Poor chromatography	xiey	12/04/19 15:41
Ethyl acrylate	8.69	Poor chromatography	xiey	12/04/19 15:41
1,2-Dichloropropane	8.81	Poor chromatography	xiey	12/04/19 15:41
Trichloroethene	8.84	Poor chromatography	xiey	12/04/19 15:42
2-Chloroethyl vinyl ether	9.16	Poor chromatography	xiey	12/04/19 15:42
4-Methyl-2-pentanone (MIBK)	9.44	Poor chromatography	xiey	12/04/19 15:42
trans-1,3-Dichloropropene	9.74	Poor chromatography	xiey	12/04/19 15:42
1,1,2-Trichloroethane	9.91	Poor chromatography	xiey	12/04/19 15:42
2-Hexanone	10.22	Poor chromatography	xiey	12/04/19 15:42

8260B

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 282054

Lab Sample ID: IC 600-282054/2 Client Sample ID:

Date Analyzed: 12/04/19 13:08 Lab File ID: C33801.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromoform	12.09	Poor chromatography	xiey	12/04/19 15:43
trans-1,4-Dichloro-2-butene	12.49	Poor chromatography	xiey	12/04/19 15:43
1,2,3-Trichloropropane	12.50	Poor chromatography	xiey	12/04/19 15:43
Isopropylbenzene	12.70	Poor chromatography	xiey	12/04/19 15:43
1,2-Dichlorobenzene	14.45	Poor chromatography	xiey	12/04/19 15:43
1,2-Dibromo-3-Chloropropane	14.92	Poor chromatography	xiey	12/04/19 15:43
1,2,3-Trichlorobenzene	16.93	Poor chromatography	xiey	12/04/19 15:43

Lab Sample ID: IC 600-282054/3 Client Sample ID:

Date Analyzed: 12/04/19 13:36 Lab File ID: C33802.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.24	Split Peak	xiey	12/04/19 15:57
Iodomethane	6.09	Split Peak	xiey	12/04/19 15:57
1,1-Dichloroethane	6.88	Split Peak	xiey	12/04/19 15:57
Propionitrile	6.88	Split Peak	xiey	12/04/19 15:57
Isobutyl alcohol	7.47	Peak Tail	xiey	12/04/19 15:56
1,2-Dichloroethane-d4 (Surr)	7.91	Peak Tail	xiey	12/04/19 15:56
Ethyl acrylate	8.69	Split Peak	xiey	12/04/19 15:58
1,2-Dichloropropane	8.81	Split Peak	xiey	12/04/19 15:58
1,4-Dioxane	8.95	Split Peak	xiey	12/04/19 15:58
2-Chloroethyl vinyl ether	9.16	Split Peak	xiey	12/04/19 15:58
2-Hexanone	10.22	Split Peak	xiey	12/04/19 15:58
trans-1,4-Dichloro-2-butene	12.48	Split Peak	xiey	12/04/19 15:58
1,2,3-Trichloropropane	12.50	Split Peak	xiey	12/04/19 15:58
1,2-Dibromo-3-Chloropropane	14.93	Split Peak	xiey	12/04/19 15:59
1,2,3-Trichlorobenzene	16.93	Split Peak	xiey	12/04/19 15:59

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 282054

Lab Sample ID: IC 600-282054/4 Client Sample ID:

Date Analyzed: 12/04/19 14:06 Lab File ID: C33803.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.24	Split Peak	xiey	12/04/19 15:47
1,2,3-Trichloropropane	12.50	Split Peak	xiey	12/04/19 15:48

Lab Sample ID: IC 600-282054/5 Client Sample ID:

Date Analyzed: 12/04/19 14:34 Lab File ID: C33804.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.35	Split Peak	xiey	12/04/19 15:49
1,2-Dichloroethane-d4 (Surr)	7.91	Peak Tail	xiey	12/04/19 15:55

Lab Sample ID: ICIS 600-282054/6 Client Sample ID:

Date Analyzed: 12/04/19 15:02 Lab File ID: C33805.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.34	Split Peak	xiey	12/04/19 16:38

Lab Sample ID: IC 600-282054/7 Client Sample ID:

Date Analyzed: 12/04/19 15:30 Lab File ID: C33806.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.34	Split Peak	xiey	12/04/19 15:52
Chlorobenzene-d5	11.48	Incomplete Integration	xiey	12/04/19 16:28

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 282054

Lab Sample ID: IC 600-282054/8 Client Sample ID:

Date Analyzed: 12/04/19 15:57 Lab File ID: C33807.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.33	Split Peak	xiey	12/04/19 16:42
Chlorobenzene-d5	11.49	Incomplete Integration	xiey	12/04/19 16:27

Lab Sample ID: ICV 600-282054/1010 Client Sample ID:

Date Analyzed: 12/04/19 16:52 Lab File ID: C33809-ICV.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.33	Split Peak	xiey	12/04/19 17:17

8260B

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 285834

Lab Sample ID: CCVIS 600-285834/2 Client Sample ID:

Date Analyzed: 01/22/20 12:24 Lab File ID: C02201.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.45	Peak assignment corrected	xiey	01/22/20 12:49
Dibromomethane	8.79	Peak assignment corrected	xiey	01/22/20 12:49

8260B

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHVOAMS07 Analysis Batch Number: 285161

Lab Sample ID: IC 600-285161/2 Client Sample ID:

Date Analyzed: 01/14/20 08:52 Lab File ID: A01401.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	5.83	Baseline	shenw	01/14/20 11:16
Propionitrile	7.09	Baseline	shenw	01/14/20 11:17
n-Butanol	8.29	Baseline	shenw	01/14/20 11:17
Dibromomethane	9.03	Baseline	shenw	01/14/20 11:17
2-Chloroethyl vinyl ether	9.39	Baseline	shenw	01/14/20 11:17
1,4-Dioxane		Invalid Compound ID	shenw	01/14/20 11:28

Lab Sample ID: IC 600-285161/3 Client Sample ID:

Date Analyzed: 01/14/20 09:16 Lab File ID: A01402.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	5.14	Baseline	shenw	01/14/20 11:16
Dibromomethane	9.03	Peak assignment corrected	shenw	01/14/20 11:15
1,4-Dioxane	9.18	Baseline	shenw	01/14/20 11:30
Hexachlorobutadiene	17.02	Baseline	shenw	01/14/20 11:16

Lab Sample ID: IC 600-285161/4 Client Sample ID:

Date Analyzed: 01/14/20 09:42 Lab File ID: A01403.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromomethane	9.03	Peak assignment corrected	shenw	01/14/20 11:15
1,4-Dioxane	9.20	Baseline	shenw	01/14/20 11:29

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHVOAMS07 Analysis Batch Number: 285161

Lab Sample ID: IC 600-285161/5 Client Sample ID:

Date Analyzed: 01/14/20 10:07 Lab File ID: A01404.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromomethane	9.03	Peak assignment corrected	shenw	01/14/20 11:14

Lab Sample ID: ICIS 600-285161/6 Client Sample ID:

Date Analyzed: 01/14/20 10:31 Lab File ID: A01405.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromomethane	9.03	Peak assignment corrected	shenw	01/14/20 10:55

Lab Sample ID: IC 600-285161/7 Client Sample ID:

Date Analyzed: 01/14/20 10:56 Lab File ID: A01406.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromomethane	9.03	Peak assignment corrected	shenw	01/14/20 11:19
Chlorobenzene-d5	11.75	Peak assignment corrected	shenw	01/14/20 11:19

Lab Sample ID: IC 600-285161/8 Client Sample ID:

Date Analyzed: 01/14/20 11:21 Lab File ID: A01407.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.70	Baseline	shenw	01/14/20 11:46
Chlorobenzene-d5	11.75	Peak assignment corrected	shenw	01/14/20 11:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHVOAMS07 Analysis Batch Number: 285161

Lab Sample ID: ICV 600-285161/10 Client Sample ID:

Date Analyzed: 01/14/20 12:23 Lab File ID: A01409.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromomethane	9.03	Peak assignment corrected	shenw	01/14/20 12:48
1,4-Dioxane	9.17	Baseline	shenw	01/14/20 12:53
2-Chloroethyl vinyl ether	9.39	Baseline	shenw	01/14/20 12:51

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHVOAMS07 Analysis Batch Number: 285529

Lab Sample ID: CCVIS 600-285529/2 Client Sample ID:

Date Analyzed: 01/17/20 16:43 Lab File ID: A01701a.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromomethane	9.03	Peak assignment corrected	xiey	01/17/20 17:15

Lab Sample ID: 600-199031-2 Client Sample ID: ARTESIA-MW17C-01142020

Date Analyzed: 01/17/20 23:28 Lab File ID: A01716.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene		Invalid Compound ID	phakdeer	01/20/20 14:19

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC11 Analysis Batch Number: 282084

Lab Sample ID: IC 600-282084/3 Client Sample ID:

Date Analyzed: 12/04/19 15:35 Lab File ID: 600-0032604-003.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.21	Baseline Smoothing	reachs	12/05/19 12:45
Chloride	5.17	Baseline Smoothing	reachs	12/05/19 12:45
Bromide	9.48	Baseline Smoothing	reachs	12/05/19 12:46
Sulfate	10.21	Incomplete Integration	reachs	12/05/19 12:46

Lab Sample ID: IC 600-282084/4 Client Sample ID:

Date Analyzed: 12/04/19 15:55 Lab File ID: 600-0032604-004.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.21	Baseline Smoothing	reachs	12/05/19 12:47
Chloride	5.17	Baseline Smoothing	reachs	12/05/19 12:47
Bromide	9.46	Baseline Smoothing	reachs	12/05/19 12:47
Sulfate	10.20	Baseline Smoothing	reachs	12/05/19 12:47

Lab Sample ID: IC 600-282084/5 Client Sample ID:

Date Analyzed: 12/04/19 16:16 Lab File ID: 600-0032604-005.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.21	Incomplete Integration	reachs	12/05/19 12:48
Chloride	5.17	Incomplete Integration	reachs	12/05/19 12:49
Bromide	9.45	Incomplete Integration	reachs	12/05/19 12:49
Sulfate	10.20	Incomplete Integration	reachs	12/05/19 12:50

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC11 Analysis Batch Number: 282084

Lab Sample ID: IC 600-282084/6 Client Sample ID:

Date Analyzed: 12/04/19 16:36 Lab File ID: 600-0032604-006.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.21	Baseline Smoothing	reachs	12/05/19 12:21
Chloride	5.17	Baseline Smoothing	reachs	12/05/19 12:21
Bromide	9.45	Baseline Smoothing	reachs	12/05/19 12:23
Sulfate	10.18	Baseline Smoothing	reachs	12/05/19 12:23

Lab Sample ID: IC 600-282084/7 Client Sample ID:

Date Analyzed: 12/04/19 16:57 Lab File ID: 600-0032604-007.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.22	Baseline Smoothing	reachs	12/05/19 12:51
Chloride	5.17	Baseline Smoothing	reachs	12/05/19 12:39
Bromide	9.44	Baseline Smoothing	reachs	12/05/19 12:39

Lab Sample ID: IC 600-282084/8 Client Sample ID:

Date Analyzed: 12/04/19 17:17 Lab File ID: 600-0032604-008.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.22	Baseline Smoothing	reachs	12/05/19 12:40
Bromide	9.44	Baseline Smoothing	reachs	12/05/19 12:40

Lab Sample ID: IC 600-282084/9 Client Sample ID:

Date Analyzed: 12/04/19 17:37 Lab File ID: 600-0032604-009.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.22	Baseline Smoothing	reachs	12/05/19 12:41
Chloride	5.17	Baseline Smoothing	reachs	12/05/19 12:41
Sulfate	10.13	Baseline Smoothing	reachs	12/05/19 12:55

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC11 Analysis Batch Number: 285350

Lab Sample ID: CCV 600-285350/26 Client Sample ID:

Date Analyzed: 01/16/20 20:05 Lab File ID: 600-0033285-026.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	9.39	Baseline Smoothing	reachs	01/17/20 10:27

Lab Sample ID: CCV 600-285350/38 Client Sample ID:

Date Analyzed: 01/17/20 00:10 Lab File ID: 600-0033285-038.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	9.36	Baseline Smoothing	reachs	01/17/20 10:39

Lab Sample ID: 600-199031-2 Client Sample ID: ARTESIA-MW17C-01142020

Date Analyzed: 01/17/20 02:53 Lab File ID: 600-0033285-046.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	9.24	Baseline Smoothing	reachs	01/17/20 10:42

Lab Sample ID: 600-199031-3 Client Sample ID: ARTESIA-MW36-01142020

Date Analyzed: 01/17/20 03:13 Lab File ID: 600-0033285-047.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	9.42	Baseline Smoothing	reachs	01/17/20 10:42

Lab Sample ID: CCV 600-285350/48 Client Sample ID:

Date Analyzed: 01/17/20 03:34 Lab File ID: 600-0033285-048.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	9.37	Baseline Smoothing	reachs	01/17/20 10:43

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC11 Analysis Batch Number: 285475

Lab Sample ID: IC 600-285475/3 Client Sample ID:

Date Analyzed: 01/17/20 13:43 Lab File ID: 600-0033309-003.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	9.55	Baseline Smoothing	reachs	01/17/20 17:54

Lab Sample ID: IC 600-285475/4 Client Sample ID:

Date Analyzed: 01/17/20 14:03 Lab File ID: 600-0033309-004.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	9.43	Baseline Smoothing	reachs	01/17/20 17:55

Lab Sample ID: IC 600-285475/9 Client Sample ID:

Date Analyzed: 01/17/20 15:45 Lab File ID: 600-0033309-009.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	9.30	Baseline Smoothing	reachs	01/17/20 17:58

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC11 Analysis Batch Number: 285676

Lab Sample ID: 600-199031-4 Client Sample ID: ARTESIA-MW12-01142020

Date Analyzed: 01/21/20 15:07 Lab File ID: 600-0033355-006.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	9.24	Baseline Smoothing	reachs	01/21/20 17:07

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC17(IC) Analysis Batch Number: 285459

Lab Sample ID: IC 600-285459/5 Client Sample ID:

Date Analyzed: 01/16/20 10:42 Lab File ID: CAL011620-600-0033307-005 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.61	Baseline Smoothing	reachs	01/17/20 13:35

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC17(IC) Analysis Batch Number: 285550

Lab Sample ID: CCV 600-285550/4 Client Sample ID:

Date Analyzed: 01/17/20 09:10 Lab File ID: 011720-600-0033333-004.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	6.55	Baseline Smoothing	reachs	01/17/20 18:08

Lab Sample ID: 600-199031-5 Client Sample ID: ARTESIA-MW38-01142020

Date Analyzed: 01/17/20 11:40 Lab File ID: 011720-600-0033333-018.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	6.58	Baseline Smoothing	reachs	01/17/20 18:18

Lab Sample ID: 600-199031-7 Client Sample ID: ARTESIA-MW11-01142020

Date Analyzed: 01/17/20 12:02 Lab File ID: 011720-600-0033333-020.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	6.57	Baseline Smoothing	reachs	01/20/20 10:17

300.0

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
BFB_00296							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21	Restek, Lot A0120567			(Purchased Reagent)		BFB	2000 ug/mL
BFB_00299							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21	Restek, Lot A0120567			(Purchased Reagent)		BFB	2000 ug/mL
BFB_00300							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21	Restek, Lot A0120567			(Purchased Reagent)		BFB	2000 ug/mL
CCV_00119	04/25/20	01/15/20	DI WATER, Lot NONE	500 mL	WETSICCSO4_00015	10 mL	Sulfate	20 mg/L
.WETSICCSO4_00015	06/21/20	INORGANIC-VENTURE, Lot k2-sox01111			(Purchased Reagent)		Sulfate	1000 mg/L
EOxideStd_00168	01/14/20	12/31/19	Methanol, Lot V071019A	1 mL	MVETYLOIDE_00011	10 uL	Ethylene oxide	500 ug/mL
.MVETYLOIDE_00011	04/30/20	Sigma-Aldrich, Lot LRAB8535			(Purchased Reagent)		Ethylene oxide	50000 ug/mL
ICCALSTD2_00052	12/26/19	10/25/19	DI WATER, Lot NONE	100 mL	WETSICCBRO_00013	20 uL	Bromide	0.2 mg/L
					WETSICCCL_00024	40 uL	Chloride	0.4 mg/L
					WETSICCFL_00014	20 uL	Fluoride	0.2 mg/L
					WETSICCSO4_00016	40 uL	Sulfate	0.4 mg/L
.WETSICCBRO_00013	04/25/20	INORGANIC VENTURES, Lot N2-BR665239			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00024	12/26/19	INORGANIC-VENTURE, Lot N2-CL664868			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00016	02/26/20	INORGANIC-VENTURE, Lot N2-SOX671919			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD2_00053	04/07/20	10/07/19	DI WATER, Lot NONE	100 mL	WETSICCBRO_00013	20 uL	Bromide	0.2 mg/L
					WETSICCCL_00024	40 uL	Chloride	0.4 mg/L
					WETSICCFL_00014	20 uL	Fluoride	0.2 mg/L
					WETSICCSO4_00016	40 uL	Sulfate	0.4 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.WETSICCBRO_00013	04/25/20	INORGANIC VENTURES, Lot N2-BR665239			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00024	12/26/19	INORGANIC-VENTURE, Lot N2-CL664868			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00016	02/26/20	INORGANIC-VENTURE, Lot N2-SOX671919			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD3_00045	12/26/19	10/25/19	DI WATER, Lot NONE	100 mL	WETSICCBRO_00013	50 uL	Bromide	0.5 mg/L
					WETSICCCL_00024	100 uL	Chloride	1 mg/L
					WETSICCFL_00014	50 uL	Fluoride	0.5 mg/L
					WETSICCSO4_00016	100 uL	Sulfate	1 mg/L
.WETSICCBRO_00013	04/25/20	INORGANIC VENTURES, Lot N2-BR665239			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00024	12/26/19	INORGANIC-VENTURE, Lot N2-CL664868			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00016	02/26/20	INORGANIC-VENTURE, Lot N2-SOX671919			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD3_00046	04/07/20	10/07/19	DI WATER, Lot NONE	100 mL	WETSICCBRO_00013	50 uL	Bromide	0.5 mg/L
					WETSICCCL_00024	100 uL	Chloride	1 mg/L
					WETSICCFL_00014	50 uL	Fluoride	0.5 mg/L
					WETSICCSO4_00016	100 uL	Sulfate	1 mg/L
.WETSICCBRO_00013	04/25/20	INORGANIC VENTURES, Lot N2-BR665239			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00024	12/26/19	INORGANIC-VENTURE, Lot N2-CL664868			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00016	02/26/20	INORGANIC-VENTURE, Lot N2-SOX671919			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD4_00044	12/26/19	10/25/19	DI WATER, Lot NONE	100 mL	WETSICCBRO_00013	100 uL	Bromide	1 mg/L
					WETSICCCL_00024	200 uL	Chloride	2 mg/L
					WETSICCFL_00014	100 uL	Fluoride	1 mg/L
					WETSICCSO4_00016	200 uL	Sulfate	2 mg/L
.WETSICCBRO_00013	04/25/20	INORGANIC VENTURES, Lot N2-BR665239			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00024	12/26/19	INORGANIC-VENTURE, Lot N2-CL664868			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00016	02/26/20	INORGANIC-VENTURE, Lot N2-SOX671919			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD4_00045	04/07/20	10/07/19	DI WATER, Lot NONE	100 mL	WETSICCBRO_00013	100 uL	Bromide	1 mg/L
					WETSICCCL_00024	200 uL	Chloride	2 mg/L
					WETSICCFL_00014	100 uL	Fluoride	1 mg/L
					WETSICCSO4_00016	200 uL	Sulfate	2 mg/L
.WETSICCBRO_00013	04/25/20	INORGANIC VENTURES, Lot N2-BR665239			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00024	12/26/19	INORGANIC-VENTURE, Lot N2-CL664868			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00016	02/26/20	INORGANIC-VENTURE, Lot N2-SOX671919			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD5_00045	12/26/19	10/25/19	DI WATER, Lot NONE	100 mL	WETSICCBRO_00013	200 uL	Bromide	2 mg/L
					WETSICCCL_00024	500 uL	Chloride	5 mg/L
					WETSICCFL_00014	200 uL	Fluoride	2 mg/L
					WETSICCSO4_00016	500 uL	Sulfate	5 mg/L
.WETSICCBRO_00013	04/25/20	INORGANIC VENTURES, Lot N2-BR665239			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00024	12/26/19	INORGANIC-VENTURE, Lot N2-CL664868			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00016	02/26/20	INORGANIC-VENTURE, Lot N2-SOX671919			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD5_00046	04/07/20	10/07/19	DI WATER, Lot NONE	100 mL	WETSICCBRO_00013	200 uL	Bromide	2 mg/L
					WETSICCCL_00024	500 uL	Chloride	5 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					WETSICCFL_00014	200 uL	Fluoride	2 mg/L
					WETSICCSO4_00016	500 uL	Sulfate	5 mg/L
.WETSICCBRO_00013	04/25/20	INORGANIC VENTURES, Lot N2-BR665239			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00024	12/26/19	INORGANIC-VENTURE, Lot N2-CL664868			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00016	02/26/20	INORGANIC-VENTURE, Lot N2-SOX671919			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD6_00041	12/26/19	10/25/19	DI WATER, Lot NONE	100 mL	WETSICCBRO_00013	500 uL	Bromide	5 mg/L
					WETSICCCL_00024	1000 uL	Chloride	10 mg/L
					WETSICCFL_00014	500 uL	Fluoride	5 mg/L
					WETSICCSO4_00016	1 mL	Sulfate	10 mg/L
.WETSICCBRO_00013	04/25/20	INORGANIC VENTURES, Lot N2-BR665239			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00024	12/26/19	INORGANIC-VENTURE, Lot N2-CL664868			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00016	02/26/20	INORGANIC-VENTURE, Lot N2-SOX671919			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD6_00042	04/07/20	10/07/19	DI WATER, Lot NONE	100 mL	WETSICCBRO_00013	500 uL	Bromide	5 mg/L
					WETSICCCL_00024	1000 uL	Chloride	10 mg/L
					WETSICCFL_00014	500 uL	Fluoride	5 mg/L
					WETSICCSO4_00016	1 mL	Sulfate	10 mg/L
.WETSICCBRO_00013	04/25/20	INORGANIC VENTURES, Lot N2-BR665239			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00024	12/26/19	INORGANIC-VENTURE, Lot N2-CL664868			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00016	02/26/20	INORGANIC-VENTURE, Lot N2-SOX671919			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD7_00044	12/26/19	10/25/19	DI WATER, Lot NONE	100 mL	WETSICCBRO_00013	750 uL	Bromide	7.5 mg/L
					WETSICCCL_00024	2 mL	Chloride	20 mg/L
					WETSICCFL_00014	750 uL	Fluoride	7.5 mg/L
					WETSICCSO4_00016	2 mL	Sulfate	20 mg/L
.WETSICCBRO_00013	04/25/20	INORGANIC VENTURES, Lot N2-BR665239			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00024	12/26/19	INORGANIC-VENTURE, Lot N2-CL664868			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00016	02/26/20	INORGANIC-VENTURE, Lot N2-SOX671919			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD7_00045	04/07/20	10/07/19	DI WATER, Lot NONE	100 mL	WETSICCBRO_00013	750 uL	Bromide	7.5 mg/L
					WETSICCCL_00024	2 mL	Chloride	20 mg/L
					WETSICCFL_00014	750 uL	Fluoride	7.5 mg/L
					WETSICCSO4_00016	2 mL	Sulfate	20 mg/L
.WETSICCBRO_00013	04/25/20	INORGANIC VENTURES, Lot N2-BR665239			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00024	12/26/19	INORGANIC-VENTURE, Lot N2-CL664868			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00016	02/26/20	INORGANIC-VENTURE, Lot N2-SOX671919			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD8_00032	12/26/19	10/25/19	DI WATER, Lot NONE	100 mL	WETSICCBRO_00013	1 mL	Bromide	10 mg/L
					WETSICCCL_00024	4 mL	Chloride	40 mg/L
					WETSICCFL_00014	1 mL	Fluoride	10 mg/L
					WETSICCSO4_00016	4 mL	Sulfate	40 mg/L
.WETSICCBRO_00013	04/25/20	INORGANIC VENTURES, Lot N2-BR665239			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00024	12/26/19	INORGANIC-VENTURE, Lot N2-CL664868			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00016	02/26/20	INORGANIC-VENTURE, Lot N2-SOX671919			(Purchased Reagent)		Sulfate	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ICCALSTD8_00033	04/07/20	10/07/19	DI WATER, Lot NONE	100 mL	WETSICCBRO_00013	1 mL	Bromide	10 mg/L
					WETSICCCL_00024	4 mL	Chloride	40 mg/L
					WETSICCFL_00014	1 mL	Fluoride	10 mg/L
					WETSICCSO4_00016	4 mL	Sulfate	40 mg/L
.WETSICCBRO_00013	04/25/20	INORGANIC VENTURES, Lot N2-BR665239			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00024	12/26/19	INORGANIC-VENTURE, Lot N2-CL664868			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00016	02/26/20	INORGANIC-VENTURE, Lot N2-SOX671919			(Purchased Reagent)		Sulfate	1000 mg/L
ICSMS_00125	06/24/20	01/09/20	DI WATER, Lot NONE	50 mL	WETSICISO4_00012	10 mL	Sulfate	200 mg/L
.WETSICISO4_00012	09/29/20	ACCUSTANDARD, Lot 218085152			(Purchased Reagent)		Sulfate	1000 mg/L
ICV/LCS_00110	06/24/20	12/24/19	DI WATER, Lot NONE	500 mL	WETSICISO4_00012	10 mL	Sulfate	20 mg/L
.WETSICISO4_00012	09/29/20	ACCUSTANDARD, Lot 218085152			(Purchased Reagent)		Sulfate	1000 mg/L
VOAIS50PPM_00265	12/04/19	11/20/19	Methanol, Lot V071019A	1 mL	VOA3IS_00031	20 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VOA3IS_00031	06/30/23	Restek, Lot A0138856			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VOAIS50PPM_00268	01/14/20	12/31/19	Methanol, Lot V071019A	1 mL	VOA3IS_00031	20 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VOA3IS_00031	06/30/23	Restek, Lot A0138856			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VOAIS50PPM_00269	01/28/20	01/14/20	Methanol, Lot V071019A	1 mL	VOA3IS_00031	20 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VOA3IS_00031	06/30/23	Restek, Lot A0138856			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VOALCSPT2_00156	01/14/20	12/31/19	Methanol, Lot V071019A	1 mL	VOALMegMi2017_00004	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00004	06/30/21	Restek, Lot A0144202			(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOALCSPT2_00157	01/28/20	01/14/20	Methanol, Lot V071019A	1 mL	VOALMegMi2017_00004	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VOALMegMi2017_00004	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOALCSPT2T_00074	12/04/19	11/20/19	Methanol, Lot V071019A	1 mL	VOALMegMi2017_00004	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00004	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOALCSPT2T_00078	01/28/20	01/14/20	Methanol, Lot V071019A	1 mL	VOALMegMi2017_00004	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00004	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOASS50PPM_00303	12/04/19	11/20/19	Methanol, Lot V071019A	1 mL	VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASS50PPM_00306	01/14/20	12/31/19	Methanol, Lot V071019A	1 mL	VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASS50PPM_00307	01/28/20	01/14/20	Methanol, Lot V071019A	1 mL	VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASTDGASPT_00354	12/05/19	11/29/19	Methanol, Lot V071019A	1 mL	VOARGAS_00014	20 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VOARGAS_00014	10/31/20		Restek, Lot A0131502		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VOASTDGASPT_00360	01/14/20	01/07/20	Methanol, Lot V100919A	1 mL	VOARGAS_00014	20 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VOARGAS_00014	10/31/20		Restek, Lot A0131502		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VOASTDPT2_00156	01/14/20	12/31/19	Methanol, Lot V071019A	1 mL	VOAMegMix2017_00006	20 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VOAR2CEVE_00014	40 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VOARAcroleinS_00006	12.5 uL	Acrolein	250 ug/mL
					VOARADD4COM_00009	20 uL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VOARADDCOM_00015	20 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VOARCYCHONE_00027	100 uL	Cyclohexanone	2500 ug/mL
					VOARKETONDup_00002	8 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VOARPOLADD_00013	20 uL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					VOARVASTD_00006	20 uL	Vinyl acetate	100 ug/mL
.VOAMegMix2017_00006	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.VOAR2CEVE_00014	12/31/20		Restek, Lot A0133302		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcroleinS_00006	03/31/20		Restek, Lot A0153030		(Purchased Reagent)		Acrolein	20000 ug/mL
.VOARADD4COM_00009	05/31/20		Restek, Lot A0143198		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VOARADDCOM_00015	07/31/20		Restek, Lot A0145375		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VOARCYCHONE_00027	12/31/20		Restek, Lot A0133136		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.VOARKETONDup_00002	01/31/20		RESTEK, Lot A0123890		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARPOLADD_00013	07/31/20		Restek, Lot A0139911		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.VOARVASTD_00006	01/31/20		Restek, Lot A0150515		(Purchased Reagent)		Vinyl acetate	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VOASTDPT2_00157	01/28/20	01/14/20	Methanol, Lot V071019A	1 mL	VOAMegMix2017_00006	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
					VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOAMegMix2017_00006	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASTDst_00123	12/04/19	11/20/19	Methanol, Lot V071019A	1 mL	VOAMegMix2017_00006	20 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VOAR2CEVE_00014	40 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VOARAcroleinS_00006	12.5 uL	Acrolein	250 ug/mL
					VOARADD4COM_00009	20 uL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VOARADDCOM_00015	20 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VOARKETONDup_00002	8 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VOARPOLADD_00013	20 uL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					VOARVASTD_00006	20 uL	Vinyl acetate	100 ug/mL
.VOAMegMix2017_00006	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VOAR2CEVE_00014	12/31/20		Restek, Lot A0133302		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcroleinS_00006	03/31/20		Restek, Lot A0153030		(Purchased Reagent)		Acrolein	20000 ug/mL
.VOARADD4COM_00009	05/31/20		Restek, Lot A0143198		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VOARADDCOM_00015	07/31/20		Restek, Lot A0145375		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VOARKETONDup_00002	01/31/20		RESTEK, Lot A0123890		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARPOLADD_00013	07/31/20		Restek, Lot A0139911		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.VOARVASTD_00006	01/31/20		Restek, Lot A0150515		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VOASTDst_00127	01/28/20	01/14/20	Methanol, Lot V071019A	1 mL	VOAMegMix2017_00006	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
					VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOAMegMix2017_00006	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene-d8 (Surr)	2500 ug/mL

Method 8260B Low Level

Volatile Organic Compounds (GC/MS) by Method 8260B Low Level

Released to Imaging: 6/9/2021 9:44:58 AM

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-VRX 60 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ARTESIA-TB01-01142020	600-199031-1	93	89	106	119
ARTESIA-MW17C-01142020	600-199031-2	91	85	106	119
ARTESIA-MW36-01142020	600-199031-3	92	86	107	114
ARTESIA-MW12-01142020	600-199031-4	74	66	94	117
ARTESIA-MW12-01142020 DL	600-199031-4 DL	72	66	93	123
ARTESIA-MW38-01142020	600-199031-5	73	66	91	116
ARTESIA-MW38-01142020 DL	600-199031-5 DL	75	69	93	123
ARTESIA-MW37-01142020	600-199031-6	73	69	92	120
ARTESIA-MW11-01142020	600-199031-7	94	89	108	117
	MB 600-285529/6	93	85	108	117
	MB 600-285834/6	73	67	93	120
	LCS 600-285529/3	97	93	106	117
	LCS 600-285834/3	75	63	94	120
	LCSD 600-285529/4	95	91	110	116
	LCSD 600-285834/4	76	69	93	121

	QC LIMITS
DBFM = Dibromofluoromethane	62-130
DCA = 1,2-Dichloroethane-d4 (Surr)	50-134
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	67-139

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A01702.d

Lab ID: LCS 600-285529/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.01190	119	70-140	
1,1-Dichloroethene	0.0100	0.01062	106	58-148	
Benzene	0.0100	0.009567	96	70-130	
Naphthalene	0.0100	0.008887	89	10-150	
Tetrachloroethene	0.0100	0.01128	113	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C02202.D

Lab ID: LCS 600-285834/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.01187	119	70-140	
1,1-Dichloroethene	0.0100	0.01127	113	58-148	
Benzene	0.0100	0.01157	116	70-130	
Naphthalene	0.0100	0.006395	64	10-150	
Tetrachloroethene	0.0100	0.01017	102	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A01703.d

Lab ID: LCSD 600-285529/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.01135	113	5	20	70-140	
1,1-Dichloroethene	0.0100	0.01003	100	6	20	58-148	
Benzene	0.0100	0.009190	92	4	20	70-130	
Naphthalene	0.0100	0.008920	89	0	20	10-150	
Tetrachloroethene	0.0100	0.01130	113	0	20	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C02203.D

Lab ID: LCSD 600-285834/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.01138	114	4	20	70-140	
1,1-Dichloroethene	0.0100	0.01085	108	4	20	58-148	
Benzene	0.0100	0.01091	109	6	20	70-130	
Naphthalene	0.0100	0.006285	63	2	20	10-150	
Tetrachloroethene	0.0100	0.009509	95	7	20	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab File ID: A01705.d Lab Sample ID: MB 600-285529/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHVOAMS07 Date Analyzed: 01/17/2020 18:45

GC Column: DB-VRX 60 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-285529/3	A01702.d	01/17/2020 17:31
	LCSD 600-285529/4	A01703.d	01/17/2020 17:56
ARTESIA-TB01-01142020	600-199031-1	A01715.d	01/17/2020 23:02
ARTESIA-MW17C-01142020	600-199031-2	A01716.d	01/17/2020 23:28
ARTESIA-MW36-01142020	600-199031-3	A01717.d	01/17/2020 23:54
ARTESIA-MW11-01142020	600-199031-7	A01718.d	01/18/2020 00:20

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab File ID: C02205.D Lab Sample ID: MB 600-285834/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHVOAMS01 Date Analyzed: 01/22/2020 14:19

GC Column: DB-VRX 60 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-285834/3	C02202.D	01/22/2020 13:01
	LCSD 600-285834/4	C02203.D	01/22/2020 13:27
ARTESIA-MW12-01142020	600-199031-4	C02208.D	01/22/2020 15:38
ARTESIA-MW38-01142020	600-199031-5	C02209.D	01/22/2020 16:05
ARTESIA-MW37-01142020	600-199031-6	C02210.D	01/22/2020 16:32
ARTESIA-MW12-01142020 DL	600-199031-4 DL	C02211.D	01/22/2020 16:58
ARTESIA-MW38-01142020 DL	600-199031-5 DL	C02212.D	01/22/2020 17:24

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab File ID: C33800.D BFB Injection Date: 12/04/2019

Instrument ID: CHVOAMS01 BFB Injection Time: 12:43

Analysis Batch No.: 282054

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.3	
75	30.0 - 60.0 % of mass 95	48.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	79.7	
175	5.0 - 9.0 % of mass 174	5.9	(7.4) 1
176	95.0 - 101.0 % of mass 174	76.5	(96.0) 1
177	5.0 - 9.0 % of mass 176	5.1	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 600-282054/2	C33801.D	12/04/2019	13:08
	IC 600-282054/3	C33802.D	12/04/2019	13:36
	IC 600-282054/4	C33803.D	12/04/2019	14:06
	IC 600-282054/5	C33804.D	12/04/2019	14:34
	ICIS 600-282054/6	C33805.D	12/04/2019	15:02
	IC 600-282054/7	C33806.D	12/04/2019	15:30
	IC 600-282054/8	C33807.D	12/04/2019	15:57
	ICV 600-282054/1010	C33809-ICV.d	12/04/2019	16:52

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab File ID: C02200.D BFB Injection Date: 01/22/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 11:57

Analysis Batch No.: 285834

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.0	
75	30.0 - 60.0 % of mass 95	51.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	77.0	
175	5.0 - 9.0 % of mass 174	5.5	(7.2) 1
176	95.0 - 101.0 % of mass 174	73.5	(95.5) 1
177	5.0 - 9.0 % of mass 176	4.8	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 600-285834/2	C02201.D	01/22/2020	12:24
	LCS 600-285834/3	C02202.D	01/22/2020	13:01
	LCSD 600-285834/4	C02203.D	01/22/2020	13:27
	MB 600-285834/6	C02205.D	01/22/2020	14:19
ARTESIA-MW12-01142020	600-199031-4	C02208.D	01/22/2020	15:38
ARTESIA-MW38-01142020	600-199031-5	C02209.D	01/22/2020	16:05
ARTESIA-MW37-01142020	600-199031-6	C02210.D	01/22/2020	16:32
ARTESIA-MW12-01142020 DL	600-199031-4 DL	C02211.D	01/22/2020	16:58
ARTESIA-MW38-01142020 DL	600-199031-5 DL	C02212.D	01/22/2020	17:24

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab File ID: A01400.D BFB Injection Date: 01/14/2020

Instrument ID: CHVOAMS07 BFB Injection Time: 08:02

Analysis Batch No.: 285161

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.2	
75	30.0 - 60.0 % of mass 95	52.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	8.5	
173	Less than 2.0 % of mass 174	1.0	(1.1) 1
174	50.0 - 120.00 % of mass 95	97.7	
175	5.0 - 9.0 % of mass 174	7.8	(8.0) 1
176	95.0 - 101.0 % of mass 174	95.0	(97.2) 1
177	5.0 - 9.0 % of mass 176	6.3	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 600-285161/2	A01401.d	01/14/2020	08:52
	IC 600-285161/3	A01402.d	01/14/2020	09:16
	IC 600-285161/4	A01403.d	01/14/2020	09:42
	IC 600-285161/5	A01404.d	01/14/2020	10:07
	ICIS 600-285161/6	A01405.d	01/14/2020	10:31
	IC 600-285161/7	A01406.d	01/14/2020	10:56
	IC 600-285161/8	A01407.d	01/14/2020	11:21
	ICV 600-285161/10	A01409.d	01/14/2020	12:23

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab File ID: A01700a.d BFB Injection Date: 01/17/2020

Instrument ID: CHVOAMS07 BFB Injection Time: 15:34

Analysis Batch No.: 285529

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.3	
75	30.0 - 60.0 % of mass 95	41.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.2	(0.2) 1
174	50.0 - 120.00 % of mass 95	108.0	
175	5.0 - 9.0 % of mass 174	7.7	(7.2) 1
176	95.0 - 101.0 % of mass 174	104.0	(96.3) 1
177	5.0 - 9.0 % of mass 176	6.7	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 600-285529/2	A01701a.d	01/17/2020	16:43
	LCS 600-285529/3	A01702.d	01/17/2020	17:31
	LCSD 600-285529/4	A01703.d	01/17/2020	17:56
	MB 600-285529/6	A01705.d	01/17/2020	18:45
ARTESIA-TB01-01142020	600-199031-1	A01715.d	01/17/2020	23:02
ARTESIA-MW17C-01142020	600-199031-2	A01716.d	01/17/2020	23:28
ARTESIA-MW36-01142020	600-199031-3	A01717.d	01/17/2020	23:54
ARTESIA-MW11-01142020	600-199031-7	A01718.d	01/18/2020	00:20

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Sample No.: ICIS 600-282054/6 Date Analyzed: 12/04/2019 15:02

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C33805.D Heated Purge: (Y/N) N

Calibration ID: 17376

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		413447	8.49	152513	11.49	144038	14.06
UPPER LIMIT		826894	8.99	305026	11.99	288076	14.56
LOWER LIMIT		206724	7.99	76257	10.99	72019	13.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 600-282054/1010		456907	8.50	163919	11.48	157674	14.07
CCVIS 600-285834/2		460047	8.48	144908	11.48	101665	14.06

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Sample No.: CCVIS 600-285834/2 Date Analyzed: 01/22/2020 12:24

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C02201.D Heated Purge: (Y/N) N

Calibration ID: 17376

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		460047	8.48	144908	11.48	101665	14.06
UPPER LIMIT		920094	8.98	289816	11.98	203330	14.56
LOWER LIMIT		230024	7.98	72454	10.98	50833	13.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 600-285834/3		456401	8.48	151109	11.48	115348	14.06
LCSD 600-285834/4		465915	8.49	155157	11.48	119378	14.06
MB 600-285834/6		411698	8.49	132373	11.48	97504	14.06
600-199031-4	ARTESIA-MW12-01142020	386703	8.49	125701	11.48	102830	14.06
600-199031-5	ARTESIA-MW38-01142020	425897	8.49	142007	11.48	117057	14.06
600-199031-6	ARTESIA-MW37-01142020	447791	8.49	148412	11.48	118313	14.06
600-199031-4 DL	ARTESIA-MW12-01142020 DL	430682	8.49	141156	11.48	104708	14.06
600-199031-5 DL	ARTESIA-MW38-01142020 DL	413014	8.49	136437	11.48	103689	14.06

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Sample No.: ICIS 600-285161/6 Date Analyzed: 01/14/2020 10:31

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): A01405.d Heated Purge: (Y/N) N

Calibration ID: 17600

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		671229	8.72	223916	11.75	259231	14.32
UPPER LIMIT		1342458	9.22	447832	12.25	518462	14.82
LOWER LIMIT		335615	8.22	111958	11.25	129616	13.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 600-285161/10		692503	8.72	224758	11.74	262271	14.32
CCVIS 600-285529/2		841986	8.72	296604	11.75	363369	14.32

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Sample No.: CCVIS 600-285529/2 Date Analyzed: 01/17/2020 16:43

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): A01701a.d Heated Purge: (Y/N) N

Calibration ID: 17600

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		841986	8.72	296604	11.75	363369	14.32
UPPER LIMIT		1683972	9.22	593208	12.25	726738	14.82
LOWER LIMIT		420993	8.22	148302	11.25	181685	13.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 600-285529/3		830348	8.72	296967	11.75	341726	14.32
LCSD 600-285529/4		825496	8.72	286681	11.75	341657	14.32
MB 600-285529/6		784156	8.72	274255	11.75	314564	14.32
600-199031-1	ARTESIA-TB01-01142020	764140	8.73	270205	11.76	308940	14.34
600-199031-2	ARTESIA-MW17C-01142020	786052	8.73	272203	11.76	313226	14.34
600-199031-3	ARTESIA-MW36-01142020	764612	8.73	268219	11.76	344538	14.34
600-199031-7	ARTESIA-MW11-01142020	836089	8.73	290976	11.76	344651	14.34

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-TB01-01142020 Lab Sample ID: 600-199031-1

Matrix: Water Lab File ID: A01715.d

Analysis Method: 8260B Date Collected: 01/14/2020 11:00

Sample wt/vol: 20(mL) Date Analyzed: 01/17/2020 23:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285529 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000487	J	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		50-134
460-00-4	4-Bromofluorobenzene	119		67-139
1868-53-7	Dibromofluoromethane	93		62-130
2037-26-5	Toluene-d8 (Surr)	106		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW17C-01142020 Lab Sample ID: 600-199031-2

Matrix: Water Lab File ID: A01716.d

Analysis Method: 8260B Date Collected: 01/14/2020 11:50

Sample wt/vol: 20(mL) Date Analyzed: 01/17/2020 23:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285529 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000277	J	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		50-134
460-00-4	4-Bromofluorobenzene	119		67-139
1868-53-7	Dibromofluoromethane	91		62-130
2037-26-5	Toluene-d8 (Surr)	106		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW36-01142020 Lab Sample ID: 600-199031-3

Matrix: Water Lab File ID: A01717.d

Analysis Method: 8260B Date Collected: 01/14/2020 12:35

Sample wt/vol: 20(mL) Date Analyzed: 01/17/2020 23:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285529 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0411		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000457	J	0.00100	0.000192
71-43-2	Benzene	0.0138		0.00100	0.000176
91-20-3	Naphthalene	0.00696		0.00200	0.000129
127-18-4	Tetrachloroethene	0.00733		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		50-134
460-00-4	4-Bromofluorobenzene	114		67-139
1868-53-7	Dibromofluoromethane	92		62-130
2037-26-5	Toluene-d8 (Surr)	107		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW12-01142020 Lab Sample ID: 600-199031-4

Matrix: Water Lab File ID: C02208.D

Analysis Method: 8260B Date Collected: 01/14/2020 12:40

Sample wt/vol: 20(mL) Date Analyzed: 01/22/2020 15:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285834 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00275		0.00100	0.000192
71-43-2	Benzene	0.00899		0.00100	0.000176
91-20-3	Naphthalene	0.00340	B	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000515	J	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	66		50-134
460-00-4	4-Bromofluorobenzene	117		67-139
1868-53-7	Dibromofluoromethane	74		62-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW12-01142020 DL Lab Sample ID: 600-199031-4 DL

Matrix: Water Lab File ID: C02211.D

Analysis Method: 8260B Date Collected: 01/14/2020 12:40

Sample wt/vol: 20(mL) Date Analyzed: 01/22/2020 16:58

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285834 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0517		0.00500	0.000840

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	66		50-134
460-00-4	4-Bromofluorobenzene	123		67-139
1868-53-7	Dibromofluoromethane	72		62-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW38-01142020 Lab Sample ID: 600-199031-5

Matrix: Water Lab File ID: C02209.D

Analysis Method: 8260B Date Collected: 01/14/2020 13:40

Sample wt/vol: 20(mL) Date Analyzed: 01/22/2020 16:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285834 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00982		0.00100	0.000192
71-43-2	Benzene	0.00125		0.00100	0.000176
91-20-3	Naphthalene	0.0103	B	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00748		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	66		50-134
460-00-4	4-Bromofluorobenzene	116		67-139
1868-53-7	Dibromofluoromethane	73		62-130
2037-26-5	Toluene-d8 (Surr)	91		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW38-01142020 DL Lab Sample ID: 600-199031-5 DL

Matrix: Water Lab File ID: C02212.D

Analysis Method: 8260B Date Collected: 01/14/2020 13:40

Sample wt/vol: 20(mL) Date Analyzed: 01/22/2020 17:24

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285834 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.131		0.0100	0.00168

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	69		50-134
460-00-4	4-Bromofluorobenzene	123		67-139
1868-53-7	Dibromofluoromethane	75		62-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW37-01142020 Lab Sample ID: 600-199031-6

Matrix: Water Lab File ID: C02210.D

Analysis Method: 8260B Date Collected: 01/14/2020 13:50

Sample wt/vol: 20(mL) Date Analyzed: 01/22/2020 16:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285834 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0477		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00667		0.00100	0.000192
71-43-2	Benzene	0.00521		0.00100	0.000176
91-20-3	Naphthalene	0.00560	B	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00432		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	69		50-134
460-00-4	4-Bromofluorobenzene	120		67-139
1868-53-7	Dibromofluoromethane	73		62-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW11-01142020 Lab Sample ID: 600-199031-7

Matrix: Water Lab File ID: A01718.d

Analysis Method: 8260B Date Collected: 01/14/2020 15:02

Sample wt/vol: 20(mL) Date Analyzed: 01/18/2020 00:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285529 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00360		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000527	J	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		50-134
460-00-4	4-Bromofluorobenzene	117		67-139
1868-53-7	Dibromofluoromethane	94		62-130
2037-26-5	Toluene-d8 (Surr)	108		70-130

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282054

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 13:08 Calibration End Date: 12/04/2019 15:57 Calibration ID: 17376

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-282054/2	C33801.D
Level 2	IC 600-282054/3	C33802.D
Level 3	IC 600-282054/4	C33803.D
Level 4	IC 600-282054/5	C33804.D
Level 5	ICIS 600-282054/6	C33805.D
Level 6	IC 600-282054/7	C33806.D
Level 7	IC 600-282054/8	C33807.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.1561 0.2379	0.1810 0.2214	0.1799	0.2475	0.2449	Lin2	-0.044	0.2340							0.9910		0.9900
Chloromethane	0.1475 0.1056	0.1470 0.0940	0.1285	0.1425	0.1259	Qua	0.0579	0.1161	-0.000469		0.1000				0.9980		0.9900
Vinyl chloride	0.0762 0.1135	0.0969 0.0886	0.1021	0.1309	0.1270	Qua	-0.029	0.1349	-0.000916						1.0000		0.9900
Butadiene	0.1070 0.1255	0.1197 0.1017	0.1072	0.1498	0.1369	Ave		0.1211				14.6		15.0			
Bromomethane	0.0036 0.0685	0.0282 0.0703	0.0372	0.0552	0.0685	Qua	-0.051	0.0712	0.0000017						1.0000		0.9900
Chloroethane	0.1039 0.1628	0.1328 0.1406	0.1271	0.1738	0.1689	Lin1	-0.012	0.1511							0.9910		0.9900
Dichlorofluoromethane	0.2445 0.3999	0.3150 0.3691	0.3040	0.4274	0.4140	Lin2	-0.081	0.3984							0.9900		0.9900
Acrolein	0.0020 0.0064	0.0046 0.0057	0.0043	0.0053	0.0057	Lin2	-0.009	0.0059							0.9910		0.9900
Trichlorofluoromethane	0.3270 0.4619	0.4227 0.4196	0.3911	0.5021	0.4763	Ave		0.4287				13.7		15.0			
Acetonitrile	0.0070 0.0101	0.0106 0.0086	0.0100	0.0107	0.0096	Ave		0.0095				13.7		15.0			
Isopropyl alcohol	0.0034 0.0058	0.0054 0.0052	0.0054	0.0060	0.0057	Lin2	-0.011	0.0059							0.9940		0.9900
Acetone	0.0499 0.0277	0.0396 0.0252	0.0322	0.0270	0.0272	Lin2	0.0246	0.0259							0.9980		0.9900
Ethyl ether	0.1089 0.1541	0.1669 0.1323	0.1497	0.1636	0.1573	Ave		0.1476				13.8		15.0			
t-Butanol	0.0080 0.0109	0.0102 0.0099	0.0104	0.0116	0.0114	Ave		0.0103				11.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282054

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 13:08 Calibration End Date: 12/04/2019 15:57 Calibration ID: 17376

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloroethene	0.1780 0.2239	0.2436 0.1802	0.2296	0.2381	0.2313	Ave		0.2178				12.5		15.0			
Acrylonitrile	0.0151 0.0244	0.0216 0.0194	0.0216	0.0242	0.0231	Lin2	-0.035	0.0233							0.9900		0.9900
Iodomethane	0.0590 0.2734	0.1092 0.2243	0.1520	0.1900	0.2261	Lin	-0.012	0.2308							0.9910		0.9900
Methylene Chloride	0.6498 0.2308	0.3587 0.1741	0.3133	0.2738	0.2424	Qua	0.1324	0.2546	-0.001660						1.0000		0.9900
Methyl acetate	0.0514 0.0656	0.0764 0.0505	0.0687	0.0714	0.0633	Qua	-0.022	0.0741	-0.000233						0.9990		0.9900
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1724 0.2233	0.2407 0.1942	0.2337	0.2396	0.2328	Ave		0.2195				11.9		15.0			
3-Chloro-1-propene	0.1011 0.1438	0.1459 0.1040	0.1434	0.1540	0.1516	Qua	-0.043	0.1717	-0.001336						1.0000		0.9900
Carbon disulfide	0.6651 0.6434	0.7259 0.5768	0.7073	0.6638	0.6625	Ave		0.6636				7.2		15.0			
trans-1,2-Dichloroethene	0.2045 0.2430	0.2558 0.2099	0.2486	0.2454	0.2489	Ave		0.2366				8.7		15.0			
Methyl tert-butyl ether	0.3883 0.5519	0.5710 0.4829	0.5548	0.5677	0.5643	Ave		0.5258				12.9		15.0			
Propionitrile	0.0068 0.0118	0.0100 0.0095	0.0108	0.0105	0.0116	Lin2	-0.020	0.0112							0.9910		0.9900
1,1-Dichloroethane	0.3379 0.4389	0.4848 0.3638	0.4805	0.4544	0.4548	Ave		0.4307			0.1000	13.3		15.0			
Vinyl acetate	0.1846 0.2772	0.2608 0.2249	0.2615	0.2815	0.2646	Ave		0.2507				13.7		15.0			
2-Chloro-1,3-butadiene	0.2847 0.3741	0.4011 0.3042	0.4020	0.4065	0.4062	Ave		0.3684				14.1		15.0			
Hexane	0.2848 0.3104	0.3926 0.2156	0.3720	0.3565	0.3385	Qua	-0.007	0.3732	-0.003148						1.0000		0.9900
Isopropyl ether	0.6196 0.6699	0.8743 0.4793	0.8276	0.7652	0.7392	Qua	0.0233	0.7973	-0.006370						1.0000		0.9900
2-Butanone (MEK)	+++++ 0.0136	0.0115 0.0115	0.0127	0.0137	0.0140	Ave		0.0128				8.8		15.0			
Methacrylonitrile	0.0094 0.0155	0.0139 0.0118	0.0149	0.0153	0.0156	Qua	-0.064	0.0180	-0.000012						1.0000		0.9900
cis-1,2-Dichloroethene	0.2080 0.2464	0.2668 0.2174	0.2584	0.2498	0.2578	Ave		0.2435				9.1		15.0			
Ethyl acetate	0.0741 0.1009	0.1008 0.0875	0.0936	0.0948	0.1000	Ave		0.0931				10.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282054

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 13:08 Calibration End Date: 12/04/2019 15:57 Calibration ID: 17376

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobromomethane	0.0709 0.0974	0.0976 0.0817	0.0980	0.1027	0.1072	Ave		0.0936				13.6		15.0			
Tert-butyl ethyl ether	0.5085 0.7133	0.7821 0.5650	0.7605	0.7772	0.7667	Qua	-0.091	0.8213	-0.005091						1.0000		0.9900
Chloroform	0.3787 0.4100	0.4821 0.3439	0.4778	0.4430	0.4476	Ave		0.4261				12.0		15.0			
Isobutyl alcohol	0.0049 0.0069	0.0061 0.0055	0.0080	0.0078	0.0076	Qua	-0.015	0.0080	-0.000002						1.0000		0.9900
2,2-Dichloropropane	0.3230 0.4255	0.4511 0.3793	0.4535	0.4519	0.4379	Ave		0.4174				11.8		15.0			
Tetrahydrofuran	0.0187 0.0249	0.0244 0.0230	0.0232	0.0241	0.0255	Ave		0.0234				9.6		15.0			
1,2-Dichloroethane	0.1718 0.2346	0.2370 0.2255	0.2375	0.2413	0.2431	Ave		0.2273				11.0		15.0			
n-Butanol	0.0024 0.0027	0.0022 0.0023	0.0023	0.0024	0.0026	Ave		0.0024				6.8		15.0			
1,1,1-Trichloroethane	0.3047 0.4148	0.4302 0.3914	0.4224	0.4330	0.4453	Ave		0.4060				11.8		15.0			
1,1-Dichloropropene	0.2700 0.3551	0.3649 0.3234	0.3572	0.3731	0.3835	Ave		0.3467				11.2		15.0			
Cyclohexane	0.3313 0.3880	0.4393 0.3390	0.4177	0.4129	0.4198	Ave		0.3926				10.7		15.0			
Carbon tetrachloride	0.2813 0.3782	0.3816 0.3587	0.3804	0.3933	0.4052	Ave		0.3684				11.1		15.0			
Benzene	0.8130 0.9082	1.0443 0.7436	1.0146	1.0005	0.9987	Ave		0.9319				12.3		15.0			
Tert-amyl methyl ether	0.4362 0.6109	0.6336 0.5325	0.6292	0.6414	0.6460	Ave		0.5900				13.2		15.0			
Isooctane	0.6320 0.7017	0.8421 0.5871	0.8011	0.7611	0.7750	Ave		0.7286				12.7		15.0			
Ethyl acrylate	0.1106 0.1997	0.1812 0.1756	0.1784	0.1950	0.2029	Lin2	-0.039	0.1991							0.9930		0.9900
n-Heptane	0.2326 0.2728	0.3150 0.2277	0.2989	0.2976	0.3000	Ave		0.2778				12.5		15.0			
Dibromomethane	0.0537 0.0882	0.0827 0.0773	0.0877	0.0902	0.0932	Lin2	-0.016	0.0905							0.9910		0.9900
1,2-Dichloropropane	0.1647 0.2090	0.2318 0.1638	0.2319	0.2292	0.2289	Ave		0.2085				15.0		15.0			
2-Nitropropane	0.0184 0.0352	0.0271 0.0315	0.0294	0.0321	0.0354	Lin2	-0.016	0.0342							0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282054

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 13:08 Calibration End Date: 12/04/2019 15:57 Calibration ID: 17376

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Trichloroethene	0.1945 0.2579	0.2670 0.2251	0.2699	0.2736	0.2761	Ave		0.2520				12.2		15.0			
Bromodichloromethane	0.1907 0.2987	0.2778 0.2740	0.2933	0.3058	0.3120	Ave		0.2789				14.8		15.0			
Methyl methacrylate	0.0606 0.1139	0.0947 0.0983	0.1021	0.1144	0.1144	Lin2	-0.049	0.1133							0.9940		0.9900
1,4-Dioxane	+++++ 0.0007	0.0004 0.0007	0.0006	0.0008	0.0007	Lin2	-0.006	0.0008							0.9960		0.9900
2-Chloroethyl vinyl ether	0.0155 0.0789	0.0487 0.0790	0.0538	0.0643	0.0719	Lin2	-0.060	0.0756							0.9950		0.9900
Methylcyclohexane	0.3250 0.4102	0.4418 0.3709	0.4282	0.4521	0.4584	Ave		0.4124				11.8		15.0			
cis-1,3-Dichloropropene	0.6098 0.9177	0.9200 0.8332	0.9161	0.9387	0.9404	Ave		0.8680				13.8		15.0			
4-Methyl-2-pentanone (MIBK)	0.0652 0.1015	0.0983 0.0959	0.0945	0.1011	0.1055	Ave		0.0946				14.3		15.0			
trans-1,3-Dichloropropene	0.4469 0.7140	0.6403 0.6611	0.6719	0.6965	0.7100	Ave		0.6487				14.3		15.0			
1,1,2-Trichloroethane	0.2617 0.3597	0.3822 0.3287	0.3786	0.3628	0.3689	Ave		0.3489				12.1		15.0			
Ethyl methacrylate	0.2441 0.4766	0.3929 0.4228	0.4165	0.4743	0.4775	Lin2	-0.108	0.4747							0.9960		0.9900
Toluene	1.3092 1.5275	1.7671 1.2926	1.7182	1.6424	1.6304	Ave		1.5553				12.2		15.0			
1,3-Dichloropropane	0.4808 0.6706	0.6705 0.5966	0.6953	0.6931	0.6903	Ave		0.6425				12.3		15.0			
2-Hexanone	0.0954 0.1789	0.1574 0.1609	0.1547	0.1760	0.1773	Lin2	-0.075	0.1778							0.9950		0.9900
Dibromochloromethane	0.2815 0.4759	0.4190 0.4513	0.4407	0.4622	0.4791	Lin2	-0.091	0.4804							0.9980		0.9900
n-Butyl acetate	0.2918 0.4885	0.4238 0.4429	0.4303	0.4724	0.4782	Lin2	-0.087	0.4807							0.9970		0.9900
1,2-Dibromoethane	0.2098 0.3531	0.3188 0.3300	0.3314	0.3432	0.3471	Lin2	-0.064	0.3545							0.9970		0.9900
Tetrachloroethene	0.4373 0.5281	0.5759 0.4779	0.5734	0.5528	0.5646	Ave		0.5300				10.0		15.0			
1-Chlorohexane	0.4076 0.5561	0.5980 0.4854	0.5835	0.5907	0.5997	Ave		0.5459				13.4		15.0			
1,1,1,2-Tetrachloroethane	0.4360 0.6578	0.6599 0.5625	0.6466	0.6554	0.6645	Ave		0.6118				13.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282054

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 13:08 Calibration End Date: 12/04/2019 15:57 Calibration ID: 17376

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobenzene	1.5039 1.5917	1.7619 1.4103	1.7262	1.6488	1.6623	Ave		1.6150			0.3000	7.7		15.0			
Ethylbenzene	0.7194 0.9104	0.9549 0.7917	0.9617	0.9601	0.9576	Ave		0.8937				11.0		15.0			
m-Xylene & p-Xylene	1.6235 2.0205	2.1599 1.7752	2.1425	2.1374	2.1469	Ave		2.0009				10.8		15.0			
Bromoform	0.1026 0.2222	0.1752 0.2222	0.1981	0.2026	0.2139	Lin2	-0.058	0.2228			0.1000				0.9990		0.9900
Styrene	0.9575 1.4810	1.2828 1.3518	1.4197	1.4762	1.5412	Ave		1.3586				14.5		15.0			
o-Xylene	0.8267 1.0173	1.1047 0.8773	1.1232	1.0924	1.0966	Ave		1.0197				11.8		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.4083	0.3675 0.3421	0.4240	0.4369	0.4150	Ave		0.3990			0.3000	9.1		15.0			
trans-1,4-Dichloro-2-butene	0.0093 0.0910	0.0584 0.0864	0.0640	0.0804	0.0856	Lin2	-0.039	0.0893							0.9960		0.9900
1,2,3-Trichloropropane	0.0453 0.1189	0.1102 0.1090	0.1107	0.1162	0.1191	Lin1	-0.017	0.1138							0.9970		0.9900
Isopropylbenzene	2.0640 2.7107	2.8987 2.2489	2.7921	2.8276	2.8938	Ave		2.6337				12.8		15.0			
Bromobenzene	0.4967 0.6402	0.6509 0.5841	0.6358	0.6297	0.6525	Ave		0.6129				9.2		15.0			
N-Propylbenzene	0.5983 0.7416	0.7717 0.6648	0.7598	0.7758	0.8022	Ave		0.7306				9.9		15.0			
2-Chlorotoluene	0.5209 0.6405	0.6754 0.5763	0.6607	0.6531	0.6702	Ave		0.6281				9.2		15.0			
4-Chlorotoluene	1.5937 1.8811	1.9827 1.6677	1.9459	1.9487	1.9361	Ave		1.8508				8.4		15.0			
1,3,5-Trimethylbenzene	2.0056 2.1757	2.4102 1.9315	2.3322	2.2492	2.2614	Ave		2.1951				7.9		15.0			
tert-Butylbenzene	1.5017 1.7832	1.9649 1.6193	1.8948	1.8910	1.9183	Ave		1.7962				9.7		15.0			
1,2,4-Trimethylbenzene	1.8075 2.2420	2.3429 2.0200	2.3581	2.3027	2.3719	Ave		2.2064				9.7		15.0			
sec-Butylbenzene	2.0873 2.5702	2.7806 2.3259	2.7246	2.7142	2.7641	Ave		2.5667				10.3		15.0			
Benzyl chloride	0.5238 0.7790	0.7266 0.6890	0.7770	0.7980	0.7937	Ave		0.7267				13.5		15.0			
1,3-Dichlorobenzene	1.0753 1.2949	1.3582 1.1547	1.3534	1.3294	1.3542	Ave		1.2743				8.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282054

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 13:08 Calibration End Date: 12/04/2019 15:57 Calibration ID: 17376

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
4-Isopropyltoluene	1.8918 2.1200	2.3891 1.8394	2.3803	2.3059	2.3397	Ave		2.1809				10.7		15.0			
1,4-Dichlorobenzene	1.0778 1.2738	1.3717 1.0564	1.3732	1.3579	1.3725	Ave		1.2690				11.2		15.0			
1,2,3-Trimethylbenzene	1.9337 2.4753	2.5518 2.2024	2.5028	2.5473	2.5922	Ave		2.4008				10.1		15.0			
1,2-Dichlorobenzene	0.9293 1.2276	1.1980 1.0943	1.1831	1.2073	1.2557	Ave		1.1565				9.7		15.0			
n-Butylbenzene	1.6208 1.9489	2.0444 1.7863	1.9868	2.0350	2.0592	Ave		1.9259				8.5		15.0			
1,2-Dibromo-3-Chloropropane	0.0196 0.0765	0.0583 0.0679	0.0625	0.0718	0.0718	Lin2	-0.026	0.0754							0.9940		0.9900
1,3,5-Trichlorobenzene	0.7327 0.9240	0.9289 0.7947	0.9612	0.9567	0.9643	Ave		0.8946				10.3		15.0			
1,2,4-Trichlorobenzene	0.4518 0.6518	0.6501 0.5413	0.6702	0.6732	0.6677	Ave		0.6152				13.9		15.0			
Naphthalene	0.9289 1.0802	1.1135 0.8719	1.0888	1.1317	1.0942	Ave		1.0442				9.7		15.0			
Hexachlorobutadiene	0.0925 0.1380	0.1321 0.1207	0.1381	0.1429	0.1447	Ave		0.1299				14.1		15.0			
1,2,3-Trichlorobenzene	0.3204 0.4485	0.4771 0.3584	0.4642	0.4763	0.4681	Ave		0.4304				14.8		15.0			
Dibromofluoromethane	0.1892 0.2459	0.2546 0.2203	0.2509	0.2522	0.2569	Ave		0.2386				10.5		15.0			
1,2-Dichloroethane-d4 (Surr)	0.1864 0.2109	0.2131 0.2153	0.2129	0.2160	0.2171	Ave		0.2103				5.1		15.0			
Toluene-d8 (Surr)	2.1804 2.2548	2.5872 1.9225	2.4742	2.4421	2.4254	Ave		2.3267				9.7		15.0			
4-Bromofluorobenzene	1.1229 0.7980	0.8601 0.7108	0.8114	0.7958	0.8256	Lin2	0.1682	0.7534							0.9950		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282054

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 13:08 Calibration End Date: 12/04/2019 15:57 Calibration ID: 17376

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-282054/2	C33801.D
Level 2	IC 600-282054/3	C33802.D
Level 3	IC 600-282054/4	C33803.D
Level 4	IC 600-282054/5	C33804.D
Level 5	ICIS 600-282054/6	C33805.D
Level 6	IC 600-282054/7	C33806.D
Level 7	IC 600-282054/8	C33807.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Lin2	2625 163932	6319 376837	11647	40411	81015	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloromethane	FB	Qua	2481 72745	5130 160003	8318	23264	41650	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Vinyl chloride	FB	Qua	1281 78230	3381 150882	6607	21365	41997	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Butadiene	FB	Ave	1800 86480	4180 173120	6942	24464	45297	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromomethane	FB	Qua	60 47216	984 119661	2411	9007	22646	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloroethane	FB	Lin1	1748 112139	4635 239369	8228	28381	55860	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dichlorofluoromethane	FB	Lin2	4112 275515	10997 628227	19674	69787	136929	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acrolein	FB	Lin2	166 22058	808 48405	1378	4352	9373	2.50 100	5.00 250	10.0	25.0	50.0
Trichlorofluoromethane	FB	Ave	5500 318214	14757 714229	25313	81982	157550	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acetonitrile	FB	Ave	1183 69827	3708 147231	6466	17485	31723	5.00 200	10.0 500	20.0	50.0	100
Isopropyl alcohol	FB	Lin2	569 39985	1876 89241	3510	9742	18765	5.00 200	10.0 500	20.0	50.0	100
Acetone	FB	Lin2	1677 38203	2768 85739	4162	8811	18025	1.00 40.0	2.00 100	4.00	10.0	20.0
Ethyl ether	FB	Ave	1832 106153	5827 225178	9692	26708	52042	0.500 20.0	1.00 50.0	2.00	5.00	10.0
t-Butanol	FB	Ave	1339 75324	3564 168470	6704	18959	37647	5.00 200	10.0 500	20.0	50.0	100
1,1-Dichloroethene	FB	Ave	2994 154241	8503 306752	14863	38875	76510	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282054

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 13:08 Calibration End Date: 12/04/2019 15:57 Calibration ID: 17376

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Lin2	2547 168429	7527 330372	13973	39500	76348	5.00 200	10.0 500	20.0	50.0	100
Iodomethane	FB	Lin	993 188362	3813 381786	9838	31017	74800	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methylene Chloride	FB	Qua	10930 159043	12522 296373	20278	44700	80190	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl acetate	FB	Qua	1729 90426	5334 171811	8890	23327	41847	1.00 40.0	2.00 100	4.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	2899 153870	8404 330560	15127	39121	77016	0.500 20.0	1.00 50.0	2.00	5.00	10.0
3-Chloro-1-propene	FB	Qua	1700 99091	5092 176988	9280	25141	50141	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon disulfide	FB	Ave	11187 443301	25342 981838	45783	108375	219142	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	3439 167419	8930 357377	16092	40063	82340	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl tert-butyl ether	FB	Ave	6531 380242	19932 821983	35912	92682	186638	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Propionitrile	FB	Lin2	1149 81423	3474 162063	7002	17168	38401	5.00 200	10.0 500	20.0	50.0	100
1,1-Dichloroethane	FB	Ave	5683 302381	16923 619306	31104	74189	150428	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Vinyl acetate	FB	Ave	6210 381912	18206 765744	33853	91924	175043	1.00 40.0	2.00 100	4.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	4788 257727	14003 517845	26018	66374	134351	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexane	FB	Qua	4790 213868	13706 366964	24081	58206	111947	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropyl ether	FB	Qua	10421 461558	30521 815933	53571	124941	244490	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Ave	+++++ 18793	803 39045	1647	4481	9235	+++++ 40.0	2.00 100	4.00	10.0	20.0
Methacrylonitrile	FB	Qua	1577 106744	4869 200979	9660	24967	51644	5.00 200	10.0 500	20.0	50.0	100
cis-1,2-Dichloroethene	FB	Ave	3498 169754	9314 370104	16727	40780	85284	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acetate	FB	Ave	2492 139003	7039 297828	12113	30945	66119	1.00 40.0	2.00 100	4.00	10.0	20.0
Chlorobromomethane	FB	Ave	1193 67092	3408 139130	6342	16761	35441	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-butyl ethyl ether	FB	Qua	8553 491417	27303 961812	49223	126888	253576	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282054

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 13:08 Calibration End Date: 12/04/2019 15:57 Calibration ID: 17376

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chloroform	FB	Ave	6370 282489	16828 585346	30926	72326	148032	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Qua	2076 118698	5327 232208	13024	31973	63075	12.5 500	25.0 1250	50.0	125	250
2,2-Dichloropropane	FB	Ave	5433 293127	15749 645587	29353	73784	144828	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrahydrofuran	FB	Ave	630 34377	1701 78165	3001	7869	16839	1.00 40.0	2.00 100	4.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	2890 161618	8275 383935	15371	39403	80401	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butanol	FB	Ave	1024 45877	1939 97192	3666	9904	21247	12.5 500	25.0 1250	50.0	125	250
1,1,1-Trichloroethane	FB	Ave	5125 285801	15017 666272	27340	70704	147270	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	4541 244634	12737 550500	23123	60912	126846	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Cyclohexane	FB	Ave	5573 267287	15335 577069	27034	67419	138855	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	4732 260549	13320 610669	24625	64217	134011	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzene	FB	Ave	13675 625747	36456 1265862	65673	163360	330331	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-amyl methyl ether	FB	Ave	7337 420895	22119 906462	40728	104727	213678	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isooctane	FB	Ave	10631 483476	29397 999402	51856	124259	256340	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acrylate	FB	Lin2	1861 137593	6327 298880	11548	31844	67104	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Heptane	FB	Ave	3913 187923	10997 387637	19346	48582	99234	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromomethane	FB	Lin2	903 60756	2887 131637	5675	14728	30819	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Ave	2770 144013	8091 278802	15008	37423	75717	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Nitropropane	FB	Lin2	620 48447	1893 107357	3802	10482	23442	1.00 40.0	2.00 100	4.00	10.0	20.0
Trichloroethene	FB	Ave	3271 177677	9321 383100	17467	44679	91321	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	3208 205771	9697 466412	18985	49921	103212	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl methacrylate	FB	Lin2	2038 156973	6613 334663	13215	37358	75684	1.00 40.0	2.00 100	4.00	10.0	20.0

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282054

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 13:08 Calibration End Date: 12/04/2019 15:57 Calibration ID: 17376

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	FB	Lin2	+++++ 10261	313 23662	752	2464	4856	+++++ 400	20.0 1000	40.0	100	200
2-Chloroethyl vinyl ether	CBNZ d5	Lin2	180 39604	1142 102194	2411	7571	17548	1.00 40.0	2.00 100	4.00	10.0	20.0
Methylcyclohexane	FB	Ave	5467 282629	15422 631414	27718	73816	151605	0.500 20.0	1.00 50.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	3542 230195	10783 538978	20540	55232	114735	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	2192 139851	6861 326435	12239	33018	69814	1.00 40.0	2.00 100	4.00	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	2596 179112	7505 427668	15064	40981	86627	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	1520 90233	4479 212629	8488	21346	45011	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl methacrylate	CBNZ d5	Lin2	1418 119565	4605 273487	9337	27906	58263	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene	CBNZ d5	Ave	7605 383169	20711 836209	38522	96636	198931	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	2793 168215	7859 385962	15588	40783	84221	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Hexanone	CBNZ d5	Lin2	1108 89764	3690 208122	6938	20710	43268	1.00 40.0	2.00 100	4.00	10.0	20.0
Dibromochloromethane	CBNZ d5	Lin2	1635 119387	4911 291958	9881	27196	58457	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butyl acetate	CBNZ d5	Lin2	1695 122528	4967 286522	9648	27793	58340	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Lin2	1219 88582	3737 213464	7429	20192	42352	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	2540 132470	6750 309158	12855	32524	68883	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1-Chlorohexane	CBNZ d5	Ave	2368 139487	7009 314029	13082	34757	73170	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	DCBd 4	Ave	2493 153393	7227 355853	14215	36808	76575	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	8736 399289	20650 912286	38702	97014	202818	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	4179 228368	11192 512144	21562	56492	116843	0.500 20.0	1.00 50.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	9431 506853	25315 1148347	48036	125763	261946	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromoform	CBNZ d5	Lin2	596 55735	2054 143746	4441	11923	26094	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282054

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 13:08 Calibration End Date: 12/04/2019 15:57 Calibration ID: 17376

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Styrene	CBNZ d5	Ave	5562 371513	15035 874466	31831	86855	188040	0.500 20.0	1.00 50.0	2.00	5.00	10.0
o-Xylene	CBNZ d5	Ave	4802 255188	12947 567510	25182	64275	133795	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 95210	4025 216405	9321	24537	47818	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin2	53 21229	640 54668	1407	4514	9860	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Lin1	259 27720	1207 68938	2434	6524	13720	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	11801 632131	31745 1422730	61381	158812	333451	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromobenzene	DCBd 4	Ave	2840 149288	7128 369544	13978	35369	75193	0.500 20.0	1.00 50.0	2.00	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	3421 172941	8451 420605	16703	43575	92435	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	2978 149365	7397 364572	14524	36682	77226	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	9112 438658	21714 1055043	42779	109448	223098	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	11467 507354	26395 1221922	51271	126327	260582	0.500 20.0	1.00 50.0	2.00	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	8586 415834	21519 1024428	41656	106208	221044	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	10334 522835	25659 1277917	51841	129330	273314	0.500 20.0	1.00 50.0	2.00	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	11934 599360	30452 1471456	59898	152444	318508	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzyl chloride	DCBd 4	Ave	2995 181667	7957 435863	17081	44819	91453	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	6148 301961	14874 730493	29754	74666	156044	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	10816 494378	26164 1163712	52329	129509	269600	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	6162 297033	15022 668341	30189	76267	158155	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	11056 577230	27946 1393356	55021	143069	298695	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	5313 286273	13120 692272	26008	67808	144700	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	9267 454468	22389 1130116	43678	114298	237283	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282054

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 13:08 Calibration End Date: 12/04/2019 15:57 Calibration ID: 17376

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin2	112 17828	638 42928	1375	4034	8276	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	4189 215470	10173 502734	21131	53731	111113	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	2583 152000	7120 342473	14733	37808	76940	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Naphthalene	DCBd 4	Ave	5311 251901	12195 551632	23935	63564	126084	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	529 32184	1447 76335	3035	8027	16678	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	1832 104586	5225 226722	10205	26750	53940	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromofluoromethane	FB	Ave	3183 169438	8888 374985	16241	41173	84975	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	3136 145332	7440 366547	13782	35262	71793	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene-d8 (Surr)	CBNZ d5	Ave	12666 565624	30323 1243677	55473	143691	295924	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Bromofluorobenzene	DCBd 4	Lin2	6420 186080	9419 449691	17838	44696	95130	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285161

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2020 08:52 Calibration End Date: 01/14/2020 11:21 Calibration ID: 17600

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-285161/2	A01401.d
Level 2	IC 600-285161/3	A01402.d
Level 3	IC 600-285161/4	A01403.d
Level 4	IC 600-285161/5	A01404.d
Level 5	ICIS 600-285161/6	A01405.d
Level 6	IC 600-285161/7	A01406.d
Level 7	IC 600-285161/8	A01407.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.5007 0.5188	0.6211 0.5993	0.5815	0.5453	0.5645	Ave		0.5616				7.7		15.0			
Chloromethane	0.9599 0.6375	0.8221 0.7409	0.7424	0.7223	0.6998	Ave		0.7607			0.1000	13.6		15.0			
Vinyl chloride	0.7609 0.6677	0.7185 0.8826	0.7160	0.6666	0.6896	Ave		0.7288				10.3		15.0			
Butadiene	0.7179 0.6838	0.7835 0.8407	0.7241	0.7150	0.7703	Ave		0.7479				7.1		15.0			
Ethylene oxide	0.0890 0.0197	0.0608 0.0250	0.0316	0.0254	0.0211	Qua	0.4341	0.0138	0.0000206						1.0000		0.9900
Bromomethane	0.2146 0.1990	0.2672 0.2461	0.2016	0.1948	0.1978	Ave		0.2173				13.0		15.0			
Chloroethane	0.2845 0.1940	0.2280 0.2282	0.2343	0.2064	0.2139	Ave		0.2270				12.8		15.0			
Acrolein	0.0086 0.0052	0.0082 0.0055	0.0078	0.0045	0.0051	Lin1	0.0104	0.0053							0.9930		0.9900
Trichlorofluoromethane	0.5540 0.5367	0.6480 0.6333	0.5960	0.6193	0.6291	Ave		0.6023				7.0		15.0			
Acetonitrile	0.0190 0.0140	0.0153 0.0158	0.0155	0.0135	0.0139	Ave		0.0153				12.2		15.0			
Isopropyl alcohol	0.0119 0.0068	0.0078 0.0078	0.0075	0.0065	0.0057	Lin	-0.060	0.0077							0.9950		0.9900
Acetone	0.0813 0.0309	0.0528 0.0334	0.0439	0.0367	0.0346	Lin2	0.0487	0.0313							0.9960		0.9900
Ethyl ether	0.2363 0.1780	0.2097 0.1817	0.2056	0.1771	0.1574	Ave		0.1923				13.7		15.0			
1,1-Dichloroethene	0.2695 0.2843	0.2865 0.2737	0.3075	0.2803	0.2740	Ave		0.2823				4.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285161

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2020 08:52 Calibration End Date: 01/14/2020 11:21 Calibration ID: 17600

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
t-Butanol	0.0144 0.0142	0.0127 0.0157	0.0140	0.0123	0.0117	Ave		0.0136				10.3		15.0			
Acrylonitrile	0.0306 0.0354	0.0301 0.0384	0.0355	0.0312	0.0309	Ave		0.0332				9.8		15.0			
Iodomethane	0.3956 0.4390	0.3965 0.4633	0.4670	0.4547	0.4254	Ave		0.4345				6.9		15.0			
Methylene Chloride	0.9023 0.3017	0.5121 0.3349	0.3812	0.3136	0.2840	Lin1	0.2240	0.3090							0.9900		0.9900
Methyl acetate	0.1122 0.1068	0.0993 0.1193	0.0998	0.0918	0.0918	Ave		0.1030				10.0		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2944 0.2972	0.3117 0.2921	0.3249	0.2913	0.2821	Ave		0.2991				4.8		15.0			
3-Chloro-1-propene	0.2076 0.1811	0.1833 0.1657	0.1968	0.1802	0.1676	Ave		0.1832				8.2		15.0			
Carbon disulfide	0.8781 0.7144	0.7681 0.7528	0.7844	0.7032	0.6707	Ave		0.7531				9.0		15.0			
trans-1,2-Dichloroethene	0.3909 0.3542	0.3687 0.3734	0.3617	0.3329	0.3269	Ave		0.3584				6.3		15.0			
Methyl tert-butyl ether	0.5473 0.6054	0.6170 0.6322	0.6548	0.5696	0.5599	Ave		0.5980				6.7		15.0			
1,1-Dichloroethane	0.5781 0.5813	0.6128 0.6032	0.6186	0.5782	0.5395	Ave		0.5874			0.1000	4.6		15.0			
Propionitrile	0.0115 0.0155	0.0116 0.0165	0.0148	0.0136	0.0132	Ave		0.0138				13.9		15.0			
Vinyl acetate	0.2319 0.3368	0.2425 0.3600	0.3013	0.3035	0.2912	Lin2	-0.109	0.3254							0.9920		0.9900
Hexane	0.3749 0.4570	0.3611 0.5187	0.4302	0.4211	0.4048	Ave		0.4240				12.5		15.0			
2-Chloro-1,3-butadiene	0.4518 0.5939	0.4837 0.6903	0.5348	0.5284	0.5148	Ave		0.5425				14.5		15.0			
Isopropyl ether	1.0304 1.2451	1.0712 1.4604	1.2126	1.1344	1.0912	Ave		1.1779				12.4		15.0			
2-Butanone (MEK)	0.0075 0.0177	0.0095 0.0197	0.0185	0.0152	0.0160	Lin1	-0.015	0.0189							0.9940		0.9900
Methacrylonitrile	0.0170 0.0206	0.0146 0.0239	0.0180	0.0174	0.0179	Lin	-0.277	0.0240							0.9960		0.9900
cis-1,2-Dichloroethene	0.3884 0.3961	0.3736 0.4337	0.3832	0.3864	0.3673	Ave		0.3898				5.5		15.0			
Ethyl acetate	0.0997 0.1285	0.0724 0.1345	0.1101	0.1005	0.1088	Lin1	-0.081	0.1301							0.9940		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285161

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2020 08:52 Calibration End Date: 01/14/2020 11:21 Calibration ID: 17600

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobromomethane	0.1576 0.1615	0.1797 0.1729	0.1709	0.1670	0.1536	Ave		0.1662				5.5		15.0			
Tert-butyl ethyl ether	0.7529 0.9270	0.7861 1.0648	0.8695	0.8545	0.8234	Ave		0.8683				11.9		15.0			
Chloroform	0.5367 0.6498	0.6055 0.7651	0.6420	0.6103	0.5948	Ave		0.6292				11.2		15.0			
Isobutyl alcohol	0.0038 0.0062	0.0055 0.0059	0.0071	0.0061	0.0052	Lin1	-0.011	0.0059							0.9960		0.9900
2,2-Dichloropropane	0.5189 0.5288	0.5373 0.5483	0.5595	0.5291	0.4995	Ave		0.5316				3.7		15.0			
Tetrahydrofuran	0.0819 0.0342	0.0458 0.0357	0.0330	0.0336	0.0305	Lin1	0.0301	0.0338							0.9920		0.9900
1,2-Dichloroethane	0.2936 0.2921	0.2996 0.3006	0.2953	0.2695	0.2612	Ave		0.2874				5.4		15.0			
1,1,1-Trichloroethane	0.5504 0.5926	0.5765 0.6350	0.6278	0.5744	0.5536	Ave		0.5872				5.7		15.0			
n-Butanol	0.0035 0.0030	0.0019 0.0036	0.0022	0.0024	0.0026	Lin	-0.130	0.0037							0.9940		0.9900
1,1-Dichloropropene	0.3779 0.4554	0.4057 0.4809	0.4605	0.4244	0.4239	Ave		0.4327				8.2		15.0			
Cyclohexane	0.4986 0.4866	0.4891 0.4824	0.4872	0.4673	0.4605	Ave		0.4817				2.8		15.0			
Carbon tetrachloride	0.5224 0.5337	0.4822 0.5726	0.5790	0.5154	0.5006	Ave		0.5294				6.7		15.0			
Benzene	1.3792 1.3488	1.3511 1.4772	1.4099	1.3129	1.2720	Ave		1.3644				4.9		15.0			
Tert-amyl methyl ether	0.6063 0.6536	0.6068 0.7082	0.6678	0.6603	0.5909	Ave		0.6420				6.6		15.0			
Isooctane	0.8304 0.8671	0.7902 0.8651	0.8708	0.8596	0.8126	Ave		0.8422				3.7		15.0			
Ethyl acrylate	0.1940 0.2386	0.1828 0.2681	0.1952	0.2169	0.2078	Ave		0.2148				13.8		15.0			
n-Heptane	0.3306 0.4272	0.3925 0.4452	0.4061	0.3903	0.3972	Ave		0.3984				9.0		15.0			
Dibromomethane	0.1319 0.1292	0.1595 0.1394	0.1333	0.1371	0.1187	Ave		0.1356				9.2		15.0			
1,2-Dichloropropane	0.3389 0.3014	0.3355 0.3324	0.3103	0.2970	0.2722	Ave		0.3125				7.8		15.0			
2-Nitropropane	0.0374 0.0392	0.0281 0.0463	0.0335	0.0332	0.0309	Lin	-0.122	0.0465							0.9940		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285161

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2020 08:52 Calibration End Date: 01/14/2020 11:21 Calibration ID: 17600

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Trichloroethene	0.4872 0.4424	0.4375 0.5126	0.4873	0.4268	0.4138	Ave		0.4582				8.1		15.0			
Bromodichloromethane	0.3396 0.3913	0.3763 0.4137	0.4242	0.3727	0.3564	Ave		0.3820				7.9		15.0			
Methyl methacrylate	0.0873 0.1368	0.1142 0.1478	0.1239	0.1221	0.1210	Lin2	-0.047	0.1349							0.9950		0.9900
1,4-Dioxane	+++++ 0.0009	0.0014 0.0009	0.0014	0.0008	0.0007	Lin	0.0009	0.0009							0.9970		0.9900
2-Chloroethyl vinyl ether	0.0634 0.1339	0.0861 0.1175	0.0840	0.1136	0.1142	Lin	-0.010	0.1196							0.9960		0.9900
Methylcyclohexane	0.4689 0.5331	0.4796 0.5580	0.5478	0.5077	0.4986	Ave		0.5134				6.6		15.0			
cis-1,3-Dichloropropene	0.9877 1.1588	1.2643 1.0233	1.1859	1.2393	1.1261	Ave		1.1408				9.1		15.0			
4-Methyl-2-pentanone (MIBK)	0.1109 0.1377	0.1131 0.1394	0.1253	0.1193	0.1211	Ave		0.1238				9.0		15.0			
trans-1,3-Dichloropropene	0.8347 0.9049	0.9578 0.7640	0.9507	0.9237	0.8302	Ave		0.8809				8.2		15.0			
1,1,2-Trichloroethane	0.6076 0.4980	0.6104 0.4204	0.5939	0.5407	0.4802	Ave		0.5359				13.6		15.0			
Ethyl methacrylate	0.4448 0.5653	0.4999 0.5098	0.5065	0.5472	0.5365	Ave		0.5157				7.6		15.0			
Toluene	2.3412 2.4184	2.3922 2.2517	2.5192	2.5644	2.3273	Ave		2.4021				4.6		15.0			
1,3-Dichloropropane	0.9465 0.8343	0.9280 0.7177	0.8786	0.9448	0.8207	Ave		0.8672				9.6		15.0			
2-Hexanone	0.1009 0.2419	0.1138 0.2113	0.2231	0.2602	0.2457	Lin1	-0.101	0.2274							0.9910		0.9900
Dibromochloromethane	0.7469 0.7533	0.7029 0.6449	0.8375	0.7765	0.7253	Ave		0.7410				8.1		15.0			
n-Butyl acetate	0.6076 0.6081	0.4568 0.5374	0.5826	0.5905	0.5847	Ave		0.5668				9.5		15.0			
1,2-Dibromoethane	0.7187 0.4948	0.5842 0.4084	0.5392	0.5468	0.4683	Lin2	0.1269	0.4670							0.9920		0.9900
Tetrachloroethene	1.0668 0.8456	1.0390 0.7553	0.8779	0.8788	0.8050	Ave		0.8955				13.0		15.0			
1-Chlorohexane	0.7709 0.8128	0.8830 0.7197	0.8511	0.8435	0.7792	Ave		0.8086				6.9		15.0			
1,1,1,2-Tetrachloroethane	0.9354 0.9720	1.0966 0.8786	1.0440	1.0219	0.9449	Ave		0.9848				7.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285161

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2020 08:52 Calibration End Date: 01/14/2020 11:21 Calibration ID: 17600

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobenzene	2.7348 2.7226	3.0285 2.4995	3.0483	2.9508	2.6783	Ave		2.8090			0.3000	7.3		15.0			
Ethylbenzene	1.4935 1.5104	1.5068 1.3726	1.6890	1.5933	1.4449	Ave		1.5158				6.7		15.0			
m-Xylene & p-Xylene	3.5247 3.4385	3.5202 3.2380	3.5985	3.5858	3.3225	Ave		3.4612				3.9		15.0			
Bromoform	0.4488 0.2866	0.3281 0.2785	0.3615	0.3254	0.2802	Lin2	0.0768	0.2874			0.1000				0.9900		0.9900
Styrene	2.3723 2.5831	2.3973 2.4768	2.5315	2.5925	2.4919	Ave		2.4922				3.4		15.0			
Cyclohexanone	0.0164 0.0127	0.0127 0.0123	0.0127	0.0134	0.0123	Lin2	0.0871	0.0122							0.9950		0.9900
o-Xylene	1.9268 1.9111	1.9790 1.8063	1.9655	1.9653	1.8321	Ave		1.9123				3.6		15.0			
1,1,2,2-Tetrachloroethane	0.7258 0.5456	0.6725 0.5912	0.6134	0.5949	0.5138	Ave		0.6082			0.3000	11.9		15.0			
trans-1,4-Dichloro-2-butene	0.2053 0.1115	0.1178 0.1094	0.1197	0.1094	0.1097	Lin1	0.0323	0.1083							0.9990		0.9900
1,2,3-Trichloropropane	0.1659 0.1416	0.2302 0.1355	0.2170	0.1628	0.1427	Lin1	0.0602	0.1375							0.9920		0.9900
Isopropylbenzene	4.3870 4.1840	4.3266 4.4492	4.7269	4.4188	4.0561	Ave		4.3641				4.9		15.0			
Bromobenzene	1.0150 0.9357	1.0433 0.9886	1.1082	1.0272	0.9024	Lin2	0.0343	0.9839							0.9940		0.9900
N-Propylbenzene	1.3116 1.2187	1.2330 1.2833	1.3548	1.3215	1.2182	Ave		1.2773				4.3		15.0			
2-Chlorotoluene	1.1908 1.0745	1.2201 1.1315	1.2387	1.1727	1.0946	Ave		1.1604				5.4		15.0			
4-Chlorotoluene	3.0001 2.7761	2.6249 3.0015	3.0369	2.9068	2.6698	Ave		2.8594				5.9		15.0			
1,3,5-Trimethylbenzene	3.6838 3.6003	3.5135 3.9354	3.9168	3.7266	3.4030	Ave		3.6828				5.4		15.0			
tert-Butylbenzene	3.0271 3.0904	3.0950 3.3603	3.3975	3.2577	2.9473	Ave		3.1679				5.4		15.0			
1,2,4-Trimethylbenzene	3.5026 3.6461	3.5791 4.0469	3.7122	3.6294	3.4896	Ave		3.6580				5.2		15.0			
sec-Butylbenzene	4.4744 4.4854	4.3579 4.7644	4.8158	4.5660	4.2926	Ave		4.5366				4.3		15.0			
Benzyl chloride	0.7674 0.8902	0.7235 0.9905	0.8055	0.8695	0.7669	Ave		0.8305				11.1		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285161

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2020 08:52 Calibration End Date: 01/14/2020 11:21 Calibration ID: 17600

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	2.1985 2.0979	1.9933 2.3164	2.2094	2.1824	2.0070	Ave		2.1436				5.5		15.0			
4-Isopropyltoluene	4.2156 4.3917	4.0108 4.9274	4.3933	4.1958	4.0030	Ave		4.3054				7.3		15.0			
1,4-Dichlorobenzene	2.1255 2.1828	2.2529 2.5734	2.3592	2.2230	2.0738	Ave		2.2558				7.4		15.0			
1,2,3-Trimethylbenzene	3.3576 3.5822	3.4457 3.8839	3.6723	3.6233	3.3375	Ave		3.5575				5.4		15.0			
1,2-Dichlorobenzene	1.7824 1.7069	1.8456 1.8222	1.9128	1.7725	1.6334	Ave		1.7822				5.2		15.0			
n-Butylbenzene	3.1630 3.2515	2.9827 3.5458	3.2671	3.2677	3.0383	Ave		3.2166				5.7		15.0			
1,2-Dibromo-3-Chloropropane	0.1529 0.0777	0.0935 0.0776	0.0952	0.0888	0.0814	Lin1	0.0329	0.0771							0.9990		0.9900
1,3,5-Trichlorobenzene	1.1923 1.1108	1.2334 1.1875	1.1928	1.1769	1.0787	Ave		1.1675				4.6		15.0			
1,2,4-Trichlorobenzene	0.9778 0.7511	0.8757 0.7590	0.8234	0.7998	0.6832	Ave		0.8100				11.8		15.0			
Naphthalene	1.9385 1.0868	1.1301 1.1169	1.2195	1.0715	1.0241	Lin1	0.2588	1.0837							0.9970		0.9900
Hexachlorobutadiene	0.2775 0.1659	0.2674 0.1566	0.2108	0.1913	0.1693	Lin1	0.0851	0.1585							0.9980		0.9900
1,2,3-Trichlorobenzene	0.6095 0.4794	0.5764 0.4715	0.5488	0.4979	0.4779	Ave		0.5231				10.5		15.0			
Dibromofluoromethane	0.3368 0.3194	0.3720 0.3235	0.2997	0.3086	0.2961	Ave		0.3223				8.1		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2114 0.2107	0.2427 0.2195	0.2659	0.2045	0.1957	Ave		0.2215				11.1		15.0			
Toluene-d8 (Surr)	3.4977 3.3680	3.3999 3.1246	3.3012	3.3976	3.1519	Ave		3.3201				4.1		15.0			
4-Bromofluorobenzene	1.3217 0.8356	1.0928 0.8641	1.0480	0.9415	0.8273	Lin2	0.2398	0.8576							0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285161

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2020 08:52 Calibration End Date: 01/14/2020 11:21 Calibration ID: 17600

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-285161/2	A01401.d
Level 2	IC 600-285161/3	A01402.d
Level 3	IC 600-285161/4	A01403.d
Level 4	IC 600-285161/5	A01404.d
Level 5	ICIS 600-285161/6	A01405.d
Level 6	IC 600-285161/7	A01406.d
Level 7	IC 600-285161/8	A01407.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	12860 589956	30023 1844315	56045	138851	303140	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloromethane	FB	Ave	24654 725003	39739 2280163	71552	183913	375801	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Vinyl chloride	FB	Ave	19542 759353	34731 2716220	69003	169737	370285	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Butadiene	FB	Ave	18439 777636	37873 2587122	69784	182072	413653	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethylene oxide	FB	Qua	22847 223951	29367 769389	30477	64729	113524	5.00 200	10.0 500	20.0	50.0	100
Bromomethane	FB	Ave	5511 226335	12917 757287	19426	49591	106233	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloroethane	FB	Ave	7307 220614	11023 702178	22580	52552	114841	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acrolein	FB	Lin1	1107 29708	1979 84491	3735	5766	13624	2.50 100	5.00 250	10.0	25.0	50.0
Trichlorofluoromethane	FB	Ave	14228 610359	31321 1948910	57442	157707	337813	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acetonitrile	FB	Ave	4872 159280	7377 487133	14897	34295	74794	5.00 200	10.0 500	20.0	50.0	100
Isopropyl alcohol	FB	Lin	3061 77700	3771 239022	7271	16485	30545	5.00 200	10.0 500	20.0	50.0	100
Acetone	FB	Lin2	4176 70204	5103 205284	8458	18712	37114	1.00 40.0	2.00 100	4.00	10.0	20.0
Ethyl ether	FB	Ave	6068 202480	10135 559289	19817	45090	84511	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1-Dichloroethene	FB	Ave	6922 323296	13850 842406	29638	71366	147153	0.500 20.0	1.00 50.0	2.00	5.00	10.0
t-Butanol	FB	Ave	3707 161032	6154 483755	13504	31385	62702	5.00 200	10.0 500	20.0	50.0	100

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285161

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2020 08:52 Calibration End Date: 01/14/2020 11:21 Calibration ID: 17600

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Ave	7863 402755	14535 1182177	34220	79393	166126	5.00 200	10.0 500	20.0	50.0	100
Iodomethane	FB	Ave	10161 499266	19166 1425639	45007	115795	228457	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methylene Chloride	FB	Lin1	23175 343104	24755 1030680	36736	79859	152494	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl acetate	FB	Ave	5763 242827	9600 734510	19229	46741	98631	1.00 40.0	2.00 100	4.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	7560 337968	15065 898832	31315	74176	151459	0.500 20.0	1.00 50.0	2.00	5.00	10.0
3-Chloro-1-propene	FB	Ave	5332 205896	8859 509893	18962	45879	89981	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon disulfide	FB	Ave	22554 812393	37127 2316649	75601	179058	360134	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	10040 402806	17822 1148944	34854	84763	175524	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl tert-butyl ether	FB	Ave	14057 688460	29824 1945628	63106	145040	300663	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1-Dichloroethane	FB	Ave	14848 661097	29622 1856242	59616	147220	289702	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Propionitrile	FB	Ave	2949 176294	5603 508388	14304	34672	70801	5.00 200	10.0 500	20.0	50.0	100
Vinyl acetate	FB	Lin2	11911 766097	23445 2215689	58078	154539	312740	1.00 40.0	2.00 100	4.00	10.0	20.0
Hexane	FB	Ave	9629 519707	17453 1596228	41460	107222	217353	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Chloro-1,3-butadiene	FB	Ave	11605 675373	23378 2124313	51545	134541	276413	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropyl ether	FB	Ave	26464 1415983	51780 4494079	116867	288866	585949	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Lin1	385 40355	921 121029	3574	7750	17230	1.00 40.0	2.00 100	4.00	10.0	20.0
Methacrylonitrile	FB	Lin	4357 234266	7056 736954	17343	44351	95980	5.00 200	10.0 500	20.0	50.0	100
cis-1,2-Dichloroethene	FB	Ave	9976 450484	18058 1334741	36935	98382	197248	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acetate	FB	Lin1	5120 292342	7000 828099	21219	51200	116797	1.00 40.0	2.00 100	4.00	10.0	20.0
Chlorobromomethane	FB	Ave	4047 183637	8687 532132	16472	42512	82464	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-butyl ethyl ether	FB	Ave	19337 1054245	37995 3276696	83798	217594	442173	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285161

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2020 08:52 Calibration End Date: 01/14/2020 11:21 Calibration ID: 17600

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chloroform	FB	Ave	13785 738999	29268 2354558	61874	155409	319389	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Lin1	2425 176590	6636 452409	17209	39149	70020	12.5 500	25.0 1250	50.0	125	250
2,2-Dichloropropane	FB	Ave	13326 601313	25969 1687391	53922	134718	268203	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrahydrofuran	FB	Lin1	4205 77868	4428 219672	6366	17115	32744	1.00 40.0	2.00 100	4.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	7541 332127	14481 925037	28457	68618	140263	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	14136 673864	27864 1954154	60500	146274	297286	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butanol	FB	Lin	2233 84837	2265 280558	5343	15078	34880	12.5 500	25.0 1250	50.0	125	250
1,1-Dichloropropene	FB	Ave	9706 517929	19608 1479918	44385	108058	227622	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Cyclohexane	FB	Ave	12806 553380	23640 1484466	46951	118983	247263	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	13416 606893	23310 1762158	55803	131248	268795	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzene	FB	Ave	35422 1533910	65308 4545862	135880	334305	683016	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-amyl methyl ether	FB	Ave	15573 743305	29333 2179326	64356	168138	317302	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isooctane	FB	Ave	21327 986030	38195 2662106	83920	218875	436359	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acrylate	FB	Ave	4982 271392	8837 824991	18813	55227	111562	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Heptane	FB	Ave	8492 485785	18971 1369900	39137	99385	213310	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	3388 146952	7708 429090	12842	34908	63748	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Ave	8704 342789	16215 1022957	29904	75623	146176	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Nitropropane	FB	Lin	1922 89210	2718 285014	6456	16918	33206	1.00 40.0	2.00 100	4.00	10.0	20.0
Trichloroethene	FB	Ave	12514 503066	21145 1577573	46959	108684	222229	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	8722 445037	18190 1273118	40882	94901	191383	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl methacrylate	FB	Lin2	4485 311099	11039 909570	23878	62192	129929	1.00 40.0	2.00 100	4.00	10.0	20.0

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285161

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2020 08:52 Calibration End Date: 01/14/2020 11:21 Calibration ID: 17600

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	FB	Lin	+++++ 20005	1339 52999	2630	4059	7460	+++++ 400	20.0 1000	40.0	100	200
2-Chloroethyl vinyl ether	CBNZ d5	Lin	1056 107159	2639 308902	5475	18599	40929	1.00 40.0	2.00 100	4.00	10.0	20.0
Methylcyclohexane	FB	Ave	12044 606246	23182 1717092	52792	129281	267727	0.500 20.0	1.00 50.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	8219 463679	19387 1345595	38643	101409	201728	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	5696 313303	10932 857689	24158	60770	130099	1.00 40.0	2.00 100	4.00	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	6946 362093	14686 1004706	30978	75586	148724	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	5056 199256	9360 552807	19351	44247	86024	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	3701 226217	7665 670348	16504	44772	96103	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene	CBNZ d5	Ave	19482 967691	36681 2961006	82090	209832	416903	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	7876 333849	14229 943739	28630	77306	147013	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Hexanone	CBNZ d5	Lin1	1679 193557	3489 555680	14538	42585	88042	1.00 40.0	2.00 100	4.00	10.0	20.0
Dibromochloromethane	CBNZ d5	Ave	6215 301428	10778 848026	27291	63536	129917	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butyl acetate	CBNZ d5	Ave	5056 243320	7005 706649	18983	48319	104743	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Lin2	5981 197975	8958 537003	17569	44746	83889	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	8877 338349	15932 993195	28608	71908	144200	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1-Chlorohexane	CBNZ d5	Ave	6415 325231	13540 946455	27734	69023	139587	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	7784 388917	16815 1155376	34019	83621	169262	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	22758 1089405	46439 3286894	99330	241455	479776	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	12428 604365	23105 1805013	55036	130371	258825	0.500 20.0	1.00 50.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	29331 1375869	53978 4257966	117259	293413	595167	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromoform	DCBd 4	Lin2	3758 136675	5389 393750	12178	29721	58113	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285161

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2020 08:52 Calibration End Date: 01/14/2020 11:21 Calibration ID: 17600

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Styrene	CBNZ d5	Ave	19741 1033619	36759 3257012	82490	212131	446380	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Cyclohexanone	CBNZ d5	Lin2	6823 254688	9720 807904	20755	54649	109878	25.0 1000	50.0 2500	100	250	500
o-Xylene	CBNZ d5	Ave	16034 764705	30345 2375351	64047	160811	328189	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	6078 260204	11045 835771	20660	54346	106553	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin1	1719 53197	1934 154714	4032	9991	22760	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Lin1	1389 67543	3780 191484	7310	14868	29600	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	36737 1995567	71057 6289780	159216	403641	841173	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromobenzene	DCBd 4	Lin2	8500 446271	17135 1397503	37327	93832	187136	0.500 20.0	1.00 50.0	2.00	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	10983 581269	20250 1814196	45634	120718	252640	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	9972 512511	20038 1599643	41722	107123	227000	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	25123 1324085	43110 4243140	102292	265531	553672	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	30848 1717194	57704 5563451	131929	340419	705725	0.500 20.0	1.00 50.0	2.00	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	25349 1473979	50830 4750395	114439	297586	611227	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	29331 1739056	58780 5721069	125040	331532	723687	0.500 20.0	1.00 50.0	2.00	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	37469 2139345	71571 6735394	162211	417092	890214	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzyl chloride	DCBd 4	Ave	6426 424568	11883 1400238	27131	79429	159049	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	18410 1000625	32736 3274688	74420	199355	416222	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	35302 2094643	65870 6965798	147982	383271	830151	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	17799 1041084	37000 3637953	79467	203068	430084	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	28117 1708575	56590 5490541	123696	330982	692141	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	14926 814122	30310 2575953	64429	161909	338742	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285161

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2020 08:52 Calibration End Date: 01/14/2020 11:21 Calibration ID: 17600

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butylbenzene	DCBd 4	Ave	26487 1550809	48986 5012667	110047	298491	630103	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin1	1280 37044	1535 109745	3206	8112	16872	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	9984 529781	20257 1678806	40176	107506	223713	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	8188 358246	14382 1073008	27736	73061	141675	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Naphthalene	DCBd 4	Lin1	16233 518372	18560 1578928	41078	97877	212379	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexachlorobutadiene	DCBd 4	Lin1	2324 79119	4392 221373	7099	17479	35108	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	5104 228635	9467 666608	18484	45486	99104	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromofluoromethane	FB	Ave	8650 363192	17980 995640	28881	78573	159012	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	5429 239619	11733 675413	25627	52072	105066	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene-d8 (Surr)	CBNZ d5	Ave	29106 1347680	52133 4108915	107570	278009	564609	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Bromofluorobenzene	DCBd 4	Lin2	11068 398565	17948 1221574	35299	86005	171573	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: ICV 600-282054/1010 Calibration Date: 12/04/2019 16:52

Instrument ID: CHVOAMS01 Calib Start Date: 12/04/2019 13:08

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 12/04/2019 15:57

Lab File ID: C33809-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin2		0.2254		9.82	10.0	-1.8	50.0
Chloromethane	Qua		0.1096	0.1000	9.28	10.0	-7.2	30.0
Vinyl chloride	Qua		0.1123		9.09	10.0	-9.1	30.0
Butadiene	Ave	0.1211	0.1301		10.7	10.0	7.4	50.0
Bromomethane	Qua		0.0842		12.5	10.0	25.3	30.0
Chloroethane	Lin1		0.1540		10.3	10.0	2.8	30.0
Dichlorofluoromethane	Lin2		0.3759		9.64	10.0	-3.6	30.0
Acrolein	Lin2		0.0055		48.0	50.0	-4.1	50.0
Trichlorofluoromethane	Ave	0.4287	0.4459		10.4	10.0	4.0	30.0
Acetonitrile	Ave	0.0095	0.0094		98.9	100	-1.1	30.0
Isopropyl alcohol	Lin2		0.0052		90.0	100	-10.0	50.0
Acetone	Lin2		0.0249		18.3	20.0	-8.4	50.0
Ethyl ether	Ave	0.1476	0.1522		10.3	10.0	3.1	50.0
t-Butanol	Ave	0.0103	0.0097		94.0	100	-6.0	30.0
1,1-Dichloroethene	Ave	0.2178	0.2461		11.3	10.0	13.0	30.0
Acrylonitrile	Lin2		0.0225		98.2	100	-1.8	50.0
Iodomethane	Lin		0.2748		12.0	10.0	19.6	30.0
Methylene Chloride	Qua		0.2759		11.1	10.0	11.2	50.0
Methyl acetate	Qua		0.0653		19.1	20.0	-4.7	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2195	0.2481		11.3	10.0	13.0	30.0
3-Chloro-1-propene	Qua		0.1596		10.4	10.0	3.8	30.0
Carbon disulfide	Ave	0.6636	0.7192		10.8	10.0	8.4	30.0
trans-1,2-Dichloroethene	Ave	0.2366	0.2603		11.0	10.0	10.0	30.0
Methyl tert-butyl ether	Ave	0.5258	0.5267		10.0	10.0	0.2	30.0
Propionitrile	Lin2		0.0107		96.7	100	-3.3	30.0
1,1-Dichloroethane	Ave	0.4307	0.4652	0.1000	10.8	10.0	8.0	30.0
Vinyl acetate	Ave	0.2507	0.2629		21.0	20.0	4.8	50.0
2-Chloro-1,3-butadiene	Ave	0.3684	0.4150		11.3	10.0	12.6	30.0
Hexane	Qua		0.3873		11.5	10.0	15.2	30.0
Isopropyl ether	Qua		0.7238		9.82	10.0	-1.8	30.0
2-Butanone (MEK)	Ave	0.0128	0.0139		21.7	20.0	8.6	50.0
Methacrylonitrile	Qua		0.0150		92.6	100	-7.4	30.0
cis-1,2-Dichloroethene	Ave	0.2435	0.2544		10.5	10.0	4.5	30.0
Ethyl acetate	Ave	0.0931	0.0929		20.0	20.0	-0.2	30.0
Chlorobromomethane	Ave	0.0936	0.1003		10.7	10.0	7.1	30.0
Tert-butyl ethyl ether	Qua		0.7150		9.36	10.0	-6.4	30.0
Chloroform	Ave	0.4261	0.4300		10.1	10.0	0.9	30.0
Isobutyl alcohol	Qua		0.0070		234	250	-6.3	50.0
2,2-Dichloropropane	Ave	0.4174	0.4555		10.9	10.0	9.1	30.0
Tetrahydrofuran	Ave	0.0234	0.0221		18.9	20.0	-5.3	30.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: ICV 600-282054/1010 Calibration Date: 12/04/2019 16:52

Instrument ID: CHVOAMS01 Calib Start Date: 12/04/2019 13:08

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 12/04/2019 15:57

Lab File ID: C33809-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.2273	0.2234		9.83	10.0	-1.7	30.0
1,1,1-Trichloroethane	Ave	0.4060	0.4371		10.8	10.0	7.7	30.0
1,1-Dichloropropene	Ave	0.3467	0.3810		11.0	10.0	9.9	30.0
Cyclohexane	Ave	0.3926	0.4325		11.0	10.0	10.2	50.0
Carbon tetrachloride	Ave	0.3684	0.4013		10.9	10.0	8.9	30.0
Benzene	Ave	0.9319	0.9717		10.4	10.0	4.3	30.0
Tert-amyl methyl ether	Ave	0.5900	0.5841		9.90	10.0	-1.0	30.0
Isooctane	Ave	0.7286	0.8227		11.3	10.0	12.9	30.0
Ethyl acrylate	Lin2		0.1898		9.72	10.0	-2.8	30.0
n-Heptane	Ave	0.2778	0.3199		11.5	10.0	15.1	30.0
Dibromomethane	Lin2		0.0852		9.58	10.0	-4.2	30.0
1,2-Dichloropropane	Ave	0.2085	0.2191		10.5	10.0	5.1	30.0
2-Nitropropane	Lin2		0.0302		18.2	20.0	-9.3	30.0
Trichloroethene	Ave	0.2520	0.2693		10.7	10.0	6.9	30.0
Bromodichloromethane	Ave	0.2789	0.2910		10.4	10.0	4.3	30.0
Methyl methacrylate	Lin2		0.1035		18.7	20.0	-6.5	50.0
1,4-Dioxane	Lin2		0.0007		190	200	-5.1	50.0
2-Chloroethyl vinyl ether	Lin2		0.0660		18.3	20.0	-8.6	30.0
Methylcyclohexane	Ave	0.4124	0.4650		11.3	10.0	12.8	30.0
cis-1,3-Dichloropropene	Ave	0.8680	0.9073		10.5	10.0	4.5	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0946	0.0994		21.0	20.0	5.1	50.0
trans-1,3-Dichloropropene	Ave	0.6487	0.6727		10.4	10.0	3.7	30.0
1,1,2-Trichloroethane	Ave	0.3489	0.3368		9.65	10.0	-3.5	30.0
Ethyl methacrylate	Lin2		0.4354		9.40	10.0	-6.0	50.0
Toluene	Ave	1.555	1.619		10.4	10.0	4.1	30.0
1,3-Dichloropropane	Ave	0.6425	0.6444		10.0	10.0	0.3	30.0
2-Hexanone	Lin2		0.1689		19.4	20.0	-2.9	50.0
Dibromochloromethane	Lin2		0.4403		9.35	10.0	-6.5	30.0
n-Butyl acetate	Lin2		0.4257		9.04	10.0	-9.6	30.0
1,2-Dibromoethane	Lin2		0.3244		9.33	10.0	-6.7	30.0
Tetrachloroethene	Ave	0.5300	0.5606		10.6	10.0	5.8	30.0
1-Chlorohexane	Ave	0.5459	0.6021		11.0	10.0	10.3	30.0
1,1,1,2-Tetrachloroethane	Ave	0.6118	0.6203		10.1	10.0	1.4	30.0
Chlorobenzene	Ave	1.615	1.615	0.3000	10.00	10.0	-0.0	30.0
Ethylbenzene	Ave	0.8937	0.9598		10.7	10.0	7.4	30.0
m-Xylene & p-Xylene	Ave	2.001	2.100		10.5	10.0	5.0	30.0
Bromoform	Lin2		0.1927	0.1000	8.91	10.0	-10.9	30.0
Styrene	Ave	1.359	1.479		10.9	10.0	8.9	30.0
o-Xylene	Ave	1.020	1.071		10.5	10.0	5.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3990	0.3757	0.3000	9.42	10.0	-5.8	30.0
trans-1,4-Dichloro-2-butene	Lin2		0.0769		9.05	10.0	-9.6	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: ICV 600-282054/1010 Calibration Date: 12/04/2019 16:52

Instrument ID: CHVOAMS01 Calib Start Date: 12/04/2019 13:08

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 12/04/2019 15:57

Lab File ID: C33809-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Lin1		0.1028		9.19	10.0	-8.1	30.0
Isopropylbenzene	Ave	2.634	2.791		10.6	10.0	6.0	30.0
Bromobenzene	Ave	0.6129	0.6070		9.90	10.0	-1.0	30.0
N-Propylbenzene	Ave	0.7306	0.7699		10.5	10.0	5.4	30.0
2-Chlorotoluene	Ave	0.6281	0.6478		10.3	10.0	3.1	30.0
4-Chlorotoluene	Ave	1.851	1.886		10.2	10.0	1.9	30.0
1,3,5-Trimethylbenzene	Ave	2.195	2.233		10.2	10.0	1.7	30.0
tert-Butylbenzene	Ave	1.796	1.878		10.5	10.0	4.6	30.0
1,2,4-Trimethylbenzene	Ave	2.206	2.309		10.5	10.0	4.6	30.0
sec-Butylbenzene	Ave	2.567	2.770		10.8	10.0	7.9	30.0
Benzyl chloride	Ave	0.7267	0.7329		10.1	10.0	0.8	30.0
1,3-Dichlorobenzene	Ave	1.274	1.283		10.1	10.0	0.7	30.0
1,4-Dichlorobenzene	Ave	1.269	1.299		10.2	10.0	2.4	30.0
4-Isopropyltoluene	Ave	2.181	2.331		10.7	10.0	6.9	30.0
1,2,3-Trimethylbenzene	Ave	2.401	2.445		10.2	10.0	1.8	30.0
1,2-Dichlorobenzene	Ave	1.156	1.148		9.92	10.0	-0.8	30.0
n-Butylbenzene	Ave	1.926	2.084		10.8	10.0	8.2	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0604		8.35	10.0	-16.5	30.0
1,3,5-Trichlorobenzene	Ave	0.8946	0.8965		10.0	10.0	0.2	30.0
1,2,4-Trichlorobenzene	Ave	0.6152	0.5980		9.72	10.0	-2.8	30.0
Naphthalene	Ave	1.044	0.9530		9.13	10.0	-8.7	30.0
Hexachlorobutadiene	Ave	0.1299	0.1397		10.8	10.0	7.5	30.0
1,2,3-Trichlorobenzene	Ave	0.4304	0.4124		9.58	10.0	-4.2	30.0
Dibromofluoromethane	Ave	0.2386	0.2208		11.6	12.5	-7.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2103	0.1809		10.8	12.5	-13.9	30.0
Toluene-d8 (Surr)	Ave	2.327	2.247		12.1	12.5	-3.4	30.0
4-Bromofluorobenzene	Lin2		0.8784		14.4	12.5	14.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCVIS 600-285834/2 Calibration Date: 01/22/2020 12:24

Instrument ID: CHVOAMS01 Calib Start Date: 12/04/2019 13:08

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 12/04/2019 15:57

Lab File ID: C02201.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin2		0.1514		6.66	10.0	-33.4	35.0
Chloromethane	Qua		0.1078	0.1000	9.12	10.0	-8.8	35.0
Vinyl chloride	Qua		0.1046		8.45	10.0	-15.5	20.0
Butadiene	Ave	0.1211	0.1473		12.2	10.0	21.5	35.0
Bromomethane	Qua		0.0515		7.94	10.0	-20.6	35.0
Chloroethane	Lin1		0.1315		8.79	10.0	-12.1	35.0
Dichlorofluoromethane	Lin2		0.3141		8.09	10.0	-19.1	50.0
Acrolein	Lin2		0.0012		11.4	50.0	-77.2*	50.0
Trichlorofluoromethane	Ave	0.4287	0.3057		7.13	10.0	-28.7	35.0
Acetonitrile	Ave	0.0095	0.0067		70.0	100	-30.0	50.0
Isopropyl alcohol	Lin2		0.0034		59.5	100	-40.5	50.0
Acetone	Lin2		0.0195		14.1	20.0	-29.5	50.0
Ethyl ether	Ave	0.1476	0.1097		7.43	10.0	-25.7	35.0
t-Butanol	Ave	0.0103	0.0064		61.9	100	-38.2*	35.0
1,1-Dichloroethene	Ave	0.2178	0.2106		9.67	10.0	-3.3	20.0
Acrylonitrile	Lin2		0.0157		69.1	100	-31.0	50.0
Iodomethane	Lin		0.1322		5.78	10.0	-42.2*	35.0
Methylene Chloride	Qua		0.2151		8.39	10.0	-16.1	50.0
Methyl acetate	Qua		0.0489		14.1	20.0	-29.3	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2195	0.1929		8.79	10.0	-12.1	35.0
3-Chloro-1-propene	Qua		0.1491		9.66	10.0	-3.4	35.0
Carbon disulfide	Ave	0.6636	0.6307		9.50	10.0	-5.0	35.0
trans-1,2-Dichloroethene	Ave	0.2366	0.2368		10.0	10.0	0.0	35.0
Methyl tert-butyl ether	Ave	0.5258	0.3662		6.97	10.0	-30.4	35.0
Propionitrile	Lin2		0.0076		68.9	100	-31.1	35.0
1,1-Dichloroethane	Ave	0.4307	0.4563	0.1000	10.6	10.0	5.9	35.0
Vinyl acetate	Ave	0.2507	0.2066		16.5	20.0	-17.6	50.0
2-Chloro-1,3-butadiene	Ave	0.3684	0.4543		12.3	10.0	23.3	35.0
Hexane	Qua		0.4045		12.1	10.0	20.9	35.0
Isopropyl ether	Qua		0.7604		10.4	10.0	3.7	35.0
2-Butanone (MEK)	Ave	0.0128	0.0122		19.0	20.0	-4.8	50.0
Methacrylonitrile	Qua		0.0104		63.9	100	-36.1*	35.0
cis-1,2-Dichloroethene	Ave	0.2435	0.2281		9.37	10.0	-6.3	35.0
Ethyl acetate	Ave	0.0931	0.0661		14.2	20.0	-29.0	35.0
Chlorobromomethane	Ave	0.0936	0.0789		8.43	10.0	-15.7	35.0
Isobutyl alcohol	Qua		0.0055		182	250	-27.3	50.0
Tert-butyl ethyl ether	Qua		0.5883		7.63	10.0	-23.7	50.0
Chloroform	Ave	0.4261	0.4052		9.51	10.0	-4.9	20.0
2,2-Dichloropropane	Ave	0.4174	0.4358		10.4	10.0	4.4	35.0
Tetrahydrofuran	Ave	0.0234	0.0152		13.0	20.0	-35.0	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCVIS 600-285834/2 Calibration Date: 01/22/2020 12:24

Instrument ID: CHVOAMS01 Calib Start Date: 12/04/2019 13:08

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 12/04/2019 15:57

Lab File ID: C02201.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.2273	0.1730		7.61	10.0	-23.9	35.0
1,1,1-Trichloroethane	Ave	0.4060	0.3881		9.56	10.0	-4.4	35.0
1,1-Dichloropropene	Ave	0.3467	0.3643		10.5	10.0	5.1	35.0
Cyclohexane	Ave	0.3926	0.4099		10.4	10.0	4.4	35.0
Carbon tetrachloride	Ave	0.3684	0.3343		9.08	10.0	-9.2	35.0
Benzene	Ave	0.9319	0.9657		10.4	10.0	3.6	35.0
Tert-amyl methyl ether	Ave	0.5900	0.4138		7.01	10.0	-29.9	35.0
Isooctane	Ave	0.7286	0.8517		11.7	10.0	16.9	35.0
Ethyl acrylate	Lin2		0.1414		7.29	10.0	-27.1	35.0
n-Heptane	Ave	0.2778	0.3621		13.0	10.0	30.3	35.0
Dibromomethane	Lin2		0.0605		6.86	10.0	-31.4	35.0
1,2-Dichloropropane	Ave	0.2085	0.2087		10.0	10.0	0.1	20.0
2-Nitropropane	Lin2		0.0217		13.1	20.0	-34.3	35.0
Trichloroethene	Ave	0.2520	0.2304		9.14	10.0	-8.6	35.0
Bromodichloromethane	Ave	0.2789	0.2276		8.16	10.0	-18.4	35.0
Methyl methacrylate	Lin2		0.0750		13.7	20.0	-31.6	50.0
1,4-Dioxane	Lin2		0.0005		136	200	-31.9	50.0
2-Chloroethyl vinyl ether	Lin2		0.0452		12.8	20.0	-36.2*	35.0
Methylcyclohexane	Ave	0.4124	0.4318		10.5	10.0	4.7	35.0
cis-1,3-Dichloropropene	Ave	0.8680	0.8126		9.36	10.0	-6.4	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0946	0.0867		18.3	20.0	-8.4	50.0
trans-1,3-Dichloropropene	Ave	0.6487	0.5304		8.18	10.0	-18.2	35.0
1,1,2-Trichloroethane	Ave	0.3489	0.2664		7.63	10.0	-23.7	35.0
Ethyl methacrylate	Lin2		0.3284		7.15	10.0	-28.5	50.0
Toluene	Ave	1.555	1.714		11.0	10.0	10.2	20.0
1,3-Dichloropropane	Ave	0.6425	0.5468		8.51	10.0	-14.9	35.0
2-Hexanone	Lin2		0.1714		19.7	20.0	-1.5	50.0
Dibromochloromethane	Lin2		0.3099		6.64	10.0	-33.6	35.0
n-Butyl acetate	Lin2		0.3249		6.94	10.0	-30.6	35.0
1,2-Dibromoethane	Lin2		0.2363		6.85	10.0	-31.6	35.0
Tetrachloroethene	Ave	0.5300	0.5004		9.44	10.0	-5.6	35.0
1-Chlorohexane	Ave	0.5459	0.6782		12.4	10.0	24.2	35.0
1,1,1,2-Tetrachloroethane	Ave	0.6118	0.6860		11.2	10.0	12.1	35.0
Chlorobenzene	Ave	1.615	1.468	0.3000	9.09	10.0	-9.1	35.0
Ethylbenzene	Ave	0.8937	0.9428		10.6	10.0	5.5	20.0
m-Xylene & p-Xylene	Ave	2.001	2.095		10.5	10.0	4.7	35.0
Bromoform	Lin2		0.1834	0.1000	8.49	10.0	-15.1	35.0
Styrene	Ave	1.359	1.280		9.42	10.0	-5.8	35.0
o-Xylene	Ave	1.020	1.025		10.1	10.0	0.5	35.0
1,1,2,2-Tetrachloroethane	Ave	0.3990	0.4102	0.3000	10.3	10.0	2.8	35.0
trans-1,4-Dichloro-2-butene	Lin2		0.0687		8.12	10.0	-18.8	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCVIS 600-285834/2 Calibration Date: 01/22/2020 12:24

Instrument ID: CHVOAMS01 Calib Start Date: 12/04/2019 13:08

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 12/04/2019 15:57

Lab File ID: C02201.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Lin1		0.0924		8.27	10.0	-17.3	35.0
Isopropylbenzene	Ave	2.634	3.614		13.7	10.0	37.2*	35.0
Bromobenzene	Ave	0.6129	0.6048		9.87	10.0	-1.3	35.0
N-Propylbenzene	Ave	0.7306	0.9210		12.6	10.0	26.1	35.0
2-Chlorotoluene	Ave	0.6281	0.7373		11.7	10.0	17.4	35.0
4-Chlorotoluene	Ave	1.851	2.230		12.1	10.0	20.5	35.0
1,3,5-Trimethylbenzene	Ave	2.195	2.585		11.8	10.0	17.8	35.0
tert-Butylbenzene	Ave	1.796	2.051		11.4	10.0	14.2	35.0
1,2,4-Trimethylbenzene	Ave	2.206	2.624		11.9	10.0	18.9	35.0
sec-Butylbenzene	Ave	2.567	3.071		12.0	10.0	19.6	35.0
Benzyl chloride	Ave	0.7267	0.5982		8.23	10.0	-17.7	35.0
1,3-Dichlorobenzene	Ave	1.274	1.245		9.77	10.0	-2.3	35.0
1,4-Dichlorobenzene	Ave	1.269	1.280		10.1	10.0	0.8	35.0
4-Isopropyltoluene	Ave	2.181	2.572		11.8	10.0	17.9	35.0
1,2,3-Trimethylbenzene	Ave	2.401	2.585		10.8	10.0	7.7	35.0
1,2-Dichlorobenzene	Ave	1.156	0.9746		8.43	10.0	-15.7	35.0
n-Butylbenzene	Ave	1.926	2.242		11.6	10.0	16.4	35.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0558		7.75	10.0	-22.6	35.0
1,3,5-Trichlorobenzene	Ave	0.8946	0.6342		7.09	10.0	-29.1	35.0
1,2,4-Trichlorobenzene	Ave	0.6152	0.3084		5.01	10.0	-49.9*	35.0
Naphthalene	Ave	1.044	0.7477		7.16	10.0	-28.4	35.0
Hexachlorobutadiene	Ave	0.1299	0.0953		7.34	10.0	-26.6	35.0
1,2,3-Trichlorobenzene	Ave	0.4304	0.2513		5.84	10.0	-41.6*	35.0
Dibromofluoromethane	Ave	0.2386	0.1937		8.12	10.0	-18.8	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2103	0.1483		7.06	10.0	-29.4	35.0
Toluene-d8 (Surr)	Ave	2.327	2.405		10.3	10.0	3.4	35.0
4-Bromofluorobenzene	Lin2		0.9156		11.9	10.0	19.3	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: ICV 600-285161/10 Calibration Date: 01/14/2020 12:23

Instrument ID: CHVOAMS07 Calib Start Date: 01/14/2020 08:52

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 01/14/2020 11:21

Lab File ID: A01409.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5616	0.5718		10.2	10.0	1.8	50.0
Chloromethane	Ave	0.7607	0.7863	0.1000	10.3	10.0	3.4	30.0
Vinyl chloride	Ave	0.7288	0.7642		10.5	10.0	4.9	30.0
Butadiene	Ave	0.7479	0.8332		11.1	10.0	11.4	50.0
Ethylene oxide	Qua		0.0236		119	100	18.6	50.0
Bromomethane	Ave	0.2173	0.2088		9.61	10.0	-3.9	30.0
Chloroethane	Ave	0.2270	0.2233		9.84	10.0	-1.6	30.0
Acrolein	Lin1		0.0049		44.6	50.0	-10.9	50.0
Trichlorofluoromethane	Ave	0.6023	0.6456		10.7	10.0	7.2	30.0
Acetonitrile	Ave	0.0153	0.0137		89.5	100	-10.5	30.0
Isopropyl alcohol	Lin		0.0070		98.5	100	-1.5	50.0
Acetone	Lin2		0.0351		20.9	20.0	4.3	50.0
Ethyl ether	Ave	0.1923	0.1756		9.13	10.0	-8.7	50.0
t-Butanol	Ave	0.0136	0.0141		104	100	3.5	30.0
1,1-Dichloroethene	Ave	0.2823	0.2655		9.41	10.0	-5.9	30.0
Acrylonitrile	Ave	0.0332	0.0344		104	100	3.7	50.0
Iodomethane	Ave	0.4345	0.4088		9.41	10.0	-5.9	30.0
Methylene Chloride	Lin1		0.3131		9.41	10.0	-5.9	50.0
Methyl acetate	Ave	0.1030	0.1049		20.4	20.0	1.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2991	0.2640		8.83	10.0	-11.7	30.0
3-Chloro-1-propene	Ave	0.1832	0.1763		9.63	10.0	-3.8	30.0
Carbon disulfide	Ave	0.7531	0.6454		8.57	10.0	-14.3	30.0
trans-1,2-Dichloroethene	Ave	0.3584	0.3542		9.88	10.0	-1.2	30.0
Methyl tert-butyl ether	Ave	0.5980	0.5972		9.99	10.0	-0.1	30.0
1,1-Dichloroethane	Ave	0.5874	0.5627	0.1000	9.58	10.0	-4.2	30.0
Propionitrile	Ave	0.0138	0.0143		104	100	3.6	30.0
Vinyl acetate	Lin2		0.2975		18.6	20.0	-6.9	50.0
2-Chloro-1,3-butadiene	Ave	0.5425	0.5418		9.99	10.0	-0.1	30.0
Hexane	Ave	0.4240	0.3693		8.71	10.0	-12.9	30.0
Isopropyl ether	Ave	1.178	1.158		9.84	10.0	-1.7	30.0
2-Butanone (MEK)	Lin1		0.0164		18.1	20.0	-9.5	50.0
Methacrylonitrile	Lin		0.0196		92.9	100	-7.1	30.0
cis-1,2-Dichloroethene	Ave	0.3898	0.3907		10.0	10.0	0.2	30.0
Ethyl acetate	Lin1		0.1180		18.8	20.0	-6.2	30.0
Chlorobromomethane	Ave	0.1662	0.1621		9.76	10.0	-2.4	30.0
Tert-butyl ethyl ether	Ave	0.8683	0.9166		10.6	10.0	5.6	30.0
Chloroform	Ave	0.6292	0.6340		10.1	10.0	0.8	30.0
Isobutyl alcohol	Lin1		0.0056		236	250	-5.8	50.0
2,2-Dichloropropane	Ave	0.5316	0.4905		9.23	10.0	-7.7	30.0
Tetrahydrofuran	Lin1		0.0311		17.5	20.0	-12.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: ICV 600-285161/10 Calibration Date: 01/14/2020 12:23

Instrument ID: CHVOAMS07 Calib Start Date: 01/14/2020 08:52

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 01/14/2020 11:21

Lab File ID: A01409.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.2874	0.2903		10.1	10.0	1.0	30.0
1,1,1-Trichloroethane	Ave	0.5872	0.5853		9.97	10.0	-0.3	30.0
1,1-Dichloropropene	Ave	0.4327	0.4304		9.95	10.0	-0.5	30.0
Cyclohexane	Ave	0.4817	0.4479		9.30	10.0	-7.0	50.0
Carbon tetrachloride	Ave	0.5294	0.5284		9.98	10.0	-0.2	30.0
Benzene	Ave	1.364	1.336		9.79	10.0	-2.1	30.0
Tert-amyl methyl ether	Ave	0.6420	0.6318		9.84	10.0	-1.6	30.0
Isooctane	Ave	0.8422	0.7605		9.03	10.0	-9.7	30.0
Ethyl acrylate	Ave	0.2148	0.2347		10.9	10.0	9.3	30.0
n-Heptane	Ave	0.3984	0.3710		9.31	10.0	-6.9	30.0
1,2-Dichloropropane	Ave	0.3125	0.2908		9.30	10.0	-7.0	30.0
Dibromomethane	Ave	0.1356	0.1295		9.55	10.0	-4.5	30.0
2-Nitropropane	Lin		0.0353		17.8	20.0	-11.0	30.0
Trichloroethene	Ave	0.4582	0.4540		9.91	10.0	-0.9	30.0
Bromodichloromethane	Ave	0.3820	0.3889		10.2	10.0	1.8	30.0
Methyl methacrylate	Lin2		0.1355		20.4	20.0	2.2	50.0
1,4-Dioxane	Lin		0.0008		180	200	-9.8	50.0
2-Chloroethyl vinyl ether	Lin		0.1478		24.8	20.0	24.0	30.0
Methylcyclohexane	Ave	0.5134	0.4851		9.45	10.0	-5.5	30.0
cis-1,3-Dichloropropene	Ave	1.141	1.181		10.4	10.0	3.5	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1238	0.1201		19.4	20.0	-3.0	50.0
trans-1,3-Dichloropropene	Ave	0.8809	0.9306		10.6	10.0	5.6	30.0
1,1,2-Trichloroethane	Ave	0.5359	0.5368		10.0	10.0	0.2	30.0
Ethyl methacrylate	Ave	0.5157	0.5792		11.2	10.0	12.3	50.0
Toluene	Ave	2.402	2.581		10.7	10.0	7.4	30.0
1,3-Dichloropropane	Ave	0.8672	0.8561		9.87	10.0	-1.3	30.0
2-Hexanone	Lin1		0.2396		21.5	20.0	7.6	50.0
Dibromochloromethane	Ave	0.7410	0.7893		10.7	10.0	6.5	30.0
n-Butyl acetate	Ave	0.5668	0.6086		10.7	10.0	7.4	30.0
1,2-Dibromoethane	Lin2		0.5152		10.8	10.0	7.6	30.0
Tetrachloroethene	Ave	0.8955	0.8974		10.0	10.0	0.2	30.0
1-Chlorohexane	Ave	0.8086	0.8301		10.3	10.0	2.7	30.0
1,1,1,2-Tetrachloroethane	Ave	0.9848	1.029		10.5	10.0	4.5	30.0
Chlorobenzene	Ave	2.809	2.900	0.3000	10.3	10.0	3.2	30.0
Ethylbenzene	Ave	1.516	1.587		10.5	10.0	4.7	30.0
m-Xylene & p-Xylene	Ave	3.461	3.619		10.5	10.0	4.6	30.0
Bromoform	Lin2		0.3010	0.1000	10.2	10.0	2.0	30.0
Styrene	Ave	2.492	2.699		10.8	10.0	8.3	30.0
Cyclohexanone	Lin2		0.0129		521	500	4.1	30.0
o-Xylene	Ave	1.912	2.024		10.6	10.0	5.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6082	0.5807	0.3000	9.55	10.0	-4.5	30.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: ICV 600-285161/10 Calibration Date: 01/14/2020 12:23

Instrument ID: CHVOAMS07 Calib Start Date: 01/14/2020 08:52

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 01/14/2020 11:21

Lab File ID: A01409.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,4-Dichloro-2-butene	Lin1		0.1130		10.1	10.0	1.4	50.0
1,2,3-Trichloropropane	Lin1		0.1565		10.9	10.0	9.4	30.0
Isopropylbenzene	Ave	4.364	4.338		9.94	10.0	-0.6	30.0
Bromobenzene	Lin2		1.023		10.4	10.0	3.6	30.0
N-Propylbenzene	Ave	1.277	1.321		10.3	10.0	3.4	30.0
2-Chlorotoluene	Ave	1.160	1.179		10.2	10.0	1.6	30.0
4-Chlorotoluene	Ave	2.859	2.921		10.2	10.0	2.2	30.0
1,3,5-Trimethylbenzene	Ave	3.683	3.701		10.1	10.0	0.5	30.0
tert-Butylbenzene	Ave	3.168	3.215		10.2	10.0	1.5	30.0
1,2,4-Trimethylbenzene	Ave	3.658	3.743		10.2	10.0	2.3	30.0
sec-Butylbenzene	Ave	4.537	4.499		9.92	10.0	-0.8	30.0
Benzyl chloride	Ave	0.8305	0.7695		9.27	10.0	-7.3	30.0
1,3-Dichlorobenzene	Ave	2.144	2.122		9.90	10.0	-1.0	30.0
4-Isopropyltoluene	Ave	4.305	4.369		10.2	10.0	1.5	30.0
1,4-Dichlorobenzene	Ave	2.256	2.266		10.1	10.0	0.5	30.0
1,2,3-Trimethylbenzene	Ave	3.558	3.656		10.3	10.0	2.8	30.0
1,2-Dichlorobenzene	Ave	1.782	1.768		9.92	10.0	-0.8	30.0
n-Butylbenzene	Ave	3.217	3.225		10.0	10.0	0.2	30.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0875		10.9	10.0	9.2	30.0
1,3,5-Trichlorobenzene	Ave	1.167	1.167		9.99	10.0	-0.0	30.0
1,2,4-Trichlorobenzene	Ave	0.8100	0.7608		9.39	10.0	-6.1	30.0
Naphthalene	Lin1		1.186		10.7	10.0	7.1	30.0
Hexachlorobutadiene	Lin1		0.1757		10.6	10.0	5.5	30.0
1,2,3-Trichlorobenzene	Ave	0.5231	0.5365		10.3	10.0	2.6	30.0
Dibromofluoromethane	Ave	0.3223	0.3332		12.9	12.5	3.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2215	0.2105		11.9	12.5	-5.0	30.0
Toluene-d8 (Surr)	Ave	3.320	3.846		14.5	12.5	15.8	30.0
4-Bromofluorobenzene	Lin2		1.008		14.4	12.5	15.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCVIS 600-285529/2 Calibration Date: 01/17/2020 16:43

Instrument ID: CHVOAMS07 Calib Start Date: 01/14/2020 08:52

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 01/14/2020 11:21

Lab File ID: A01701a.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5616	0.4806		8.56	10.0	-14.4	35.0
Chloromethane	Ave	0.7607	0.7050	0.1000	9.27	10.0	-7.3	35.0
Vinyl chloride	Ave	0.7288	0.5815		7.98	10.0	-20.2*	20.0
Butadiene	Ave	0.7479	0.6901		9.23	10.0	-7.7	35.0
Ethylene oxide	Qua		0.0150		69.9	100	-30.1	35.0
Bromomethane	Ave	0.2173	0.2883		13.3	10.0	32.7	35.0
Chloroethane	Ave	0.2270	0.3245		14.3	10.0	42.9*	35.0
Acrolein	Lin1		0.0070		64.0	50.0	28.1	50.0
Trichlorofluoromethane	Ave	0.6023	0.8619		14.3	10.0	43.1*	35.0
Acetonitrile	Ave	0.0153	0.0181		118	100	18.2	50.0
Isopropyl alcohol	Lin		0.0079		110	100	9.6	50.0
Acetone	Lin2		0.0339		20.1	20.0	0.4	50.0
Ethyl ether	Ave	0.1923	0.2110		11.0	10.0	9.7	35.0
t-Butanol	Ave	0.0136	0.0151		111	100	11.0	35.0
1,1-Dichloroethene	Ave	0.2823	0.3120		11.1	10.0	10.5	20.0
Acrylonitrile	Ave	0.0332	0.0443		134	100	33.5	50.0
Iodomethane	Ave	0.4345	0.4553		10.5	10.0	4.8	35.0
Methylene Chloride	Lin1		0.3123		9.38	10.0	-6.2	50.0
Methyl acetate	Ave	0.1030	0.1210		23.5	20.0	17.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2991	0.3776		12.6	10.0	26.3	35.0
3-Chloro-1-propene	Ave	0.1832	0.1828		9.98	10.0	-0.2	35.0
Carbon disulfide	Ave	0.7531	0.7360		9.77	10.0	-2.3	35.0
trans-1,2-Dichloroethene	Ave	0.3584	0.3677		10.3	10.0	2.6	35.0
Methyl tert-butyl ether	Ave	0.5980	0.5476		9.16	10.0	-8.4	35.0
Propionitrile	Ave	0.0138	0.0190		137	100	37.4*	35.0
1,1-Dichloroethane	Ave	0.5874	0.7067	0.1000	12.0	10.0	20.3	35.0
Vinyl acetate	Lin2		0.3415		21.3	20.0	6.6	50.0
2-Chloro-1,3-butadiene	Ave	0.5425	0.7778		14.3	10.0	43.4*	35.0
Hexane	Ave	0.4240	0.6384		15.1	10.0	50.6*	35.0
Isopropyl ether	Ave	1.178	1.474		12.5	10.0	25.2	35.0
2-Butanone (MEK)	Lin1		0.0145		16.1	20.0	-19.7	50.0
Methacrylonitrile	Lin		0.0176		84.8	100	-15.2	35.0
cis-1,2-Dichloroethene	Ave	0.3898	0.3700		9.49	10.0	-5.1	35.0
Ethyl acetate	Lin1		0.1169		18.6	20.0	-7.0	35.0
Chlorobromomethane	Ave	0.1662	0.1502		9.04	10.0	-9.6	35.0
Tert-butyl ethyl ether	Ave	0.8683	1.031		11.9	10.0	18.7	35.0
Chloroform	Ave	0.6292	0.6151		9.78	10.0	-2.2	20.0
Isobutyl alcohol	Lin1		0.0071		300	250	19.8	50.0
2,2-Dichloropropane	Ave	0.5316	0.5393		10.1	10.0	1.4	35.0
Tetrahydrofuran	Lin1		0.0368		20.9	20.0	4.3	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCVIS 600-285529/2 Calibration Date: 01/17/2020 16:43

Instrument ID: CHVOAMS07 Calib Start Date: 01/14/2020 08:52

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 01/14/2020 11:21

Lab File ID: A01701a.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.2874	0.2881		10.0	10.0	0.2	35.0
1,1,1-Trichloroethane	Ave	0.5872	0.6189		10.5	10.0	5.4	35.0
1,1-Dichloropropene	Ave	0.4327	0.4568		10.6	10.0	5.6	35.0
Cyclohexane	Ave	0.4817	0.5043		10.5	10.0	4.7	35.0
Carbon tetrachloride	Ave	0.5294	0.5862		11.1	10.0	10.7	35.0
Benzene	Ave	1.364	1.313		9.62	10.0	-3.8	35.0
Tert-amyl methyl ether	Ave	0.6420	0.5777		9.00	10.0	-10.0	35.0
Isooctane	Ave	0.8422	1.245		14.8	10.0	47.9*	35.0
Ethyl acrylate	Ave	0.2148	0.2818		13.1	10.0	31.2	35.0
n-Heptane	Ave	0.3984	0.5731		14.4	10.0	43.8*	35.0
Dibromomethane	Ave	0.1356	0.1057		7.79	10.0	-22.1	35.0
1,2-Dichloropropane	Ave	0.3125	0.3455		11.1	10.0	10.5	20.0
2-Nitropropane	Lin		0.0351		17.7	20.0	-11.3	35.0
Trichloroethene	Ave	0.4582	0.4617		10.1	10.0	0.8	35.0
Bromodichloromethane	Ave	0.3820	0.3522		9.22	10.0	-7.8	35.0
Methyl methacrylate	Lin2		0.1341		20.2	20.0	1.2	50.0
1,4-Dioxane	Lin		0.0010		227	200	13.3	50.0
2-Chloroethyl vinyl ether	Lin		0.1061		17.8	20.0	-10.8	35.0
Methylcyclohexane	Ave	0.5134	0.5756		11.2	10.0	12.1	35.0
cis-1,3-Dichloropropene	Ave	1.141	1.057		9.27	10.0	-7.4	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1238	0.1248		20.2	20.0	0.8	50.0
trans-1,3-Dichloropropene	Ave	0.8809	0.7715		8.76	10.0	-12.4	35.0
1,1,2-Trichloroethane	Ave	0.5359	0.4407		8.22	10.0	-17.8	35.0
Ethyl methacrylate	Ave	0.5157	0.4486		8.70	10.0	-13.0	50.0
Toluene	Ave	2.402	2.267		9.44	10.0	-5.6	20.0
1,3-Dichloropropane	Ave	0.8672	0.7276		8.39	10.0	-16.1	35.0
2-Hexanone	Lin1		0.2215		19.9	20.0	-0.4	50.0
Dibromochloromethane	Ave	0.7410	0.6632		8.95	10.0	-10.5	35.0
n-Butyl acetate	Ave	0.5668	0.5737		10.1	10.0	1.2	35.0
1,2-Dibromoethane	Lin2		0.4355		9.05	10.0	-9.5	35.0
Tetrachloroethene	Ave	0.8955	1.040		11.6	10.0	16.1	35.0
1-Chlorohexane	Ave	0.8086	1.115		13.8	10.0	37.9*	35.0
1,1,1,2-Tetrachloroethane	Ave	0.9848	0.9850		10.0	10.0	0.0	35.0
Chlorobenzene	Ave	2.809	2.784	0.3000	9.91	10.0	-0.9	35.0
Ethylbenzene	Ave	1.516	1.505		9.93	10.0	-0.7	20.0
m-Xylene & p-Xylene	Ave	3.461	3.445		9.95	10.0	-0.5	35.0
Bromoform	Lin2		0.3265	0.1000	11.1	10.0	10.9	35.0
Styrene	Ave	2.492	2.435		9.77	10.0	-2.3	35.0
Cyclohexanone	Lin2		0.0122		489	500	-2.2	35.0
o-Xylene	Ave	1.912	1.764		9.22	10.0	-7.8	35.0
1,1,2,2-Tetrachloroethane	Ave	0.6082	0.4158	0.3000	6.84	10.0	-31.6	35.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCVIS 600-285529/2 Calibration Date: 01/17/2020 16:43

Instrument ID: CHVOAMS07 Calib Start Date: 01/14/2020 08:52

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 01/14/2020 11:21

Lab File ID: A01701a.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,4-Dichloro-2-butene	Lin1		0.1010		9.03	10.0	-9.7	50.0
1,2,3-Trichloropropane	Lin1		0.1191		8.22	10.0	-17.8	35.0
Isopropylbenzene	Ave	4.364	3.923		8.99	10.0	-10.1	35.0
Bromobenzene	Lin2		1.022		10.4	10.0	3.5	35.0
N-Propylbenzene	Ave	1.277	1.204		9.43	10.0	-5.7	35.0
2-Chlorotoluene	Ave	1.160	1.041		8.97	10.0	-10.3	35.0
4-Chlorotoluene	Ave	2.859	2.657		9.29	10.0	-7.1	35.0
1,3,5-Trimethylbenzene	Ave	3.683	3.405		9.25	10.0	-7.5	35.0
tert-Butylbenzene	Ave	3.168	3.167		10.00	10.0	-0.0	35.0
1,2,4-Trimethylbenzene	Ave	3.658	3.438		9.40	10.0	-6.0	35.0
sec-Butylbenzene	Ave	4.537	4.176		9.21	10.0	-8.0	35.0
Benzyl chloride	Ave	0.8305	0.6702		8.07	10.0	-19.3	35.0
1,3-Dichlorobenzene	Ave	2.144	2.157		10.1	10.0	0.6	35.0
4-Isopropyltoluene	Ave	4.305	4.107		9.54	10.0	-4.6	35.0
1,4-Dichlorobenzene	Ave	2.256	2.149		9.53	10.0	-4.7	35.0
1,2,3-Trimethylbenzene	Ave	3.558	3.234		9.09	10.0	-9.1	35.0
1,2-Dichlorobenzene	Ave	1.782	1.718		9.64	10.0	-3.6	35.0
n-Butylbenzene	Ave	3.217	2.930		9.11	10.0	-8.9	35.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0782		9.72	10.0	-2.8	35.0
1,3,5-Trichlorobenzene	Ave	1.167	1.443		12.4	10.0	23.6	35.0
1,2,4-Trichlorobenzene	Ave	0.8100	0.8918		11.0	10.0	10.1	35.0
Naphthalene	Lin1		0.9037		8.10	10.0	-19.0	35.0
Hexachlorobutadiene	Lin1		0.2582		15.8	10.0	57.5*	35.0
1,2,3-Trichlorobenzene	Ave	0.5231	0.5287		10.1	10.0	1.1	35.0
Dibromofluoromethane	Ave	0.3223	0.2989		9.28	10.0	-7.3	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2215	0.2156		9.73	10.0	-2.7	35.0
Toluene-d8 (Surr)	Ave	3.320	3.340		10.1	10.0	0.6	35.0
4-Bromofluorobenzene	Lin2		0.8808		9.99	10.0	-0.1	35.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-285529/6

Matrix: Water Lab File ID: A01705.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 01/17/2020 18:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285529 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		50-134
460-00-4	4-Bromofluorobenzene	117		67-139
1868-53-7	Dibromofluoromethane	93		62-130
2037-26-5	Toluene-d8 (Surr)	108		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-285834/6

Matrix: Water Lab File ID: C02205.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 01/22/2020 14:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285834 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.0003796	J	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	67		50-134
460-00-4	4-Bromofluorobenzene	120		67-139
1868-53-7	Dibromofluoromethane	73		62-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-285529/3

Matrix: Water Lab File ID: A01702.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 01/17/2020 17:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285529 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01190		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01062		0.00100	0.000192
71-43-2	Benzene	0.009567		0.00100	0.000176
91-20-3	Naphthalene	0.008887		0.00200	0.000129
127-18-4	Tetrachloroethene	0.01128		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		50-134
460-00-4	4-Bromofluorobenzene	117		67-139
1868-53-7	Dibromofluoromethane	97		62-130
2037-26-5	Toluene-d8 (Surr)	106		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-285834/3

Matrix: Water Lab File ID: C02202.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 01/22/2020 13:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285834 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01187		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01127		0.00100	0.000192
71-43-2	Benzene	0.01157		0.00100	0.000176
91-20-3	Naphthalene	0.006395		0.00200	0.000129
127-18-4	Tetrachloroethene	0.01017		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	63		50-134
460-00-4	4-Bromofluorobenzene	120		67-139
1868-53-7	Dibromofluoromethane	75		62-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 600-285529/4

Matrix: Water Lab File ID: A01703.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 01/17/2020 17:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285529 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01135		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01003		0.00100	0.000192
71-43-2	Benzene	0.009190		0.00100	0.000176
91-20-3	Naphthalene	0.008920		0.00200	0.000129
127-18-4	Tetrachloroethene	0.01130		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		50-134
460-00-4	4-Bromofluorobenzene	116		67-139
1868-53-7	Dibromofluoromethane	95		62-130
2037-26-5	Toluene-d8 (Surr)	110		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 600-285834/4

Matrix: Water Lab File ID: C02203.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 01/22/2020 13:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 285834 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01138		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01085		0.00100	0.000192
71-43-2	Benzene	0.01091		0.00100	0.000176
91-20-3	Naphthalene	0.006285		0.00200	0.000129
127-18-4	Tetrachloroethene	0.009509		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	69		50-134
460-00-4	4-Bromofluorobenzene	121		67-139
1868-53-7	Dibromofluoromethane	76		62-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 12/04/2019 12:43

Analysis Batch Number: 282054 End Date: 12/04/2019 23:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-282054/1		12/04/2019 12:43	1	C33800.D	DB-VRX 60 0.25(mm)
IC 600-282054/2		12/04/2019 13:08	1	C33801.D	DB-VRX 60 0.25(mm)
IC 600-282054/3		12/04/2019 13:36	1	C33802.D	DB-VRX 60 0.25(mm)
IC 600-282054/4		12/04/2019 14:06	1	C33803.D	DB-VRX 60 0.25(mm)
IC 600-282054/5		12/04/2019 14:34	1	C33804.D	DB-VRX 60 0.25(mm)
ICIS 600-282054/6		12/04/2019 15:02	1	C33805.D	DB-VRX 60 0.25(mm)
IC 600-282054/7		12/04/2019 15:30	1	C33806.D	DB-VRX 60 0.25(mm)
IC 600-282054/8		12/04/2019 15:57	1	C33807.D	DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 16:25	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 16:52	1		DB-VRX 60 0.25(mm)
ICV 600-282054/1010		12/04/2019 16:52	1	C33809-ICV.d	DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 17:20	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 17:47	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 18:14	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 18:41	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 19:08	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 19:35	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 20:01	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 20:28	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 20:54	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 21:21	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 21:47	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 22:13	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 22:39	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 23:05	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 23:32	1		DB-VRX 60 0.25(mm)
ZZZZZ		12/04/2019 23:58	1		DB-VRX 60 0.25(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 01/22/2020 11:57

Analysis Batch Number: 285834 End Date: 01/22/2020 23:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-285834/1		01/22/2020 11:57	1	C02200.D	DB-VRX 60 0.25(mm)
CCVIS 600-285834/2		01/22/2020 12:24	1	C02201.D	DB-VRX 60 0.25(mm)
LCS 600-285834/3		01/22/2020 13:01	1	C02202.D	DB-VRX 60 0.25(mm)
LCSD 600-285834/4		01/22/2020 13:27	1	C02203.D	DB-VRX 60 0.25(mm)
MB 600-285834/6		01/22/2020 14:19	1	C02205.D	DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 14:46	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 15:12	5		DB-VRX 60 0.25(mm)
600-199031-4		01/22/2020 15:38	1	C02208.D	DB-VRX 60 0.25(mm)
600-199031-5		01/22/2020 16:05	1	C02209.D	DB-VRX 60 0.25(mm)
600-199031-6		01/22/2020 16:32	1	C02210.D	DB-VRX 60 0.25(mm)
600-199031-4 DL		01/22/2020 16:58	5	C02211.D	DB-VRX 60 0.25(mm)
600-199031-5 DL		01/22/2020 17:24	10	C02212.D	DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 17:51	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 18:17	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 18:44	500		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 19:10	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 19:36	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 20:02	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 20:28	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 20:54	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 21:20	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 21:46	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 22:12	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 22:38	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 23:04	1000		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 23:30	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/22/2020 23:57	1		DB-VRX 60 0.25(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Instrument ID: CHVOAMS07 Start Date: 01/14/2020 08:02

Analysis Batch Number: 285161 End Date: 01/14/2020 19:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-285161/1		01/14/2020 08:02	1	A01400.D	DB-VRX 60 0.25(mm)
IC 600-285161/2		01/14/2020 08:52	1	A01401.d	DB-VRX 60 0.25(mm)
IC 600-285161/3		01/14/2020 09:16	1	A01402.d	DB-VRX 60 0.25(mm)
IC 600-285161/4		01/14/2020 09:42	1	A01403.d	DB-VRX 60 0.25(mm)
IC 600-285161/5		01/14/2020 10:07	1	A01404.d	DB-VRX 60 0.25(mm)
ICIS 600-285161/6		01/14/2020 10:31	1	A01405.d	DB-VRX 60 0.25(mm)
IC 600-285161/7		01/14/2020 10:56	1	A01406.d	DB-VRX 60 0.25(mm)
IC 600-285161/8		01/14/2020 11:21	1	A01407.d	DB-VRX 60 0.25(mm)
ICV 600-285161/10		01/14/2020 12:23	1	A01409.d	DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 12:23	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 12:48	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 13:38	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 14:03	2500		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 14:28	2500		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 14:53	10000		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 15:18	10000		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 15:43	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 16:08	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 16:34	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 16:59	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 17:24	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 17:49	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 18:14	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 18:39	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 19:04	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 19:29	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/14/2020 19:54	1		DB-VRX 60 0.25(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Instrument ID: CHVOAMS07 Start Date: 01/17/2020 15:34

Analysis Batch Number: 285529 End Date: 01/18/2020 03:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-285529/1		01/17/2020 15:34	1	A01700a.d	DB-VRX 60 0.25(mm)
CCVIS 600-285529/2		01/17/2020 16:43	1	A01701a.d	DB-VRX 60 0.25(mm)
LCS 600-285529/3		01/17/2020 17:31	1	A01702.d	DB-VRX 60 0.25(mm)
LCSD 600-285529/4		01/17/2020 17:56	1	A01703.d	DB-VRX 60 0.25(mm)
MB 600-285529/6		01/17/2020 18:45	1	A01705.d	DB-VRX 60 0.25(mm)
ZZZZZ		01/17/2020 19:09	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/17/2020 19:34	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/17/2020 20:00	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/17/2020 20:26	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/17/2020 20:52	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/17/2020 21:18	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/17/2020 21:44	25		DB-VRX 60 0.25(mm)
ZZZZZ		01/17/2020 22:10	100		DB-VRX 60 0.25(mm)
ZZZZZ		01/17/2020 22:36	100		DB-VRX 60 0.25(mm)
600-199031-1		01/17/2020 23:02	1	A01715.d	DB-VRX 60 0.25(mm)
600-199031-2		01/17/2020 23:28	1	A01716.d	DB-VRX 60 0.25(mm)
600-199031-3		01/17/2020 23:54	1	A01717.d	DB-VRX 60 0.25(mm)
600-199031-7		01/18/2020 00:20	1	A01718.d	DB-VRX 60 0.25(mm)
ZZZZZ		01/18/2020 00:46	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/18/2020 01:12	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/18/2020 01:38	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/18/2020 02:04	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/18/2020 02:30	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/18/2020 02:57	1		DB-VRX 60 0.25(mm)
ZZZZZ		01/18/2020 03:23	1		DB-VRX 60 0.25(mm)

8260B

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Batch Number: 282054 Batch Start Date: 12/04/19 12:43 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFB 00296	VOAIS50PPM 00265	VOALCSGASPT 00354	VOALCSPT2T 00074
BFB 600-282054/1		8260B		20 mL	20 mL	2 uL			
IC 600-282054/2		8260B		20 mL	20 mL		5 uL		
IC 600-282054/3		8260B		20 mL	20 mL		5 uL		
IC 600-282054/4		8260B		20 mL	20 mL		5 uL		
IC 600-282054/5		8260B		20 mL	20 mL		5 uL		
ICIS 600-282054/6		8260B		20 mL	20 mL		5 uL		
IC 600-282054/7		8260B		20 mL	20 mL		5 uL		
IC 600-282054/8		8260B		20 mL	20 mL		5 uL		
ICV 600-282054/1010		8260B		20 mL	20 mL		5 uL	4 uL	4 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOASS50PPM 00303	VOASTDGASPT 00354	VOASTDst 00123			
BFB 600-282054/1		8260B							
IC 600-282054/2		8260B			0.2 uL	0.2 uL			
IC 600-282054/3		8260B			0.4 uL	0.4 uL			
IC 600-282054/4		8260B			0.8 uL	0.8 uL			
IC 600-282054/5		8260B			2 uL	2 uL			
ICIS 600-282054/6		8260B			4 uL	4 uL			
IC 600-282054/7		8260B			8 uL	8 uL			
IC 600-282054/8		8260B			20 uL	20 uL			
ICV 600-282054/1010		8260B		5 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Batch Number: 285161 Batch Start Date: 01/14/20 08:02 Batch Analyst: Shen, Wei

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFB 00299	EOxideLcs 00168	EOxideStd 00168	VOAIS50PPM 00268
BFB 600-285161/1		8260B		20 mL	20 mL	2 uL			
IC 600-285161/2		8260B		20 mL	20 mL			0.2 uL	5 uL
IC 600-285161/3		8260B		20 mL	20 mL			0.4 uL	5 uL
IC 600-285161/4		8260B		20 mL	20 mL			0.8 uL	5 uL
IC 600-285161/5		8260B		20 mL	20 mL			2 uL	5 uL
ICIS 600-285161/6		8260B		20 mL	20 mL			4 uL	5 uL
IC 600-285161/7		8260B		20 mL	20 mL			8 uL	5 uL
IC 600-285161/8		8260B		20 mL	20 mL			20 uL	5 uL
ICV 600-285161/10		8260B		20 mL	20 mL		4 uL		5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSGASPT 00360	VOALCSPT2 00156	VOASS50PPM 00306	VOASTDGASPT 00360	VOASTDPT2 00156	
BFB 600-285161/1		8260B							
IC 600-285161/2		8260B					0.2 uL	0.2 uL	
IC 600-285161/3		8260B					0.4 uL	0.4 uL	
IC 600-285161/4		8260B					0.8 uL	0.8 uL	
IC 600-285161/5		8260B					2 uL	2 uL	
ICIS 600-285161/6		8260B					4 uL	4 uL	
IC 600-285161/7		8260B					8 uL	8 uL	
IC 600-285161/8		8260B					20 uL	20 uL	
ICV 600-285161/10		8260B		4 uL	4 uL	5 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Batch Number: 285529 Batch Start Date: 01/17/20 15:34 Batch Analyst: Phakdee, Ruthaiwan

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFB 00300	EOxideLcs 00169	EOxideStd 00169
BFB 600-285529/1		8260B		20 mL	20 mL		2 uL		
CCVIS 600-285529/2		8260B		20 mL	20 mL				4 uL
LCS 600-285529/3		8260B		20 mL	20 mL			4 uL	
LCSD 600-285529/4		8260B		20 mL	20 mL			4 uL	
MB 600-285529/6		8260B		20 mL	20 mL				
600-199031-C-1	ARTESIA-TB01-011 42020	8260B	T	20 mL	20 mL	2 SU			
600-199031-C-2	ARTESIA-MW17C-01 142020	8260B	T	20 mL	20 mL	2 SU			
600-199031-C-3	ARTESIA-MW36-011 42020	8260B	T	20 mL	20 mL	2 SU			
600-199031-B-7	ARTESIA-MW11-011 42020	8260B	T	20 mL	20 mL	2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOAIS50PPM 00269	VOALCSGASPT 00361	VOALCSPT2 00157	VOASS50PPM 00307	VOASTDGASPT 00361	VOASTDPT2 00157
BFB 600-285529/1		8260B							
CCVIS 600-285529/2		8260B		5 uL				4 uL	4 uL
LCS 600-285529/3		8260B		5 uL	4 uL	4 uL	5 uL		
LCSD 600-285529/4		8260B		5 uL	4 uL	4 uL	5 uL		
MB 600-285529/6		8260B		5 uL			5 uL		
600-199031-C-1	ARTESIA-TB01-011 42020	8260B	T	5 uL			5 uL		
600-199031-C-2	ARTESIA-MW17C-01 142020	8260B	T	5 uL			5 uL		
600-199031-C-3	ARTESIA-MW36-011 42020	8260B	T	5 uL			5 uL		
600-199031-B-7	ARTESIA-MW11-011 42020	8260B	T	5 uL			5 uL		

Batch Notes	
pH Indicator ID	HC991818

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Batch Number: 285529 Batch Start Date: 01/17/20 15:34 Batch Analyst: Phakdee, Ruthaiwan

Batch Method: 8260B Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Batch Number: 285834 Batch Start Date: 01/22/20 11:57 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFB 00300	VOAIS50PPM 00269	VOALCSGASPT 00362
BFB 600-285834/1		8260B		20 mL	20 mL		2 uL		
CCVIS 600-285834/2		8260B		20 mL	20 mL			5 uL	
LCS 600-285834/3		8260B		20 mL	20 mL			5 uL	4 uL
LCSD 600-285834/4		8260B		20 mL	20 mL			5 uL	4 uL
MB 600-285834/6		8260B		20 mL	20 mL			5 uL	
600-199031-C-4	ARTESIA-MW12-011 42020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-199031-C-5	ARTESIA-MW38-011 42020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-199031-C-6	ARTESIA-MW37-011 42020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-199031-A-4	ARTESIA-MW12-011 42020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-199031-A-5	ARTESIA-MW38-011 42020	8260B	T	20 mL	20 mL	2 SU		5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00078	VOASS50PPM 00307	VOASTDGASPT 00362	VOASTDst 00127		
BFB 600-285834/1		8260B							
CCVIS 600-285834/2		8260B				4 uL	4 uL		
LCS 600-285834/3		8260B		4 uL	5 uL				
LCSD 600-285834/4		8260B		4 uL	5 uL				
MB 600-285834/6		8260B			5 uL				
600-199031-C-4	ARTESIA-MW12-011 42020	8260B	T		5 uL				
600-199031-C-5	ARTESIA-MW38-011 42020	8260B	T		5 uL				
600-199031-C-6	ARTESIA-MW37-011 42020	8260B	T		5 uL				
600-199031-A-4	ARTESIA-MW12-011 42020	8260B	T		5 uL				
600-199031-A-5	ARTESIA-MW38-011 42020	8260B	T		5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Batch Number: 285834 Batch Start Date: 01/22/20 11:57 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Batch Notes	
pH Indicator ID	HC991818

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 300.0

Anions (IC) by Method 300.0

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 600-0033285-036.d

Lab ID: LCS 600-285350/36 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Sulfate	20.0	18.75	94	90-110	

Column to be used to flag recovery and RPD values

FORM III 300.0

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 011720-600-0033333-007.d

Lab ID: LCS 600-285550/7 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Sulfate	20.0	18.11	91	90-110	

Column to be used to flag recovery and RPD values

FORM III 300.0

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 600-0033355-005.d

Lab ID: LCS 600-285676/5 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Sulfate	20.0	20.02	100	90-110	

Column to be used to flag recovery and RPD values

FORM III 300.0

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 011720-600-0033333-021.d

Lab ID: 600-199031-7 MS Client ID: ARTESIA-MW11-01142020 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Sulfate	2000	1630	4084	123	80-120	F1

Column to be used to flag recovery and RPD values

FORM III 300.0

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 011720-600-0033333-022.d

Lab ID: 600-199031-7 MSD Client ID: ARTESIA-MW11-01142020 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Sulfate	2000	4388	138	7	20	80-120	F1

Column to be used to flag recovery and RPD values

FORM III 300.0

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab File ID: 600-0033285-035.d Lab Sample ID: MB 600-285350/35

Matrix: Water Date Extracted:

Instrument ID: CHWC11 Date Analyzed: 01/16/2020 23:08

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	CCB 600-285350/27	600-0033285-027.d	01/16/2020 20:25
	LCS 600-285350/36	600-0033285-036.d	01/16/2020 23:29
	CCB 600-285350/39	600-0033285-039.d	01/17/2020 00:30
ARTESIA-MW17C-01142020	600-199031-2	600-0033285-046.d	01/17/2020 02:53
ARTESIA-MW36-01142020	600-199031-3	600-0033285-047.d	01/17/2020 03:13
	CCB 600-285350/49	600-0033285-049.d	01/17/2020 03:54

FORM IV 300.0

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab File ID: 600-0033355-004.d Lab Sample ID: MB 600-285676/4

Matrix: Water Date Extracted:

Instrument ID: CHWC11 Date Analyzed: 01/21/2020 13:54

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	CCB 600-285676/3	600-0033355-003.d	01/21/2020 13:34
	LCS 600-285676/5	600-0033355-005.d	01/21/2020 14:14
ARTESIA-MW12-01142020	600-199031-4	600-0033355-006.d	01/21/2020 15:07
	CCB 600-285676/15	600-0033355-015.d	01/21/2020 18:20

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab File ID: 011720-600-0033333-006.d Lab Sample ID: MB 600-285550/6

Matrix: Water Date Extracted:

Instrument ID: CHWC17(IC) Date Analyzed: 01/17/2020 09:31

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	CCB 600-285550/5	011720-600-0033333-005.d	01/17/2020 09:20
	LCS 600-285550/7	011720-600-0033333-007.d	01/17/2020 09:42
	CCB 600-285550/17	011720-600-0033333-017.d	01/17/2020 11:30
ARTESIA-MW38-01142020	600-199031-5	011720-600-0033333-018.d	01/17/2020 11:40
ARTESIA-MW37-01142020	600-199031-6	011720-600-0033333-019.d	01/17/2020 11:51
ARTESIA-MW11-01142020	600-199031-7	011720-600-0033333-020.d	01/17/2020 12:02
ARTESIA-MW11-01142020 MS	600-199031-7 MS	011720-600-0033333-021.d	01/17/2020 12:13
ARTESIA-MW11-01142020 MSD	600-199031-7 MSD	011720-600-0033333-022.d	01/17/2020 12:23
	CCB 600-285550/29	011720-600-0033333-029.d	01/17/2020 13:39

FORM IV 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW17C-01142020 Lab Sample ID: 600-199031-2

Matrix: Water Lab File ID: 600-0033285-046.d

Analysis Method: 300.0 Date Collected: 01/14/2020 11:50

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2020 02:53

Con. Extract Vol.: 1.0(mL) Dilution Factor: 100

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285350 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	2210		50.0	9.57

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW36-01142020 Lab Sample ID: 600-199031-3

Matrix: Water Lab File ID: 600-0033285-047.d

Analysis Method: 300.0 Date Collected: 01/14/2020 12:35

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2020 03:13

Con. Extract Vol.: 1.0(mL) Dilution Factor: 200

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285350 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	2180		100	19.1

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW12-01142020 Lab Sample ID: 600-199031-4

Matrix: Water Lab File ID: 600-0033355-006.d

Analysis Method: 300.0 Date Collected: 01/14/2020 12:40

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/21/2020 15:07

Con. Extract Vol.: Dilution Factor: 500

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285676 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	9260		250	47.9

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW38-01142020 Lab Sample ID: 600-199031-5

Matrix: Water Lab File ID: 011720-600-0033333-018.d

Analysis Method: 300.0 Date Collected: 01/14/2020 13:40

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2020 11:40

Con. Extract Vol.: Dilution Factor: 100

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285550 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	785		50.0	9.57

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW37-01142020 Lab Sample ID: 600-199031-6

Matrix: Water Lab File ID: 011720-600-0033333-019.d

Analysis Method: 300.0 Date Collected: 01/14/2020 13:50

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2020 11:51

Con. Extract Vol.: Dilution Factor: 100

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285550 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	2090		50.0	9.57

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW11-01142020 Lab Sample ID: 600-199031-7

Matrix: Water Lab File ID: 011720-600-0033333-020.d

Analysis Method: 300.0 Date Collected: 01/14/2020 15:02

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2020 12:02

Con. Extract Vol.: Dilution Factor: 200

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285550 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	1630	F1	100	19.1

FORM I 300.0

FORM VI

HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA

RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282084

SDG No.:

Instrument ID: CHWC11 GC Column: AS-18 ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 15:35 Calibration End Date: 12/04/2019 17:37 Calibration ID: 17366

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-282084/3	600-0032604-003.d
Level 2	IC 600-282084/4	600-0032604-004.d
Level 3	IC 600-282084/5	600-0032604-005.d
Level 4	IC 600-282084/6	600-0032604-006.d
Level 5	IC 600-282084/7	600-0032604-007.d
Level 6	IC 600-282084/8	600-0032604-008.d
Level 7	IC 600-282084/9	600-0032604-009.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Fluoride	3.209	3.209	3.209	3.209	3.217	3.217	3.217				2.959 - 3.459	3.212
Chloride	5.167	5.167	5.167	5.167	5.167	5.175	5.167				4.917 - 5.417	5.168
Bromide	9.475	9.459	9.450	9.450	9.442	9.442	9.434				9.200 - 9.700	9.450
Sulfate	10.209	10.200	10.200	10.184	10.175	10.159	10.125				9.934 - 10.434	10.179

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282084

SDG No.:

Instrument ID: CHWC11 GC Column: AS-18 ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 15:35 Calibration End Date: 12/04/2019 17:37 Calibration ID: 17366

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-282084/3	600-0032604-003.d
Level 2	IC 600-282084/4	600-0032604-004.d
Level 3	IC 600-282084/5	600-0032604-005.d
Level 4	IC 600-282084/6	600-0032604-006.d
Level 5	IC 600-282084/7	600-0032604-007.d
Level 6	IC 600-282084/8	600-0032604-008.d
Level 7	IC 600-282084/9	600-0032604-009.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Fluoride	9133830 10054585	8475050 10069707	8957217 9788252	10080386	Lin1	-368419.20	9978605.55							0.9990		0.9900
Chloride	4033123 5547388	4512672 5642209	5043278 5728804	5200127	Lin1	-946624.02	5692725.82							1.0000		0.9900
Bromide	1451970 1917409	1482572 1988264	1676862 2017559	1826591	Lin1	-180435.66	1996159.76							0.9990		0.9900
Sulfate	4095460 3736369	3133162 3992420	3463441 4117978	3538793	Lin1	-458429.07	4011892.79							0.9970		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 282084

SDG No.:

Instrument ID: CHWC11 GC Column: AS-18 ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2019 15:35 Calibration End Date: 12/04/2019 17:37 Calibration ID: 17366

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-282084/3	600-0032604-003.d
Level 2	IC 600-282084/4	600-0032604-004.d
Level 3	IC 600-282084/5	600-0032604-005.d
Level 4	IC 600-282084/6	600-0032604-006.d
Level 5	IC 600-282084/7	600-0032604-007.d
Level 6	IC 600-282084/8	600-0032604-008.d
Level 7	IC 600-282084/9	600-0032604-009.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Fluoride	Lin1	1826766 75522802	4237525 97882524	8957217	20160772	50272925	0.200 7.50	0.500 10.0	1.00	2.00	5.00
Chloride	Lin1	1613249 112844183	4512672 229152160	10086556	26000634	55473882	0.400 20.0	1.00 40.0	2.00	5.00	10.0
Bromide	Lin1	290394 14911980	741286 20175587	1676862	3653181	9587046	0.200 7.50	0.500 10.0	1.00	2.00	5.00
Sulfate	Lin1	1638184 79848401	3133162 164719111	6926882	17693964	37363687	0.400 20.0	1.00 40.0	2.00	5.00	10.0

Curve Type Legend:
Lin1 = Linear 1/conc

FORM VI

HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA

RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285475

SDG No.:

Instrument ID: CHWC11 GC Column: AS-18 ID: Heated Purge: (Y/N) N

Calibration Start Date: 01/17/2020 13:43 Calibration End Date: 01/17/2020 15:45 Calibration ID: 17644

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-285475/3	600-0033309-003.d
Level 2	IC 600-285475/4	600-0033309-004.d
Level 3	IC 600-285475/5	600-0033309-005.d
Level 4	IC 600-285475/6	600-0033309-006.d
Level 5	IC 600-285475/7	600-0033309-007.d
Level 6	IC 600-285475/8	600-0033309-008.d
Level 7	IC 600-285475/9	600-0033309-009.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Fluoride	3.192	3.184	3.175	3.201	3.192	3.317	3.200				2.951 - 3.451	3.209
Chloride	4.917	4.900	4.917	4.926	4.909	5.142	4.909				4.676 - 5.176	4.946
Bromide	8.767	8.759	8.759	8.734	8.842	8.834	8.717				8.484 - 8.984	8.773
Sulfate	9.550	9.434	9.417	9.376	9.484	9.184	9.300				9.126 - 9.626	9.392

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285475

SDG No.:

Instrument ID: CHWC11 GC Column: AS-18 ID: Heated Purge: (Y/N) N

Calibration Start Date: 01/17/2020 13:43 Calibration End Date: 01/17/2020 15:45 Calibration ID: 17644

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-285475/3	600-0033309-003.d
Level 2	IC 600-285475/4	600-0033309-004.d
Level 3	IC 600-285475/5	600-0033309-005.d
Level 4	IC 600-285475/6	600-0033309-006.d
Level 5	IC 600-285475/7	600-0033309-007.d
Level 6	IC 600-285475/8	600-0033309-008.d
Level 7	IC 600-285475/9	600-0033309-009.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Fluoride	12988875 10667853	14303538 11196079	9359919 10063411	10553582	Lin1	681787.986	10434659.7							0.9950		0.9900
Chloride	4030423 5629476	4461665 6131251	5216907 5771964	5270732	Lin1	-1040965.9	5866663.19							0.9980		0.9900
Bromide	1545930 1875574	1636214 1760513	1590126 1968475	1830541	Lin1	-111760.29	1886537.83							0.9970		0.9900
Sulfate	733560 3121125	1120768 3662875	2294359 3786025	2973412	Lin1	-1872093.4	3697504.51							0.9950		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285475

SDG No.:

Instrument ID: CHWC11 GC Column: AS-18 ID: Heated Purge: (Y/N) N

Calibration Start Date: 01/17/2020 13:43 Calibration End Date: 01/17/2020 15:45 Calibration ID: 17644

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-285475/3	600-0033309-003.d
Level 2	IC 600-285475/4	600-0033309-004.d
Level 3	IC 600-285475/5	600-0033309-005.d
Level 4	IC 600-285475/6	600-0033309-006.d
Level 5	IC 600-285475/7	600-0033309-007.d
Level 6	IC 600-285475/8	600-0033309-008.d
Level 7	IC 600-285475/9	600-0033309-009.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Fluoride	Lin1	2597775 83970596	7151769 100634114	9359919	21107163	53339263	0.200 7.50	0.500 10.0	1.00	2.00	5.00
Chloride	Lin1	1612169 122625015	4461665 230878556	10433814	26353659	56294755	0.400 20.0	1.00 40.0	2.00	5.00	10.0
Bromide	Lin1	309186 13203848	818107 19684752	1590126	3661082	9377868	0.200 7.50	0.500 10.0	1.00	2.00	5.00
Sulfate	Lin1	293424 73257502	1120768 151440981	4588717	14867060	31211248	0.400 20.0	1.00 40.0	2.00	5.00	10.0

Curve Type Legend:
Lin1 = Linear 1/conc

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI

HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA

RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285459

SDG No.:

Instrument ID: CHWC17(IC) GC Column: AS22 ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/16/2020 10:42 Calibration End Date: 01/16/2020 11:46 Calibration ID: 17634

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-285459/5	CAL011620-600-0033307-005.d
Level 2	IC 600-285459/6	CAL011620-600-0033307-006.d
Level 3	IC 600-285459/7	CAL011620-600-0033307-007.d
Level 4	IC 600-285459/8	CAL011620-600-0033307-008.d
Level 5	IC 600-285459/9	CAL011620-600-0033307-009.d
Level 6	IC 600-285459/10	CAL011620-600-0033307-010.d
Level 7	IC 600-285459/11	CAL011620-600-0033307-011.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Fluoride	2.614	2.344	2.304	2.297	2.314	2.327	2.341				2.181 - 2.481	2.363
Chloride	2.974	2.967	2.974	2.977	2.981	2.987	3.004				2.841 - 3.141	2.981
Bromide	4.131	4.124	4.127	4.131	4.121	4.121	4.117				3.971 - 4.271	4.125
Sulfate	6.537	6.524	6.544	6.557	6.577	6.614	6.667				6.467 - 6.767	6.574

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285459

SDG No.:

Instrument ID: CHWC17(IC) GC Column: AS22 ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/16/2020 10:42 Calibration End Date: 01/16/2020 11:46 Calibration ID: 17634

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-285459/5	CAL011620-600-0033307-005.d
Level 2	IC 600-285459/6	CAL011620-600-0033307-006.d
Level 3	IC 600-285459/7	CAL011620-600-0033307-007.d
Level 4	IC 600-285459/8	CAL011620-600-0033307-008.d
Level 5	IC 600-285459/9	CAL011620-600-0033307-009.d
Level 6	IC 600-285459/10	CAL011620-600-0033307-010.d
Level 7	IC 600-285459/11	CAL011620-600-0033307-011.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Fluoride	257055935 44172072	119361196 41261750	75900481 38358202	56970969	Lin1	43678402.1	34698125.5							0.9990		0.9900
Chloride	119126085 46510266	69036574 47024537	55879349 48593780	45239963	Lin1	24471620.8	46335316.2							0.9970		0.9900
Bromide	118603500 22046042	57203078 21682674	36734661 22693672	28662114	Lin1	19111342.4	19556821.2							0.9960		0.9900
Sulfate	62954973 34052422	46076315 33694042	38766223 34969767	33784277	Lin1	10791189.2	33869509.4							0.9990		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI

HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA

RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1 Analy Batch No.: 285459

SDG No.:

Instrument ID: CHWC17(IC) GC Column: AS22 ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/16/2020 10:42 Calibration End Date: 01/16/2020 11:46 Calibration ID: 17634

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-285459/5	CAL011620-600-0033307-005.d
Level 2	IC 600-285459/6	CAL011620-600-0033307-006.d
Level 3	IC 600-285459/7	CAL011620-600-0033307-007.d
Level 4	IC 600-285459/8	CAL011620-600-0033307-008.d
Level 5	IC 600-285459/9	CAL011620-600-0033307-009.d
Level 6	IC 600-285459/10	CAL011620-600-0033307-010.d
Level 7	IC 600-285459/11	CAL011620-600-0033307-011.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Fluoride	Lin1	51411187 309463122	59680598 383582016	75900481	113941938	220860362	0.200 7.50	0.500 10.0	1.00	2.00	5.00
Chloride	Lin1	47650434 940490740	69036574 1943751217	111758698	226199815	465102661	0.400 20.0	1.00 40.0	2.00	5.00	10.0
Bromide	Lin1	23720700 162620058	28601539 226936719	36734661	57324227	110230209	0.200 7.50	0.500 10.0	1.00	2.00	5.00
Sulfate	Lin1	25181989 673880838	46076315 1398790666	77532446	168921387	340524224	0.400 20.0	1.00 40.0	2.00	5.00	10.0

Curve Type Legend:

Lin1 = Linear 1/conc

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285350/26 Calibration Date: 01/16/2020 20:05

Instrument ID: CHWC11 Calib Start Date: 12/04/2019 15:35

GC Column: AS-18 ID: Calib End Date: 12/04/2019 17:37

Lab File ID: 600-0033285-026.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		10292650		7.77	7.50	3.6	10.0
Chloride	Lin1		5691742		20.2	20.0	0.8	10.0
Bromide	Lin1		1848060		7.03	7.50	-6.2	10.0
Sulfate	Lin1		3613672		18.1	20.0	-9.4	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285350/26 Calibration Date: 01/16/2020 20:05

Instrument ID: CHWC11 Calib Start Date: 12/04/2019 15:35

GC Column: AS-18 ID: Calib End Date: 12/04/2019 17:37

Lab File ID: 600-0033285-026.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.18	2.93	3.43
Chloride	4.89	4.65	5.15
Bromide	8.72	8.47	8.97
Sulfate	9.39	9.12	9.62

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285350/38 Calibration Date: 01/17/2020 00:10

Instrument ID: CHWC11 Calib Start Date: 12/04/2019 15:35

GC Column: AS-18 ID: Calib End Date: 12/04/2019 17:37

Lab File ID: 600-0033285-038.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		10397343		7.85	7.50	4.7	10.0
Chloride	Lin1		5746126		20.4	20.0	1.8	10.0
Bromide	Lin1		1819552		6.93	7.50	-7.6	10.0
Sulfate	Lin1		3634749		18.2	20.0	-8.8	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285350/38 Calibration Date: 01/17/2020 00:10

Instrument ID: CHWC11 Calib Start Date: 12/04/2019 15:35

GC Column: AS-18 ID: Calib End Date: 12/04/2019 17:37

Lab File ID: 600-0033285-038.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.19	2.93	3.43
Chloride	4.91	4.65	5.15
Bromide	8.73	8.47	8.97
Sulfate	9.36	9.12	9.62

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285350/48 Calibration Date: 01/17/2020 03:34

Instrument ID: CHWC11 Calib Start Date: 12/04/2019 15:35

GC Column: AS-18 ID: Calib End Date: 12/04/2019 17:37

Lab File ID: 600-0033285-048.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		10255453		7.75	7.50	3.3	10.0
Chloride	Lin1		5597565		19.8	20.0	-0.8	10.0
Bromide	Lin1		1788455		6.81	7.50	-9.2	10.0
Sulfate	Lin1		3610825		18.1	20.0	-9.4	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285350/48 Calibration Date: 01/17/2020 03:34

Instrument ID: CHWC11 Calib Start Date: 12/04/2019 15:35

GC Column: AS-18 ID: Calib End Date: 12/04/2019 17:37

Lab File ID: 600-0033285-048.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.18	2.93	3.43
Chloride	4.90	4.65	5.15
Bromide	8.72	8.47	8.97
Sulfate	9.37	9.12	9.62

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285676/2 Calibration Date: 01/21/2020 11:41

Instrument ID: CHWC11 Calib Start Date: 01/17/2020 13:43

GC Column: AS-18 ID: Calib End Date: 01/17/2020 15:45

Lab File ID: 600-0033355-002.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		9841058		7.01	7.50	-6.6	10.0
Chloride	Lin1		5676122		19.5	20.0	-2.4	10.0
Bromide	Lin1		1921328		7.70	7.50	2.6	10.0
Sulfate	Lin1		3719420		20.6	20.0	3.1	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285676/2 Calibration Date: 01/21/2020 11:41

Instrument ID: CHWC11 Calib Start Date: 01/17/2020 13:43

GC Column: AS-18 ID: Calib End Date: 01/17/2020 15:45

Lab File ID: 600-0033355-002.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.20	2.95	3.45
Chloride	4.89	4.68	5.18
Bromide	8.67	8.48	8.98
Sulfate	9.26	9.13	9.63

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285676/14 Calibration Date: 01/21/2020 17:50

Instrument ID: CHWC11 Calib Start Date: 01/17/2020 13:43

GC Column: AS-18 ID: Calib End Date: 01/17/2020 15:45

Lab File ID: 600-0033355-014.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		9767806		6.96	7.50	-7.3	10.0
Chloride	Lin1		5732479		19.7	20.0	-1.4	10.0
Bromide	Lin1		1850457		7.42	7.50	-1.1	10.0
Sulfate	Lin1		3736604		20.7	20.0	3.6	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285676/14 Calibration Date: 01/21/2020 17:50

Instrument ID: CHWC11 Calib Start Date: 01/17/2020 13:43

GC Column: AS-18 ID: Calib End Date: 01/17/2020 15:45

Lab File ID: 600-0033355-014.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.20	2.95	3.45
Chloride	4.89	4.68	5.18
Bromide	8.81	8.48	8.98
Sulfate	9.39	9.13	9.63

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285550/4 Calibration Date: 01/17/2020 09:10

Instrument ID: CHWC17(IC) Calib Start Date: 01/16/2020 10:42

GC Column: AS22 ID: 2.00(mm) Calib End Date: 01/16/2020 11:46

Lab File ID: 011720-600-0033333-004.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		32752918		5.82	7.50	-22.4*	10.0
Chloride	Lin1		44642725		18.7	20.0	-6.3	10.0
Bromide	Lin1		20080638		6.72	7.50	-10.4*	10.0
Sulfate	Lin1		31146811		18.1	20.0	-9.6	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285550/4 Calibration Date: 01/17/2020 09:10

Instrument ID: CHWC17(IC) Calib Start Date: 01/16/2020 10:42

GC Column: AS22 ID: 2.00(mm) Calib End Date: 01/16/2020 11:46

Lab File ID: 011720-600-0033333-004.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.34	2.18	2.48
Chloride	2.97	2.89	3.19
Bromide	4.11	3.97	4.27
Sulfate	6.55	6.47	6.77

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285550/16 Calibration Date: 01/17/2020 11:19

Instrument ID: CHWC17(IC) Calib Start Date: 01/16/2020 10:42

GC Column: AS22 ID: 2.00(mm) Calib End Date: 01/16/2020 11:46

Lab File ID: 011720-600-0033333-016.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		37669699		6.88	7.50	-8.2	10.0
Chloride	Lin1		47440396		20.0	20.0	-0.3	10.0
Bromide	Lin1		21735713		7.36	7.50	-1.9	10.0
Sulfate	Lin1		31503348		18.3	20.0	-8.6	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285550/16 Calibration Date: 01/17/2020 11:19

Instrument ID: CHWC17(IC) Calib Start Date: 01/16/2020 10:42

GC Column: AS22 ID: 2.00(mm) Calib End Date: 01/16/2020 11:46

Lab File ID: 011720-600-0033333-016.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.36	2.18	2.48
Chloride	3.01	2.89	3.19
Bromide	4.15	3.97	4.27
Sulfate	6.62	6.47	6.77

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285550/28 Calibration Date: 01/17/2020 13:28

Instrument ID: CHWC17(IC) Calib Start Date: 01/16/2020 10:42

GC Column: AS22 ID: 2.00(mm) Calib End Date: 01/16/2020 11:46

Lab File ID: 011720-600-0033333-028.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		38689787		7.10	7.50	-5.3	10.0
Chloride	Lin1		46993369		19.8	20.0	-1.2	10.0
Bromide	Lin1		21553975		7.29	7.50	-2.8	10.0
Sulfate	Lin1		33196384		19.3	20.0	-3.6	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Lab Sample ID: CCV 600-285550/28 Calibration Date: 01/17/2020 13:28

Instrument ID: CHWC17(IC) Calib Start Date: 01/16/2020 10:42

GC Column: AS22 ID: 2.00(mm) Calib End Date: 01/16/2020 11:46

Lab File ID: 011720-600-0033333-028.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.36	2.18	2.48
Chloride	3.01	2.89	3.19
Bromide	4.15	3.97	4.27
Sulfate	6.63	6.47	6.77

Form VII 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-285350/35

Matrix: Water Lab File ID: 600-0033285-035.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/16/2020 23:08

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285350 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-285550/6

Matrix: Water Lab File ID: 011720-600-0033333-006.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2020 09:31

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285550 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-285676/4

Matrix: Water Lab File ID: 600-0033355-004.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/21/2020 13:54

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285676 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-285350/27

Matrix: Water Lab File ID: 600-0033285-027.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/16/2020 20:25

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285350 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-285350/39

Matrix: Water Lab File ID: 600-0033285-039.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2020 00:30

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285350 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-285350/49

Matrix: Water Lab File ID: 600-0033285-049.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2020 03:54

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285350 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-285550/5

Matrix: Water Lab File ID: 011720-600-0033333-005.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2020 09:20

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285550 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-285550/17

Matrix: Water Lab File ID: 011720-600-0033333-017.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2020 11:30

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285550 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-285550/29

Matrix: Water Lab File ID: 011720-600-0033333-029.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2020 13:39

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285550 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-285676/3

Matrix: Water Lab File ID: 600-0033355-003.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/21/2020 13:34

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285676 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-285676/15

Matrix: Water Lab File ID: 600-0033355-015.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/21/2020 18:20

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285676 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-285350/36

Matrix: Water Lab File ID: 600-0033285-036.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/16/2020 23:29

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285350 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	18.75		0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-285550/7

Matrix: Water Lab File ID: 011720-600-0033333-007.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2020 09:42

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285550 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	18.11		0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-285676/5

Matrix: Water Lab File ID: 600-0033355-005.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/21/2020 14:14

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285676 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	20.02		0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW11-01142020 MS Lab Sample ID: 600-199031-7 MS

Matrix: Water Lab File ID: 011720-600-0033333-021.d

Analysis Method: 300.0 Date Collected: 01/14/2020 15:02

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2020 12:13

Con. Extract Vol.: Dilution Factor: 200

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285550 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	4084		100	19.1

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Client Sample ID: ARTESIA-MW11-01142020 MSD Lab Sample ID: 600-199031-7 MSD

Matrix: Water Lab File ID: 011720-600-0033333-022.d

Analysis Method: 300.0 Date Collected: 01/14/2020 15:02

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2020 12:23

Con. Extract Vol.: Dilution Factor: 200

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 285550 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	4388		100	19.1

FORM I 300.0

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC11 Start Date: 12/04/2019 15:15

Analysis Batch Number: 282084 End Date: 12/04/2019 18:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 600-282084/2		12/04/2019 15:15	1		AS-18
IC 600-282084/3		12/04/2019 15:35	1	600-0032604-003.d	AS-18
IC 600-282084/4		12/04/2019 15:55	1	600-0032604-004.d	AS-18
IC 600-282084/5		12/04/2019 16:16	1	600-0032604-005.d	AS-18
IC 600-282084/6		12/04/2019 16:36	1	600-0032604-006.d	AS-18
IC 600-282084/7		12/04/2019 16:57	1	600-0032604-007.d	AS-18
IC 600-282084/8		12/04/2019 17:17	1	600-0032604-008.d	AS-18
IC 600-282084/9		12/04/2019 17:37	1	600-0032604-009.d	AS-18
RINSE 600-282084/10		12/04/2019 17:58	1		AS-18
ICV 600-282084/11		12/04/2019 18:18	1		AS-18
ICB 600-282084/12		12/04/2019 18:38	1		AS-18

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC11 Start Date: 01/16/2020 10:32

Analysis Batch Number: 285350 End Date: 01/17/2020 03:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 600-285350/2		01/16/2020 10:32	1		AS-18
CCB 600-285350/3		01/16/2020 10:53	1		AS-18
ZZZZZ		01/16/2020 11:13	1		AS-18
ZZZZZ		01/16/2020 11:34	1		AS-18
ZZZZZ		01/16/2020 13:17	1		AS-18
ZZZZZ		01/16/2020 13:37	1		AS-18
ZZZZZ		01/16/2020 13:57	1		AS-18
ZZZZZ		01/16/2020 14:18	20		AS-18
ZZZZZ		01/16/2020 14:38	50		AS-18
ZZZZZ		01/16/2020 14:59	100		AS-18
ZZZZZ		01/16/2020 15:19	20		AS-18
ZZZZZ		01/16/2020 15:39	20		AS-18
CCV 600-285350/14		01/16/2020 16:00	1		AS-18
CCB 600-285350/15		01/16/2020 16:20	1		AS-18
ZZZZZ		01/16/2020 16:41	1		AS-18
ZZZZZ		01/16/2020 17:01	5		AS-18
ZZZZZ		01/16/2020 17:21	5		AS-18
ZZZZZ		01/16/2020 17:42	5		AS-18
ZZZZZ		01/16/2020 18:02	5		AS-18
ZZZZZ		01/16/2020 18:23	5		AS-18
ZZZZZ		01/16/2020 18:43	5		AS-18
ZZZZZ		01/16/2020 19:04	20		AS-18
ZZZZZ		01/16/2020 19:24	5		AS-18
ZZZZZ		01/16/2020 19:44	20		AS-18
CCV 600-285350/26		01/16/2020 20:05	1	600-0033285-026 .d	AS-18
CCB 600-285350/27		01/16/2020 20:25	1	600-0033285-027 .d	AS-18
ZZZZZ		01/16/2020 20:46	20		AS-18
ZZZZZ		01/16/2020 21:06	20		AS-18
ZZZZZ		01/16/2020 21:26	20		AS-18
ZZZZZ		01/16/2020 21:47	1		AS-18
ZZZZZ		01/16/2020 22:07	1		AS-18
ZZZZZ		01/16/2020 22:28	20		AS-18
ZZZZZ		01/16/2020 22:48	20		AS-18
MB 600-285350/35		01/16/2020 23:08	1	600-0033285-035 .d	AS-18
LCS 600-285350/36		01/16/2020 23:29	1	600-0033285-036 .d	AS-18
ZZZZZ		01/16/2020 23:49	1		AS-18
CCV 600-285350/38		01/17/2020 00:10	1	600-0033285-038 .d	AS-18
CCB 600-285350/39		01/17/2020 00:30	1	600-0033285-039 .d	AS-18
ZZZZZ		01/17/2020 00:51	20		AS-18
ZZZZZ		01/17/2020 01:11	20		AS-18
ZZZZZ		01/17/2020 01:31	20		AS-18
ZZZZZ		01/17/2020 02:12	1		AS-18

300.0

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC11 Start Date: 01/16/2020 10:32

Analysis Batch Number: 285350 End Date: 01/17/2020 03:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/17/2020 02:33	1		AS-18
600-199031-2		01/17/2020 02:53	100	600-0033285-046.d	AS-18
600-199031-3		01/17/2020 03:13	200	600-0033285-047.d	AS-18
CCV 600-285350/48		01/17/2020 03:34	1	600-0033285-048.d	AS-18
CCB 600-285350/49		01/17/2020 03:54	1	600-0033285-049.d	AS-18

300.0

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC11 Start Date: 01/17/2020 13:22

Analysis Batch Number: 285475 End Date: 01/17/2020 23:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 600-285475/2		01/17/2020 13:22	1		AS-18
IC 600-285475/3		01/17/2020 13:43	1	600-0033309-003.d	AS-18
IC 600-285475/4		01/17/2020 14:03	1	600-0033309-004.d	AS-18
IC 600-285475/5		01/17/2020 14:23	1	600-0033309-005.d	AS-18
IC 600-285475/6		01/17/2020 14:44	1	600-0033309-006.d	AS-18
IC 600-285475/7		01/17/2020 15:04	1	600-0033309-007.d	AS-18
IC 600-285475/8		01/17/2020 15:25	1	600-0033309-008.d	AS-18
IC 600-285475/9		01/17/2020 15:45	1	600-0033309-009.d	AS-18
ICV 600-285475/10		01/17/2020 16:05	1		AS-18
ICB 600-285475/11		01/17/2020 16:26	1		AS-18
RINSE 600-285475/12		01/17/2020 16:46	1		AS-18
CCV 600-285475/13		01/17/2020 17:07	1		AS-18
CCB 600-285475/14		01/17/2020 17:27	1		AS-18
ZZZZZ		01/17/2020 17:48	1		AS-18
ZZZZZ		01/17/2020 18:08	1		AS-18
ZZZZZ		01/17/2020 19:30	250		AS-18
ZZZZZ		01/17/2020 19:50	100		AS-18
ZZZZZ		01/17/2020 20:10	1		AS-18
ZZZZZ		01/17/2020 20:31	1		AS-18
ZZZZZ		01/17/2020 20:51	1		AS-18
CCV 600-285475/25		01/17/2020 21:12	1		AS-18
CCB 600-285475/26		01/17/2020 21:32	1		AS-18
ZZZZZ		01/17/2020 21:52	1		AS-18
ZZZZZ		01/17/2020 22:13	1		AS-18
ZZZZZ		01/17/2020 22:33	1		AS-18
ZZZZZ		01/17/2020 22:54	1		AS-18
ZZZZZ		01/17/2020 23:14	1		AS-18
CCV 600-285475/32		01/17/2020 23:35	1		AS-18
CCB 600-285475/33		01/17/2020 23:55	1		AS-18

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC11 Start Date: 01/21/2020 11:41

Analysis Batch Number: 285676 End Date: 01/22/2020 00:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 600-285676/2		01/21/2020 11:41	1	600-0033355-002.d	AS-18
CCB 600-285676/3		01/21/2020 13:34	1	600-0033355-003.d	AS-18
MB 600-285676/4		01/21/2020 13:54	1	600-0033355-004.d	AS-18
LCS 600-285676/5		01/21/2020 14:14	1	600-0033355-005.d	AS-18
600-199031-4		01/21/2020 15:07	500	600-0033355-006.d	AS-18
ZZZZZ		01/21/2020 15:27	100		AS-18
ZZZZZ		01/21/2020 15:47	20		AS-18
ZZZZZ		01/21/2020 16:08	20		AS-18
ZZZZZ		01/21/2020 16:28	20		AS-18
CCV 600-285676/14		01/21/2020 17:50	1	600-0033355-014.d	AS-18
CCB 600-285676/15		01/21/2020 18:20	1	600-0033355-015.d	AS-18
ZZZZZ		01/21/2020 18:40	1		AS-18
ZZZZZ		01/21/2020 19:01	1		AS-18
ZZZZZ		01/21/2020 19:21	1		AS-18
ZZZZZ		01/21/2020 19:41	1		AS-18
ZZZZZ		01/21/2020 20:02	1		AS-18
ZZZZZ		01/21/2020 20:22	1		AS-18
ZZZZZ		01/21/2020 20:43	1		AS-18
ZZZZZ		01/21/2020 21:03	100		AS-18
ZZZZZ		01/21/2020 21:24	1		AS-18
ZZZZZ		01/21/2020 21:44	1		AS-18
CCV 600-285676/26		01/21/2020 22:04	1		AS-18
CCB 600-285676/27		01/21/2020 22:25	1		AS-18
ZZZZZ		01/21/2020 22:45	1		AS-18
ZZZZZ		01/21/2020 23:06	500		AS-18
ZZZZZ		01/21/2020 23:26	250		AS-18
ZZZZZ		01/21/2020 23:46	50		AS-18
CCV 600-285676/32		01/22/2020 00:07	1		AS-18
CCB 600-285676/33		01/22/2020 00:27	1		AS-18

300.0

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC17(IC) Start Date: 01/16/2020 10:31

Analysis Batch Number: 285459 End Date: 01/16/2020 12:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 600-285459/4		01/16/2020 10:31	1		AS22 2(mm)
IC 600-285459/5		01/16/2020 10:42	1	CAL011620-600-0 033307-005.d	AS22 2(mm)
IC 600-285459/6		01/16/2020 10:53	1	CAL011620-600-0 033307-006.d	AS22 2(mm)
IC 600-285459/7		01/16/2020 11:03	1	CAL011620-600-0 033307-007.d	AS22 2(mm)
IC 600-285459/8		01/16/2020 11:14	1	CAL011620-600-0 033307-008.d	AS22 2(mm)
IC 600-285459/9		01/16/2020 11:25	1	CAL011620-600-0 033307-009.d	AS22 2(mm)
IC 600-285459/10		01/16/2020 11:36	1	CAL011620-600-0 033307-010.d	AS22 2(mm)
IC 600-285459/11		01/16/2020 11:46	1	CAL011620-600-0 033307-011.d	AS22 2(mm)
ICV 600-285459/12		01/16/2020 11:57	1		AS22 2(mm)
ICB 600-285459/13		01/16/2020 12:08	1		AS22 2(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC17(IC) Start Date: 01/17/2020 09:10

Analysis Batch Number: 285550 End Date: 01/17/2020 17:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 600-285550/4		01/17/2020 09:10	1	011720-600-0033 333-004.d	AS22 2(mm)
CCB 600-285550/5		01/17/2020 09:20	1	011720-600-0033 333-005.d	AS22 2(mm)
MB 600-285550/6		01/17/2020 09:31	1	011720-600-0033 333-006.d	AS22 2(mm)
LCS 600-285550/7		01/17/2020 09:42	1	011720-600-0033 333-007.d	AS22 2(mm)
ZZZZZ		01/17/2020 10:36	1		AS22 2(mm)
ZZZZZ		01/17/2020 10:47	1		AS22 2(mm)
ZZZZZ		01/17/2020 10:57	1		AS22 2(mm)
ZZZZZ		01/17/2020 11:08	100		AS22 2(mm)
CCV 600-285550/16		01/17/2020 11:19	1	011720-600-0033 333-016.d	AS22 2(mm)
CCB 600-285550/17		01/17/2020 11:30	1	011720-600-0033 333-017.d	AS22 2(mm)
600-199031-5		01/17/2020 11:40	100	011720-600-0033 333-018.d	AS22 2(mm)
600-199031-6		01/17/2020 11:51	100	011720-600-0033 333-019.d	AS22 2(mm)
600-199031-7		01/17/2020 12:02	200	011720-600-0033 333-020.d	AS22 2(mm)
600-199031-7 MS		01/17/2020 12:13	200	011720-600-0033 333-021.d	AS22 2(mm)
600-199031-7 MSD		01/17/2020 12:23	200	011720-600-0033 333-022.d	AS22 2(mm)
ZZZZZ		01/17/2020 12:34	50		AS22 2(mm)
ZZZZZ		01/17/2020 12:45	100		AS22 2(mm)
ZZZZZ		01/17/2020 12:56	20		AS22 2(mm)
ZZZZZ		01/17/2020 13:06	1		AS22 2(mm)
ZZZZZ		01/17/2020 13:17	5		AS22 2(mm)
CCV 600-285550/28		01/17/2020 13:28	1	011720-600-0033 333-028.d	AS22 2(mm)
CCB 600-285550/29		01/17/2020 13:39	1	011720-600-0033 333-029.d	AS22 2(mm)
ZZZZZ		01/17/2020 13:49	5		AS22 2(mm)
ZZZZZ		01/17/2020 14:00	5		AS22 2(mm)
ZZZZZ		01/17/2020 14:11	5		AS22 2(mm)
ZZZZZ		01/17/2020 14:22	5		AS22 2(mm)
ZZZZZ		01/17/2020 14:33	20		AS22 2(mm)
ZZZZZ		01/17/2020 14:43	5		AS22 2(mm)
ZZZZZ		01/17/2020 14:54	20		AS22 2(mm)
ZZZZZ		01/17/2020 15:05	1		AS22 2(mm)
ZZZZZ		01/17/2020 15:16	1		AS22 2(mm)
ZZZZZ		01/17/2020 15:26	1		AS22 2(mm)
CCV 600-285550/40		01/17/2020 15:37	1		AS22 2(mm)
CCB 600-285550/41		01/17/2020 15:48	1		AS22 2(mm)
ZZZZZ		01/17/2020 15:59	1		AS22 2(mm)
ZZZZZ		01/17/2020 16:10	5		AS22 2(mm)
ZZZZZ		01/17/2020 16:20	5		AS22 2(mm)
ZZZZZ		01/17/2020 16:31	5		AS22 2(mm)
ZZZZZ		01/17/2020 16:42	1		AS22 2(mm)

300.0

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Instrument ID: CHWC17(IC) Start Date: 01/17/2020 09:10

Analysis Batch Number: 285550 End Date: 01/17/2020 17:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/17/2020 16:53	1		AS22 2(mm)
CCV 600-285550/48		01/17/2020 17:04	1		AS22 2(mm)
CCB 600-285550/49		01/17/2020 17:14	1		AS22 2(mm)

300.0

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Batch Number: 285350 Batch Start Date: 01/16/20 10:32 Batch Analyst: Reach, Shrey K

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CCV 00119	ICV/LCS 00110		
CCV 600-285350/26		300.0		5 mL	1.0 mL	5 mL			
CCB 600-285350/27		300.0		5 mL	1.0 mL				
MB 600-285350/35		300.0		5 mL	1.0 mL				
LCS 600-285350/36		300.0		5 mL	1.0 mL		5 mL		
CCV 600-285350/38		300.0		5 mL	1.0 mL	5 mL			
CCB 600-285350/39		300.0		5 mL	1.0 mL				
600-199031-D-2	ARTESIA-MW17C-01 142020	300.0	T	5 mL	1.0 mL				
600-199031-D-3	ARTESIA-MW36-011 42020	300.0	T	5 mL	1.0 mL				
CCV 600-285350/48		300.0		5 mL	1.0 mL	5 mL			
CCB 600-285350/49		300.0		5 mL	1.0 mL				

Batch Notes	
Eluent 1 ID	190951941012
Filter ID	16938475

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Batch Number: 285550 Batch Start Date: 01/17/20 09:10 Batch Analyst: Reach, Shrey K

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	CCV 00119	ICSMS 00124	ICSMS 00125	ICV/LCS 00110	
CCV 600-285550/4		300.0		5 mL	5 mL				
CCB 600-285550/5		300.0		5 mL					
MB 600-285550/6		300.0		5 mL					
LCS 600-285550/7		300.0		5 mL				5 mL	
CCV 600-285550/16		300.0		5 mL	5 mL				
CCB 600-285550/17		300.0		5 mL					
600-199031-D-5	ARTESIA-MW38-011 42020	300.0	T	5 mL					
600-199031-D-6	ARTESIA-MW37-011 42020	300.0	T	5 mL					
600-199031-D-7	ARTESIA-MW11-011 42020	300.0	T	5 mL					
600-199031-D-7 MS	ARTESIA-MW11-011 42020	300.0	T	5 mL		0.25 mL	0.25 mL		
600-199031-D-7 MSD	ARTESIA-MW11-011 42020	300.0	T	5 mL		0.25 mL	0.25 mL		
CCV 600-285550/28		300.0		5 mL	5 mL				
CCB 600-285550/29		300.0		5 mL					

Batch Notes	
Eluent 1 ID	190808
Filter ID	16938475

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-199031-1

SDG No.:

Batch Number: 285676 Batch Start Date: 01/21/20 11:41 Batch Analyst: Reach, Shrey K

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	CCV 00119	ICV/LCS 00110			
CCV 600-285676/2		300.0		5 mL	5 mL				
CCB 600-285676/3		300.0		5 mL					
MB 600-285676/4		300.0		5 mL					
LCS 600-285676/5		300.0		5 mL		5 mL			
600-199031-D-4	ARTESIA-MW12-011 42020	300.0	T	5 mL					
CCV 600-285676/14		300.0		5 mL	5 mL				
CCB 600-285676/15		300.0		5 mL					

Batch Notes	
Eluent 1 ID	190951941012
Filter ID	16988990

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Released to Imaging: 6/9/2021 9:44:58 AM

Page 311 of 1122

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: A Forsberg	Lab PM: McDaniel, Bethany A	Carrier Tracking No(s): Fed Ex 4840 2908 7678	COC No: 600-73466-20100.2
Client Contact: John Ynfante	Phone: 505 918 1800	E-Mail: bethany.mcdaniel@testamericainc.com		Page: Page 1 of 1
Company: Jacobs Engineering Group, Inc.				Job #:
Address: 14701 St. Mary's Lane Suite 300	Due Date Requested:			
City: Houston	TAT Requested (days): See MSA			
State, Zip: TX, 77079				
Phone:	PO #: D3151100 C.CS.TPE.AR.20-04-02			
Email: John.Ynfante@jacobs.com	WO #: D3151100 C.CS.TPE.AR.20-04-02			
Project Name: Dowell - Artesia Groundwater	Project #: 60004334			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL - 8260B - Volatiles Custom List	300_ORGFM_28D - 300.0 - Anions, IC (Sulfate)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
ARTESIA-TB01-01142020	1/14/20	1100	G	Water	N	N	X			TRIP BLANK
ARTESIA-MW17C-01142020	1/14/20	1150	G	Water	N	N	X	X		
Artesia-MW36-01142020	1/14/20	1235	G	Water	N	N	X	X		
ARTESIA-MW12-01142020	1/14/20	1240	G	Water	N	N	X	X		
Artesia-MW38-01142020	1/14/20	1340	G	Water	N	N	X	X		
ARTESIA-MW37-01142020	1/14/20	1350	G	Water	N	N	X	X		
ARTESIA-MW11-01142020	1/14/20	1502	G	Water	N	N	X	X		

600-199031 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/14/20 1630	JACOBS	Fed Ex 4840 2908 7678		
2						
3					1/15/20 1036	

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Page 199 of 201

Received by OCD: 4/1/2021 10:42:57 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Loc: 600
199031

eurofins | Environment Testing TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

Date/Time Received: 1/15/20 10:36

JOB NUMBER: 600-199031

CLIENT: JACOBS '20 JAN 15 10:36

UNPACKED BY: _____

CARRIER/DRIVER: FEDEX

Custody Seal Present: ☑YES ☐NO

Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
7678	(Y) / N	Y / N	0.4	IR6 18	+0.4	0.8
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☑YES ☐NO ☐NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☐ YES	☐ NO

COMMENTS:

TRIP BLANK

Date: 1-8-2020

Initials: DM

Parameter: VOC Contains Purge Water

TAL-8021 (1208)

HS-SA-WI-013 Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: Jacobs Engineering Group, Inc. Job Number: 600-199031-1

Login Number: 199031 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: McDaniel, Bethany A

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

eurofins | Environment Testing America

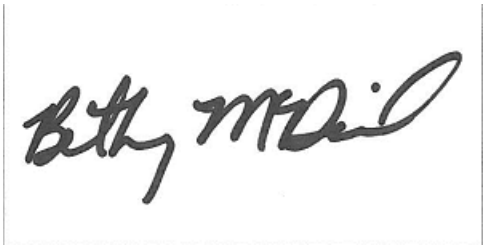
ANALYTICAL REPORT

Job Number: 600-204441-1

Job Description: Dowell - Artesia

For:
Jacobs Engineering Group, Inc.
3721 Rutledge Rd NE
Suite B-1
Albuquerque, NM 87109

Attention: Aleeca Forsberg



Approved for release.
Bethany A McDaniel
Senior Project Manager
5/20/2020 2:26 PM

Bethany A McDaniel, Senior Project Manager
6310 Rothway Street, Houston, TX, 77040
(713)358-2005
bethany.mcdaniel@testamericainc.com
05/20/2020

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins TestAmerica, Houston
6310 Rothway Street, Houston, TX 77040
Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com

Table of Contents

Cover Title Page 1
Data Summaries 4
Definitions 4
Case Narrative 5
Detection Summary 6
Client Sample Results 9
Default Detection Limits 17
Surrogate Summary 18
QC Sample Results 19
QC Association 23
Chronicle 24
Certification Summary 28
Method Summary 29
Sample Summary 30
Manual Integration Summary 31
Reagent Traceability 47
Organic Sample Data 61
GC/MS VOA 61
Method 8260B Low Level 61
Method 8260B Low Level QC Summary 62
Method 8260B Low Level Sample Data 85
Standards Data 106
Method 8260B Low Level ICAL Data 106
Method 8260B Low Level CCAL Data 130
Raw QC Data 145
Method 8260B Low Level Blank Data 145

Table of Contents

Method 8260B Low Level LCS/LCSD Data 148
Method 8260B Low Level MS/MSD Data 154
Method 8260B Low Level Run Logs 156
Method 8260B Low Level Prep Data 161
HPLC/IC 169
Method 300.0 169
Method 300.0 QC Summary 170
Method 300.0 Sample Data 172
Standards Data 177
Method 300.0 ICAL Data 177
Method 300.0 CCAL Data 180
Raw QC Data 188
Method 300.0 Blank Data 188
Method 300.0 LCS/LCSD Data 193
Method 300.0 Run Logs 194
Method 300.0 Prep Data 196
Shipping and Receiving Documents 197
Client Chain of Custody 198
Sample Receipt Checklist 201

Definitions/Glossary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Job Narrative
600-204441-1

Comments
No additional comments.

Receipt
The samples were received on 4/29/2020 12:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA
Method 8260B: The method blank for analytical batch 600-293693 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: Artesia-MW38-04272020 (600-204441-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Client Sample ID: Artesia-MW38-04272020 — Lab Sample ID: 600-204441-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00740		0.00100	0.000192	mg/L	1		8260B	Total/NA
Benzene	0.00112		0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.00530	B	0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00673		0.00100	0.000333	mg/L	1		8260B	Total/NA
1,1-Dichloroethane - DL	0.120		0.00500	0.000840	mg/L	5		8260B	Total/NA
Sulfate	2710		100	19.1	mg/L	200		300.0	Total/NA

Client Sample ID: Artesia-TB0-04272020 — Lab Sample ID: 600-204441-2

No Detections.

Client Sample ID: Artesia-MW12-04272020 — Lab Sample ID: 600-204441-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.0319		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.00135		0.00100	0.000192	mg/L	1		8260B	Total/NA
Benzene	0.00528		0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.00776	B	0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.000529	J	0.00100	0.000333	mg/L	1		8260B	Total/NA
Sulfate	2660		100	19.1	mg/L	200		300.0	Total/NA

Client Sample ID: Artesia-MW36-04272020 — Lab Sample ID: 600-204441-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.0408		0.00100	0.000168	mg/L	1		8260B	Total/NA
Benzene	0.0198		0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.00991		0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00807		0.00100	0.000333	mg/L	1		8260B	Total/NA
Sulfate	4270		100	19.1	mg/L	200		300.0	Total/NA

Client Sample ID: Artesia-MW37-04272020 — Lab Sample ID: 600-204441-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.0347		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.00207		0.00100	0.000192	mg/L	1		8260B	Total/NA
Benzene	0.00258		0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.00830		0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00236		0.00100	0.000333	mg/L	1		8260B	Total/NA
Sulfate	5960		100	19.1	mg/L	200		300.0	Total/NA

Client Sample ID: Artesia-MD37-04272020 — Lab Sample ID: 600-204441-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.0497		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.00474		0.00100	0.000192	mg/L	1		8260B	Total/NA
Benzene	0.00442		0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.0128		0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00257		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: Artesia-MW22-04272020 — Lab Sample ID: 600-204441-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00167		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.000437	J	0.00100	0.000192	mg/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Client Sample ID: Artesia-MW25-04272020 — Lab Sample ID: 600-204441-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00171		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.00167		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00119		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: Artesia-MW32-04272020 — Lab Sample ID: 600-204441-9

No Detections.

Client Sample ID: Artesia-Outlet-04282020 — Lab Sample ID: 600-204441-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00202		0.00100	0.000168	mg/L	1		8260B	Total/NA

Client Sample ID: Artesia-MID-04282020 — Lab Sample ID: 600-204441-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00348		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.00865		0.00100	0.000192	mg/L	1		8260B	Total/NA

Client Sample ID: Artesia-Inlet-04282020 — Lab Sample ID: 600-204441-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00279		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.00917		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00660		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: Artesia-MW28-04282020 — Lab Sample ID: 600-204441-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00438		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.0101		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00808		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: Artesia-MW34-04282020 — Lab Sample ID: 600-204441-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00170		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.000914	J	0.00100	0.000192	mg/L	1		8260B	Total/NA
Naphthalene	0.00109	J	0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.000560	J	0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: Artesia-MW31-04282020 — Lab Sample ID: 600-204441-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00168		0.00100	0.000168	mg/L	1		8260B	Total/NA

Client Sample ID: Artesia-MW11-04282020 — Lab Sample ID: 600-204441-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00645		0.00100	0.000168	mg/L	1		8260B	Total/NA
Sulfate	7940		100	19.1	mg/L	200		300.0	Total/NA

Client Sample ID: Artesia-MW35-04282020 — Lab Sample ID: 600-204441-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.0158		0.00100	0.000192	mg/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Client Sample ID: Artesia-MW35-04282020 (Continued) — Lab Sample ID: 600-204441-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.0116		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: Artesia-MW29-04282020 — Lab Sample ID: 600-204441-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.0111		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.0252		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.0205		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: Artesia-MW30-04282020 — Lab Sample ID: 600-204441-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00100		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.00266		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00280		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: Artesia-MD30-04282020 — Lab Sample ID: 600-204441-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00103		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.00281		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00283		0.00100	0.000333	mg/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Client Sample ID: Artesia-MW38-04272020

Lab Sample ID: 600-204441-1
Date Collected: 04/27/20 12:30
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00740		0.00100	0.000192	mg/L			05/01/20 20:59	1
Benzene	0.00112		0.00100	0.000176	mg/L			05/01/20 20:59	1
Naphthalene	0.00530	B	0.00200	0.000129	mg/L			05/01/20 20:59	1
Tetrachloroethene	0.00673		0.00100	0.000333	mg/L			05/01/20 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*50 - 134*		*05/01/20 20:59*	*1*
4-Bromofluorobenzene	*92*		*67 - 139*		*05/01/20 20:59*	*1*
Dibromofluoromethane	*119*		*62 - 130*		*05/01/20 20:59*	*1*
Toluene-d8 (Surr)	*84*		*70 - 130*		*05/01/20 20:59*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.120		0.00500	0.000840	mg/L			05/05/20 21:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*50 - 134*		*05/05/20 21:12*	*5*
4-Bromofluorobenzene	*113*		*67 - 139*		*05/05/20 21:12*	*5*
Dibromofluoromethane	*98*		*62 - 130*		*05/05/20 21:12*	*5*
Toluene-d8 (Surr)	*94*		*70 - 130*		*05/05/20 21:12*	*5*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2710		100	19.1	mg/L			05/18/20 19:02	200

Client Sample ID: Artesia-TB0-04272020

Lab Sample ID: 600-204441-2
Date Collected: 04/27/20 12:00
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			05/06/20 12:56	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			05/06/20 12:56	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 12:56	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/06/20 12:56	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			05/06/20 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*50 - 134*		*05/06/20 12:56*	*1*
4-Bromofluorobenzene	*116*		*67 - 139*		*05/06/20 12:56*	*1*
Dibromofluoromethane	*98*		*62 - 130*		*05/06/20 12:56*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*05/06/20 12:56*	*1*

Client Sample ID: Artesia-MW12-04272020

Lab Sample ID: 600-204441-3
Date Collected: 04/27/20 13:41
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.0319		0.00100	0.000168	mg/L			05/01/20 21:27	1
1,1-Dichloroethene	0.00135		0.00100	0.000192	mg/L			05/01/20 21:27	1
Benzene	0.00528		0.00100	0.000176	mg/L			05/01/20 21:27	1

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Client Sample ID: Artesia-MW12-04272020
Lab Sample ID: 600-204441-3
Date Collected: 04/27/20 13:41
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.00776**	**B**	0.00200	0.000129	mg/L			05/01/20 21:27	1
Tetrachloroethene	**0.000529**	**J**	0.00100	0.000333	mg/L			05/01/20 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*50 - 134*		*05/01/20 21:27*	*1*
4-Bromofluorobenzene	*94*		*67 - 139*		*05/01/20 21:27*	*1*
Dibromofluoromethane	*118*		*62 - 130*		*05/01/20 21:27*	*1*
Toluene-d8 (Surr)	*82*		*70 - 130*		*05/01/20 21:27*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2660**		100	19.1	mg/L			05/18/20 19:22	200

Client Sample ID: Artesia-MW36-04272020
Lab Sample ID: 600-204441-4
Date Collected: 04/27/20 14:44
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.0408**		0.00100	0.000168	mg/L			05/05/20 22:04	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			05/05/20 22:04	1
Benzene	**0.0198**		0.00100	0.000176	mg/L			05/05/20 22:04	1
Naphthalene	**0.00991**		0.00200	0.000129	mg/L			05/05/20 22:04	1
Tetrachloroethene	**0.00807**		0.00100	0.000333	mg/L			05/05/20 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*50 - 134*		*05/05/20 22:04*	*1*
4-Bromofluorobenzene	*110*		*67 - 139*		*05/05/20 22:04*	*1*
Dibromofluoromethane	*101*		*62 - 130*		*05/05/20 22:04*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*05/05/20 22:04*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**4270**		100	19.1	mg/L			05/18/20 19:43	200

Client Sample ID: Artesia-MW37-04272020
Lab Sample ID: 600-204441-5
Date Collected: 04/27/20 16:35
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.0347**		0.00100	0.000168	mg/L			05/05/20 21:38	1
1,1-Dichloroethene	**0.00207**		0.00100	0.000192	mg/L			05/05/20 21:38	1
Benzene	**0.00258**		0.00100	0.000176	mg/L			05/05/20 21:38	1
Naphthalene	**0.00830**		0.00200	0.000129	mg/L			05/05/20 21:38	1
Tetrachloroethene	**0.00236**		0.00100	0.000333	mg/L			05/05/20 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*50 - 134*		*05/05/20 21:38*	*1*
4-Bromofluorobenzene	*114*		*67 - 139*		*05/05/20 21:38*	*1*
Dibromofluoromethane	*99*		*62 - 130*		*05/05/20 21:38*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*05/05/20 21:38*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Client Sample ID: Artesia-MW37-04272020
Lab Sample ID: 600-204441-5
Date Collected: 04/27/20 16:35
Matrix: Water
Date Received: 04/29/20 12:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**5960**		100	19.1	mg/L			05/18/20 20:03	200

Client Sample ID: Artesia-MD37-04272020
Lab Sample ID: 600-204441-6
Date Collected: 04/27/20 16:35
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.0497**		0.00100	0.000168	mg/L			05/06/20 14:14	1
1,1-Dichloroethene	**0.00474**		0.00100	0.000192	mg/L			05/06/20 14:14	1
Benzene	**0.00442**		0.00100	0.000176	mg/L			05/06/20 14:14	1
Naphthalene	**0.0128**		0.00200	0.000129	mg/L			05/06/20 14:14	1
Tetrachloroethene	**0.00257**		0.00100	0.000333	mg/L			05/06/20 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*50 - 134*		*05/06/20 14:14*	*1*
4-Bromofluorobenzene	*113*		*67 - 139*		*05/06/20 14:14*	*1*
Dibromofluoromethane	*99*		*62 - 130*		*05/06/20 14:14*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*05/06/20 14:14*	*1*

Client Sample ID: Artesia-MW22-04272020
Lab Sample ID: 600-204441-7
Date Collected: 04/27/20 16:10
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00167**		0.00100	0.000168	mg/L			05/06/20 15:05	1
1,1-Dichloroethene	**0.000437**	**J**	0.00100	0.000192	mg/L			05/06/20 15:05	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 15:05	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/06/20 15:05	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			05/06/20 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*50 - 134*		*05/06/20 15:05*	*1*
4-Bromofluorobenzene	*116*		*67 - 139*		*05/06/20 15:05*	*1*
Dibromofluoromethane	*97*		*62 - 130*		*05/06/20 15:05*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*05/06/20 15:05*	*1*

Client Sample ID: Artesia-MW25-04272020
Lab Sample ID: 600-204441-8
Date Collected: 04/27/20 15:55
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00171**		0.00100	0.000168	mg/L			05/06/20 15:31	1
1,1-Dichloroethene	**0.00167**		0.00100	0.000192	mg/L			05/06/20 15:31	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 15:31	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/06/20 15:31	1
Tetrachloroethene	**0.00119**		0.00100	0.000333	mg/L			05/06/20 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*50 - 134*		*05/06/20 15:31*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Client Sample ID: Artesia-MW25-04272020
Lab Sample ID: 600-204441-8
Date Collected: 04/27/20 15:55
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*67 - 139*		*05/06/20 15:31*	*1*
Dibromofluoromethane	*98*		*62 - 130*		*05/06/20 15:31*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*05/06/20 15:31*	*1*

Client Sample ID: Artesia-MW32-04272020
Lab Sample ID: 600-204441-9
Date Collected: 04/27/20 16:25
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			05/06/20 15:57	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			05/06/20 15:57	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 15:57	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/06/20 15:57	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			05/06/20 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*50 - 134*		*05/06/20 15:57*	*1*
4-Bromofluorobenzene	*116*		*67 - 139*		*05/06/20 15:57*	*1*
Dibromofluoromethane	*98*		*62 - 130*		*05/06/20 15:57*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*05/06/20 15:57*	*1*

Client Sample ID: Artesia-Outlet-04282020
Lab Sample ID: 600-204441-10
Date Collected: 04/28/20 09:00
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00202**		0.00100	0.000168	mg/L			05/06/20 16:23	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			05/06/20 16:23	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 16:23	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/06/20 16:23	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			05/06/20 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*50 - 134*		*05/06/20 16:23*	*1*
4-Bromofluorobenzene	*116*		*67 - 139*		*05/06/20 16:23*	*1*
Dibromofluoromethane	*98*		*62 - 130*		*05/06/20 16:23*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*05/06/20 16:23*	*1*

Client Sample ID: Artesia-MID-04282020
Lab Sample ID: 600-204441-11
Date Collected: 04/28/20 09:05
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00348**		0.00100	0.000168	mg/L			05/06/20 16:48	1
1,1-Dichloroethene	**0.00865**		0.00100	0.000192	mg/L			05/06/20 16:48	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 16:48	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/06/20 16:48	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			05/06/20 16:48	1

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Client Sample ID: Artesia-MID-04282020
Lab Sample ID: 600-204441-11
Date Collected: 04/28/20 09:05
Matrix: Water
Date Received: 04/29/20 12:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		50 - 134		05/06/20 16:48	1
4-Bromofluorobenzene	121		67 - 139		05/06/20 16:48	1
Dibromofluoromethane	99		62 - 130		05/06/20 16:48	1
Toluene-d8 (Surr)	92		70 - 130		05/06/20 16:48	1

Client Sample ID: Artesia-Inlet-04282020
Lab Sample ID: 600-204441-12
Date Collected: 04/28/20 09:10
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00279**		0.00100	0.000168	mg/L			05/06/20 18:31	1
1,1-Dichloroethene	**0.00917**		0.00100	0.000192	mg/L			05/06/20 18:31	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 18:31	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/06/20 18:31	1
Tetrachloroethene	**0.00660**		0.00100	0.000333	mg/L			05/06/20 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		50 - 134		05/06/20 18:31	1
4-Bromofluorobenzene	119		67 - 139		05/06/20 18:31	1
Dibromofluoromethane	100		62 - 130		05/06/20 18:31	1
Toluene-d8 (Surr)	93		70 - 130		05/06/20 18:31	1

Client Sample ID: Artesia-MW28-04282020
Lab Sample ID: 600-204441-13
Date Collected: 04/28/20 09:40
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00438**		0.00100	0.000168	mg/L			05/06/20 18:57	1
1,1-Dichloroethene	**0.0101**		0.00100	0.000192	mg/L			05/06/20 18:57	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 18:57	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/06/20 18:57	1
Tetrachloroethene	**0.00808**		0.00100	0.000333	mg/L			05/06/20 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		50 - 134		05/06/20 18:57	1
4-Bromofluorobenzene	115		67 - 139		05/06/20 18:57	1
Dibromofluoromethane	98		62 - 130		05/06/20 18:57	1
Toluene-d8 (Surr)	93		70 - 130		05/06/20 18:57	1

Client Sample ID: Artesia-MW34-04282020
Lab Sample ID: 600-204441-14
Date Collected: 04/28/20 10:15
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00170**		0.00100	0.000168	mg/L			05/06/20 14:39	1
1,1-Dichloroethene	**0.000914**	**J**	0.00100	0.000192	mg/L			05/06/20 14:39	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 14:39	1
Naphthalene	**0.00109**	**J**	0.00200	0.000129	mg/L			05/06/20 14:39	1
Tetrachloroethene	**0.000560**	**J**	0.00100	0.000333	mg/L			05/06/20 14:39	1

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Client Sample ID: Artesia-MW34-04282020
Lab Sample ID: 600-204441-14
Date Collected: 04/28/20 10:15
Matrix: Water
Date Received: 04/29/20 12:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		50 - 134		05/06/20 14:39	1
4-Bromofluorobenzene	114		67 - 139		05/06/20 14:39	1
Dibromofluoromethane	97		62 - 130		05/06/20 14:39	1
Toluene-d8 (Surr)	90		70 - 130		05/06/20 14:39	1

Client Sample ID: Artesia-MW31-04282020
Lab Sample ID: 600-204441-15
Date Collected: 04/28/20 10:45
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00168**		0.00100	0.000168	mg/L			05/06/20 19:23	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			05/06/20 19:23	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 19:23	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/06/20 19:23	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			05/06/20 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		50 - 134		05/06/20 19:23	1
4-Bromofluorobenzene	123		67 - 139		05/06/20 19:23	1
Dibromofluoromethane	97		62 - 130		05/06/20 19:23	1
Toluene-d8 (Surr)	93		70 - 130		05/06/20 19:23	1

Client Sample ID: Artesia-MW11-04282020
Lab Sample ID: 600-204441-16
Date Collected: 04/28/20 10:18
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00645**		0.00100	0.000168	mg/L			05/06/20 19:49	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			05/06/20 19:49	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 19:49	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/06/20 19:49	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			05/06/20 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		50 - 134		05/06/20 19:49	1
4-Bromofluorobenzene	119		67 - 139		05/06/20 19:49	1
Dibromofluoromethane	99		62 - 130		05/06/20 19:49	1
Toluene-d8 (Surr)	89		70 - 130		05/06/20 19:49	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**7940**		100	19.1	mg/L			05/18/20 20:23	200

Client Sample ID: Artesia-MW35-04282020
Lab Sample ID: 600-204441-17
Date Collected: 04/28/20 11:10
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.0158**		0.00100	0.000192	mg/L			05/06/20 20:14	1

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Client Sample ID: Artesia-MW35-04282020
Lab Sample ID: 600-204441-17
Date Collected: 04/28/20 11:10
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**0.0116**		0.00100	0.000333	mg/L			05/06/20 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*50 - 134*		*05/06/20 20:14*	*1*
4-Bromofluorobenzene	*118*		*67 - 139*		*05/06/20 20:14*	*1*
Dibromofluoromethane	*98*		*62 - 130*		*05/06/20 20:14*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*05/06/20 20:14*	*1*

Client Sample ID: Artesia-MW29-04282020
Lab Sample ID: 600-204441-18
Date Collected: 04/28/20 11:19
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.0111**		0.00100	0.000168	mg/L			05/06/20 20:40	1
1,1-Dichloroethene	**0.0252**		0.00100	0.000192	mg/L			05/06/20 20:40	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 20:40	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/06/20 20:40	1
Tetrachloroethene	**0.0205**		0.00100	0.000333	mg/L			05/06/20 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*50 - 134*		*05/06/20 20:40*	*1*
4-Bromofluorobenzene	*118*		*67 - 139*		*05/06/20 20:40*	*1*
Dibromofluoromethane	*98*		*62 - 130*		*05/06/20 20:40*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*05/06/20 20:40*	*1*

Client Sample ID: Artesia-MW30-04282020
Lab Sample ID: 600-204441-19
Date Collected: 04/28/20 11:40
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00100**		0.00100	0.000168	mg/L			05/06/20 21:05	1
1,1-Dichloroethene	**0.00266**		0.00100	0.000192	mg/L			05/06/20 21:05	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 21:05	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/06/20 21:05	1
Tetrachloroethene	**0.00280**		0.00100	0.000333	mg/L			05/06/20 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*50 - 134*		*05/06/20 21:05*	*1*
4-Bromofluorobenzene	*120*		*67 - 139*		*05/06/20 21:05*	*1*
Dibromofluoromethane	*98*		*62 - 130*		*05/06/20 21:05*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*05/06/20 21:05*	*1*

Client Sample ID: Artesia-MD30-04282020
Lab Sample ID: 600-204441-20
Date Collected: 04/28/20 11:45
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00103**		0.00100	0.000168	mg/L			05/06/20 21:31	1
1,1-Dichloroethene	**0.00281**		0.00100	0.000192	mg/L			05/06/20 21:31	1

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Client Sample ID: Artesia-MD30-04282020

Date Collected: 04/28/20 11:45
Date Received: 04/29/20 12:10

Lab Sample ID: 600-204441-20

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 21:31	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/06/20 21:31	1
Tetrachloroethene	**0.00283**		0.00100	0.000333	mg/L			05/06/20 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*50 - 134*		*05/06/20 21:31*	*1*
4-Bromofluorobenzene	*118*		*67 - 139*		*05/06/20 21:31*	*1*
Dibromofluoromethane	*96*		*62 - 130*		*05/06/20 21:31*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*05/06/20 21:31*	*1*

Default Detection Limits

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units
1,1-Dichloroethane	0.00100	0.000168	mg/L
1,1-Dichloroethene	0.00100	0.000192	mg/L
Benzene	0.00100	0.000176	mg/L
Naphthalene	0.00200	0.000129	mg/L
Tetrachloroethene	0.00100	0.000333	mg/L

Method: 300.0 - Anions, Ion Chromatography

Analyte	RL	MDL	Units
Sulfate	0.500	0.0957	mg/L

Surrogate Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(50-134)	(67-139)	(62-130)	(70-130)
600-204441-1	Artesia-MW38-04272020	93	92	119	84
600-204441-1 - DL	Artesia-MW38-04272020	90	113	98	94
600-204441-2	Artesia-TB0-04272020	85	116	98	96
600-204441-3	Artesia-MW12-04272020	97	94	118	82
600-204441-4	Artesia-MW36-04272020	82	110	101	94
600-204441-5	Artesia-MW37-04272020	90	114	99	93
600-204441-6	Artesia-MD37-04272020	87	113	99	90
600-204441-7	Artesia-MW22-04272020	89	116	97	88
600-204441-8	Artesia-MW25-04272020	89	114	98	94
600-204441-9	Artesia-MW32-04272020	89	116	98	93
600-204441-10	Artesia-Outlet-04282020	87	116	98	91
600-204441-11	Artesia-MID-04282020	89	121	99	92
600-204441-12	Artesia-Inlet-04282020	90	119	100	93
600-204441-13	Artesia-MW28-04282020	88	115	98	93
600-204441-14	Artesia-MW34-04282020	87	114	97	90
600-204441-14 MS	Artesia-MW34-04282020	82	119	101	90
600-204441-14 MSD	Artesia-MW34-04282020	81	119	101	94
600-204441-15	Artesia-MW31-04282020	88	123	97	93
600-204441-16	Artesia-MW11-04282020	88	119	99	89
600-204441-17	Artesia-MW35-04282020	89	118	98	94
600-204441-18	Artesia-MW29-04282020	88	118	98	92
600-204441-19	Artesia-MW30-04282020	86	120	98	93
600-204441-20	Artesia-MD30-04282020	85	118	96	90
LCS 600-293693/4	Lab Control Sample	103	100	115	83
LCS 600-293862/3	Lab Control Sample	81	116	97	101
LCS 600-293940/3	Lab Control Sample	89	120	100	98
LCSD 600-293693/5	Lab Control Sample Dup	93	97	104	88
LCSD 600-293862/4	Lab Control Sample Dup	92	117	99	100
LCSD 600-293940/4	Lab Control Sample Dup	89	120	100	93
MB 600-293693/7	Method Blank	94	91	108	84
MB 600-293862/6	Method Blank	87	113	97	92
MB 600-293940/6	Method Blank	84	115	97	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-293693/7
Matrix: Water
Analysis Batch: 293693

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			05/01/20 16:46	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			05/01/20 16:46	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/01/20 16:46	1
Naphthalene	0.0005186	J	0.00200	0.000129	mg/L			05/01/20 16:46	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			05/01/20 16:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*50 - 134*		*05/01/20 16:46*	*1*
4-Bromofluorobenzene	*91*		*67 - 139*		*05/01/20 16:46*	*1*
Dibromofluoromethane	*108*		*62 - 130*		*05/01/20 16:46*	*1*
Toluene-d8 (Surr)	*84*		*70 - 130*		*05/01/20 16:46*	*1*

Lab Sample ID: LCS 600-293693/4
Matrix: Water
Analysis Batch: 293693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.0100	0.007846		mg/L		78	70 - 140
1,1-Dichloroethene	0.0100	0.008366		mg/L		84	58 - 148
Benzene	0.0100	0.01078		mg/L		108	70 - 130
Naphthalene	0.0100	0.01117		mg/L		112	10 - 150
Tetrachloroethene	0.0100	0.01064		mg/L		106	47 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*50 - 134*
4-Bromofluorobenzene	*100*		*67 - 139*
Dibromofluoromethane	*115*		*62 - 130*
Toluene-d8 (Surr)	*83*		*70 - 130*

Lab Sample ID: LCSD 600-293693/5
Matrix: Water
Analysis Batch: 293693

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	0.0100	0.008371		mg/L		84	70 - 140	6	20
1,1-Dichloroethene	0.0100	0.009691		mg/L		97	58 - 148	15	20
Benzene	0.0100	0.01085		mg/L		108	70 - 130	1	20
Naphthalene	0.0100	0.01060		mg/L		106	10 - 150	5	20
Tetrachloroethene	0.0100	0.01094		mg/L		109	47 - 150	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*50 - 134*
4-Bromofluorobenzene	*97*		*67 - 139*
Dibromofluoromethane	*104*		*62 - 130*
Toluene-d8 (Surr)	*88*		*70 - 130*

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-293862/6
Matrix: Water
Analysis Batch: 293862

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			05/05/20 12:42	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			05/05/20 12:42	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/05/20 12:42	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/05/20 12:42	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			05/05/20 12:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*50 - 134*		*05/05/20 12:42*	*1*
4-Bromofluorobenzene	*113*		*67 - 139*		*05/05/20 12:42*	*1*
Dibromofluoromethane	*97*		*62 - 130*		*05/05/20 12:42*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*05/05/20 12:42*	*1*

Lab Sample ID: LCS 600-293862/3
Matrix: Water
Analysis Batch: 293862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethane			0.0100	0.009537		mg/L		95	70 - 140		
1,1-Dichloroethene			0.0100	0.008578		mg/L		86	58 - 148		
Benzene			0.0100	0.009424		mg/L		94	70 - 130		
Naphthalene			0.0100	0.008659		mg/L		87	10 - 150		
Tetrachloroethene			0.0100	0.007735		mg/L		77	47 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*81*		*50 - 134*
4-Bromofluorobenzene	*116*		*67 - 139*
Dibromofluoromethane	*97*		*62 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 600-293862/4
Matrix: Water
Analysis Batch: 293862

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0100	0.009527		mg/L		95	70 - 140	0	20
1,1-Dichloroethene			0.0100	0.008647		mg/L		86	58 - 148	1	20
Benzene			0.0100	0.009294		mg/L		93	70 - 130	1	20
Naphthalene			0.0100	0.009648		mg/L		96	10 - 150	11	20
Tetrachloroethene			0.0100	0.007648		mg/L		76	47 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*50 - 134*
4-Bromofluorobenzene	*117*		*67 - 139*
Dibromofluoromethane	*99*		*62 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-293940/6
Matrix: Water
Analysis Batch: 293940

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			05/06/20 12:31	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			05/06/20 12:31	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/06/20 12:31	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/06/20 12:31	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			05/06/20 12:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*50 - 134*		*05/06/20 12:31*	*1*
4-Bromofluorobenzene	*115*		*67 - 139*		*05/06/20 12:31*	*1*
Dibromofluoromethane	*97*		*62 - 130*		*05/06/20 12:31*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*05/06/20 12:31*	*1*

Lab Sample ID: LCS 600-293940/3
Matrix: Water
Analysis Batch: 293940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethane			0.0100	0.009781		mg/L		98	70 - 140		
1,1-Dichloroethene			0.0100	0.008881		mg/L		89	58 - 148		
Benzene			0.0100	0.009415		mg/L		94	70 - 130		
Naphthalene			0.0100	0.007759		mg/L		78	10 - 150		
Tetrachloroethene			0.0100	0.007386		mg/L		74	47 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*50 - 134*
4-Bromofluorobenzene	*120*		*67 - 139*
Dibromofluoromethane	*100*		*62 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 600-293940/4
Matrix: Water
Analysis Batch: 293940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0100	0.009576		mg/L		96	70 - 140	2	20
1,1-Dichloroethene			0.0100	0.008740		mg/L		87	58 - 148	2	20
Benzene			0.0100	0.009291		mg/L		93	70 - 130	1	20
Naphthalene			0.0100	0.008367		mg/L		84	10 - 150	8	20
Tetrachloroethene			0.0100	0.007244		mg/L		72	47 - 150	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*50 - 134*
4-Bromofluorobenzene	*120*		*67 - 139*
Dibromofluoromethane	*100*		*62 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 600-204441-14 MS
Matrix: Water
Analysis Batch: 293940

Client Sample ID: Artesia-MW34-04282020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.00170		0.0100	0.01252		mg/L		108	70 - 140
1,1-Dichloroethene	0.000914	J	0.0100	0.01085		mg/L		99	58 - 148
Benzene	0.000176	U	0.0100	0.01034		mg/L		103	70 - 130
Naphthalene	0.00109	J	0.0100	0.008516		mg/L		74	10 - 150
Tetrachloroethene	0.000560	J	0.0100	0.008071		mg/L		75	47 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*50 - 134*
4-Bromofluorobenzene	*119*		*67 - 139*
Dibromofluoromethane	*101*		*62 - 130*
Toluene-d8 (Surr)	*90*		*70 - 130*

Lab Sample ID: 600-204441-14 MSD
Matrix: Water
Analysis Batch: 293940

Client Sample ID: Artesia-MW34-04282020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	0.00170		0.0100	0.01183		mg/L		101	70 - 140	6	30
1,1-Dichloroethene	0.000914	J	0.0100	0.01040		mg/L		95	58 - 148	4	30
Benzene	0.000176	U	0.0100	0.009632		mg/L		96	70 - 130	7	30
Naphthalene	0.00109	J	0.0100	0.008314		mg/L		72	10 - 150	2	30
Tetrachloroethene	0.000560	J	0.0100	0.007674		mg/L		71	47 - 150	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*81*		*50 - 134*
4-Bromofluorobenzene	*119*		*67 - 139*
Dibromofluoromethane	*101*		*62 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-294680/4
Matrix: Water
Analysis Batch: 294680

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.0957	U	0.500	0.0957	mg/L			05/18/20 17:20	1

Lab Sample ID: LCS 600-294680/5
Matrix: Water
Analysis Batch: 294680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	18.00		mg/L		90	90 - 110

QC Association Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

GC/MS VOA

Analysis Batch: 293693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204441-1	Artesia-MW38-04272020	Total/NA	Water	8260B	
600-204441-3	Artesia-MW12-04272020	Total/NA	Water	8260B	
MB 600-293693/7	Method Blank	Total/NA	Water	8260B	
LCS 600-293693/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-293693/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 293862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204441-1 - DL	Artesia-MW38-04272020	Total/NA	Water	8260B	
600-204441-4	Artesia-MW36-04272020	Total/NA	Water	8260B	
600-204441-5	Artesia-MW37-04272020	Total/NA	Water	8260B	
MB 600-293862/6	Method Blank	Total/NA	Water	8260B	
LCS 600-293862/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-293862/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 293940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204441-2	Artesia-TB0-04272020	Total/NA	Water	8260B	
600-204441-6	Artesia-MD37-04272020	Total/NA	Water	8260B	
600-204441-7	Artesia-MW22-04272020	Total/NA	Water	8260B	
600-204441-8	Artesia-MW25-04272020	Total/NA	Water	8260B	
600-204441-9	Artesia-MW32-04272020	Total/NA	Water	8260B	
600-204441-10	Artesia-Outlet-04282020	Total/NA	Water	8260B	
600-204441-11	Artesia-MID-04282020	Total/NA	Water	8260B	
600-204441-12	Artesia-Inlet-04282020	Total/NA	Water	8260B	
600-204441-13	Artesia-MW28-04282020	Total/NA	Water	8260B	
600-204441-14	Artesia-MW34-04282020	Total/NA	Water	8260B	
600-204441-15	Artesia-MW31-04282020	Total/NA	Water	8260B	
600-204441-16	Artesia-MW11-04282020	Total/NA	Water	8260B	
600-204441-17	Artesia-MW35-04282020	Total/NA	Water	8260B	
600-204441-18	Artesia-MW29-04282020	Total/NA	Water	8260B	
600-204441-19	Artesia-MW30-04282020	Total/NA	Water	8260B	
600-204441-20	Artesia-MD30-04282020	Total/NA	Water	8260B	
MB 600-293940/6	Method Blank	Total/NA	Water	8260B	
LCS 600-293940/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-293940/4	Lab Control Sample Dup	Total/NA	Water	8260B	
600-204441-14 MS	Artesia-MW34-04282020	Total/NA	Water	8260B	
600-204441-14 MSD	Artesia-MW34-04282020	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 294680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204441-1	Artesia-MW38-04272020	Total/NA	Water	300.0	
600-204441-3	Artesia-MW12-04272020	Total/NA	Water	300.0	
600-204441-4	Artesia-MW36-04272020	Total/NA	Water	300.0	
600-204441-5	Artesia-MW37-04272020	Total/NA	Water	300.0	
600-204441-16	Artesia-MW11-04282020	Total/NA	Water	300.0	
MB 600-294680/4	Method Blank	Total/NA	Water	300.0	
LCS 600-294680/5	Lab Control Sample	Total/NA	Water	300.0	

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Client Sample ID: Artesia-MW38-04272020
Lab Sample ID: 600-204441-1
Date Collected: 04/27/20 12:30
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	5	293862	05/05/20 21:12	YX1	TAL HOU
Total/NA	Analysis	8260B		1	293693	05/01/20 20:59	KLV	TAL HOU
Total/NA	Analysis	300.0		200	294680	05/18/20 19:02	W1N	TAL HOU

Client Sample ID: Artesia-TB0-04272020
Lab Sample ID: 600-204441-2
Date Collected: 04/27/20 12:00
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 12:56	YX1	TAL HOU

Client Sample ID: Artesia-MW12-04272020
Lab Sample ID: 600-204441-3
Date Collected: 04/27/20 13:41
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293693	05/01/20 21:27	KLV	TAL HOU
Total/NA	Analysis	300.0		200	294680	05/18/20 19:22	W1N	TAL HOU

Client Sample ID: Artesia-MW36-04272020
Lab Sample ID: 600-204441-4
Date Collected: 04/27/20 14:44
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293862	05/05/20 22:04	YX1	TAL HOU
Total/NA	Analysis	300.0		200	294680	05/18/20 19:43	W1N	TAL HOU

Client Sample ID: Artesia-MW37-04272020
Lab Sample ID: 600-204441-5
Date Collected: 04/27/20 16:35
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293862	05/05/20 21:38	YX1	TAL HOU
Total/NA	Analysis	300.0		200	294680	05/18/20 20:03	W1N	TAL HOU

Client Sample ID: Artesia-MD37-04272020
Lab Sample ID: 600-204441-6
Date Collected: 04/27/20 16:35
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 14:14	YX1	TAL HOU

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Client Sample ID: Artesia-MW22-04272020
Lab Sample ID: 600-204441-7
Date Collected: 04/27/20 16:10
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 15:05	YX1	TAL HOU

Client Sample ID: Artesia-MW25-04272020
Lab Sample ID: 600-204441-8
Date Collected: 04/27/20 15:55
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 15:31	YX1	TAL HOU

Client Sample ID: Artesia-MW32-04272020
Lab Sample ID: 600-204441-9
Date Collected: 04/27/20 16:25
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 15:57	YX1	TAL HOU

Client Sample ID: Artesia-Outlet-04282020
Lab Sample ID: 600-204441-10
Date Collected: 04/28/20 09:00
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 16:23	YX1	TAL HOU

Client Sample ID: Artesia-MID-04282020
Lab Sample ID: 600-204441-11
Date Collected: 04/28/20 09:05
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 16:48	YX1	TAL HOU

Client Sample ID: Artesia-Inlet-04282020
Lab Sample ID: 600-204441-12
Date Collected: 04/28/20 09:10
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 18:31	YX1	TAL HOU

Client Sample ID: Artesia-MW28-04282020
Lab Sample ID: 600-204441-13
Date Collected: 04/28/20 09:40
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 18:57	YX1	TAL HOU

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Client Sample ID: Artesia-MW34-04282020
Lab Sample ID: 600-204441-14
Date Collected: 04/28/20 10:15
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 14:39	YX1	TAL HOU

Client Sample ID: Artesia-MW31-04282020
Lab Sample ID: 600-204441-15
Date Collected: 04/28/20 10:45
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 19:23	YX1	TAL HOU

Client Sample ID: Artesia-MW11-04282020
Lab Sample ID: 600-204441-16
Date Collected: 04/28/20 10:18
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 19:49	YX1	TAL HOU
Total/NA	Analysis	300.0		200	294680	05/18/20 20:23	W1N	TAL HOU

Client Sample ID: Artesia-MW35-04282020
Lab Sample ID: 600-204441-17
Date Collected: 04/28/20 11:10
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 20:14	YX1	TAL HOU

Client Sample ID: Artesia-MW29-04282020
Lab Sample ID: 600-204441-18
Date Collected: 04/28/20 11:19
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 20:40	YX1	TAL HOU

Client Sample ID: Artesia-MW30-04282020
Lab Sample ID: 600-204441-19
Date Collected: 04/28/20 11:40
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 21:05	YX1	TAL HOU

Client Sample ID: Artesia-MD30-04282020
Lab Sample ID: 600-204441-20
Date Collected: 04/28/20 11:45
Matrix: Water
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293940	05/06/20 21:31	YX1	TAL HOU

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: Jacobs Engineering Group, Inc.
Job ID: 600-204441-1
Project/Site: Dowell - Artesia

Laboratory: Eurofins TestAmerica, Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0759	08-04-20
Louisiana	NELAP	01967	06-30-20
Oklahoma	State	2019-073	08-31-20
Texas	NELAP	T104704223-19-25	10-31-20
USDA	US Federal Programs	P330-18-00130	04-30-21
Utah	NELAP	TX000832019-5	07-31-20

Method Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
5030B	Purge and Trap	SW846	TAL HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204441-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-204441-1	Artesia-MW38-04272020	Water	04/27/20 12:30	04/29/20 12:10	
600-204441-2	Artesia-TB0-04272020	Water	04/27/20 12:00	04/29/20 12:10	
600-204441-3	Artesia-MW12-04272020	Water	04/27/20 13:41	04/29/20 12:10	
600-204441-4	Artesia-MW36-04272020	Water	04/27/20 14:44	04/29/20 12:10	
600-204441-5	Artesia-MW37-04272020	Water	04/27/20 16:35	04/29/20 12:10	
600-204441-6	Artesia-MD37-04272020	Water	04/27/20 16:35	04/29/20 12:10	
600-204441-7	Artesia-MW22-04272020	Water	04/27/20 16:10	04/29/20 12:10	
600-204441-8	Artesia-MW25-04272020	Water	04/27/20 15:55	04/29/20 12:10	
600-204441-9	Artesia-MW32-04272020	Water	04/27/20 16:25	04/29/20 12:10	
600-204441-10	Artesia-Outlet-04282020	Water	04/28/20 09:00	04/29/20 12:10	
600-204441-11	Artesia-MID-04282020	Water	04/28/20 09:05	04/29/20 12:10	
600-204441-12	Artesia-Inlet-04282020	Water	04/28/20 09:10	04/29/20 12:10	
600-204441-13	Artesia-MW28-04282020	Water	04/28/20 09:40	04/29/20 12:10	
600-204441-14	Artesia-MW34-04282020	Water	04/28/20 10:15	04/29/20 12:10	
600-204441-15	Artesia-MW31-04282020	Water	04/28/20 10:45	04/29/20 12:10	
600-204441-16	Artesia-MW11-04282020	Water	04/28/20 10:18	04/29/20 12:10	
600-204441-17	Artesia-MW35-04282020	Water	04/28/20 11:10	04/29/20 12:10	
600-204441-18	Artesia-MW29-04282020	Water	04/28/20 11:19	04/29/20 12:10	
600-204441-19	Artesia-MW30-04282020	Water	04/28/20 11:40	04/29/20 12:10	
600-204441-20	Artesia-MD30-04282020	Water	04/28/20 11:45	04/29/20 12:10	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 292951

Lab Sample ID: IC 600-292951/2 Client Sample ID:

Date Analyzed: 04/21/20 17:33 Lab File ID: C11201.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.24	Peak assignment corrected	velak	04/21/20 17:55
Bromomethane	4.89	Peak assignment corrected	velak	04/21/20 17:55
t-Butanol	6.02	Peak assignment corrected	velak	04/21/20 17:55
Iodomethane	6.08	Peak assignment corrected	velak	04/21/20 17:55
Propionitrile	6.88	Peak assignment corrected	velak	04/21/20 17:55
Isobutyl alcohol	7.46	Peak assignment corrected	velak	04/21/20 17:55
Tetrahydrofuran	7.72	Peak assignment corrected	velak	04/21/20 17:56
1,4-Dioxane	8.94	Incomplete Integration	velak	04/21/20 17:56
2-Chloroethyl vinyl ether	9.16	Incomplete Integration	velak	04/21/20 17:56
1,1,2-Trichloroethane	9.91	Incomplete Integration	velak	04/21/20 17:56
2-Hexanone	10.22	Incomplete Integration	velak	04/21/20 17:56
1,2,3-Trichloropropane	12.48	Incomplete Integration	velak	04/21/20 17:56
trans-1,4-Dichloro-2-butene	12.50	Incomplete Integration	velak	04/21/20 17:56
1,2-Dibromo-3-Chloropropane	14.92	Incomplete Integration	velak	04/21/20 17:56
1,2,3-Trichlorobenzene	16.92	Incomplete Integration	velak	04/21/20 17:56

Lab Sample ID: IC 600-292951/3 Client Sample ID:

Date Analyzed: 04/21/20 17:58 Lab File ID: C11202.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.24	Peak assignment corrected	xiey	04/22/20 09:11
Acetone	5.66	Peak assignment corrected	xiey	04/22/20 09:11
Iodomethane	6.08	Peak assignment corrected	xiey	04/22/20 09:12
Isobutyl alcohol	7.45	Split Peak	xiey	04/22/20 09:12
Dibromomethane	8.79	Assign Peak	xiey	04/22/20 09:13
1,4-Dioxane	8.95	Assign Peak	xiey	04/22/20 09:13
2-Chloroethyl vinyl ether	9.16	Assign Peak	xiey	04/22/20 09:13
trans-1,4-Dichloro-2-butene	12.48	Assign Peak	xiey	04/22/20 09:13
1,2,3-Trichloropropane	12.49	Assign Peak	xiey	04/22/20 09:13

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 292951

Lab Sample ID: IC 600-292951/4 Client Sample ID:

Date Analyzed: 04/21/20 18:24 Lab File ID: C11203.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Split Peak	xiey	04/22/20 10:44
Dibromomethane	8.79	Split Peak	xiey	04/22/20 10:44

Lab Sample ID: IC 600-292951/5 Client Sample ID:

Date Analyzed: 04/21/20 18:50 Lab File ID: C11204.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	04/22/20 11:40
Dibromomethane	8.79	Peak assignment corrected	xiey	04/22/20 11:40

Lab Sample ID: ICIS 600-292951/6 Client Sample ID:

Date Analyzed: 04/21/20 19:16 Lab File ID: C11205.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	04/22/20 10:45
Dibromomethane	8.79	Peak assignment corrected	xiey	04/22/20 10:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 293862

Lab Sample ID: CCVIS 600-293862/2 Client Sample ID:

Date Analyzed: 05/05/20 10:39 Lab File ID: C12601.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	05/05/20 11:17
Dibromomethane	8.79	Peak assignment corrected	xiey	05/05/20 11:17

Lab Sample ID: MB 600-293862/6 Client Sample ID:

Date Analyzed: 05/05/20 12:42 Lab File ID: C12605.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene		Invalid Compound ID	xiey	05/05/20 13:19

Lab Sample ID: 600-204441-4 Client Sample ID: Artesia-MW36-04272020

Date Analyzed: 05/05/20 22:04 Lab File ID: C12526.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene		Invalid Compound ID	xiey	05/06/20 09:41

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 293940

Lab Sample ID: CCVIS 600-293940/2 Client Sample ID:

Date Analyzed: 05/06/20 10:36 Lab File ID: C12701.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	05/06/20 11:06
Dibromomethane	8.79	Peak assignment corrected	xiey	05/06/20 11:06

Lab Sample ID: MB 600-293940/6 Client Sample ID:

Date Analyzed: 05/06/20 12:31 Lab File ID: C12705.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene		Invalid Compound ID	xiey	05/06/20 12:58

Lab Sample ID: 600-204441-7 Client Sample ID: Artesia-MW22-04272020

Date Analyzed: 05/06/20 15:05 Lab File ID: C12711.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzene	8.35	Peak assignment corrected	xiey	05/06/20 15:31

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS06 Analysis Batch Number: 289750

Lab Sample ID: IC 600-289750/3 Client Sample ID:

Date Analyzed: 03/09/20 15:30 Lab File ID: J06901.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	3.91	Baseline	velak	03/09/20 17:47
Chloromethane	4.17	Baseline	velak	03/09/20 17:47
Vinyl chloride	4.38	Baseline	velak	03/09/20 17:47
Bromomethane	4.81	Baseline	velak	03/09/20 17:47
Chloroethane	4.94	Baseline	velak	03/09/20 17:47
Dichlorofluoromethane	4.97	Baseline	velak	03/09/20 17:47
Acrolein	5.46	Baseline	velak	03/09/20 17:47
Acetonitrile	5.47	Baseline	velak	03/09/20 17:47
Isopropyl alcohol	5.48	Baseline	velak	03/09/20 17:47
Trichlorofluoromethane	5.49	Baseline	velak	03/09/20 17:47
Acetone	5.56	Baseline	velak	03/09/20 17:48
Ethyl ether	5.67	Baseline	velak	03/09/20 17:48
t-Butanol	5.93	Baseline	velak	03/09/20 17:48
Iodomethane	6.00	Baseline	velak	03/09/20 17:48
Methylene Chloride	6.06	Baseline	velak	03/09/20 17:48
Methyl acetate	6.07	Baseline	velak	03/09/20 17:48
1,1,2-Trichloro-1,2,2-trifluoroethane	6.09	Baseline	velak	03/09/20 17:48
Methyl tert-butyl ether	6.67	Baseline	velak	03/09/20 17:48
Propionitrile	6.79	Baseline	velak	03/09/20 17:49
2-Butanone (MEK)	7.11	Baseline	velak	03/09/20 17:49
cis-1,2-Dichloroethene	7.24	Baseline	velak	03/09/20 17:49
Chlorobromomethane	7.37	Baseline	velak	03/09/20 17:49
Chloroform	7.40	Incomplete Integration	velak	03/09/20 19:03
Tert-butyl ethyl ether	7.41	Baseline	velak	03/09/20 17:49
Isobutyl alcohol	7.44	Baseline	velak	03/09/20 17:49
Dibromofluoromethane	7.50	Baseline	velak	03/09/20 17:49
Tetrahydrofuran	7.66	Baseline	velak	03/09/20 17:49
n-Butanol	7.99	Baseline	velak	03/09/20 17:50
1,1-Dichloropropene	8.12	Baseline	velak	03/09/20 17:50

8260B

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS06 Analysis Batch Number: 289750

Lab Sample ID: IC 600-289750/3 Client Sample ID:

Date Analyzed: 03/09/20 15:30 Lab File ID: J06901.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzene	8.30	Baseline	velak	03/09/20 17:50
n-Heptane	8.63	Baseline	velak	03/09/20 17:50
2-Nitropropane	8.75	Baseline	velak	03/09/20 17:50
2-Chloroethyl vinyl ether	9.09	Baseline	velak	03/09/20 17:50
Methylcyclohexane	9.20	Baseline	velak	03/09/20 17:50
4-Methyl-2-pentanone (MIBK)	9.37	Baseline	velak	03/09/20 17:50
1,3-Dichloropropane	10.04	Baseline	velak	03/09/20 17:50
2-Hexanone	10.41	Baseline	velak	03/09/20 17:51
1,1,1,2-Tetrachloroethane	11.35	Baseline	velak	03/09/20 17:51
m-Xylene & p-Xylene	11.80	Baseline	velak	03/09/20 17:51
Bromoform	12.01	Baseline	velak	03/09/20 17:51
1,1,2,2-Tetrachloroethane	12.26	Baseline	velak	03/09/20 17:51
trans-1,4-Dichloro-2-butene	12.39	Baseline	velak	03/09/20 17:51
1,2,3-Trichloropropane	12.42	Baseline	velak	03/09/20 17:51
N-Propylbenzene	13.09	Baseline	velak	03/09/20 17:51
1,2-Dichlorobenzene	14.40	Baseline	velak	03/09/20 17:52
1,2-Dibromo-3-Chloropropane	14.86	Baseline	velak	03/09/20 17:52
1,2,4-Trichlorobenzene	16.29	Baseline	velak	03/09/20 17:52
Hexachlorobutadiene	16.62	Baseline	velak	03/09/20 17:52

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS06 Analysis Batch Number: 289750

Lab Sample ID: IC 600-289750/4 Client Sample ID:

Date Analyzed: 03/09/20 15:58 Lab File ID: J06902.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	3.92	Baseline	velak	03/09/20 17:52
Chloromethane	4.18	Baseline	velak	03/09/20 17:52
Bromomethane	4.81	Baseline	velak	03/09/20 17:52
Chloroethane	4.94	Baseline	velak	03/09/20 17:53
Dichlorofluoromethane	4.99	Baseline	velak	03/09/20 17:53
Acrolein	5.45	Baseline	velak	03/09/20 17:53
Acetonitrile	5.48	Baseline	velak	03/09/20 18:54
Isopropyl alcohol	5.51	Baseline	velak	03/09/20 17:53
Acetone	5.56	Baseline	velak	03/09/20 17:53
1,1-Dichloroethene	5.94	Baseline	velak	03/09/20 17:53
Iodomethane	5.99	Baseline	velak	03/09/20 17:54
Methylene Chloride	6.06	Baseline	velak	03/09/20 17:54
Methyl acetate	6.07	Baseline	velak	03/09/20 17:54
1,1,2-Trichloro-1,2,2-trifluoroethane	6.12	Baseline	velak	03/09/20 17:54
Propionitrile	6.80	Baseline	velak	03/09/20 18:59
2-Butanone (MEK)	7.11	Baseline	velak	03/09/20 17:54
Ethyl acetate	7.34	Baseline	velak	03/09/20 17:54
Isobutyl alcohol	7.44	Baseline	velak	03/09/20 17:54
Tetrahydrofuran	7.66	Baseline	velak	03/09/20 17:54
1,2-Dichloroethane-d4 (Surr)	7.84	Baseline	velak	03/09/20 17:55
1,1,1-Trichloroethane	7.98	Baseline	velak	03/09/20 17:55
n-Butanol	7.99	Baseline	velak	03/09/20 19:08
2-Nitropropane	8.75	Baseline	velak	03/09/20 17:55
1,4-Dioxane	8.89	Baseline	velak	03/09/20 17:55
trans-1,3-Dichloropropene	9.66	Baseline	velak	03/09/20 17:55
2-Hexanone	10.40	Baseline	velak	03/09/20 17:55
Chlorobenzene	11.43	Baseline	velak	03/09/20 17:55
1,2-Dibromo-3-Chloropropane	14.88	Baseline	velak	03/09/20 17:56

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS06 Analysis Batch Number: 289750

Lab Sample ID: IC 600-289750/5 Client Sample ID:

Date Analyzed: 03/09/20 16:26 Lab File ID: J06903.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	3.92	Baseline	velak	03/09/20 17:57
Chloromethane	4.17	Baseline	velak	03/09/20 17:58
Vinyl chloride	4.38	Baseline	velak	03/09/20 17:58
Chloroethane	4.94	Baseline	velak	03/09/20 17:58
Dichlorofluoromethane	4.98	Baseline	velak	03/09/20 17:58
Acetonitrile	5.47	Baseline	velak	03/09/20 18:54
Trichlorofluoromethane	5.49	Baseline	velak	03/09/20 17:58
Isopropyl alcohol	5.50	Baseline	velak	03/09/20 17:58
Acetone	5.56	Baseline	velak	03/09/20 17:59
1,1-Dichloroethene	5.94	Baseline	velak	03/09/20 17:59
Propionitrile	6.80	Baseline	velak	03/09/20 18:59
Chloroform	7.40	Baseline	velak	03/09/20 19:04
Isobutyl alcohol	7.43	Baseline	velak	03/09/20 17:59
1,2-Dichloroethane-d4 (Surr)	7.84	Baseline	velak	03/09/20 17:59
1,2-Dichloroethane	7.90	Baseline	velak	03/09/20 17:59
n-Butanol	7.99	Baseline	velak	03/09/20 18:00
2-Nitropropane	8.75	Baseline	velak	03/09/20 18:00
1,4-Dioxane	8.88	Baseline	velak	03/09/20 18:00
n-Butyl acetate	9.78	Baseline	velak	03/09/20 18:00
1,3-Dichloropropane	10.04	Baseline	velak	03/09/20 18:00
o-Xylene	12.24	Baseline	velak	03/09/20 18:00
1,2-Dibromo-3-Chloropropane	14.87	Baseline	velak	03/09/20 18:01
Hexachlorobutadiene	16.62	Baseline	velak	03/09/20 18:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS06 Analysis Batch Number: 289750

Lab Sample ID: IC 600-289750/6 Client Sample ID:

Date Analyzed: 03/09/20 16:54 Lab File ID: J06904.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	3.92	Baseline	velak	03/09/20 18:02
Chloromethane	4.17	Baseline	velak	03/09/20 18:02
Vinyl chloride	4.39	Baseline	velak	03/09/20 18:02
Chloroethane	4.95	Baseline	velak	03/09/20 18:02
Dichlorofluoromethane	4.98	Baseline	velak	03/09/20 18:02
Acrolein	5.44	Baseline	velak	03/09/20 18:02
Acetonitrile	5.46	Baseline	velak	03/09/20 18:55
Acetone	5.56	Baseline	velak	03/09/20 18:03
Acrylonitrile	5.97	Baseline	velak	03/09/20 18:57
Chloroform	7.40	Baseline	velak	03/09/20 19:04
Isobutyl alcohol	7.44	Baseline	velak	03/09/20 18:03
1,2-Dichloroethane-d4 (Surr)	7.84	Baseline	velak	03/09/20 18:03
n-Butanol	7.98	Baseline	velak	03/09/20 19:08
1,4-Dioxane	8.88	Baseline	velak	03/09/20 18:03

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS06 Analysis Batch Number: 289750

Lab Sample ID: ICIS 600-289750/7 Client Sample ID:

Date Analyzed: 03/09/20 17:21 Lab File ID: J06905.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	3.91	Baseline	velak	03/09/20 17:44
Bromomethane	4.80	Baseline	velak	03/09/20 17:45
Chloroethane	4.95	Baseline	velak	03/09/20 17:45
Acrolein	5.45	Baseline	velak	03/09/20 17:45
Acetonitrile	5.47	Baseline	velak	03/09/20 18:55
1,1,2-Trichloro-1,2,2-trifluoroethane	6.11	Baseline	velak	03/09/20 17:45
Chloroform	7.40	Baseline	velak	03/09/20 19:04
1,2-Dichloroethane-d4 (Surr)	7.85	Baseline	velak	03/09/20 17:45
n-Butanol	7.98	Baseline	velak	03/09/20 19:09
1,4-Dioxane	8.88	Baseline	velak	03/09/20 17:46

Lab Sample ID: IC 600-289750/8 Client Sample ID:

Date Analyzed: 03/09/20 17:49 Lab File ID: J06906.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	3.91	Baseline	velak	03/09/20 18:42
Chloromethane	4.17	Baseline	velak	03/09/20 18:42
Vinyl chloride	4.39	Baseline	velak	03/09/20 18:50
Acrolein	5.45	Baseline	velak	03/09/20 18:52
Acetonitrile	5.47	Baseline	velak	03/09/20 18:55
Acetone	5.56	Baseline	velak	03/09/20 18:42
t-Butanol	5.94	Baseline	velak	03/09/20 18:43
Chloroform	7.41	Baseline	velak	03/09/20 19:05
Isobutyl alcohol	7.44	Baseline	velak	03/09/20 18:43
1,2-Dichloroethane-d4 (Surr)	7.85	Baseline	velak	03/09/20 18:43
n-Butanol	7.98	Baseline	velak	03/09/20 19:09
1,4-Dioxane	8.88	Baseline	velak	03/09/20 18:43

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS06 Analysis Batch Number: 289750

Lab Sample ID: IC 600-289750/9 Client Sample ID:

Date Analyzed: 03/09/20 18:18 Lab File ID: J06907.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	4.39	Baseline	velak	03/09/20 18:49
Acetonitrile	5.45	Baseline	velak	03/09/20 18:56
Acrolein	5.45	Baseline	velak	03/09/20 18:52
n-Butanol	7.98	Baseline	velak	03/09/20 19:10
1,4-Dioxane	8.87	Baseline	velak	03/09/20 18:45
Chlorobenzene-d5	11.39	Baseline	velak	03/09/20 18:45

Lab Sample ID: ICV 600-289750/1013 Client Sample ID:

Date Analyzed: 03/09/20 20:10 Lab File ID: J06911-ICV.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	3.91	Baseline	velak	03/10/20 11:35
Vinyl chloride	4.40	Baseline	velak	03/10/20 11:35
Acrolein	5.45	Baseline	velak	03/10/20 11:35
Acetonitrile	5.46	Baseline	velak	03/10/20 11:35
t-Butanol	5.94	Baseline	velak	03/10/20 11:36
1,2-Dichloroethane-d4 (Surr)	7.85	Baseline	velak	03/10/20 11:36
1,4-Dioxane	8.87	Baseline	velak	03/10/20 11:36

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS06 Analysis Batch Number: 293693

Lab Sample ID: CCVIS 600-293693/3 Client Sample ID:

Date Analyzed: 05/01/20 14:54 Lab File ID: J12201A.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	3.92	Peak assignment corrected	velak	05/01/20 15:39
Acetonitrile	5.46	Incomplete Integration	velak	05/01/20 15:40
t-Butanol	5.94	Incomplete Integration	velak	05/01/20 15:40
Hexachlorobutadiene	16.63	Incomplete Integration	velak	05/01/20 15:41

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHWC11 Analysis Batch Number: 292894

Lab Sample ID: IC 600-292894/3 Client Sample ID:

Date Analyzed: 04/21/20 17:39 Lab File ID: 600-0034937-003.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	5.34	Incomplete Integration	watsond	04/22/20 08:02
Bromide	9.98	Incomplete Integration	watsond	04/22/20 08:04
Sulfate	10.39	Incomplete Integration	watsond	04/22/20 08:05

Lab Sample ID: IC 600-292894/4 Client Sample ID:

Date Analyzed: 04/21/20 17:59 Lab File ID: 600-0034937-004.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	9.51	Incomplete Integration	watsond	04/22/20 08:06
Sulfate	10.11	Incomplete Integration	watsond	04/22/20 08:06

Lab Sample ID: IC 600-292894/5 Client Sample ID:

Date Analyzed: 04/21/20 18:20 Lab File ID: 600-0034937-005.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	9.73	Incomplete Integration	watsond	04/22/20 08:07

Lab Sample ID: IC 600-292894/6 Client Sample ID:

Date Analyzed: 04/21/20 18:40 Lab File ID: 600-0034937-006.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	9.52	Incomplete Integration	watsond	04/22/20 08:08

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHWC11 Analysis Batch Number: 292894

Lab Sample ID: IC 600-292894/7 Client Sample ID:

Date Analyzed: 04/21/20 19:01 Lab File ID: 600-0034937-007.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	5.30	Incomplete Integration	watsond	04/22/20 08:10

Lab Sample ID: IC 600-292894/8 Client Sample ID:

Date Analyzed: 04/21/20 19:21 Lab File ID: 600-0034937-008.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	9.57	Incomplete Integration	watsond	04/22/20 08:16
Sulfate	10.00	Incomplete Integration	watsond	04/22/20 08:18

Lab Sample ID: IC 600-292894/9 Client Sample ID:

Date Analyzed: 04/21/20 19:41 Lab File ID: 600-0034937-009.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	9.64	Incomplete Integration	watsond	04/22/20 08:16
Sulfate	9.98	Incomplete Integration	watsond	04/22/20 08:18

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHWC11 Analysis Batch Number: 294680

Lab Sample ID: CCV 600-294680/2 Client Sample ID:

Date Analyzed: 05/18/20 15:59 Lab File ID: 600-0035349-002.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.06	Incomplete Integration	watsond	05/19/20 08:26
Chloride	4.95	Peak assignment corrected	nguyendt	05/18/20 16:55
Bromide	9.33	Incomplete Integration	watsond	05/19/20 08:27

Lab Sample ID: 600-204441-16 Client Sample ID: Artesia-MW11-04282020

Date Analyzed: 05/18/20 20:23 Lab File ID: 600-0035349-013.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	9.96	Incomplete Integration	watsond	05/19/20 08:30

Lab Sample ID: CCV 600-294680/14 Client Sample ID:

Date Analyzed: 05/18/20 20:44 Lab File ID: 600-0035349-014.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.13	Baseline Smoothing	nampitakw	05/20/20 09:33
Chloride	4.99	Peak assignment corrected	watsond	05/19/20 08:31
Bromide	9.21	Incomplete Integration	watsond	05/19/20 08:32

Lab Sample ID: CCV 600-294680/26 Client Sample ID:

Date Analyzed: 05/19/20 00:49 Lab File ID: 600-0035349-026.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.17	Incomplete Integration	watsond	05/19/20 08:37
Chloride	5.08	Incomplete Integration	watsond	05/19/20 08:38
Bromide	9.28	Incomplete Integration	watsond	05/19/20 08:38
Sulfate	10.04	Incomplete Integration	watsond	05/19/20 08:37

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204441-1

SDG No.:

Instrument ID: CHWC11 Analysis Batch Number: 294680

Lab Sample ID: CCV 600-294680/35 Client Sample ID:

Date Analyzed: 05/19/20 03:52 Lab File ID: 600-0035349-035.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.02	Incomplete Integration	watsond	05/19/20 08:40
Chloride	4.91	Incomplete Integration	watsond	05/19/20 08:40
Bromide	9.03	Incomplete Integration	watsond	05/19/20 08:42
Sulfate	10.18	Incomplete Integration	watsond	05/19/20 08:42

300.0

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
BFB_00303							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21	Restek, Lot A0120567			(Purchased Reagent)		BFB	2000 ug/mL
BFB_00307							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21	Restek, Lot A0120567			(Purchased Reagent)		BFB	2000 ug/mL
BFB_00308							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21	Restek, Lot A0120567			(Purchased Reagent)		BFB	2000 ug/mL
CCV_00124	06/21/20	04/24/20	DI WATER, Lot NONE	500 mL	WETSICCSO4_00015	10 mL	Sulfate	20 mg/L
.WETSICCSO4_00015	06/21/20	INORGANIC-VENTURE, Lot k2-sox01111			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD2_00054	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	20 uL	Bromide	0.2 mg/L
					WETSICCCL_00026	40 uL	Chloride	0.4 mg/L
					WETSICCFL_00014	20 uL	Fluoride	0.2 mg/L
					WETSICCSO4_00017	40 uL	Sulfate	0.4 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD3_00047	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	50 uL	Bromide	0.5 mg/L
					WETSICCCL_00026	100 uL	Chloride	1 mg/L
					WETSICCFL_00014	50 uL	Fluoride	0.5 mg/L
					WETSICCSO4_00017	100 uL	Sulfate	1 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD4_00046	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	100 uL	Bromide	1 mg/L
					WETSICCCL_00026	200 uL	Chloride	2 mg/L
					WETSICCFL_00014	100 uL	Fluoride	1 mg/L
					WETSICCSO4_00017	200 uL	Sulfate	2 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD5_00048	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	200 uL	Bromide	2 mg/L
					WETSICCCL_00026	500 uL	Chloride	5 mg/L
					WETSICCFL_00014	200 uL	Fluoride	2 mg/L
					WETSICCSO4_00017	500 uL	Sulfate	5 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD6_00043	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	500 uL	Bromide	5 mg/L
					WETSICCCL_00026	1 mL	Chloride	10 mg/L
					WETSICCFL_00014	500 uL	Fluoride	5 mg/L
					WETSICCSO4_00017	1 mL	Sulfate	10 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD7_00046	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	750 uL	Bromide	7.5 mg/L
					WETSICCCL_00026	2 mL	Chloride	20 mg/L
					WETSICCFL_00014	750 uL	Fluoride	7.5 mg/L
					WETSICCSO4_00017	2 mL	Sulfate	20 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD8_00034	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	1 mL	Bromide	10 mg/L
					WETSICCCL_00026	4 mL	Chloride	40 mg/L
					WETSICCFL_00014	1 mL	Fluoride	10 mg/L
					WETSICCSO4_00017	4 mL	Sulfate	40 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICV/LCS_00110	06/24/20	12/24/19	DI WATER, Lot NONE	500 mL	WETSICISO4_00012	10 mL	Sulfate	20 mg/L
.WETSICISO4_00012	09/29/20	ACCUSTANDARD, Lot 218085152			(Purchased Reagent)		Sulfate	1000 mg/L
VOAIS250PPM_00147	03/10/20	02/25/20	Methanol, Lot V071019A	1 mL	VOA3IS_00031	100 uL	1,4-Dichlorobenzene-d4	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
.VOA3IS_00031	06/30/23		Restek, Lot A0138856		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VOAIS250PPM_00151	05/05/20	04/21/20	Methanol, Lot V071019A	1 mL	VOA3IS_00031	100 uL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
.VOA3IS_00031	06/30/23		Restek, Lot A0138856		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VOAIS50PPM_00276	05/05/20	04/21/20	Methanol, Lot V071019A	1 mL	VOA3IS_00031	20 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VOA3IS_00031	06/30/23		Restek, Lot A0138856		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VOAIS50PPM_00277	05/18/20	05/04/20	Methanol, Lot V071019A	1 mL	VOA3IS_00031	20 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VOA3IS_00031	06/30/23		Restek, Lot A0138856		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VOALCSPT2T_00081	03/10/20	02/25/20	Methanol, Lot V071019A	1 mL	VOALMegMi2017_00004	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00004	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOALCSPT2T_00085	05/05/20	04/21/20	Methanol, Lot V071019A	1 mL	VOALMegMi2017_00004	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00004	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOALCSPT2T_00086	05/18/20	05/04/20	Methanol, Lot V071019A	1 mL	VOALMegMi2017_00004	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00004	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOASS250PPM_00125	03/10/20	02/25/20	Methanol, Lot V071019A	1 mL	VOARSS_00012	100 uL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASS250PPM_00129	05/05/20	04/21/20	Methanol, Lot V071019A	1 mL	VOARSS_00012	100 uL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASS50PPM_00314	05/05/20	04/21/20	Methanol, Lot V071019A	1 mL	VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASS50PPM_00315	05/18/20	05/04/20	Methanol, Lot V071019A	1 mL	VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASTDGASPT_00368	03/10/20	03/03/20	Methanol, Lot V100919A	1 mL	VOARGAS_00014	20 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	50 ug/mL
.VOARGAS_00014	10/31/20		Restek, Lot A0131502		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VOASTDGASPT_00375	04/28/20	04/21/20	Methanol, Lot V100919A	1 mL	VOARGAS_00014	20 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VOARGAS_00014	10/31/20		Restek, Lot A0131502		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VOASTDst_00130	03/10/20	02/25/20	Methanol, Lot V071019A	1 mL	VOAMegMix2017_00006	20 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VOAR2CEVE_00014	40 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VOARAcroleinS_00006	12.5 uL	Acrolein	250 ug/mL
					VOARADD4COM_00009	20 uL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VOARADDCOM_00015	20 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VOARKETONDup_00003	8 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VOARPOLADD_00013	20 uL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					VOARVASTD_00007	20 uL	Vinyl acetate	100 ug/mL
.VOAMegMix2017_00006	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.VOAR2CEVE_00014	12/31/20		Restek, Lot A0133302		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcroleinS_00006	03/31/20		Restek, Lot A0153030		(Purchased Reagent)		Acrolein	20000 ug/mL
.VOARADD4COM_00009	05/31/20		Restek, Lot A0143198		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VOARADDCOM_00015	07/31/20		Restek, Lot A0145375		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VOARKETONDup_00003	09/30/22		RESTEK, Lot A0152956		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARPOLADD_00013	07/31/20		Restek, Lot A0139911		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.VOARVASTD_00007	03/31/20		Restek, Lot A0153388		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VOASTDst_00134	05/05/20	04/21/20	Methanol, Lot V071019A	1 mL	VOAMegMix2017_00006	20 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VOAR2CEVE_00014	40 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VOARAcroleinS_00007	12.5 uL	Acrolein	250 ug/mL
					VOARADD4COM_00009	20 uL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VOARADDCOM_00015	20 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VOARKETONDup_00003	8 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VOARPOLADD_00013	20 uL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					VOARVASTD_00008	20 uL	Vinyl acetate	100 ug/mL
.VOAMegMix2017_00006	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.VOAR2CEVE_00014	12/31/20		Restek, Lot A0133302		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcroleinS_00007	04/30/21		Restek, Lot A0154578		(Purchased Reagent)		Acrolein	20000 ug/mL
.VOARADD4COM_00009	05/31/20		Restek, Lot A0143198		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VOARADDCOM_00015	07/31/20		Restek, Lot A0145375		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VOARKETONDup_00003	09/30/22		RESTEK, Lot A0152956		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARPOLADD_00013	07/31/20		Restek, Lot A0139911		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.VOARVASTD_00008	07/31/20		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VOASTDst_00135	05/18/20	05/04/20	Methanol, Lot V071019A	1 mL	VOAMegMix2017_00006	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
					VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOAMegMix2017_00006	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL

Method 8260B Low Level

Volatile Organic Compounds (GC/MS) by Method 8260B Low Level

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-VRX 60 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
Artesia-MW38-04272020	600-204441-1	119	93	84	92
Artesia-MW38-04272020 DL	600-204441-1 DL	98	90	94	113
Artesia-TB0-04272020	600-204441-2	98	85	96	116
Artesia-MW12-04272020	600-204441-3	118	97	82	94
Artesia-MW36-04272020	600-204441-4	101	82	94	110
Artesia-MW37-04272020	600-204441-5	99	90	93	114
Artesia-MD37-04272020	600-204441-6	99	87	90	113
Artesia-MW22-04272020	600-204441-7	97	89	88	116
Artesia-MW25-04272020	600-204441-8	98	89	94	114
Artesia-MW32-04272020	600-204441-9	98	89	93	116
Artesia-Outlet-04282020	600-204441-10	98	87	91	116
Artesia-MID-04282020	600-204441-11	99	89	92	121
Artesia-Inlet-04282020	600-204441-12	100	90	93	119
Artesia-MW28-04282020	600-204441-13	98	88	93	115
Artesia-MW34-04282020	600-204441-14	97	87	90	114
Artesia-MW31-04282020	600-204441-15	97	88	93	123
Artesia-MW11-04282020	600-204441-16	99	88	89	119
Artesia-MW35-04282020	600-204441-17	98	89	94	118
Artesia-MW29-04282020	600-204441-18	98	88	92	118
Artesia-MW30-04282020	600-204441-19	98	86	93	120
Artesia-MD30-04282020	600-204441-20	96	85	90	118
	MB 600-293693/7	108	94	84	91
	MB 600-293862/6	97	87	92	113
	MB 600-293940/6	97	84	94	115
	LCS 600-293693/4	115	103	83	100
	LCS 600-293862/3	97	81	101	116

	QC LIMITS
DBFM = Dibromofluoromethane	62-130
DCA = 1,2-Dichloroethane-d4 (Surr)	50-134
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	67-139

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-VRX 60 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	LCS 600-293940/3	100	89	98	120
	LCSD 600-293693/5	104	93	88	97
	LCSD 600-293862/4	99	92	100	117
	LCSD 600-293940/4	100	89	93	120
Artesia-MW34-04282 020 MS	600-204441-14 MS	101	82	90	119
Artesia-MW34-04282 020 MSD	600-204441-14 MSD	101	81	94	119

	QC LIMITS
DBFM = Dibromofluoromethane	62-130
DCA = 1,2-Dichloroethane-d4 (Surr)	50-134
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	67-139

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Matrix: Water Level: Low Lab File ID: J12202.D

Lab ID: LCS 600-293693/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.007846	78	70-140	
1,1-Dichloroethene	0.0100	0.008366	84	58-148	
Benzene	0.0100	0.01078	108	70-130	
Naphthalene	0.0100	0.01117	112	10-150	
Tetrachloroethene	0.0100	0.01064	106	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C12602.D

Lab ID: LCS 600-293862/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.009537	95	70-140	
1,1-Dichloroethene	0.0100	0.008578	86	58-148	
Benzene	0.0100	0.009424	94	70-130	
Naphthalene	0.0100	0.008659	87	10-150	
Tetrachloroethene	0.0100	0.007735	77	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C12702.D

Lab ID: LCS 600-293940/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.009781	98	70-140	
1,1-Dichloroethene	0.0100	0.008881	89	58-148	
Benzene	0.0100	0.009415	94	70-130	
Naphthalene	0.0100	0.007759	78	10-150	
Tetrachloroethene	0.0100	0.007386	74	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Matrix: Water Level: Low Lab File ID: J12203.D

Lab ID: LCSD 600-293693/5 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.008371	84	6	20	70-140	
1,1-Dichloroethene	0.0100	0.009691	97	15	20	58-148	
Benzene	0.0100	0.01085	108	1	20	70-130	
Naphthalene	0.0100	0.01060	106	5	20	10-150	
Tetrachloroethene	0.0100	0.01094	109	3	20	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C12603.D

Lab ID: LCSD 600-293862/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.009527	95	0	20	70-140	
1,1-Dichloroethene	0.0100	0.008647	86	1	20	58-148	
Benzene	0.0100	0.009294	93	1	20	70-130	
Naphthalene	0.0100	0.009648	96	11	20	10-150	
Tetrachloroethene	0.0100	0.007648	76	1	20	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C12703.D

Lab ID: LCSD 600-293940/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.009576	96	2	20	70-140	
1,1-Dichloroethene	0.0100	0.008740	87	2	20	58-148	
Benzene	0.0100	0.009291	93	1	20	70-130	
Naphthalene	0.0100	0.008367	84	8	20	10-150	
Tetrachloroethene	0.0100	0.007244	72	2	20	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C12716.D

Lab ID: 600-204441-14 MS Client ID: Artesia-MW34-04282020 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.00170	0.01252	108	70-140	
1,1-Dichloroethene	0.0100	0.000914 J	0.01085	99	58-148	
Benzene	0.0100	0.000176 U	0.01034	103	70-130	
Naphthalene	0.0100	0.00109 J	0.008516	74	10-150	
Tetrachloroethene	0.0100	0.000560 J	0.008071	75	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C12717.D

Lab ID: 600-204441-14 MSD Client ID: Artesia-MW34-04282020 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.01183	101	6	30	70-140	
1,1-Dichloroethene	0.0100	0.01040	95	4	30	58-148	
Benzene	0.0100	0.009632	96	7	30	70-130	
Naphthalene	0.0100	0.008314	72	2	30	10-150	
Tetrachloroethene	0.0100	0.007674	71	5	30	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab File ID: J12205.D Lab Sample ID: MB 600-293693/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHVOAMS06 Date Analyzed: 05/01/2020 16:46

GC Column: DB-VRX 60 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-293693/4	J12202.D	05/01/2020 15:22
	LCSD 600-293693/5	J12203.D	05/01/2020 15:50
Artesia-MW38-04272020	600-204441-1	J12214.D	05/01/2020 20:59
Artesia-MW12-04272020	600-204441-3	J12215.D	05/01/2020 21:27

FORM IV 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab File ID: C12605.D Lab Sample ID: MB 600-293862/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHVOAMS01 Date Analyzed: 05/05/2020 12:42

GC Column: DB-VRX 60 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-293862/3	C12602.D	05/05/2020 11:23
	LCSD 600-293862/4	C12603.D	05/05/2020 11:49
Artesia-MW38-04272020 DL	600-204441-1 DL	C12524.D	05/05/2020 21:12
Artesia-MW37-04272020	600-204441-5	C12525.D	05/05/2020 21:38
Artesia-MW36-04272020	600-204441-4	C12526.D	05/05/2020 22:04

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab File ID: C12705.D Lab Sample ID: MB 600-293940/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHVOAMS01 Date Analyzed: 05/06/2020 12:31

GC Column: DB-VRX 60 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-293940/3	C12702.D	05/06/2020 11:14
	LCSD 600-293940/4	C12703.D	05/06/2020 11:40
Artesia-TB0-04272020	600-204441-2	C12706.D	05/06/2020 12:56
Artesia-MD37-04272020	600-204441-6	C12709.D	05/06/2020 14:14
Artesia-MW34-04282020	600-204441-14	C12710.D	05/06/2020 14:39
Artesia-MW22-04272020	600-204441-7	C12711.D	05/06/2020 15:05
Artesia-MW25-04272020	600-204441-8	C12712.D	05/06/2020 15:31
Artesia-MW32-04272020	600-204441-9	C12713.D	05/06/2020 15:57
Artesia-Outlet-04282020	600-204441-10	C12714.D	05/06/2020 16:23
Artesia-MID-04282020	600-204441-11	C12715.D	05/06/2020 16:48
Artesia-MW34-04282020 MS	600-204441-14 MS	C12716.D	05/06/2020 17:14
Artesia-MW34-04282020 MSD	600-204441-14 MSD	C12717.D	05/06/2020 17:40
Artesia-Inlet-04282020	600-204441-12	C12719.D	05/06/2020 18:31
Artesia-MW28-04282020	600-204441-13	C12720.D	05/06/2020 18:57
Artesia-MW31-04282020	600-204441-15	C12721.D	05/06/2020 19:23
Artesia-MW11-04282020	600-204441-16	C12722.D	05/06/2020 19:49
Artesia-MW35-04282020	600-204441-17	C12723.D	05/06/2020 20:14
Artesia-MW29-04282020	600-204441-18	C12724.D	05/06/2020 20:40
Artesia-MW30-04282020	600-204441-19	C12725.D	05/06/2020 21:05
Artesia-MD30-04282020	600-204441-20	C12726.D	05/06/2020 21:31

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab File ID: C11200.D BFB Injection Date: 04/21/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 17:07

Analysis Batch No.: 292951

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.2	
75	30.0 - 60.0 % of mass 95	46.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	76.6	
175	5.0 - 9.0 % of mass 174	5.6	(7.3) 1
176	95.0 - 101.0 % of mass 174	73.9	(96.4) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 600-292951/2	C11201.D	04/21/2020	17:33
	IC 600-292951/3	C11202.D	04/21/2020	17:58
	IC 600-292951/4	C11203.D	04/21/2020	18:24
	IC 600-292951/5	C11204.D	04/21/2020	18:50
	ICIS 600-292951/6	C11205.D	04/21/2020	19:16
	IC 600-292951/7	C11206.D	04/21/2020	19:42
	IC 600-292951/8	C11207.D	04/21/2020	20:08
	ICV 600-292951/1012	C11211-ICV.d	04/21/2020	21:51

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab File ID: C12600.D BFB Injection Date: 05/05/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 10:13

Analysis Batch No.: 293862

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.3	
75	30.0 - 60.0 % of mass 95	48.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	68.1	
175	5.0 - 9.0 % of mass 174	4.9	(7.2) 1
176	95.0 - 101.0 % of mass 174	66.0	(96.9) 1
177	5.0 - 9.0 % of mass 176	4.3	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 600-293862/2	C12601.D	05/05/2020	10:39
	LCS 600-293862/3	C12602.D	05/05/2020	11:23
	LCSD 600-293862/4	C12603.D	05/05/2020	11:49
	MB 600-293862/6	C12605.D	05/05/2020	12:42
Artesia-MW38-04272020 DL	600-204441-1 DL	C12524.D	05/05/2020	21:12
Artesia-MW37-04272020	600-204441-5	C12525.D	05/05/2020	21:38
Artesia-MW36-04272020	600-204441-4	C12526.D	05/05/2020	22:04

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab File ID: C12700.D BFB Injection Date: 05/06/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 10:10

Analysis Batch No.: 293940

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.4	
75	30.0 - 60.0 % of mass 95	49.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	65.4	
175	5.0 - 9.0 % of mass 174	4.9	(7.4) 1
176	95.0 - 101.0 % of mass 174	62.9	(96.1) 1
177	5.0 - 9.0 % of mass 176	5.0	(8.0) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 600-293940/2	C12701.D	05/06/2020	10:36
	LCS 600-293940/3	C12702.D	05/06/2020	11:14
	LCSD 600-293940/4	C12703.D	05/06/2020	11:40
	MB 600-293940/6	C12705.D	05/06/2020	12:31
Artesia-TB0-04272020	600-204441-2	C12706.D	05/06/2020	12:56
Artesia-MD37-04272020	600-204441-6	C12709.D	05/06/2020	14:14
Artesia-MW34-04282020	600-204441-14	C12710.D	05/06/2020	14:39
Artesia-MW22-04272020	600-204441-7	C12711.D	05/06/2020	15:05
Artesia-MW25-04272020	600-204441-8	C12712.D	05/06/2020	15:31
Artesia-MW32-04272020	600-204441-9	C12713.D	05/06/2020	15:57
Artesia-Outlet-04282020	600-204441-10	C12714.D	05/06/2020	16:23
Artesia-MID-04282020	600-204441-11	C12715.D	05/06/2020	16:48
Artesia-MW34-04282020 MS	600-204441-14 MS	C12716.D	05/06/2020	17:14
Artesia-MW34-04282020 MSD	600-204441-14 MSD	C12717.D	05/06/2020	17:40
Artesia-Inlet-04282020	600-204441-12	C12719.D	05/06/2020	18:31
Artesia-MW28-04282020	600-204441-13	C12720.D	05/06/2020	18:57
Artesia-MW31-04282020	600-204441-15	C12721.D	05/06/2020	19:23
Artesia-MW11-04282020	600-204441-16	C12722.D	05/06/2020	19:49
Artesia-MW35-04282020	600-204441-17	C12723.D	05/06/2020	20:14
Artesia-MW29-04282020	600-204441-18	C12724.D	05/06/2020	20:40
Artesia-MW30-04282020	600-204441-19	C12725.D	05/06/2020	21:05
Artesia-MD30-04282020	600-204441-20	C12726.D	05/06/2020	21:31

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab File ID: J06900B.D BFB Injection Date: 03/09/2020

Instrument ID: CHVOAMS06 BFB Injection Time: 14:44

Analysis Batch No.: 289750

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.2	
75	30.0 - 60.0 % of mass 95	59.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.2	(0.3) 1
174	50.0 - 120.00 % of mass 95	70.9	
175	5.0 - 9.0 % of mass 174	6.3	(8.8) 1
176	95.0 - 101.0 % of mass 174	68.7	(96.9) 1
177	5.0 - 9.0 % of mass 176	4.9	(7.1) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 600-289750/3	J06901.D	03/09/2020	15:30
	IC 600-289750/4	J06902.D	03/09/2020	15:58
	IC 600-289750/5	J06903.D	03/09/2020	16:26
	IC 600-289750/6	J06904.D	03/09/2020	16:54
	ICIS 600-289750/7	J06905.D	03/09/2020	17:21
	IC 600-289750/8	J06906.D	03/09/2020	17:49
	IC 600-289750/9	J06907.D	03/09/2020	18:18
	ICV 600-289750/1013	J06911-ICV.d	03/09/2020	20:10

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab File ID: J12200E.D BFB Injection Date: 05/01/2020

Instrument ID: CHVOAMS06 BFB Injection Time: 13:31

Analysis Batch No.: 293693

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.7	
75	30.0 - 60.0 % of mass 95	57.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.2	
173	Less than 2.0 % of mass 174	0.7	(1.0) 1
174	50.0 - 120.00 % of mass 95	69.6	
175	5.0 - 9.0 % of mass 174	3.9	(5.5) 1
176	95.0 - 101.0 % of mass 174	66.7	(95.9) 1
177	5.0 - 9.0 % of mass 176	4.8	(7.3) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 600-293693/3	J12201A.D	05/01/2020	14:54
	LCS 600-293693/4	J12202.D	05/01/2020	15:22
	LCSD 600-293693/5	J12203.D	05/01/2020	15:50
	MB 600-293693/7	J12205.D	05/01/2020	16:46
Artesia-MW38-04272020	600-204441-1	J12214.D	05/01/2020	20:59
Artesia-MW12-04272020	600-204441-3	J12215.D	05/01/2020	21:27

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Sample No.: ICIS 600-292951/6 Date Analyzed: 04/21/2020 19:16

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C11205.D Heated Purge: (Y/N) N

Calibration ID: 18007

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		573225	8.48	200053	11.48	173570	14.06
UPPER LIMIT		1146450	8.98	400106	11.98	347140	14.56
LOWER LIMIT		286613	7.98	100027	10.98	86785	13.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 600-292951/1012		567317	8.49	193880	11.47	174429	14.06
CCVIS 600-293862/2		421055	8.48	149382	11.47	141039	14.06
CCVIS 600-293940/2		428903	8.48	144020	11.47	119224	14.06

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Sample No.: CCVIS 600-293862/2 Date Analyzed: 05/05/2020 10:39

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C12601.D Heated Purge: (Y/N) N

Calibration ID: 18007

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		421055	8.48	149382	11.47	141039	14.06
UPPER LIMIT		842110	8.98	298764	11.97	282078	14.56
LOWER LIMIT		210528	7.98	74691	10.97	70520	13.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 600-293862/3		459976	8.48	153823	11.47	146771	14.06
LCSD 600-293862/4		471111	8.48	155880	11.48	150570	14.06
MB 600-293862/6		444262	8.49	158375	11.48	145256	14.06
600-204441-1 DL	Artesia-MW38-04272020 DL	431744	8.49	154929	11.48	147819	14.06
600-204441-5	Artesia-MW37-04272020	437611	8.49	160070	11.47	148725	14.06
600-204441-4	Artesia-MW36-04272020	440027	8.49	160244	11.47	167004	14.06

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Sample No.: CCVIS 600-293940/2 Date Analyzed: 05/06/2020 10:36

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C12701.D Heated Purge: (Y/N) N

Calibration ID: 18007

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		428903	8.48	144020	11.47	119224	14.06
UPPER LIMIT		857806	8.98	288040	11.97	238448	14.56
LOWER LIMIT		214452	7.98	72010	10.97	59612	13.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 600-293940/3		408298	8.48	143783	11.47	127288	14.05
LCSD 600-293940/4		412136	8.48	146680	11.47	129793	14.06
MB 600-293940/6		389659	8.49	137646	11.47	125004	14.06
600-204441-2	Artesia-TB0-04272020	388890	8.49	136800	11.47	123314	14.06
600-204441-6	Artesia-MD37-04272020	408049	8.48	146965	11.47	139764	14.06
600-204441-14	Artesia-MW34-04282020	406817	8.48	145750	11.47	135154	14.06
600-204441-7	Artesia-MW22-04272020	377474	8.48	138891	11.47	125540	14.06
600-204441-8	Artesia-MW25-04272020	375794	8.48	135412	11.48	125971	14.06
600-204441-9	Artesia-MW32-04272020	370444	8.48	135963	11.48	124610	14.06
600-204441-10	Artesia-Outlet-042820 20	366380	8.49	134170	11.47	119595	14.06
600-204441-11	Artesia-MID-04282020	363578	8.49	132568	11.47	119917	14.06
600-204441-14 MS	Artesia-MW34-04282020 MS	380462	8.49	141300	11.47	126505	14.06
600-204441-14 MSD	Artesia-MW34-04282020 MSD	382596	8.49	142064	11.47	127973	14.06
600-204441-12	Artesia-Inlet-0428202 0	370371	8.49	136606	11.47	123984	14.06
600-204441-13	Artesia-MW28-04282020	373265	8.48	135204	11.47	123728	14.06
600-204441-15	Artesia-MW31-04282020	357529	8.49	129253	11.47	114753	14.06
600-204441-16	Artesia-MW11-04282020	350707	8.48	127312	11.47	112914	14.06
600-204441-17	Artesia-MW35-04282020	350493	8.48	127142	11.48	111884	14.06
600-204441-18	Artesia-MW29-04282020	349181	8.48	127358	11.48	111992	14.06
600-204441-19	Artesia-MW30-04282020	338493	8.49	123233	11.47	106192	14.06
600-204441-20	Artesia-MD30-04282020	343812	8.49	123601	11.47	107377	14.06

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Sample No.: ICIS 600-289750/7 Date Analyzed: 03/09/2020 17:21

Instrument ID: CHVOAMS06 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): J06905.D Heated Purge: (Y/N) N

Calibration ID: 17918

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		235492	8.43	128888	11.40	121028	14.02
UPPER LIMIT		470984	8.93	257776	11.90	242056	14.52
LOWER LIMIT		117746	7.93	64444	10.90	60514	13.52
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 600-289750/1013		241476	8.43	138931	11.39	127882	14.01
CCVIS 600-293693/3		374835	8.44	244824	11.39	225342	14.02

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Sample No.: CCVIS 600-293693/3 Date Analyzed: 05/01/2020 14:54

Instrument ID: CHVOAMS06 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): J12201A.D Heated Purge: (Y/N) N

Calibration ID: 17918

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		374835	8.44	244824	11.39	225342	14.02
UPPER LIMIT		749670	8.94	489648	11.89	450684	14.52
LOWER LIMIT		187418	7.94	122412	10.89	112671	13.52
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 600-293693/4		309269	8.43	239178	11.40	235271	14.02
LCSD 600-293693/5		402541	8.43	274925	11.39	267402	14.02
MB 600-293693/7		333891	8.43	236482	11.40	263330	14.01
600-204441-1	Artesia-MW38-04272020	312671	8.44	222147	11.40	231751	14.01
600-204441-3	Artesia-MW12-04272020	312518	8.44	231399	11.40	226773	14.02

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW38-04272020 Lab Sample ID: 600-204441-1

Matrix: Water Lab File ID: J12214.D

Analysis Method: 8260B Date Collected: 04/27/2020 12:30

Sample wt/vol: 20(mL) Date Analyzed: 05/01/2020 20:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293693 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00740		0.00100	0.000192
71-43-2	Benzene	0.00112		0.00100	0.000176
91-20-3	Naphthalene	0.00530	B	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00673		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		50-134
460-00-4	4-Bromofluorobenzene	92		67-139
1868-53-7	Dibromofluoromethane	119		62-130
2037-26-5	Toluene-d8 (Surr)	84		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW38-04272020 DL Lab Sample ID: 600-204441-1 DL

Matrix: Water Lab File ID: C12524.D

Analysis Method: 8260B Date Collected: 04/27/2020 12:30

Sample wt/vol: 20(mL) Date Analyzed: 05/05/2020 21:12

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293862 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.120		0.00500	0.000840

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		50-134
460-00-4	4-Bromofluorobenzene	113		67-139
1868-53-7	Dibromofluoromethane	98		62-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-TB0-04272020 Lab Sample ID: 600-204441-2

Matrix: Water Lab File ID: C12706.D

Analysis Method: 8260B Date Collected: 04/27/2020 12:00

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 12:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		50-134
460-00-4	4-Bromofluorobenzene	116		67-139
1868-53-7	Dibromofluoromethane	98		62-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW12-04272020 Lab Sample ID: 600-204441-3

Matrix: Water Lab File ID: J12215.D

Analysis Method: 8260B Date Collected: 04/27/2020 13:41

Sample wt/vol: 20(mL) Date Analyzed: 05/01/2020 21:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293693 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0319		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00135		0.00100	0.000192
71-43-2	Benzene	0.00528		0.00100	0.000176
91-20-3	Naphthalene	0.00776	B	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000529	J	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		50-134
460-00-4	4-Bromofluorobenzene	94		67-139
1868-53-7	Dibromofluoromethane	118		62-130
2037-26-5	Toluene-d8 (Surr)	82		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW36-04272020 Lab Sample ID: 600-204441-4

Matrix: Water Lab File ID: C12526.D

Analysis Method: 8260B Date Collected: 04/27/2020 14:44

Sample wt/vol: 20(mL) Date Analyzed: 05/05/2020 22:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293862 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0408		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.0198		0.00100	0.000176
91-20-3	Naphthalene	0.00991		0.00200	0.000129
127-18-4	Tetrachloroethene	0.00807		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		50-134
460-00-4	4-Bromofluorobenzene	110		67-139
1868-53-7	Dibromofluoromethane	101		62-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW37-04272020 Lab Sample ID: 600-204441-5

Matrix: Water Lab File ID: C12525.D

Analysis Method: 8260B Date Collected: 04/27/2020 16:35

Sample wt/vol: 20(mL) Date Analyzed: 05/05/2020 21:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293862 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0347		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00207		0.00100	0.000192
71-43-2	Benzene	0.00258		0.00100	0.000176
91-20-3	Naphthalene	0.00830		0.00200	0.000129
127-18-4	Tetrachloroethene	0.00236		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		50-134
460-00-4	4-Bromofluorobenzene	114		67-139
1868-53-7	Dibromofluoromethane	99		62-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MD37-04272020 Lab Sample ID: 600-204441-6

Matrix: Water Lab File ID: C12709.D

Analysis Method: 8260B Date Collected: 04/27/2020 16:35

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 14:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0497		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00474		0.00100	0.000192
71-43-2	Benzene	0.00442		0.00100	0.000176
91-20-3	Naphthalene	0.0128		0.00200	0.000129
127-18-4	Tetrachloroethene	0.00257		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		50-134
460-00-4	4-Bromofluorobenzene	113		67-139
1868-53-7	Dibromofluoromethane	99		62-130
2037-26-5	Toluene-d8 (Surr)	90		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW22-04272020 Lab Sample ID: 600-204441-7

Matrix: Water Lab File ID: C12711.D

Analysis Method: 8260B Date Collected: 04/27/2020 16:10

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 15:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00167		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000437	J	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		50-134
460-00-4	4-Bromofluorobenzene	116		67-139
1868-53-7	Dibromofluoromethane	97		62-130
2037-26-5	Toluene-d8 (Surr)	88		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW25-04272020 Lab Sample ID: 600-204441-8

Matrix: Water Lab File ID: C12712.D

Analysis Method: 8260B Date Collected: 04/27/2020 15:55

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 15:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00171		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00167		0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00119		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		50-134
460-00-4	4-Bromofluorobenzene	114		67-139
1868-53-7	Dibromofluoromethane	98		62-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW32-04272020 Lab Sample ID: 600-204441-9

Matrix: Water Lab File ID: C12713.D

Analysis Method: 8260B Date Collected: 04/27/2020 16:25

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 15:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		50-134
460-00-4	4-Bromofluorobenzene	116		67-139
1868-53-7	Dibromofluoromethane	98		62-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-Outlet-04282020 Lab Sample ID: 600-204441-10

Matrix: Water Lab File ID: C12714.D

Analysis Method: 8260B Date Collected: 04/28/2020 09:00

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 16:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00202		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		50-134
460-00-4	4-Bromofluorobenzene	116		67-139
1868-53-7	Dibromofluoromethane	98		62-130
2037-26-5	Toluene-d8 (Surr)	91		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MID-04282020 Lab Sample ID: 600-204441-11

Matrix: Water Lab File ID: C12715.D

Analysis Method: 8260B Date Collected: 04/28/2020 09:05

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 16:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00348		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00865		0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		50-134
460-00-4	4-Bromofluorobenzene	121		67-139
1868-53-7	Dibromofluoromethane	99		62-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-Inlet-04282020 Lab Sample ID: 600-204441-12

Matrix: Water Lab File ID: C12719.D

Analysis Method: 8260B Date Collected: 04/28/2020 09:10

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 18:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00279		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00917		0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00660		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		50-134
460-00-4	4-Bromofluorobenzene	119		67-139
1868-53-7	Dibromofluoromethane	100		62-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW28-04282020 Lab Sample ID: 600-204441-13

Matrix: Water Lab File ID: C12720.D

Analysis Method: 8260B Date Collected: 04/28/2020 09:40

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 18:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00438		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.0101		0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00808		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		50-134
460-00-4	4-Bromofluorobenzene	115		67-139
1868-53-7	Dibromofluoromethane	98		62-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW34-04282020 Lab Sample ID: 600-204441-14

Matrix: Water Lab File ID: C12710.D

Analysis Method: 8260B Date Collected: 04/28/2020 10:15

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00170		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000914	J	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.00109	J	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000560	J	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		50-134
460-00-4	4-Bromofluorobenzene	114		67-139
1868-53-7	Dibromofluoromethane	97		62-130
2037-26-5	Toluene-d8 (Surr)	90		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW31-04282020 Lab Sample ID: 600-204441-15

Matrix: Water Lab File ID: C12721.D

Analysis Method: 8260B Date Collected: 04/28/2020 10:45

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 19:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00168		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		50-134
460-00-4	4-Bromofluorobenzene	123		67-139
1868-53-7	Dibromofluoromethane	97		62-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW11-04282020 Lab Sample ID: 600-204441-16

Matrix: Water Lab File ID: C12722.D

Analysis Method: 8260B Date Collected: 04/28/2020 10:18

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 19:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00645		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		50-134
460-00-4	4-Bromofluorobenzene	119		67-139
1868-53-7	Dibromofluoromethane	99		62-130
2037-26-5	Toluene-d8 (Surr)	89		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW35-04282020 Lab Sample ID: 600-204441-17

Matrix: Water Lab File ID: C12723.D

Analysis Method: 8260B Date Collected: 04/28/2020 11:10

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 20:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.0158		0.00100	0.000192
127-18-4	Tetrachloroethene	0.0116		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		50-134
460-00-4	4-Bromofluorobenzene	118		67-139
1868-53-7	Dibromofluoromethane	98		62-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW29-04282020 Lab Sample ID: 600-204441-18

Matrix: Water Lab File ID: C12724.D

Analysis Method: 8260B Date Collected: 04/28/2020 11:19

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 20:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0111		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.0252		0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.0205		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		50-134
460-00-4	4-Bromofluorobenzene	118		67-139
1868-53-7	Dibromofluoromethane	98		62-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW30-04282020 Lab Sample ID: 600-204441-19

Matrix: Water Lab File ID: C12725.D

Analysis Method: 8260B Date Collected: 04/28/2020 11:40

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 21:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00100		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00266		0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00280		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		50-134
460-00-4	4-Bromofluorobenzene	120		67-139
1868-53-7	Dibromofluoromethane	98		62-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MD30-04282020 Lab Sample ID: 600-204441-20

Matrix: Water Lab File ID: C12726.D

Analysis Method: 8260B Date Collected: 04/28/2020 11:45

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 21:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00103		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00281		0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00283		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		50-134
460-00-4	4-Bromofluorobenzene	118		67-139
1868-53-7	Dibromofluoromethane	96		62-130
2037-26-5	Toluene-d8 (Surr)	90		70-130

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-292951/2	C11201.D
Level 2	IC 600-292951/3	C11202.D
Level 3	IC 600-292951/4	C11203.D
Level 4	IC 600-292951/5	C11204.D
Level 5	ICIS 600-292951/6	C11205.D
Level 6	IC 600-292951/7	C11206.D
Level 7	IC 600-292951/8	C11207.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.1689 0.2250	0.1808 0.2144	0.1926	0.2275	0.2228	Ave		0.2046				11.6		15.0			
Chloromethane	0.1844 0.1407	0.1600 0.1411	0.1387	0.1458	0.1438	Ave		0.1506			0.1000	11.0		15.0			
Vinyl chloride	0.1248 0.1231	0.1340 0.0828	0.1382	0.1563	0.1436	Qua	-0.001	0.1536	-0.001418						0.9990		0.9900
Butadiene	0.1440 0.1569	0.1530 0.1181	0.1558	0.1836	0.1712	Ave		0.1546				13.4		15.0			
Bromomethane	0.0909 0.1349	0.1049 0.1315	0.1043	0.1275	0.1338	Qua	-0.045	0.1397	-0.000146						1.0000		0.9900
Chloroethane	0.1254 0.1572	0.1471 0.1446	0.1444	0.1679	0.1624	Ave		0.1498				9.4		15.0			
Dichlorofluoromethane	0.3204 0.3849	0.3463 0.3553	0.3428	0.3976	0.3943	Ave		0.3631				8.1		15.0			
Acrolein	0.0168 0.0123	0.0142 0.0120	0.0134	0.0135	0.0125	Ave		0.0135				12.1		15.0			
Trichlorofluoromethane	0.3248 0.4142	0.3568 0.3443	0.3766	0.4333	0.4254	Ave		0.3822				11.2		15.0			
Acetonitrile	0.0104 0.0080	0.0106 0.0075	0.0113	0.0082	0.0084	Lin1	0.0278	0.0077							0.9950		0.9900
Isopropyl alcohol	0.0066 0.0036	0.0050 0.0036	0.0051	0.0039	0.0037	Lin2	0.0149	0.0037							0.9910		0.9900
Acetone	0.0728 0.0210	0.0391 0.0201	0.0309	0.0239	0.0217	Lin1	0.0479	0.0196							0.9990		0.9900
Ethyl ether	0.1784 0.1419	0.1751 0.1303	0.1740	0.1546	0.1531	Ave		0.1582				11.6		15.0			
t-Butanol	0.0102 0.0072	0.0092 0.0071	0.0094	0.0084	0.0081	Ave		0.0085				13.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloroethene	0.3234 0.2242	0.2995 0.1909	0.2932	0.2562	0.2407	Qua	0.0731	0.2429	-0.001071						1.0000		0.9900
Acrylonitrile	0.0213 0.0196	0.0228 0.0179	0.0224	0.0207	0.0203	Ave		0.0207				8.0		15.0			
Iodomethane	0.3290 0.3183	0.3600 0.2781	0.3664	0.3454	0.3344	Ave		0.3331				8.9		15.0			
Methylene Chloride	1.0237 0.2103	0.5773 0.1734	0.4141	0.2878	0.2431	Lin1	0.4383	0.1762							0.9910		0.9900
Methyl acetate	0.0721 0.0544	0.0650 0.0520	0.0697	0.0614	0.0602	Ave		0.0621				12.0		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2931 0.2074	0.2452 0.1749	0.2628	0.2319	0.2134	Lin1	0.0832	0.1867							0.9900		0.9900
3-Chloro-1-propene	0.2025 0.1492	0.1917 0.1313	0.1917	0.1718	0.1611	Lin1	0.0588	0.1388							0.9920		0.9900
Carbon disulfide	1.0573 0.6293	0.8416 0.5527	0.8416	0.7395	0.6740	Lin1	0.3280	0.5810							0.9920		0.9900
trans-1,2-Dichloroethene	0.3685 0.2484	0.3311 0.2154	0.3197	0.2846	0.2695	Lin1	0.1132	0.2284							0.9910		0.9900
Methyl tert-butyl ether	0.6537 0.4627	0.6314 0.4104	0.6035	0.5326	0.5068	Lin1	0.2000	0.4324							0.9920		0.9900
1,1-Dichloroethane	0.6431 0.4353	0.5923 0.3655	0.5694	0.5107	0.4741	Qua	0.1558	0.4762	-0.002280		0.1000				1.0000		0.9900
Propionitrile	0.0105 0.0095	0.0106 0.0088	0.0109	0.0104	0.0094	Ave		0.0100				7.8		15.0			
Vinyl acetate	0.2992 0.2519	0.2878 0.2382	0.2879	0.2780	0.2664	Ave		0.2728				8.0		15.0			
2-Chloro-1,3-butadiene	0.5550 0.3514	0.4768 0.2772	0.5014	0.4366	0.3952	Qua	0.1590	0.3969	-0.002462						1.0000		0.9900
Hexane	0.5514 0.3092	0.4536 0.2238	0.4746	0.3929	0.3508	Qua	0.1649	0.3590	-0.002772						1.0000		0.9900
Isopropyl ether	1.2625 0.7094	1.1648 0.5303	1.1079	0.9388	0.8322	Qua	0.4895	0.8172	-0.005946						0.9990		0.9900
2-Butanone (MEK)	0.0118 0.0115	0.0136 0.0102	0.0130	0.0124	0.0125	Ave		0.0122				9.1		15.0			
Methacrylonitrile	0.0127 0.0118	0.0132 0.0103	0.0139	0.0134	0.0125	Ave		0.0125				9.6		15.0			
cis-1,2-Dichloroethene	0.3646 0.2569	0.3362 0.2284	0.3262	0.2940	0.2770	Lin1	0.1043	0.2400							0.9930		0.9900
Ethyl acetate	0.0833 0.0889	0.0957 0.0881	0.0955	0.0907	0.0918	Ave		0.0906				4.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobromomethane	0.1204 0.0932	0.1135 0.0760	0.1161	0.1065	0.1062	Ave		0.1045				14.7		15.0			
Tert-butyl ethyl ether	1.0329 0.6704	0.9692 0.5088	0.9510	0.8400	0.7828	Qua	0.3053	0.7777	-0.005510						1.0000		0.9900
Chloroform	0.6113 0.3779	0.5549 0.3072	0.5337	0.4679	0.4265	Qua	0.1936	0.4204	-0.002345						1.0000		0.9900
Isobutyl alcohol	0.0087 0.0056	0.0069 0.0046	0.0081	0.0063	0.0061	Qua	0.0428	0.0062	-0.000001						1.0000		0.9900
2,2-Dichloropropane	0.6555 0.4384	0.5622 0.3712	0.5657	0.5177	0.4744	Qua	0.1487	0.4780	-0.002199						1.0000		0.9900
Tetrahydrofuran	0.0207 0.0197	0.0295 0.0202	0.0259	0.0203	0.0199	Lin1	0.0084	0.0200							0.9970		0.9900
1,2-Dichloroethane	0.2554 0.2093	0.2533 0.1948	0.2480	0.2272	0.2187	Ave		0.2295				10.2		15.0			
1,1,1-Trichloroethane	0.6062 0.4111	0.5394 0.3476	0.5462	0.4807	0.4458	Qua	0.1463	0.4479	-0.002067						1.0000		0.9900
n-Butanol	0.0029 0.0016	0.0023 0.0015	0.0021	0.0017	0.0017	Lin2	0.0172	0.0016							0.9950		0.9900
1,1-Dichloropropene	0.4772 0.3471	0.4273 0.2931	0.4288	0.4063	0.3729	Qua	0.0893	0.3802	-0.001779						1.0000		0.9900
Cyclohexane	0.6005 0.3919	0.5127 0.3225	0.5304	0.4589	0.4238	Qua	0.1381	0.4313	-0.002234						1.0000		0.9900
Carbon tetrachloride	0.5164 0.3593	0.4624 0.2995	0.4688	0.4186	0.3871	Qua	0.1106	0.3943	-0.001942						1.0000		0.9900
Benzene	1.4493 0.8969	1.2919 0.7111	1.2625	1.0982	1.0071	Qua	0.4151	1.0082	-0.006118						1.0000		0.9900
Tert-amyl methyl ether	0.7825 0.5532	0.7690 0.4998	0.7418	0.6506	0.6140	Lin1	0.2434	0.5241							0.9920		0.9900
Isooctane	1.1516 0.7345	0.9905 0.6071	1.0044	0.8568	0.7913	Qua	0.2779	0.8038	-0.004048						1.0000		0.9900
Ethyl acrylate	0.2137 0.1848	0.2341 0.1660	0.2051	0.1931	0.1956	Ave		0.1989				10.9		15.0			
n-Heptane	0.4436 0.3202	0.4075 0.2630	0.4208	0.3608	0.3380	Qua	0.0786	0.3519	-0.001809						1.0000		0.9900
Dibromomethane	0.0950 0.0733	0.0818 0.0656	0.0912	0.0812	0.0793	Ave		0.0811				12.3		15.0			
1,2-Dichloropropane	0.3042 0.2032	0.2913 0.1629	0.2816	0.2496	0.2294	Qua	0.0901	0.2284	-0.001348						1.0000		0.9900
2-Nitropropane	0.0377 0.0260	0.0310 0.0223	0.0315	0.0268	0.0281	Lin2	0.0124	0.0256							0.9910		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Trichloroethene	0.3775 0.2564	0.3424 0.2100	0.3384	0.3003	0.2805	Qua	0.0850	0.2842	-0.001519						1.0000		0.9900
Bromodichloromethane	0.3598 0.2781	0.3468 0.2458	0.3448	0.3154	0.2981	Ave		0.3127				13.2		15.0			
Methyl methacrylate	0.1271 0.1017	0.1161 0.0916	0.1160	0.1095	0.1088	Ave		0.1101				10.3		15.0			
1,4-Dioxane	0.0003 0.0006	0.0004 0.0005	0.0005	0.0005	0.0006	Lin2	-0.002	0.0006							1.0000		0.9900
2-Chloroethyl vinyl ether	0.0212 0.0557	0.0326	0.0343	0.0438	0.0496	Lin1	-0.045	0.0539							0.9930		0.9900
Methylcyclohexane	0.6549 0.4350	0.5598 0.3576	0.5752	0.5079	0.4697	Qua	0.1389	0.4798	-0.002502						1.0000		0.9900
cis-1,3-Dichloropropene	1.1870 0.8798	1.1097	1.0888	0.9994	0.9459	Ave		1.0351				11.0		15.0			
4-Methyl-2-pentanone (MIBK)	0.0934 0.0872	0.1032 0.0831	0.0960	0.0925	0.0911	Ave		0.0924				6.9		15.0			
trans-1,3-Dichloropropene	0.7342 0.5933	0.7047	0.6760	0.6444	0.6312	Ave		0.6639				7.7		15.0			
1,1,2-Trichloroethane	0.4306 0.3288	0.4129	0.4078	0.3682	0.3508	Ave		0.3832				10.4		15.0			
Ethyl methacrylate	0.5351 0.4046	0.4913	0.4958	0.4427	0.4334	Ave		0.4672				10.3		15.0			
Toluene	2.5027 1.6203	2.1978	2.1767	1.9476	1.7999	Lin2	0.3831	1.7950							0.9920		0.9900
1,3-Dichloropropane	0.7244 0.5874	0.7245	0.7126	0.6604	0.6319	Ave		0.6735				8.4		15.0			
2-Hexanone	0.1475 0.1488	0.1464	0.1806	0.1535	0.1541	Ave		0.1551				8.3		15.0			
Dibromochloromethane	0.5010 0.4284	0.5084	0.4989	0.4648	0.4481	Ave		0.4749				6.9		15.0			
n-Butyl acetate	0.4772 0.4171	0.4542	0.4701	0.4295	0.4265	Ave		0.4458				5.6		15.0			
1,2-Dibromoethane	0.3601 0.3059	0.3554	0.3515	0.3290	0.3202	Ave		0.3370				6.5		15.0			
Tetrachloroethene	0.7522 0.5435	0.6874	0.7086	0.6315	0.5906	Ave		0.6523				12.0		15.0			
1-Chlorohexane	0.8725 0.5842	0.7579	0.7616	0.6773	0.6275	Ave		0.7135				14.7		15.0			
1,1,1,2-Tetrachloroethane	0.8784 0.6665	0.8150 0.5842	0.8130	0.7650	0.7163	Ave		0.7483				13.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobenzene	2.1979 1.5691	2.0315	2.0117	1.8187	1.7133	Ave		1.8904			0.3000	12.3		15.0			
Ethylbenzene	1.3811 0.9703	1.2757	1.2609	1.1405	1.0585	Ave		1.1812				12.9		15.0			
m-Xylene & p-Xylene	3.1487 2.1123	2.8080	2.7284	2.4638	2.3076	Ave		2.5948				14.4		15.0			
Bromoform	0.2069 0.1826	0.1953	0.1981	0.1890	0.1893	Ave		0.1935			0.1000	4.4		15.0			
Styrene	2.1458 1.5962	1.9723	1.9470	1.8133	1.7291	Ave		1.8673				10.5		15.0			
o-Xylene	1.5840 1.0809	1.4610	1.4228	1.3089	1.1968	Ave		1.3424				13.7		15.0			
1,1,2,2-Tetrachloroethane	0.4155 0.2935	0.3773 0.2732	0.3747	0.3418	0.3172	Ave		0.3419			0.3000	14.8		15.0			
trans-1,4-Dichloro-2-butene	0.0534 0.0795	0.0691 0.0864	0.0738	0.0752	0.0773	Ave		0.0735				14.1		15.0			
1,2,3-Trichloropropane	0.1112 0.1019	0.1077 0.1024	0.1148	0.1092	0.1057	Ave		0.1076				4.4		15.0			
Isopropylbenzene	4.2717 3.0143	3.8107 2.4922	3.8575	3.5990	3.3107	Qua	0.9252	3.3463	-0.017478						1.0000		0.9900
Bromobenzene	0.8294 0.6489	0.7878 0.6134	0.7506	0.7261	0.6877	Ave		0.7206				10.6		15.0			
N-Propylbenzene	1.1393 0.8558	1.0288 0.7411	1.0624	0.9884	0.9288	Ave		0.9635				13.9		15.0			
2-Chlorotoluene	0.9732 0.7061	0.8850 0.6398	0.8804	0.8199	0.7651	Ave		0.8099				14.2		15.0			
4-Chlorotoluene	2.7104 2.0496	2.5423 1.8145	2.5296	2.3929	2.2196	Ave		2.3227				13.5		15.0			
1,3,5-Trimethylbenzene	3.5604 2.4237	3.1455 2.0814	3.1326	2.9028	2.6597	Qua	0.9081	2.6357	-0.011474						1.0000		0.9900
tert-Butylbenzene	2.9408 2.0042	2.6637 1.7266	2.6206	2.4066	2.1994	Qua	0.7995	2.1729	-0.009266						1.0000		0.9900
1,2,4-Trimethylbenzene	3.7774 2.5257	3.3827 2.1803	3.3027	3.0473	2.7788	Qua	1.0480	2.7358	-0.011557						1.0000		0.9900
sec-Butylbenzene	4.3345 2.9224	3.8203 2.5407	3.8528	3.5324	3.1897	Qua	1.2140	3.1483	-0.012669						1.0000		0.9900
Benzyl chloride	0.9439 0.7038	0.8476 0.6436	0.8063	0.7630	0.7329	Ave		0.7773				12.8		15.0			
1,3-Dichlorobenzene	1.7779 1.3276	1.6685 1.1834	1.6309	1.5350	1.4343	Ave		1.5082				13.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
4-Isopropyltoluene	3.7150 2.3130	3.2757 1.8577	3.2103	2.8945	2.6116	Qua	1.1107	2.5941	-0.015202						1.0000		0.9900
1,4-Dichlorobenzene	1.8634 1.2508	1.7641 1.0089	1.7440	1.5395	1.3974	Qua	0.5561	1.3979	-0.008016						1.0000		0.9900
1,2,3-Trimethylbenzene	3.7450 2.5340	3.4328 2.1975	3.3267	3.0873	2.7937	Qua	1.1039	2.7393	-0.011308						1.0000		0.9900
1,2-Dichlorobenzene	1.5367 1.1695	1.4965 1.0569	1.4268	1.3227	1.2502	Ave		1.3228				13.3		15.0			
n-Butylbenzene	3.2423 2.2073	2.7260 1.9309	2.8200	2.5995	2.3868	Lin1	0.9284	2.0457							0.9910		0.9900
1,2-Dibromo-3-Chloropropane	0.0542 0.0624	0.0636 0.0627	0.0669	0.0645	0.0638	Ave		0.0626				6.3		15.0			
1,3,5-Trichlorobenzene	1.1549 0.8515	1.1035 0.7373	1.0860	0.9974	0.9325	Qua	0.2809	0.9240	-0.003855						1.0000		0.9900
1,2,4-Trichlorobenzene	0.6773 0.5630	0.7004 0.4997	0.7137	0.6534	0.6116	Ave		0.6313				12.4		15.0			
Naphthalene	1.1412 0.7895	1.0909 0.7065	1.0737	0.9390	0.8575	Lin1	0.3631	0.7418							0.9920		0.9900
Hexachlorobutadiene	0.2057 0.1502	0.1848 0.1286	0.1976	0.1764	0.1592	Qua	0.0473	0.1622	-0.000693						1.0000		0.9900
1,2,3-Trichlorobenzene	0.4729 0.3522	0.4870 0.3062	0.4795	0.4276	0.3978	Qua	0.1605	0.3830	-0.001605						1.0000		0.9900
Dibromofluoromethane	0.3606 0.2474	0.3226 0.2159	0.3177	0.2845	0.2684	Lin1	0.1076	0.2286							0.9910		0.9900
1,2-Dichloroethane-d4 (Surr)	0.3073 0.1951	0.2687 0.1977	0.2690	0.2392	0.2309	Lin2	0.0500	0.2163							0.9900		0.9900
Toluene-d8 (Surr)	4.2734 2.4242	3.4330	3.3831	3.0157	2.7479	Lin2	0.8124	2.6916							0.9910		0.9900
4-Bromofluorobenzene	1.9959 0.8522	1.1513 0.7779	1.0568	0.9772	0.9159	Lin1	0.5593	0.7947							0.9960		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-292951/2	C11201.D
Level 2	IC 600-292951/3	C11202.D
Level 3	IC 600-292951/4	C11203.D
Level 4	IC 600-292951/5	C11204.D
Level 5	ICIS 600-292951/6	C11205.D
Level 6	IC 600-292951/7	C11206.D
Level 7	IC 600-292951/8	C11207.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	3835 208031	8028 495811	17200	51860	102184	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloromethane	FB	Ave	4187 130089	7108 326318	12382	33239	65928	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Vinyl chloride	FB	Qua	2833 113864	5952 191450	12342	35616	65858	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Butadiene	FB	Ave	3268 145043	6793 273144	13910	41841	78524	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromomethane	FB	Qua	2063 124711	4661 304129	9317	29054	61337	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloroethane	FB	Ave	2846 145319	6532 334400	12897	38259	74462	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dichlorofluoromethane	FB	Ave	7272 355876	15381 821799	30607	90632	180836	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acrolein	FB	Ave	1906 56652	3159 139176	5964	15334	28631	2.50 100	5.00 250	10.0	25.0	50.0
Trichlorofluoromethane	FB	Ave	7372 383012	15847 796455	33632	98759	195076	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acetonitrile	FB	Lin1	2368 74346	4686 172694	10107	18682	38546	5.00 200	10.0 500	20.0	50.0	100
Isopropyl alcohol	FB	Lin2	1496 33255	2229 83398	4531	8948	17185	5.00 200	10.0 500	20.0	50.0	100
Acetone	FB	Lin1	3307 38868	3474 92937	5525	10909	19902	1.00 40.0	2.00 100	4.00	10.0	20.0
Ethyl ether	FB	Ave	4050 131206	7777 301463	15538	35245	70188	0.500 20.0	1.00 50.0	2.00	5.00	10.0
t-Butanol	FB	Ave	2317 66356	4099 164756	8354	19234	37353	5.00 200	10.0 500	20.0	50.0	100
1,1-Dichloroethene	FB	Qua	7341 207355	13300 441472	26184	58394	110390	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Ave	4826 181095	10115 414940	19985	47242	92903	5.00 200	10.0 500	20.0	50.0	100
Iodomethane	FB	Ave	7468 294320	15990 643249	32719	78727	153366	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methylene Chloride	FB	Lin1	23238 194490	25641 401014	36978	65594	111482	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl acetate	FB	Ave	3275 100627	5774 240483	12454	27968	55216	1.00 40.0	2.00 100	4.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Lin1	6653 191752	10892 404510	23466	52858	97847	0.500 20.0	1.00 50.0	2.00	5.00	10.0
3-Chloro-1-propene	FB	Lin1	4596 137969	8512 303732	17119	39167	73864	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon disulfide	FB	Lin1	24001 581874	37379 1278445	75151	168550	309102	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,2-Dichloroethene	FB	Lin1	8364 229707	14707 498169	28547	64861	123596	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl tert-butyl ether	FB	Lin1	14838 427810	28043 949245	53891	121390	232427	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1-Dichloroethane	FB	Qua	14599 402517	26305 845316	50847	116398	217406	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Propionitrile	FB	Ave	2383 88286	4694 202939	9767	23713	43278	5.00 200	10.0 500	20.0	50.0	100
Vinyl acetate	FB	Ave	13582 465892	25567 1101827	51425	126747	244304	1.00 40.0	2.00 100	4.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Qua	12599 324921	21178 641204	44769	99507	181253	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexane	FB	Qua	12516 285938	20144 517748	42378	89559	160855	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropyl ether	FB	Qua	28658 655958	51734 1226580	98934	213995	381649	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Ave	534 21281	1210 47408	2329	5653	11460	1.00 40.0	2.00 100	4.00	10.0	20.0
Methacrylonitrile	FB	Ave	2888 109237	5844 237276	12385	30508	57432	5.00 200	10.0 500	20.0	50.0	100
cis-1,2-Dichloroethene	FB	Lin1	8276 237546	14931 528224	29130	67019	127040	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acetate	FB	Ave	3783 164317	8500 407755	17059	41357	84189	1.00 40.0	2.00 100	4.00	10.0	20.0
Chlorobromomethane	FB	Ave	2732 86183	5040 175872	10363	24273	48682	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-butyl ethyl ether	FB	Qua	23446 619909	43045 1176845	84922	191467	358982	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chloroform	FB	Qua	13876 349428	24647 710635	47653	106647	195602	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Qua	4922 130466	7674 264002	18125	35722	69641	12.5 500	25.0 1250	50.0	125	250
2,2-Dichloropropane	FB	Qua	14879 405391	24970 858561	50514	117995	217538	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrahydrofuran	FB	Lin1	941 36378	2618 93625	4619	9261	18234	1.00 40.0	2.00 100	4.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	5797 193514	11251 450535	22144	51789	100300	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1-Trichloroethane	FB	Qua	13760 380154	23957 804014	48774	109559	204457	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butanol	FB	Lin2	1658 37238	2595 85816	4700	9620	19818	12.5 500	25.0 1250	50.0	125	250
1,1-Dichloropropene	FB	Qua	10832 320964	18977 678029	38291	92602	170987	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Cyclohexane	FB	Qua	13632 362380	22770 745851	47367	104610	194341	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Qua	11723 332254	20536 692665	41862	95409	177533	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzene	FB	Qua	32899 829308	57379 1644709	112734	250319	461828	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-amyl methyl ether	FB	Lin1	17763 511503	34154 1156082	66244	148304	281546	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isooctane	FB	Qua	26142 679195	43989 1404279	89689	195306	362865	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acrylate	FB	Ave	4851 170909	10395 383910	18311	44019	89710	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Heptane	FB	Qua	10069 296101	18098 608284	37573	82249	155021	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	2156 67738	3633 151702	8146	18504	36384	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Qua	6905 187881	12937 376728	25147	56884	105184	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Nitropropane	FB	Lin2	1710 48066	2754 103116	5623	12198	25778	1.00 40.0	2.00 100	4.00	10.0	20.0
Trichloroethene	FB	Qua	8570 237060	15209 485774	30219	68456	128642	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	8167 257191	15401 568607	30793	71880	136702	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl methacrylate	FB	Ave	5772 188060	10309 423907	20713	49907	99757	1.00 40.0	2.00 100	4.00	10.0	20.0

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	FB	Lin2	158 10218	394 25022	922	2465	5076	10.0 400	20.0 1000	40.0	100	200
2-Chloroethyl vinyl ether	CBNZ d5	Lin1	325 36661	991 105872	2095	6831	15892	1.00 40.0	2.00 100	4.00	10.0	20.0
Methylcyclohexane	FB	Qua	14866 402195	24861 827050	51366	115779	215395	0.500 20.0	1.00 50.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	9088 289341	16845 648712	33297	77989	151392	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	4242 161253	9167 384211	17145	42181	83599	1.00 40.0	2.00 100	4.00	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	5621 195113	10697 463882	20672	50282	101019	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3297 108132	6267 250784	12470	28734	56147	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	4097 133061	7458 301566	15161	34546	69361	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene	CBNZ d5	Lin2	19162 532838	33360 1109323	66568	151979	288068	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	5546 193174	10998 448109	21791	51537	101128	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Hexanone	CBNZ d5	Ave	2259 97900	4444 241207	11044	23952	49312	1.00 40.0	2.00 100	4.00	10.0	20.0
Dibromochloromethane	CBNZ d5	Ave	3836 140893	7717 333273	15256	36272	71722	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butyl acetate	CBNZ d5	Ave	3654 137177	6895 331970	14376	33515	68265	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	2757 100589	5395 244698	10749	25673	51241	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	5759 178735	10434 375942	21670	49275	94528	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1-Chlorohexane	CBNZ d5	Ave	6680 192133	11505 404408	23291	52851	100430	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	DCBd 4	Ave	6154 187785	11304 411035	22626	52180	99456	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	16828 516010	30837 1112544	61520	141919	274205	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	10574 319107	19364 668625	38559	88995	169402	0.500 20.0	1.00 50.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	24108 694660	42623 1470235	83440	192264	369314	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromoform	CBNZ d5	Ave	1584 60062	2965 156909	6058	14747	30298	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Styrene	CBNZ d5	Ave	16429 524922	29938 1157337	59542	141501	276725	0.500 20.0	1.00 50.0	2.00	5.00	10.0
o-Xylene	CBNZ d5	Ave	12128 355452	22177 740679	43512	102139	191535	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	2911 82678	5234 192211	10427	23315	44043	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	374 22401	958 60777	2055	5132	10727	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	779 28706	1494 72021	3196	7446	14681	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropylbenzene	DCBd 4	Qua	29927 849203	52857 1753570	107354	245470	459711	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromobenzene	DCBd 4	Ave	5811 182801	10928 431625	20888	49526	95493	0.500 20.0	1.00 50.0	2.00	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	7982 241099	14270 521451	29567	67411	128975	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	6818 198918	12276 450194	24501	55923	106235	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	18989 577417	35263 1276708	70397	163207	308201	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Qua	24944 682821	43631 1464538	87179	197987	369310	0.500 20.0	1.00 50.0	2.00	5.00	10.0
tert-Butylbenzene	DCBd 4	Qua	20603 564638	36947 1214898	72931	164145	305403	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Qua	26464 711561	46921 1534101	91912	207841	385856	0.500 20.0	1.00 50.0	2.00	5.00	10.0
sec-Butylbenzene	DCBd 4	Qua	30367 823323	52991 1787712	107222	240924	442904	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzyl chloride	DCBd 4	Ave	6613 198290	11757 452881	22440	52040	101762	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	12456 374019	23143 832652	45388	104696	199167	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Isopropyltoluene	DCBd 4	Qua	26027 651626	45437 1307102	89342	197421	362639	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCBd 4	Qua	13055 352390	24469 709885	48535	105003	194040	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trimethylbenzene	DCBd 4	Qua	26237 713899	47616 1546246	92582	210568	387924	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	10766 329483	20758 743688	39706	90215	173604	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butylbenzene	DCBd 4	Lin1	22715 621853	37811 1358640	78479	177297	331417	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	380 17571	882 44113	1861	4398	8860	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trichlorobenzene	DCBd 4	Qua	8091 239884	15307 518780	30222	68028	129478	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	4745 158624	9715 351585	19861	44563	84927	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Naphthalene	DCBd 4	Lin1	7995 222414	15132 497146	29880	64044	119069	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexachlorobutadiene	DCBd 4	Qua	1441 42308	2563 90455	5498	12031	22110	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Qua	3313 99222	6755 215465	13345	29166	55231	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromofluoromethane	FB	Lin1	8186 228718	14327 499462	28367	64838	123061	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Lin2	6976 180399	11935 457203	24019	54529	105897	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene-d8 (Surr)	CBNZ d5	Lin2	32719 797231	52110 1617193	103462	235325	439787	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Bromofluorobenzene	DCBd 4	Lin1	13983 240081	15969 547321	29411	66647	127175	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 289750

SDG No.:

Instrument ID: CHVOAMS06 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2020 15:30 Calibration End Date: 03/09/2020 18:18 Calibration ID: 17918

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-289750/3	J06901.D
Level 2	IC 600-289750/4	J06902.D
Level 3	IC 600-289750/5	J06903.D
Level 4	IC 600-289750/6	J06904.D
Level 5	ICIS 600-289750/7	J06905.D
Level 6	IC 600-289750/8	J06906.D
Level 7	IC 600-289750/9	J06907.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3346 0.4141	0.3358 0.4446	0.3549	0.4431	0.4910	Lin1	-0.077	0.4451							0.9970		0.9900
Chloromethane	0.5111 0.5719	0.5177 0.5586	0.5301	0.6268	0.6732	Ave		0.5699			0.1000	10.6		15.0			
Vinyl chloride	0.3692 0.4160	0.4102 +++++	0.4082	0.4557	0.5232	Ave		0.4304				12.3		15.0			
Butadiene	0.5854 0.5175	0.5727 0.4471	0.5468	0.6252	0.7040	Ave		0.5712				14.2		15.0			
Bromomethane	0.2248 0.2209	0.2093 0.2163	0.2298	0.2660	0.2748	Ave		0.2346				10.9		15.0			
Chloroethane	0.2065 0.2283	0.2307 0.2146	0.2434	0.2676	0.2892	Ave		0.2400				12.2		15.0			
Dichlorofluoromethane	0.6481 0.6746	0.6553 0.6598	0.6200	0.7833	0.8112	Ave		0.6932				10.6		15.0			
Acrolein	0.0183 0.0150	0.0166 0.0141	0.0140	0.0170	0.0178	Ave		0.0161				10.9		15.0			
Acetonitrile	0.0419 0.0374	0.0357 0.0371	0.0437	0.0427	0.0503	Ave		0.0413				12.3		15.0			
Trichlorofluoromethane	0.6586 0.7587	0.6865 0.8138	0.6457	0.8345	0.8811	Ave		0.7541				12.3		15.0			
Isopropyl alcohol	0.0204 0.0184	0.0255 0.0206	0.0261	0.0190	0.0206	Ave		0.0215				14.1		15.0			
Acetone	0.2382 0.0926	0.1358 0.1016	0.1475	0.1286	0.1159	Lin1	0.1363	0.0995							0.9920		0.9900
Ethyl ether	0.5615 0.4481	0.5706 0.4211	0.5544	0.5303	0.5119	Ave		0.5140				11.3		15.0			
t-Butanol	0.0648 0.0458	0.0564 0.0472	0.0488	0.0525	0.0536	Ave		0.0527				12.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 289750

SDG No.:

Instrument ID: CHVOAMS06 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2020 15:30 Calibration End Date: 03/09/2020 18:18 Calibration ID: 17918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloroethene	0.5332 0.4100	0.5652 0.4047	0.5516	0.5239	0.4956	Ave		0.4977				13.2		15.0			
Acrylonitrile	0.1133 0.0828	0.1114 0.0905	0.1048	0.1040	0.1090	Ave		0.1023				11.1		15.0			
Iodomethane	0.9532 0.7090	0.9206 0.6585	0.9390	0.9231	0.8388	Ave		0.8489				14.1		15.0			
Methylene Chloride	1.0014 0.5297	0.7690 0.4780	0.6733	0.6232	0.6192	Lin2	0.2327	0.5419							0.9920		0.9900
Methyl acetate	+++++ 0.2713	0.4094 0.3023	0.3725	0.4192	0.3612	Lin	0.5186	0.2937							0.9940		0.9900
1,1,2-Trichloro-1,2,2-trifluoroethane	0.4138 0.3242	0.4634 0.3175	0.4521	0.4446	0.3863	Ave		0.4003				15.0		15.0			
3-Chloro-1-propene	0.4378 0.2829	0.3827 0.2543	0.3677	0.3343	0.3416	Qua	0.1340	0.3095	-0.001167						0.9990		0.9900
Carbon disulfide	2.3567 1.6533	2.0957 1.6682	2.1961	2.1249	1.9917	Ave		2.0124				13.1		15.0			
trans-1,2-Dichloroethene	0.6074 0.4701	0.6255 0.4442	0.6150	0.5938	0.5497	Ave		0.5580				13.1		15.0			
Methyl tert-butyl ether	1.7323 1.3784	1.6823 1.2830	1.6738	1.6796	1.6414	Ave		1.5815				11.1		15.0			
Propionitrile	+++++ 0.0325	0.0471 0.0378	0.0470	0.0503	0.0480	Lin	0.3099	0.0367							0.9900		0.9900
1,1-Dichloroethane	1.3997 1.0221	1.2519 0.9503	1.2510	1.2668	1.2221	Ave		1.1949			0.1000	13.0		15.0			
Vinyl acetate	0.9919 0.7747	0.9264 0.7830	0.9686	1.0500	0.8872	Ave		0.9117				11.4		15.0			
2-Chloro-1,3-butadiene	1.2227 0.9719	1.2559 0.8885	1.2369	1.2187	1.1465	Ave		1.1344				12.8		15.0			
Hexane	+++++ 0.6797	0.9521 +++++	0.9679	0.9306	0.8458	Ave		0.8752				13.6		15.0			
Isopropyl ether	+++++ 2.0236	2.5785 1.7452	2.6335	2.5901	2.4480	Qua	1.2829	2.2364	-0.010392						0.9990		0.9900
2-Butanone (MEK)	+++++ 0.0396	0.0530 0.0374	0.0591	0.0493	0.0459	Lin1	0.0589	0.0382							0.9930		0.9900
Methacrylonitrile	+++++ 0.0401	0.0469 0.0336	0.0545	0.0522	0.0459	Qua	0.2353	0.0442	-0.000022						0.9990		0.9900
cis-1,2-Dichloroethene	0.7571 0.4905	0.6613 0.4426	0.6274	0.6079	0.5625	Lin1	0.2279	0.4667							0.9900		0.9900
Ethyl acetate	0.4393 0.3224	0.4418 0.3600	0.4221	0.4209	0.3777	Ave		0.3977				11.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 289750

SDG No.:

Instrument ID: CHVOAMS06 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2020 15:30 Calibration End Date: 03/09/2020 18:18 Calibration ID: 17918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobromomethane	+++++ 0.1939	0.2481 0.1757	0.2530	0.2523	0.2269	Ave		0.2250				14.7		15.0			
Chloroform	+++++ 0.9052	1.1452 +++++	1.1823	1.1695	1.0780	Ave		1.0960				10.4		15.0			
Tert-butyl ethyl ether	2.2819 1.7115	2.0921 1.5047	2.2171	2.1086	2.0368	Ave		1.9932				14.1		15.0			
Isobutyl alcohol	0.0401 0.0319	0.0401 0.0291	0.0397	0.0381	0.0376	Ave		0.0367				12.0		15.0			
2,2-Dichloropropane	+++++ 0.5541	0.7665 0.4787	0.7397	0.7047	0.6660	Qua	0.3886	0.6065	-0.002725						0.9990		0.9900
Tetrahydrofuran	+++++ 0.1225	0.2056 0.1261	0.1515	0.1475	0.1806	Lin	0.3331	0.1228							0.9920		0.9900
1,2-Dichloroethane	0.9240 0.6883	0.8595 0.6985	0.8831	0.8396	0.7983	Ave		0.8130				11.1		15.0			
1,1,1-Trichloroethane	0.9201 0.7906	0.9779 0.7769	0.9486	0.9704	0.9387	Ave		0.9033				9.3		15.0			
n-Butanol	0.0129 0.0126	0.0139 0.0126	0.0167	0.0159	0.0156	Ave		0.0143				12.2		15.0			
1,1-Dichloropropene	0.8711 0.6779	0.9241 0.6874	0.9112	0.8541	0.7938	Ave		0.8171				12.4		15.0			
Cyclohexane	0.9796 0.6885	0.9171 0.6786	0.9065	0.8877	0.8444	Ave		0.8432				13.8		15.0			
Carbon tetrachloride	0.7356 0.6283	0.7701 0.6353	0.7803	0.7819	0.7412	Ave		0.7247				9.1		15.0			
Benzene	2.4717 1.8417	2.3434 1.7730	2.3268	2.3172	2.1821	Ave		2.1794				12.3		15.0			
Tert-amyl methyl ether	1.9039 1.4029	1.7376 1.2955	1.6707	1.5860	1.6054	Ave		1.6003				12.7		15.0			
Isooctane	1.8915 1.3304	1.7079 1.3310	1.7888	1.6669	1.5870	Ave		1.6148				13.4		15.0			
Ethyl acrylate	0.6386 0.4753	0.5764 0.6428	0.6316	0.6368	0.5650	Ave		0.5952				10.4		15.0			
n-Heptane	0.9166 0.6375	0.8454 0.7384	0.8964	0.8312	0.7579	Ave		0.8034				12.2		15.0			
Dibromomethane	+++++ 0.2416	0.3295 0.2289	0.2962	0.3198	0.2935	Ave		0.2849				14.4		15.0			
1,2-Dichloropropane	0.7105 0.4786	0.5936 0.4871	0.6209	0.6134	0.5541	Ave		0.5797				14.0		15.0			
2-Nitropropane	0.1328 0.1212	0.1552 0.1311	0.1598	0.1582	0.1412	Ave		0.1428				10.6		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 289750

SDG No.:

Instrument ID: CHVOAMS06 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2020 15:30 Calibration End Date: 03/09/2020 18:18 Calibration ID: 17918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Trichloroethene	0.5466 0.4230	0.5264 0.4081	0.5495	0.5228	0.4919	Ave		0.4955				11.7		15.0			
Bromodichloromethane	0.8266 0.6675	0.8327 0.6973	0.8482	0.8272	0.7642	Ave		0.7805				9.3		15.0			
Methyl methacrylate	0.4408 0.3431	0.3677 0.4274	0.4211	0.4345	0.3892	Ave		0.4034				9.3		15.0			
1,4-Dioxane	+++++ 0.0026	0.0020 0.0022	0.0027	0.0025	0.0027	Ave		0.0025				12.5		15.0			
2-Chloroethyl vinyl ether	0.3997 0.3048	0.3873 0.3546	0.3779	0.3813	0.3673	Ave		0.3676				8.5		15.0			
Methylcyclohexane	0.9505 0.7443	0.9447 0.7500	0.9794	0.9504	0.9041	Ave		0.8891				11.2		15.0			
cis-1,3-Dichloropropene	1.4455 1.2284	1.5638 1.2993	1.5376	1.4814	1.4317	Ave		1.4268				8.6		15.0			
4-Methyl-2-pentanone (MIBK)	0.6612 0.5171	0.6354 0.5679	0.6241	0.6287	0.6016	Ave		0.6051				8.0		15.0			
trans-1,3-Dichloropropene	1.2419 0.9866	1.2012 1.1153	1.2384	1.2390	1.1492	Ave		1.1674				8.0		15.0			
n-Butyl acetate	0.2137 0.1586	0.2314 0.1666	0.2192	0.1987	0.1960	Ave		0.1977				13.6		15.0			
1,1,2-Trichloroethane	0.6772 0.4832	0.6341 0.5223	0.6422	0.5984	0.5719	Ave		0.5899				11.7		15.0			
Ethyl methacrylate	1.1080 0.7922	1.0264 0.8396	1.0072	1.0383	0.9708	Ave		0.9689				11.7		15.0			
Toluene	2.3124 1.7322	2.3473 1.6511	2.2623	2.1569	2.0673	Ave		2.0756				13.5		15.0			
1,3-Dichloropropane	1.2596 0.8931	1.2124 0.9880	1.1890	1.1384	1.0364	Ave		1.1024				12.1		15.0			
Dibromochloromethane	0.7672 0.6411	0.8015 0.6955	0.7699	0.7964	0.7508	Ave		0.7460				7.8		15.0			
2-Hexanone	0.9579 0.5813	0.8891 0.6719	0.8172	0.7962	0.7459	Lin1	0.4464	0.6565							0.9920		0.9900
1,2-Dibromoethane	0.6112 0.4765	0.6348 0.5317	0.6278	0.5908	0.5586	Ave		0.5759				10.0		15.0			
Tetrachloroethene	0.7134 0.5352	0.6770 0.5270	0.6425	0.6758	0.6214	Ave		0.6275				11.5		15.0			
1-Chlorohexane	1.0161 0.7836	1.0104 0.8539	1.0336	1.0054	0.9065	Ave		0.9442				10.3		15.0			
1,1,1,2-Tetrachloroethane	0.9505 0.7594	0.8871 0.7260	0.9269	0.9223	0.9198	Ave		0.8703				10.3		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 289750

SDG No.:

Instrument ID: CHVOAMS06 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2020 15:30 Calibration End Date: 03/09/2020 18:18 Calibration ID: 17918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobenzene	2.2425 1.8618	2.2697 1.8652	2.4022	2.3258	2.1347	Ave		2.1574			0.3000	10.0		15.0			
Ethylbenzene	1.4448 1.0173	1.3630 0.9999	1.2464	1.3477	1.2358	Ave		1.2364				13.8		15.0			
m-Xylene & p-Xylene	4.0793 2.8574	3.7422 2.8821	3.6767	3.6265	3.4579	Ave		3.4746				13.0		15.0			
Bromoform	0.4003 0.4476	0.4436 0.5361	0.4881	0.5256	0.5266	Ave		0.4811			0.1000	10.8		15.0			
Styrene	2.3932 1.9929	2.6160 2.0291	2.5355	2.5661	2.4295	Ave		2.3660				10.8		15.0			
o-Xylene	+++++ 1.2774	1.8485 1.1611	1.7328	1.6909	1.5731	Qua	1.1583	1.3621	-0.004525						0.9980		0.9900
1,1,2,2-Tetrachloroethane	0.9184 0.7847	1.0420 0.7741	0.9715	1.0190	1.0126	Ave		0.9318			0.3000	12.0		15.0			
trans-1,4-Dichloro-2-butene	0.4637 0.3412	0.3977 0.4221	0.4128	0.4082	0.4080	Ave		0.4077				8.9		15.0			
1,2,3-Trichloropropane	0.3132 0.2218	0.2610 0.2516	0.2601	0.2784	0.2733	Ave		0.2656				10.5		15.0			
Isopropylbenzene	4.3067 3.6519	4.3544 3.8193	4.3836	4.6365	4.4506	Ave		4.2290				8.4		15.0			
Bromobenzene	1.1120 0.8642	1.0757 0.9478	1.0759	1.0867	1.0400	Ave		1.0289				8.7		15.0			
N-Propylbenzene	1.2051 0.9509	1.2073 0.9831	1.1818	1.2024	1.1064	Ave		1.1196				9.9		15.0			
2-Chlorotoluene	1.0821 0.8715	1.0749 0.8903	1.0906	1.0529	1.0657	Ave		1.0183				9.3		15.0			
4-Chlorotoluene	3.7044 3.0453	3.8852 3.2554	3.8072	3.8516	3.6677	Ave		3.6024				9.0		15.0			
1,3,5-Trimethylbenzene	4.2185 3.4172	4.2896 3.4138	4.1252	4.2777	4.1296	Ave		3.9816				9.8		15.0			
tert-Butylbenzene	2.9444 2.6472	3.1967 2.6110	3.1742	3.2673	3.1991	Ave		3.0057				9.2		15.0			
1,2,4-Trimethylbenzene	4.3154 3.5631	4.3075 3.4564	4.4459	4.4867	4.3575	Ave		4.1332				10.5		15.0			
sec-Butylbenzene	4.6555 3.8156	4.8630 3.7749	4.7471	4.9070	4.6715	Ave		4.4907				10.8		15.0			
Benzyl chloride	1.7798 1.6194	1.8381 1.5701	1.9322	1.9416	2.0335	Ave		1.8164				9.5		15.0			
1,3-Dichlorobenzene	+++++ 1.7001	2.4403 1.5825	2.1828	2.2276	2.1170	Qua	1.4713	1.8059	-0.005118						0.9980		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 289750

SDG No.:

Instrument ID: CHVOAMS06 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2020 15:30 Calibration End Date: 03/09/2020 18:18 Calibration ID: 17918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dichlorobenzene	+++++ 1.6513	2.5218 1.3966	2.3468	2.2291	2.1289	Qua	1.5838	1.8422	-0.009608						0.9970		0.9900
4-Isopropyltoluene	+++++ 3.0646	4.0289 2.5915	3.9751	4.0562	3.8592	Qua	2.1608	3.4544	-0.018229						0.9980		0.9900
1,2,3-Trimethylbenzene	4.4767 3.4991	4.3431 3.3652	4.1742	4.3302	4.2344	Ave		4.0604				10.9		15.0			
1,2-Dichlorobenzene	2.3454 1.7327	2.2228 1.6699	2.1216	2.1369	2.0964	Ave		2.0465				12.2		15.0			
n-Butylbenzene	4.0844 3.3271	4.1157 3.2834	3.9901	4.1848	4.0176	Ave		3.8576				9.9		15.0			
1,2-Dibromo-3-Chloropropane	0.2066 0.1574	0.1498 0.1697	0.1691	0.1689	0.1915	Ave		0.1733				11.3		15.0			
1,3,5-Trichlorobenzene	1.5379 1.2743	1.6039 1.1655	1.5235	1.5500	1.5827	Ave		1.4625				11.7		15.0			
1,2,4-Trichlorobenzene	1.3068 1.1279	1.3667 1.0323	1.3164	1.3249	1.4113	Ave		1.2695				10.8		15.0			
Naphthalene	2.0228 1.9341	2.3675 1.8665	2.2783	2.1740	2.3949	Ave		2.1483				9.8		15.0			
Hexachlorobutadiene	0.3481 0.2220	0.2846 0.2014	0.1520	0.2692	0.2680	Qua	0.0322	0.2483	-0.000958						0.9980		0.9900
1,2,3-Trichlorobenzene	0.9385 0.8110	1.0179 0.7692	1.0220	0.9480	1.0662	Ave		0.9390				11.9		15.0			
Dibromofluoromethane	0.6892 0.3941	0.5641 0.3701	0.5346	0.4966	0.4701	Lin1	0.2132	0.3848							0.9920		0.9900
1,2-Dichloroethane-d4 (Surr)	0.9487 0.5303	0.7118 0.5380	0.6478	0.6941	0.6001	Lin2	0.1856	0.5647							0.9900		0.9900
Toluene-d8 (Surr)	4.9950 2.3796	3.7314 2.3284	3.2387	3.0952	2.8859	Lin2	1.2295	2.5566							0.9910		0.9900
4-Bromofluorobenzene	2.7696 1.1190	1.7200 1.2994	1.5371	1.5084	1.3655	Lin1	0.6769	1.2428							0.9940		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 289750

SDG No.:

Instrument ID: CHVOAMS06 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2020 15:30 Calibration End Date: 03/09/2020 18:18 Calibration ID: 17918

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-289750/3	J06901.D
Level 2	IC 600-289750/4	J06902.D
Level 3	IC 600-289750/5	J06903.D
Level 4	IC 600-289750/6	J06904.D
Level 5	ICIS 600-289750/7	J06905.D
Level 6	IC 600-289750/8	J06906.D
Level 7	IC 600-289750/9	J06907.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Lin1	3167 172830	6944 447834	14646	42960	92499	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloromethane	FB	Ave	4837 238685	10704 562667	21876	60771	126820	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Vinyl chloride	FB	Ave	3494 173640	8481 +++++	16844	44188	98572	0.500 20.0	1.00 +++++	2.00	5.00	10.0
Butadiene	FB	Ave	5540 216003	11841 450329	22566	60615	132620	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromomethane	FB	Ave	2128 92208	4328 217835	9482	25792	51776	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloroethane	FB	Ave	1954 95297	4770 216172	10045	25943	54475	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dichlorofluoromethane	FB	Ave	6134 281568	13549 664601	25585	75950	152824	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acrolein	FB	Ave	867 31342	1721 71131	2880	8224	16731	2.50 100	5.00 250	10.0	25.0	50.0
Acetonitrile	FB	Ave	3968 156184	7383 373436	18043	41365	94809	5.00 200	10.0 500	20.0	50.0	100
Trichlorofluoromethane	FB	Ave	6233 316671	14195 819667	26647	80907	165998	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropyl alcohol	FB	Ave	1931 76891	5263 207771	10780	18461	38876	5.00 200	10.0 500	20.0	50.0	100
Acetone	FB	Lin1	4508 77278	5618 204614	12178	24929	43680	1.00 40.0	2.00 100	4.00	10.0	20.0
Ethyl ether	FB	Ave	5314 187026	11799 424154	22878	51412	96438	0.500 20.0	1.00 50.0	2.00	5.00	10.0
t-Butanol	FB	Ave	6132 190952	11656 474953	20120	50856	100951	5.00 200	10.0 500	20.0	50.0	100
1,1-Dichloroethene	FB	Ave	5046 171136	11687 407681	22763	50797	93366	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 289750

SDG No.:

Instrument ID: CHVOAMS06 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2020 15:30 Calibration End Date: 03/09/2020 18:18 Calibration ID: 17918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Ave	10726 345695	23044 912035	43246	100792	205355	5.00 200	10.0 500	20.0	50.0	100
Iodomethane	FB	Ave	9021 295900	19035 663296	38750	89503	158026	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methylene Chloride	FB	Lin2	9478 221071	15900 481452	27787	60424	116645	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl acetate	FB	Lin	+++++ 226469	16931 609079	30743	81287	136102	+++++ 40.0	2.00 100	4.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	3916 135317	9581 319788	18658	43106	72780	0.500 20.0	1.00 50.0	2.00	5.00	10.0
3-Chloro-1-propene	FB	Qua	4143 118081	7914 256103	15175	32408	64358	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon disulfide	FB	Ave	22304 690015	43334 1680341	90631	206022	375230	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	5749 196187	12933 447389	25381	57573	103563	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl tert-butyl ether	FB	Ave	16395 575275	34785 1292310	69077	162853	309230	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Propionitrile	FB	Lin	+++++ 135537	9738 381046	19382	48729	90464	+++++ 200	10.0 500	20.0	50.0	100
1,1-Dichloroethane	FB	Ave	13247 426579	25886 957253	51629	122829	230231	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Vinyl acetate	FB	Ave	18776 646646	38313 1577346	79947	203618	334300	1.00 40.0	2.00 100	4.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	11572 405627	25969 894980	51045	118164	215993	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexane	FB	Ave	+++++ 283671	19686 +++++	39942	90231	159342	+++++ 20.0	1.00 +++++	2.00	5.00	10.0
Isopropyl ether	FB	Qua	+++++ 844589	53317 1757903	108680	251132	461187	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Lin1	+++++ 33065	2193 75346	4878	9563	17282	+++++ 40.0	2.00 100	4.00	10.0	20.0
Methacrylonitrile	FB	Qua	+++++ 167435	9700 338373	22496	50599	86503	+++++ 200	10.0 500	20.0	50.0	100
cis-1,2-Dichloroethene	FB	Lin1	7165 204696	13673 445858	25891	58936	105971	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acetate	FB	Ave	8316 269092	18271 725157	34840	81614	142308	1.00 40.0	2.00 100	4.00	10.0	20.0
Chlorobromomethane	FB	Ave	+++++ 80932	5130 176931	10440	24467	42738	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Chloroform	FB	Ave	+++++ 377795	23679 +++++	48790	113392	203084	+++++ 20.0	1.00 +++++	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 289750

SDG No.:

Instrument ID: CHVOAMS06 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2020 15:30 Calibration End Date: 03/09/2020 18:18 Calibration ID: 17918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tert-butyl ethyl ether	FB	Ave	21597 714316	43259 1515672	91496	204443	383713	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Ave	9486 332820	20740 731726	40999	92405	177007	12.5 500	25.0 1250	50.0	125	250
2,2-Dichloropropane	FB	Qua	+++++ 231253	15849 482171	30527	68325	125462	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Tetrahydrofuran	FB	Lin	+++++ 102292	8503 253993	12508	28597	68032	+++++ 40.0	2.00 100	4.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	8745 287255	17773 703540	36446	81403	150390	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	8708 329982	20220 782550	39148	94088	176839	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butanol	FB	Ave	3041 131509	7182 317810	17275	38597	73410	12.5 500	25.0 1250	50.0	125	250
1,1-Dichloropropene	FB	Ave	8244 282946	19108 692385	37603	82813	149541	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Cyclohexane	FB	Ave	9271 287344	18964 683578	37409	86068	159087	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	6962 262212	15923 639957	32203	75815	139631	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzene	FB	Ave	23393 768643	48456 1785897	96025	224667	411102	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-amyl methyl ether	FB	Ave	18019 585507	35929 1304894	68946	153771	302450	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isooctane	FB	Ave	17902 555266	35315 1340635	73821	161616	298984	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acrylate	FB	Ave	6044 198382	11918 647519	26067	61741	106435	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Heptane	FB	Ave	8675 266065	17481 743780	36995	80594	142779	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	+++++ 100833	6814 230520	12222	31004	55295	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Ave	6724 199757	12274 490656	25622	59471	104383	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Nitropropane	FB	Ave	2514 101201	6420 264146	13188	30684	53220	1.00 40.0	2.00 100	4.00	10.0	20.0
Trichloroethene	FB	Ave	5173 176531	10884 411034	22677	50687	92674	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	7823 278574	17219 702318	35002	80204	143967	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl methacrylate	FB	Ave	8343 286420	15208 861064	34755	84261	146634	1.00 40.0	2.00 100	4.00	10.0	20.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 289750

SDG No.:

Instrument ID: CHVOAMS06 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2020 15:30 Calibration End Date: 03/09/2020 18:18 Calibration ID: 17918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	FB	Ave	+++++ 22119	814 44270	2204	4943	10313	+++++ 400	20.0 1000	40.0	100	200
2-Chloroethyl vinyl ether	CBNZ d5	Ave	4107 143407	8777 425615	17597	41834	75755	1.00 40.0	2.00 100	4.00	10.0	20.0
Methylcyclohexane	FB	Ave	8996 310648	19533 755486	40417	92147	170333	0.500 20.0	1.00 50.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	7426 288986	17721 779674	35803	81256	147627	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	12515 431658	26275 1144145	51508	121917	226683	1.00 40.0	2.00 100	4.00	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	6380 232102	13612 669235	28838	67960	118497	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butyl acetate	CBNZ d5	Ave	1098 37308	2622 99960	5105	10897	20206	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3479 113678	7186 313391	14954	32820	58966	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	5692 186374	11631 503809	23454	56953	100100	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene	CBNZ d5	Ave	11879 407525	26600 990749	52680	118305	213159	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	6471 210115	13739 592859	27687	62439	106862	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromochloromethane	CBNZ d5	Ave	3941 150825	9083 417314	17927	43684	77413	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Hexanone	CBNZ d5	Lin1	9842 273539	20151 806377	38057	87346	153813	1.00 40.0	2.00 100	4.00	10.0	20.0
1,2-Dibromoethane	CBNZ d5	Ave	3140 112097	7194 319041	14618	32406	57598	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	3665 125924	7672 316208	14962	37066	64071	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1-Chlorohexane	CBNZ d5	Ave	5220 184355	11450 512383	24068	55147	93474	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4883 178656	10053 435664	21584	50588	94836	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	11520 438006	25720 1119200	55937	127572	220109	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	7422 239326	15446 599987	29023	73921	127419	0.500 20.0	1.00 50.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	20956 672242	42407 1729389	85614	198915	356548	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromoform	DCBd 4	Ave	2164 97998	5178 270017	11361	27084	50983	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 289750

SDG No.:

Instrument ID: CHVOAMS06 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2020 15:30 Calibration End Date: 03/09/2020 18:18 Calibration ID: 17918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Styrene	CBNZ d5	Ave	12294 468858	29645 1217588	59041	140749	250503	0.500 20.0	1.00 50.0	2.00	5.00	10.0
o-Xylene	CBNZ d5	Qua	+++++ 300520	20947 696726	40349	92746	162200	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4965 171791	12162 389902	22613	52508	98044	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	2507 74691	4642 212576	9607	21033	39499	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	1693 48557	3046 126703	6054	14346	26458	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	23283 799473	50824 1923632	102030	238914	430919	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromobenzene	DCBd 4	Ave	6012 189192	12555 477354	25043	55995	100697	0.500 20.0	1.00 50.0	2.00	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	6515 208170	14091 495151	27507	61957	107124	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	5850 190801	12546 448393	25385	54253	103187	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	20027 666678	45347 1639614	88613	198471	355112	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	22806 748095	50067 1719415	96015	220425	399842	0.500 20.0	1.00 50.0	2.00	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	15918 579523	37311 1315079	73880	168361	309745	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	23330 780039	50276 1740871	103479	231198	421899	0.500 20.0	1.00 50.0	2.00	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	25169 835323	56760 1901290	110490	252856	452303	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzyl chloride	DCBd 4	Ave	9622 354529	21454 790791	44972	100051	196889	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Qua	+++++ 372181	28483 797063	50805	114785	204974	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCBd 4	Qua	+++++ 361509	29434 703401	54623	114862	206125	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
4-Isopropyltoluene	DCBd 4	Qua	+++++ 670897	47025 1305252	92521	209015	373654	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	24202 766020	50692 1694935	97156	223131	409981	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	12680 379334	25944 841058	49382	110112	202979	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	22081 728368	48038 1653728	92872	215639	388990	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 289750

SDG No.:

Instrument ID: CHVOAMS06 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2020 15:30 Calibration End Date: 03/09/2020 18:18 Calibration ID: 17918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1117 34454	1748 85494	3937	8705	18543	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	8314 278974	18721 587001	35460	79870	153245	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	7065 246931	15952 519911	30640	68273	136642	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Naphthalene	DCBd 4	Ave	10936 423424	27633 940073	53029	112025	231876	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexachlorobutadiene	DCBd 4	Qua	1882 48606	3322 101454	3538	13871	25951	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	5074 177543	11881 387395	23787	48848	103229	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromofluoromethane	FB	Lin1	6523 164485	11664 372760	22061	48149	88562	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Lin2	8979 221319	14719 541938	26735	67295	113058	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene-d8 (Surr)	CBNZ d5	Lin2	25660 559837	42284 1397135	75414	169774	297568	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Bromofluorobenzene	DCBd 4	Lin1	14973 244967	20076 654455	35776	77728	132214	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: ICV 600-292951/1012 Calibration Date: 04/21/2020 21:51

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C11211-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2046	0.2204		10.8	10.0	7.7	50.0
Chloromethane	Ave	0.1506	0.1508	0.1000	10.0	10.0	0.1	30.0
Vinyl chloride	Qua		0.1343		9.60	10.0	-4.0	30.0
Butadiene	Ave	0.1546	0.1690		10.9	10.0	9.3	50.0
Bromomethane	Qua		0.1424		10.6	10.0	6.3	30.0
Chloroethane	Ave	0.1498	0.1634		10.9	10.0	9.1	30.0
Dichlorofluoromethane	Ave	0.3631	0.3976		11.0	10.0	9.5	30.0
Acrolein	Ave	0.0135	0.0104		38.4	50.0	-23.2	50.0
Trichlorofluoromethane	Ave	0.3822	0.4253		11.1	10.0	11.3	30.0
Acetonitrile	Lin1		0.0081		102	100	2.2	30.0
Isopropyl alcohol	Lin2		0.0029		74.3	100	-25.7	50.0
Acetone	Lin1		0.0223		20.3	20.0	1.6	50.0
Ethyl ether	Ave	0.1582	0.1432		9.05	10.0	-9.5	50.0
t-Butanol	Ave	0.0085	0.0078		92.0	100	-8.0	30.0
1,1-Dichloroethene	Qua		0.2363		9.86	10.0	-1.4	30.0
Acrylonitrile	Ave	0.0207	0.0194		93.6	100	-6.4	50.0
Iodomethane	Ave	0.3331	0.3340		10.0	10.0	0.3	30.0
Methylene Chloride	Lin1		0.2422		11.3	10.0	12.6	50.0
Methyl acetate	Ave	0.0621	0.0570		18.4	20.0	-8.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		0.2103		10.8	10.0	8.2	30.0
3-Chloro-1-propene	Lin1		0.1573		10.9	10.0	9.1	30.0
Carbon disulfide	Lin1		0.6856		11.2	10.0	12.4	30.0
trans-1,2-Dichloroethene	Lin1		0.2679		11.2	10.0	12.3	30.0
Methyl tert-butyl ether	Lin1		0.4817		10.7	10.0	6.8	30.0
Propionitrile	Ave	0.0100	0.0092		92.1	100	-7.9	30.0
1,1-Dichloroethane	Qua		0.4726	0.1000	10.1	10.0	0.8	30.0
Vinyl acetate	Ave	0.2728	0.2278		16.7	20.0	-16.5	50.0
2-Chloro-1,3-butadiene	Qua		0.2715		6.72	10.0	-32.8*	30.0
Hexane	Qua		0.3404		9.76	10.0	-2.4	30.0
Isopropyl ether	Qua		0.8274		10.3	10.0	3.0	30.0
2-Butanone (MEK)	Ave	0.0122	0.0121		19.9	20.0	-0.6	50.0
Methacrylonitrile	Ave	0.0125	0.0090		71.9	100	-28.1	30.0
cis-1,2-Dichloroethene	Lin1		0.2746		11.0	10.0	10.1	30.0
Ethyl acetate	Ave	0.0906	0.0833		18.4	20.0	-8.0	30.0
Chlorobromomethane	Ave	0.1045	0.0962		9.20	10.0	-8.0	30.0
Tert-butyl ethyl ether	Qua		0.7526		9.99	10.0	-0.0	30.0
Chloroform	Qua		0.4204		10.1	10.0	1.1	30.0
Isobutyl alcohol	Qua		0.0058		237	250	-5.1	50.0
2,2-Dichloropropane	Qua		0.4556		9.65	10.0	-3.5	30.0
Tetrahydrofuran	Lin1		0.0192		18.8	20.0	-6.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: ICV 600-292951/1012 Calibration Date: 04/21/2020 21:51

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C11211-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.2295	0.2122		9.25	10.0	-7.5	30.0
1,1,1-Trichloroethane	Qua		0.4438		10.1	10.0	0.5	30.0
1,1-Dichloropropene	Qua		0.3715		10.0	10.0	0.0	30.0
Cyclohexane	Qua		0.4205		9.94	10.0	-0.6	50.0
Carbon tetrachloride	Qua		0.3841		9.95	10.0	-0.5	30.0
Benzene	Qua		1.005		10.2	10.0	1.8	30.0
Tert-amyl methyl ether	Lin1		0.5930		10.9	10.0	8.5	30.0
Isooctane	Qua		0.3866		4.57	10.0	-54.3*	30.0
Ethyl acrylate	Ave	0.1989	0.1828		9.19	10.0	-8.1	30.0
n-Heptane	Qua		0.3328		9.72	10.0	-2.8	30.0
Dibromomethane	Ave	0.0811	0.0766		9.45	10.0	-5.5	30.0
1,2-Dichloropropane	Qua		0.2269		10.2	10.0	1.5	30.0
2-Nitropropane	Lin2		0.0199		15.1	20.0	-24.7	30.0
Trichloroethene	Qua		0.2827		10.2	10.0	2.1	30.0
Bromodichloromethane	Ave	0.3127	0.2897		9.26	10.0	-7.4	30.0
Methyl methacrylate	Ave	0.1101	0.0990		18.0	20.0	-10.1	50.0
1,4-Dioxane	Lin2		0.0006		201	200	0.6	50.0
2-Chloroethyl vinyl ether	Lin1		0.0495		19.2	20.0	-4.1	30.0
Methylcyclohexane	Qua		0.4698		10.0	10.0	0.3	30.0
cis-1,3-Dichloropropene	Ave	1.035	0.9335		9.02	10.0	-9.8	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0924	0.0915		19.8	20.0	-1.0	50.0
trans-1,3-Dichloropropene	Ave	0.6639	0.6133		9.24	10.0	-7.6	30.0
1,1,2-Trichloroethane	Ave	0.3832	0.3464		9.04	10.0	-9.6	30.0
Ethyl methacrylate	Ave	0.4672	0.4273		9.15	10.0	-8.5	50.0
Toluene	Lin2		1.819		9.92	10.0	-0.8	30.0
1,3-Dichloropropane	Ave	0.6735	0.6259		9.29	10.0	-7.1	30.0
2-Hexanone	Ave	0.1551	0.1563		20.2	20.0	0.7	50.0
Dibromochloromethane	Ave	0.4749	0.4411		9.29	10.0	-7.1	30.0
n-Butyl acetate	Ave	0.4458	0.4063		9.12	10.0	-8.9	30.0
1,2-Dibromoethane	Ave	0.3370	0.3169		9.40	10.0	-6.0	30.0
Tetrachloroethene	Ave	0.6523	0.5954		9.13	10.0	-8.7	30.0
1-Chlorohexane	Ave	0.7135	0.4428		6.21	10.0	-37.9*	30.0
1,1,1,2-Tetrachloroethane	Ave	0.7483	0.6906		9.23	10.0	-7.7	30.0
Chlorobenzene	Ave	1.890	1.729	0.3000	9.15	10.0	-8.5	30.0
Ethylbenzene	Ave	1.181	1.072		9.08	10.0	-9.2	30.0
m-Xylene & p-Xylene	Ave	2.595	2.332		8.99	10.0	-10.1	30.0
Bromoform	Ave	0.1935	0.1804	0.1000	9.32	10.0	-6.8	30.0
Styrene	Ave	1.867	1.723		9.23	10.0	-7.7	30.0
o-Xylene	Ave	1.342	1.220		9.09	10.0	-9.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3419	0.3001	0.3000	8.78	10.0	-12.2	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0735	0.0693		9.43	10.0	-5.7	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: ICV 600-292951/1012 Calibration Date: 04/21/2020 21:51

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C11211-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.1076	0.0999		9.29	10.0	-7.1	30.0
Isopropylbenzene	Qua		3.252		9.96	10.0	-0.4	30.0
Bromobenzene	Ave	0.7206	0.6694		9.29	10.0	-7.1	30.0
N-Propylbenzene	Ave	0.9635	0.9116		9.46	10.0	-5.4	30.0
2-Chlorotoluene	Ave	0.8099	0.7482		9.24	10.0	-7.6	30.0
4-Chlorotoluene	Ave	2.323	2.186		9.41	10.0	-5.9	30.0
1,3,5-Trimethylbenzene	Qua		2.595		9.93	10.0	-0.7	30.0
tert-Butylbenzene	Qua		2.173		10.1	10.0	0.6	30.0
1,2,4-Trimethylbenzene	Qua		2.742		10.1	10.0	0.7	30.0
sec-Butylbenzene	Qua		3.193		10.2	10.0	1.7	30.0
Benzyl chloride	Ave	0.7773	0.4713		6.06	10.0	-39.4*	30.0
1,3-Dichlorobenzene	Ave	1.508	1.409		9.34	10.0	-6.6	30.0
4-Isopropyltoluene	Qua		2.588		10.2	10.0	1.5	30.0
1,4-Dichlorobenzene	Qua		1.375		10.0	10.0	0.1	30.0
1,2,3-Trimethylbenzene	Qua		1.919		6.79	10.0	-32.1*	30.0
1,2-Dichlorobenzene	Ave	1.323	1.210		9.15	10.0	-8.5	30.0
n-Butylbenzene	Lin1		2.369		11.1	10.0	11.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0626	0.0589		9.41	10.0	-5.9	30.0
1,3,5-Trichlorobenzene	Qua		0.4905		5.11	10.0	-48.9*	30.0
1,2,4-Trichlorobenzene	Ave	0.6313	0.5826		9.23	10.0	-7.7	30.0
Naphthalene	Lin1		0.8070		10.4	10.0	3.9	30.0
Hexachlorobutadiene	Qua		0.1602		10.0	10.0	0.1	30.0
1,2,3-Trichlorobenzene	Qua		0.3676		9.56	10.0	-4.4	30.0
Dibromofluoromethane	Lin1		0.2386		12.6	12.5	0.6	30.0
1,2-Dichloroethane-d4 (Surr)	Lin2		0.1678		9.46	12.5	-24.3	30.0
Toluene-d8 (Surr)	Lin2		2.667		12.1	12.5	-3.3	30.0
4-Bromofluorobenzene	Lin1		0.9774		14.7	12.5	17.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCVIS 600-293862/2 Calibration Date: 05/05/2020 10:39

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C12601.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2046	0.2238		10.9	10.0	9.4	35.0
Chloromethane	Ave	0.1506	0.2055	0.1000	13.6	10.0	36.4*	35.0
Vinyl chloride	Qua		0.1149		8.09	10.0	-19.1	20.0
Butadiene	Ave	0.1546	0.1573		10.2	10.0	1.7	35.0
Bromomethane	Qua		0.1751		13.0	10.0	30.4	35.0
Chloroethane	Ave	0.1498	0.1831		12.2	10.0	22.2	35.0
Dichlorofluoromethane	Ave	0.3631	0.4456		12.3	10.0	22.7	35.0
Acrolein	Ave	0.0135	0.0117		43.3	50.0	-13.4	50.0
Trichlorofluoromethane	Ave	0.3822	0.4475		11.7	10.0	17.1	35.0
Acetonitrile	Lin1		0.0095		121	100	20.8	50.0
Isopropyl alcohol	Lin2		0.0044		114	100	14.1	50.0
Acetone	Lin1		0.0223		20.3	20.0	1.7	50.0
Ethyl ether	Ave	0.1582	0.1385		8.75	10.0	-12.5	35.0
t-Butanol	Ave	0.0085	0.0081		94.5	100	-5.5	35.0
1,1-Dichloroethene	Qua		0.2352		9.81	10.0	-1.9	20.0
Acrylonitrile	Ave	0.0207	0.0215		104	100	3.7	50.0
Iodomethane	Ave	0.3331	0.1830		5.50	10.0	-45.1*	35.0
Methylene Chloride	Lin1		0.2377		11.0	10.0	10.0	50.0
Methyl acetate	Ave	0.0621	0.0619		19.9	20.0	-0.3	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		0.2111		10.9	10.0	8.6	35.0
3-Chloro-1-propene	Lin1		0.1609		11.2	10.0	11.7	35.0
Carbon disulfide	Lin1		0.7337		12.1	10.0	20.6	35.0
trans-1,2-Dichloroethene	Lin1		0.2573		10.8	10.0	7.7	35.0
Methyl tert-butyl ether	Lin1		0.4443		9.81	10.0	-1.9	35.0
1,1-Dichloroethane	Qua		0.4896	0.1000	10.5	10.0	4.8	35.0
Propionitrile	Ave	0.0100	0.0105		104	100	4.2	35.0
Vinyl acetate	Ave	0.2728	0.2565		18.8	20.0	-6.0	50.0
2-Chloro-1,3-butadiene	Qua		0.4218		11.0	10.0	9.7	35.0
Hexane	Qua		0.4088		12.1	10.0	20.5	35.0
Isopropyl ether	Qua		0.8659		10.9	10.0	8.5	35.0
2-Butanone (MEK)	Ave	0.0122	0.0116		19.0	20.0	-5.0	50.0
Methacrylonitrile	Ave	0.0125	0.0119		95.3	100	-4.7	35.0
cis-1,2-Dichloroethene	Lin1		0.2619		10.5	10.0	4.8	35.0
Ethyl acetate	Ave	0.0906	0.0847		18.7	20.0	-6.5	35.0
Chlorobromomethane	Ave	0.1045	0.0930		8.90	10.0	-11.0	35.0
Tert-butyl ethyl ether	Qua		0.7560		10.0	10.0	0.4	50.0
Chloroform	Qua		0.4237		10.2	10.0	2.0	20.0
Isobutyl alcohol	Qua		0.0064		263	250	5.1	50.0
2,2-Dichloropropane	Qua		0.4734		10.1	10.0	0.6	35.0
Tetrahydrofuran	Lin1		0.0202		19.9	20.0	-0.8	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCVIS 600-293862/2 Calibration Date: 05/05/2020 10:39

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C12601.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.2295	0.2022		8.81	10.0	-11.9	35.0
1,1,1-Trichloroethane	Qua		0.4274		9.65	10.0	-3.5	35.0
1,1-Dichloropropene	Qua		0.3792		10.2	10.0	2.3	35.0
Cyclohexane	Qua		0.4282		10.1	10.0	1.4	35.0
Carbon tetrachloride	Qua		0.3670		9.47	10.0	-5.3	35.0
Benzene	Qua		1.044		10.6	10.0	6.3	35.0
Tert-amyl methyl ether	Lin1		0.5420		9.88	10.0	-1.2	50.0
Isooctane	Qua		0.8508		10.8	10.0	8.3	35.0
Ethyl acrylate	Ave	0.1989	0.1814		9.12	10.0	-8.8	35.0
n-Heptane	Qua		0.3851		11.4	10.0	13.9	35.0
Dibromomethane	Ave	0.0811	0.0702		8.66	10.0	-13.4	35.0
1,2-Dichloropropane	Qua		0.2270		10.2	10.0	1.5	20.0
2-Nitropropane	Lin2		0.0282		21.5	20.0	7.4	35.0
Trichloroethene	Qua		0.2573		9.21	10.0	-7.9	35.0
Bromodichloromethane	Ave	0.3127	0.2766		8.85	10.0	-11.5	35.0
Methyl methacrylate	Ave	0.1101	0.1008		18.3	20.0	-8.4	50.0
1,4-Dioxane	Lin2		0.0007		242	200	21.1	50.0
2-Chloroethyl vinyl ether	Lin1		0.0446		17.4	20.0	-13.1	35.0
Methylcyclohexane	Qua		0.4714		10.1	10.0	0.6	35.0
cis-1,3-Dichloropropene	Ave	1.035	0.8532		8.24	10.0	-17.6	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0924	0.0858		18.6	20.0	-7.1	50.0
trans-1,3-Dichloropropene	Ave	0.6639	0.5465		8.23	10.0	-17.7	35.0
1,1,2-Trichloroethane	Ave	0.3832	0.2933		7.65	10.0	-23.5	35.0
Ethyl methacrylate	Ave	0.4672	0.3550		7.60	10.0	-24.0	50.0
Toluene	Lin2		1.652		8.99	10.0	-10.1	20.0
1,3-Dichloropropane	Ave	0.6735	0.5699		8.46	10.0	-15.4	35.0
2-Hexanone	Ave	0.1551	0.1396		18.0	20.0	-10.0	50.0
Dibromochloromethane	Ave	0.4749	0.3599		7.58	10.0	-24.2	35.0
n-Butyl acetate	Ave	0.4458	0.3862		8.66	10.0	-13.4	35.0
1,2-Dibromoethane	Ave	0.3370	0.2638		7.83	10.0	-21.7	35.0
Tetrachloroethene	Ave	0.6523	0.5173		7.93	10.0	-20.7	35.0
1-Chlorohexane	Ave	0.7135	0.6340		8.89	10.0	-11.2	35.0
1,1,1,2-Tetrachloroethane	Ave	0.7483	0.5464		7.30	10.0	-27.0	35.0
Chlorobenzene	Ave	1.890	1.514	0.3000	8.01	10.0	-19.9	35.0
Ethylbenzene	Ave	1.181	1.113		9.43	10.0	-5.8	20.0
m-Xylene & p-Xylene	Ave	2.595	2.150		8.29	10.0	-17.1	35.0
Bromoform	Ave	0.1935	0.1781	0.1000	9.20	10.0	-8.0	35.0
Styrene	Ave	1.867	1.467		7.85	10.0	-21.5	35.0
o-Xylene	Ave	1.342	1.072		7.99	10.0	-20.1	35.0
1,1,2,2-Tetrachloroethane	Ave	0.3419	0.3594	0.3000	10.5	10.0	5.1	35.0
trans-1,4-Dichloro-2-butene	Ave	0.0735	0.0602		8.19	10.0	-18.1	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCVIS 600-293862/2 Calibration Date: 05/05/2020 10:39

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C12601.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.1076	0.0818		7.61	10.0	-23.9	35.0
Isopropylbenzene	Qua		2.835		8.58	10.0	-14.2	35.0
Bromobenzene	Ave	0.7206	0.5330		7.40	10.0	-26.0	35.0
N-Propylbenzene	Ave	0.9635	0.7954		8.26	10.0	-17.4	35.0
2-Chlorotoluene	Ave	0.8099	0.6380		7.88	10.0	-21.2	35.0
4-Chlorotoluene	Ave	2.323	1.937		8.34	10.0	-16.6	35.0
1,3,5-Trimethylbenzene	Qua		2.291		8.67	10.0	-13.3	35.0
tert-Butylbenzene	Qua		1.899		8.69	10.0	-13.1	35.0
1,2,4-Trimethylbenzene	Qua		2.382		8.64	10.0	-13.6	35.0
sec-Butylbenzene	Qua		2.908		9.19	10.0	-8.1	35.0
Benzyl chloride	Ave	0.7773	0.5655		7.28	10.0	-27.2	35.0
1,3-Dichlorobenzene	Ave	1.508	1.165		7.72	10.0	-22.8	35.0
4-Isopropyltoluene	Qua		2.342		9.08	10.0	-9.2	35.0
1,4-Dichlorobenzene	Qua		1.177		8.43	10.0	-15.7	35.0
1,2,3-Trimethylbenzene	Qua		2.363		8.52	10.0	-14.8	35.0
1,2-Dichlorobenzene	Ave	1.323	0.9702		7.34	10.0	-26.7	35.0
n-Butylbenzene	Lin1		2.211		10.4	10.0	3.6	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0626	0.0417		6.66	10.0	-33.4	35.0
1,3,5-Trichlorobenzene	Qua		0.7129		7.66	10.0	-23.4	35.0
1,2,4-Trichlorobenzene	Ave	0.6313	0.4201		6.66	10.0	-33.5	35.0
Naphthalene	Lin1		0.5861		7.41	10.0	-25.9	35.0
Hexachlorobutadiene	Qua		0.1274		7.82	10.0	-21.8	35.0
1,2,3-Trichlorobenzene	Qua		0.2471		6.19	10.0	-38.1*	35.0
Dibromofluoromethane	Lin1		0.2407		10.1	10.0	0.6	35.0
1,2-Dichloroethane-d4 (Surr)	Lin2		0.2149		9.70	10.0	-3.0	35.0
Toluene-d8 (Surr)	Lin2		2.607		9.38	10.0	-6.2	35.0
4-Bromofluorobenzene	Lin1		0.7713		9.00	10.0	-10.0	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCVIS 600-293940/2 Calibration Date: 05/06/2020 10:36

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C12701.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2046	0.2542		12.4	10.0	24.3	35.0
Chloromethane	Ave	0.1506	0.1871	0.1000	12.4	10.0	24.2	35.0
Vinyl chloride	Qua		0.1542		11.2	10.0	12.0	20.0
Butadiene	Ave	0.1546	0.2146		13.9	10.0	38.8*	35.0
Bromomethane	Qua		0.2327		17.3	10.0	72.9*	35.0
Chloroethane	Ave	0.1498	0.1957		13.1	10.0	30.6	35.0
Dichlorofluoromethane	Ave	0.3631	0.4883		13.5	10.0	34.5	35.0
Acrolein	Ave	0.0135	0.0105		38.7	50.0	-22.6	50.0
Trichlorofluoromethane	Ave	0.3822	0.5035		13.2	10.0	31.7	35.0
Acetonitrile	Lin1		0.0077		97.3	100	-2.7	50.0
Isopropyl alcohol	Lin2		0.0031		79.1	100	-20.9	50.0
Acetone	Lin1		0.0181		16.1	20.0	-19.7	50.0
Ethyl ether	Ave	0.1582	0.1342		8.49	10.0	-15.2	35.0
t-Butanol	Ave	0.0085	0.0069		81.0	100	-19.0	35.0
1,1-Dichloroethene	Qua		0.2290		9.53	10.0	-4.7	20.0
Acrylonitrile	Ave	0.0207	0.0180		87.0	100	-13.0	50.0
Iodomethane	Ave	0.3331	0.1961		5.89	10.0	-41.1*	35.0
Methylene Chloride	Lin1		0.2054		9.17	10.0	-8.3	50.0
Methyl acetate	Ave	0.0621	0.0566		18.2	20.0	-8.8	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		0.1953		10.0	10.0	0.2	35.0
3-Chloro-1-propene	Lin1		0.1552		10.8	10.0	7.6	35.0
Carbon disulfide	Lin1		0.6417		10.5	10.0	4.8	35.0
trans-1,2-Dichloroethene	Lin1		0.2484		10.4	10.0	3.8	35.0
Methyl tert-butyl ether	Lin1		0.4135		9.10	10.0	-9.0	35.0
1,1-Dichloroethane	Qua		0.4775	0.1000	10.2	10.0	2.0	35.0
Propionitrile	Ave	0.0100	0.0083		82.8	100	-17.2	35.0
Vinyl acetate	Ave	0.2728	0.2376		17.4	20.0	-12.9	50.0
2-Chloro-1,3-butadiene	Qua		0.4115		10.7	10.0	6.7	35.0
Hexane	Qua		0.3913		11.5	10.0	14.5	35.0
Isopropyl ether	Qua		0.8130		10.1	10.0	0.9	35.0
2-Butanone (MEK)	Ave	0.0122	0.0098		16.1	20.0	-19.7	50.0
Methacrylonitrile	Ave	0.0125	0.0109		86.6	100	-13.4	35.0
cis-1,2-Dichloroethene	Lin1		0.2454		9.79	10.0	-2.1	35.0
Ethyl acetate	Ave	0.0906	0.0781		17.3	20.0	-13.8	35.0
Chlorobromomethane	Ave	0.1045	0.0832		7.96	10.0	-20.4	35.0
Tert-butyl ethyl ether	Qua		0.6964		9.16	10.0	-8.4	50.0
Chloroform	Qua		0.4027		9.64	10.0	-3.6	20.0
Isobutyl alcohol	Qua		0.0057		233	250	-6.9	50.0
2,2-Dichloropropane	Qua		0.4712		10.0	10.0	0.0	35.0
Tetrahydrofuran	Lin1		0.0162		15.8	20.0	-21.0	35.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCVIS 600-293940/2 Calibration Date: 05/06/2020 10:36

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C12701.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.2295	0.1883		8.20	10.0	-18.0	35.0
1,1,1-Trichloroethane	Qua		0.4224		9.52	10.0	-4.8	35.0
1,1-Dichloropropene	Qua		0.3726		10.0	10.0	0.3	35.0
Cyclohexane	Qua		0.4125		9.73	10.0	-2.7	35.0
Carbon tetrachloride	Qua		0.3571		9.19	10.0	-8.1	35.0
Benzene	Qua		0.9656		9.74	10.0	-2.6	35.0
Tert-amyl methyl ether	Lin1		0.4997		9.07	10.0	-9.3	50.0
Isooctane	Qua		0.8435		10.7	10.0	7.3	35.0
Ethyl acrylate	Ave	0.1989	0.1633		8.21	10.0	-17.9	35.0
n-Heptane	Qua		0.3673		10.8	10.0	8.2	35.0
Dibromomethane	Ave	0.0811	0.0636		7.85	10.0	-21.5	35.0
1,2-Dichloropropane	Qua		0.2137		9.50	10.0	-5.0	20.0
2-Nitropropane	Lin2		0.0232		17.6	20.0	-11.9	35.0
Trichloroethene	Qua		0.2431		8.65	10.0	-13.5	35.0
Bromodichloromethane	Ave	0.3127	0.2535		8.11	10.0	-18.9	35.0
Methyl methacrylate	Ave	0.1101	0.0902		16.4	20.0	-18.1	50.0
1,4-Dioxane	Lin2		0.0004		161	200	-19.7	50.0
2-Chloroethyl vinyl ether	Lin1		0.0423		16.5	20.0	-17.5	35.0
Methylcyclohexane	Qua		0.4564		9.71	10.0	-2.9	35.0
cis-1,3-Dichloropropene	Ave	1.035	0.8235		7.96	10.0	-20.4	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0924	0.0731		15.8	20.0	-20.8	50.0
trans-1,3-Dichloropropene	Ave	0.6639	0.5159		7.77	10.0	-22.3	35.0
1,1,2-Trichloroethane	Ave	0.3832	0.2784		7.27	10.0	-27.3	35.0
Ethyl methacrylate	Ave	0.4672	0.3245		6.95	10.0	-30.5	50.0
Toluene	Lin2		1.626		8.84	10.0	-11.6	20.0
1,3-Dichloropropane	Ave	0.6735	0.5316		7.89	10.0	-21.1	35.0
2-Hexanone	Ave	0.1551	0.1229		15.9	20.0	-20.8	50.0
Dibromochloromethane	Ave	0.4749	0.3375		7.11	10.0	-28.9	35.0
n-Butyl acetate	Ave	0.4458	0.3459		7.76	10.0	-22.4	35.0
1,2-Dibromoethane	Ave	0.3370	0.2403		7.13	10.0	-28.7	35.0
Tetrachloroethene	Ave	0.6523	0.5024		7.70	10.0	-23.0	35.0
1-Chlorohexane	Ave	0.7135	0.6203		8.69	10.0	-13.1	35.0
1,1,1,2-Tetrachloroethane	Ave	0.7483	0.5941		7.94	10.0	-20.6	35.0
Chlorobenzene	Ave	1.890	1.449	0.3000	7.67	10.0	-23.3	35.0
Ethylbenzene	Ave	1.181	1.085		9.18	10.0	-8.2	20.0
m-Xylene & p-Xylene	Ave	2.595	2.042		7.87	10.0	-21.3	35.0
Bromoform	Ave	0.1935	0.1555	0.1000	8.03	10.0	-19.7	35.0
Styrene	Ave	1.867	1.387		7.43	10.0	-25.7	35.0
o-Xylene	Ave	1.342	1.025		7.63	10.0	-23.7	35.0
1,1,2,2-Tetrachloroethane	Ave	0.3419	0.3786	0.3000	11.1	10.0	10.7	35.0
trans-1,4-Dichloro-2-butene	Ave	0.0735	0.0622		8.46	10.0	-15.4	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCVIS 600-293940/2 Calibration Date: 05/06/2020 10:36

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C12701.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.1076	0.0847		7.88	10.0	-21.2	35.0
Isopropylbenzene	Qua		3.107		9.48	10.0	-5.2	35.0
Bromobenzene	Ave	0.7206	0.5619		7.80	10.0	-22.0	35.0
N-Propylbenzene	Ave	0.9635	0.8586		8.91	10.0	-10.9	35.0
2-Chlorotoluene	Ave	0.8099	0.6858		8.47	10.0	-15.3	35.0
4-Chlorotoluene	Ave	2.323	2.092		9.01	10.0	-9.9	35.0
1,3,5-Trimethylbenzene	Qua		2.492		9.51	10.0	-5.0	35.0
tert-Butylbenzene	Qua		2.092		9.66	10.0	-3.4	35.0
1,2,4-Trimethylbenzene	Qua		2.587		9.45	10.0	-5.5	35.0
sec-Butylbenzene	Qua		3.168		10.1	10.0	0.8	35.0
Benzyl chloride	Ave	0.7773	0.5607		7.21	10.0	-27.9	35.0
1,3-Dichlorobenzene	Ave	1.508	1.233		8.17	10.0	-18.3	35.0
4-Isopropyltoluene	Qua		2.591		10.2	10.0	1.6	35.0
1,4-Dichlorobenzene	Qua		1.268		9.15	10.0	-8.5	35.0
1,2,3-Trimethylbenzene	Qua		2.503		9.08	10.0	-9.2	35.0
1,2-Dichlorobenzene	Ave	1.323	1.028		7.77	10.0	-22.3	35.0
n-Butylbenzene	Lin1		2.421		11.4	10.0	13.8	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0626	0.0376		6.01	10.0	-39.9*	35.0
1,3,5-Trichlorobenzene	Qua		0.7280		7.83	10.0	-21.7	35.0
1,2,4-Trichlorobenzene	Ave	0.6313	0.4011		6.35	10.0	-36.5*	35.0
Naphthalene	Lin1		0.5466		6.88	10.0	-31.2	35.0
Hexachlorobutadiene	Qua		0.1400		8.66	10.0	-13.4	35.0
1,2,3-Trichlorobenzene	Qua		0.2250		5.59	10.0	-44.1*	35.0
Dibromofluoromethane	Lin1		0.2269		9.45	10.0	-5.5	35.0
1,2-Dichloroethane-d4 (Surr)	Lin2		0.2031		9.16	10.0	-8.4	35.0
Toluene-d8 (Surr)	Lin2		2.592		9.33	10.0	-6.7	35.0
4-Bromofluorobenzene	Lin1		0.8415		9.89	10.0	-1.1	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: ICV 600-289750/1013 Calibration Date: 03/09/2020 20:10

Instrument ID: CHVOAMS06 Calib Start Date: 03/09/2020 15:30

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 03/09/2020 18:18

Lab File ID: J06911-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4321		9.88	10.0	-1.2	50.0
Chloromethane	Ave	0.5699	0.6270	0.1000	11.0	10.0	10.0	30.0
Vinyl chloride	Ave	0.4304	0.4715		11.0	10.0	9.5	30.0
Butadiene	Ave	0.5712	0.6270		11.0	10.0	9.8	50.0
Bromomethane	Ave	0.2346	0.2556		10.9	10.0	9.0	30.0
Chloroethane	Ave	0.2400	0.2587		10.8	10.0	7.8	30.0
Dichlorofluoromethane	Ave	0.6932	0.7077		10.2	10.0	2.1	30.0
Acrolein	Ave	0.0161	0.0175		54.3	50.0	8.7	50.0
Acetonitrile	Ave	0.0413	0.0399		96.7	100	-3.3	30.0
Trichlorofluoromethane	Ave	0.7541	0.8292		11.0	10.0	9.9	30.0
Isopropyl alcohol	Ave	0.0215	0.0270		126	100	25.5	50.0
Acetone	Lin1		0.1371		26.2	20.0	30.9	50.0
Ethyl ether	Ave	0.5140	0.5193		10.1	10.0	1.0	50.0
t-Butanol	Ave	0.0527	0.0664		126	100	26.0	30.0
1,1-Dichloroethene	Ave	0.4977	0.4643		9.33	10.0	-6.7	30.0
Acrylonitrile	Ave	0.1023	0.1190		116	100	16.4	50.0
Iodomethane	Ave	0.8489	0.8195		9.65	10.0	-3.5	30.0
Methylene Chloride	Lin2		0.6251		11.1	10.0	11.1	50.0
Methyl acetate	Lin		0.3941		25.1	20.0	25.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4003	0.3700		9.24	10.0	-7.6	30.0
3-Chloro-1-propene	Qua		0.3346		10.8	10.0	8.2	30.0
Carbon disulfide	Ave	2.012	1.894		9.41	10.0	-5.9	30.0
trans-1,2-Dichloroethene	Ave	0.5580	0.5336		9.56	10.0	-4.4	30.0
Methyl tert-butyl ether	Ave	1.582	1.623		10.3	10.0	2.6	30.0
Propionitrile	Lin		0.0476		121	100	21.4	30.0
1,1-Dichloroethane	Ave	1.195	1.175	0.1000	9.83	10.0	-1.7	30.0
Vinyl acetate	Ave	0.9117	0.9912		21.7	20.0	8.7	50.0
2-Chloro-1,3-butadiene	Ave	1.134	1.126		9.93	10.0	-0.7	30.0
Hexane	Ave	0.8752	0.7911		9.04	10.0	-9.6	30.0
Isopropyl ether	Qua		2.434		10.9	10.0	8.6	30.0
2-Butanone (MEK)	Lin1		0.0469		23.0	20.0	15.1	50.0
Methacrylonitrile	Qua		0.0480		109	100	9.3	30.0
cis-1,2-Dichloroethene	Lin1		0.5752		11.8	10.0	18.4	30.0
Ethyl acetate	Ave	0.3977	0.4259		21.4	20.0	7.1	30.0
Chlorobromomethane	Ave	0.2250	0.2241		9.96	10.0	-0.4	30.0
Chloroform	Ave	1.096	1.026		9.36	10.0	-6.4	30.0
Tert-butyl ethyl ether	Ave	1.993	2.020		10.1	10.0	1.4	30.0
Isobutyl alcohol	Ave	0.0367	0.0404		276	250	10.2	50.0
2,2-Dichloropropane	Qua		0.6366		10.3	10.0	3.4	30.0
Tetrahydrofuran	Lin		0.1580		23.0	20.0	15.1	30.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: ICV 600-289750/1013 Calibration Date: 03/09/2020 20:10

Instrument ID: CHVOAMS06 Calib Start Date: 03/09/2020 15:30

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 03/09/2020 18:18

Lab File ID: J06911-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.8130	0.8223		10.1	10.0	1.1	30.0
1,1,1-Trichloroethane	Ave	0.9033	0.8979		9.94	10.0	-0.6	30.0
1,1-Dichloropropene	Ave	0.8171	0.7852		9.61	10.0	-3.9	30.0
Cyclohexane	Ave	0.8432	0.7697		9.13	10.0	-8.7	50.0
Carbon tetrachloride	Ave	0.7247	0.7230		9.98	10.0	-0.2	30.0
Benzene	Ave	2.179	2.144		9.84	10.0	-1.6	30.0
Tert-amyl methyl ether	Ave	1.600	1.601		10.0	10.0	0.0	30.0
Isooctane	Ave	1.615	1.586		9.82	10.0	-1.8	30.0
Ethyl acrylate	Ave	0.5952	0.5979		10.0	10.0	0.4	30.0
n-Heptane	Ave	0.8034	0.7436		9.26	10.0	-7.4	30.0
Dibromomethane	Ave	0.2849	0.3000		10.5	10.0	5.3	30.0
1,2-Dichloropropane	Ave	0.5797	0.5710		9.85	10.0	-1.5	30.0
2-Nitropropane	Ave	0.1428	0.1449		20.3	20.0	1.4	30.0
Trichloroethene	Ave	0.4955	0.4898		9.89	10.0	-1.2	30.0
Bromodichloromethane	Ave	0.7805	0.7892		10.1	10.0	1.1	30.0
Methyl methacrylate	Ave	0.4034	0.4566		22.6	20.0	13.2	50.0
1,4-Dioxane	Ave	0.0025	0.0028		227	200	13.2	50.0
2-Chloroethyl vinyl ether	Ave	0.3676	0.3704		20.2	20.0	0.8	30.0
Methylcyclohexane	Ave	0.8891	0.8536		9.60	10.0	-4.0	30.0
cis-1,3-Dichloropropene	Ave	1.427	1.448		10.2	10.0	1.5	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6051	0.6095		20.1	20.0	0.7	50.0
trans-1,3-Dichloropropene	Ave	1.167	1.188		10.2	10.0	1.7	30.0
n-Butyl acetate	Ave	0.1977	0.1958		9.90	10.0	-1.0	30.0
1,1,2-Trichloroethane	Ave	0.5899	0.5723		9.70	10.0	-3.0	30.0
Ethyl methacrylate	Ave	0.9689	0.9638		9.95	10.0	-0.5	50.0
Toluene	Ave	2.076	1.987		9.57	10.0	-4.3	30.0
1,3-Dichloropropane	Ave	1.102	1.088		9.87	10.0	-1.3	30.0
Dibromochloromethane	Ave	0.7460	0.7320		9.81	10.0	-1.9	30.0
2-Hexanone	Lin1		0.7804		23.1	20.0	15.5	50.0
1,2-Dibromoethane	Ave	0.5759	0.5668		9.84	10.0	-1.6	30.0
Tetrachloroethene	Ave	0.6275	0.5969		9.51	10.0	-4.9	30.0
1-Chlorohexane	Ave	0.9442	0.9214		9.76	10.0	-2.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.8703	0.8725		10.0	10.0	0.2	30.0
Chlorobenzene	Ave	2.157	2.124	0.3000	9.84	10.0	-1.6	30.0
Ethylbenzene	Ave	1.236	1.180		9.54	10.0	-4.6	30.0
m-Xylene & p-Xylene	Ave	3.475	3.307		9.52	10.0	-4.8	30.0
Bromoform	Ave	0.4811	0.5389	0.1000	11.2	10.0	12.0	30.0
Styrene	Ave	2.366	2.384		10.1	10.0	0.8	30.0
o-Xylene	Qua		1.487		10.4	10.0	4.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9318	0.9675	0.3000	10.4	10.0	3.8	30.0
trans-1,4-Dichloro-2-butene	Ave	0.4077	0.4160		10.2	10.0	2.1	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: ICV 600-289750/1013 Calibration Date: 03/09/2020 20:10

Instrument ID: CHVOAMS06 Calib Start Date: 03/09/2020 15:30

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 03/09/2020 18:18

Lab File ID: J06911-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.2656	0.2609		9.82	10.0	-1.8	30.0
Isopropylbenzene	Ave	4.229	4.254		10.1	10.0	0.6	30.0
Bromobenzene	Ave	1.029	1.049		10.2	10.0	2.0	30.0
N-Propylbenzene	Ave	1.120	1.133		10.1	10.0	1.2	30.0
2-Chlorotoluene	Ave	1.018	1.021		10.0	10.0	0.3	30.0
4-Chlorotoluene	Ave	3.602	3.617		10.0	10.0	0.4	30.0
1,3,5-Trimethylbenzene	Ave	3.982	4.030		10.1	10.0	1.2	30.0
tert-Butylbenzene	Ave	3.006	3.030		10.1	10.0	0.8	30.0
1,2,4-Trimethylbenzene	Ave	4.133	4.297		10.4	10.0	4.0	30.0
sec-Butylbenzene	Ave	4.491	4.539		10.1	10.0	1.1	30.0
Benzyl chloride	Ave	1.816	1.972		10.9	10.0	8.5	30.0
1,3-Dichlorobenzene	Qua		2.082		11.1	10.0	10.6	30.0
1,4-Dichlorobenzene	Qua		2.091		11.1	10.0	11.4	30.0
4-Isopropyltoluene	Qua		3.741		10.8	10.0	8.2	30.0
1,2,3-Trimethylbenzene	Ave	4.060	4.249		10.5	10.0	4.7	30.0
1,2-Dichlorobenzene	Ave	2.047	2.064		10.1	10.0	0.9	30.0
n-Butylbenzene	Ave	3.858	3.925		10.2	10.0	1.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1733	0.1943		11.2	10.0	12.1	30.0
1,3,5-Trichlorobenzene	Ave	1.463	1.588		10.9	10.0	8.5	30.0
1,2,4-Trichlorobenzene	Ave	1.269	1.397		11.0	10.0	10.1	30.0
Naphthalene	Ave	2.148	2.598		12.1	10.0	20.9	30.0
Hexachlorobutadiene	Qua		0.2704		11.3	10.0	12.5	30.0
1,2,3-Trichlorobenzene	Ave	0.9390	1.091		11.6	10.0	16.2	30.0
Dibromofluoromethane	Lin1		0.3678		11.4	12.5	-8.8	30.0
1,2-Dichloroethane-d4 (Surr)	Lin2		0.4869		10.5	12.5	-16.4	30.0
Toluene-d8 (Surr)	Lin2		2.365		11.1	12.5	-11.4	30.0
4-Bromofluorobenzene	Lin1		1.193		11.5	12.5	-8.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCVIS 600-293693/3 Calibration Date: 05/01/2020 14:54

Instrument ID: CHVOAMS06 Calib Start Date: 03/09/2020 15:30

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 03/09/2020 18:18

Lab File ID: J12201A.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2959		6.82	10.0	-31.8	35.0
Chloromethane	Ave	0.5699	0.1816	0.1000	3.19	10.0	-68.1*	35.0
Vinyl chloride	Ave	0.4304	0.2435		5.66	10.0	-43.4*	20.0
Butadiene	Ave	0.5712	0.2846		4.98	10.0	-50.2*	35.0
Bromomethane	Ave	0.2346	0.2087		8.90	10.0	-11.0	35.0
Chloroethane	Ave	0.2400	0.1444		6.01	10.0	-39.9*	35.0
Dichlorofluoromethane	Ave	0.6932	0.6003		8.66	10.0	-13.4	35.0
Acrolein	Ave	0.0161	0.0155		48.0	50.0	-3.9	50.0
Acetonitrile	Ave	0.0413	0.0124		30.1	100	-69.9*	50.0
Trichlorofluoromethane	Ave	0.7541	1.009		13.4	10.0	33.8	35.0
Isopropyl alcohol	Ave	0.0215	0.0106		49.1	100	-50.9*	50.0
Acetone	Lin1		0.0625		11.2	20.0	-44.0	50.0
Ethyl ether	Ave	0.5140	0.2805		5.46	10.0	-45.4*	35.0
t-Butanol	Ave	0.0527	0.0416		78.9	100	-21.1	35.0
1,1-Dichloroethene	Ave	0.4977	0.4588		9.22	10.0	-7.8	20.0
Acrylonitrile	Ave	0.1023	0.0506		49.5	100	-50.5*	50.0
Iodomethane	Ave	0.8489	0.7943		9.36	10.0	-6.4	35.0
Methylene Chloride	Lin2		0.5591		9.89	10.0	-1.1	50.0
Methyl acetate	Lin		0.1422		7.92	20.0	-60.4*	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4003	0.4266		10.7	10.0	6.6	35.0
3-Chloro-1-propene	Qua		0.2897		9.25	10.0	-7.5	35.0
Carbon disulfide	Ave	2.012	1.710		8.50	10.0	-15.0	35.0
trans-1,2-Dichloroethene	Ave	0.5580	0.5028		9.01	10.0	-9.9	35.0
Methyl tert-butyl ether	Ave	1.582	1.246		7.88	10.0	-21.2	35.0
Propionitrile	Lin		0.0188		42.8	100	-57.2*	35.0
1,1-Dichloroethane	Ave	1.195	1.075	0.1000	9.00	10.0	-10.0	35.0
Vinyl acetate	Ave	0.9117	0.2993		6.57	20.0	-67.2*	50.0
2-Chloro-1,3-butadiene	Ave	1.134	0.7406		6.53	10.0	-34.7	35.0
Hexane	Ave	0.8752	0.5132		5.86	10.0	-41.4*	35.0
Isopropyl ether	Qua		0.9489		3.73	10.0	-62.7*	35.0
2-Butanone (MEK)	Lin1		0.0492		24.2	20.0	21.0	50.0
Methacrylonitrile	Qua		0.0350		76.8	100	-23.2	35.0
cis-1,2-Dichloroethene	Lin1		0.5271		10.8	10.0	8.1	35.0
Ethyl acetate	Ave	0.3977	0.1903		9.57	20.0	-52.2*	35.0
Chlorobromomethane	Ave	0.2250	0.2042		9.08	10.0	-9.2	35.0
Chloroform	Ave	1.096	1.045		9.53	10.0	-4.7	20.0
Tert-butyl ethyl ether	Ave	1.993	0.9744		4.89	10.0	-51.1*	35.0
Isobutyl alcohol	Ave	0.0367	0.0165		113	250	-54.9*	50.0
2,2-Dichloropropane	Qua		0.6617		10.8	10.0	7.9	35.0
Tetrahydrofuran	Lin		0.0583		6.78	20.0	-66.1*	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCVIS 600-293693/3 Calibration Date: 05/01/2020 14:54

Instrument ID: CHVOAMS06 Calib Start Date: 03/09/2020 15:30

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 03/09/2020 18:18

Lab File ID: J12201A.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.8130	0.7005		8.62	10.0	-13.8	35.0
1,1,1-Trichloroethane	Ave	0.9033	1.047		11.6	10.0	15.9	35.0
1,1-Dichloropropene	Ave	0.8171	0.8008		9.80	10.0	-2.0	35.0
Cyclohexane	Ave	0.8432	0.8121		9.63	10.0	-3.7	35.0
Carbon tetrachloride	Ave	0.7247	0.8923		12.3	10.0	23.1	35.0
Benzene	Ave	2.179	1.971		9.04	10.0	-9.6	35.0
Tert-amyl methyl ether	Ave	1.600	1.125		7.03	10.0	-29.7	35.0
Isooctane	Ave	1.615	1.012		6.27	10.0	-37.3*	35.0
Ethyl acrylate	Ave	0.5952	0.4084		6.86	10.0	-31.4	35.0
n-Heptane	Ave	0.8034	0.4188		5.21	10.0	-47.9*	35.0
Dibromomethane	Ave	0.2849	0.2939		10.3	10.0	3.2	35.0
1,2-Dichloropropane	Ave	0.5797	0.6078		10.5	10.0	4.8	20.0
2-Nitropropane	Ave	0.1428	0.0854		12.0	20.0	-40.2*	35.0
Trichloroethene	Ave	0.4955	0.6176		12.5	10.0	24.7	35.0
Bromodichloromethane	Ave	0.7805	0.8361		10.7	10.0	7.1	35.0
Methyl methacrylate	Ave	0.4034	0.2138		10.6	20.0	-47.0	50.0
1,4-Dioxane	Ave	0.0025	0.0003		20.9	200	-89.5*	50.0
2-Chloroethyl vinyl ether	Ave	0.3676	0.2150		11.7	20.0	-41.5*	35.0
Methylcyclohexane	Ave	0.8891	0.9407		10.6	10.0	5.8	35.0
cis-1,3-Dichloropropene	Ave	1.427	1.240		8.69	10.0	-13.1	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6051	0.3563		11.8	20.0	-41.1	50.0
trans-1,3-Dichloropropene	Ave	1.167	1.097		9.40	10.0	-6.0	35.0
n-Butyl acetate	Ave	0.1977	0.0532		2.69	10.0	-73.1*	35.0
1,1,2-Trichloroethane	Ave	0.5899	0.5076		8.61	10.0	-13.9	35.0
Ethyl methacrylate	Ave	0.9689	0.7620		7.87	10.0	-21.4	50.0
Toluene	Ave	2.076	1.856		8.94	10.0	-10.6	20.0
1,3-Dichloropropane	Ave	1.102	0.9369		8.50	10.0	-15.0	35.0
Dibromochloromethane	Ave	0.7460	0.6894		9.24	10.0	-7.6	35.0
2-Hexanone	Lin1		0.3135		8.87	20.0	-55.7*	50.0
1,2-Dibromoethane	Ave	0.5759	0.5296		9.20	10.0	-8.0	35.0
Tetrachloroethene	Ave	0.6275	0.6635		10.6	10.0	5.7	35.0
1-Chlorohexane	Ave	0.9442	0.6076		6.44	10.0	-35.7*	35.0
1,1,1,2-Tetrachloroethane	Ave	0.8703	0.7930		9.11	10.0	-8.9	35.0
Chlorobenzene	Ave	2.157	2.011	0.3000	9.32	10.0	-6.8	35.0
Ethylbenzene	Ave	1.236	1.122		9.07	10.0	-9.3	20.0
m-Xylene & p-Xylene	Ave	3.475	3.290		9.47	10.0	-5.3	35.0
Bromoform	Ave	0.4811	0.5031	0.1000	10.5	10.0	4.6	35.0
Styrene	Ave	2.366	2.218		9.38	10.0	-6.2	35.0
1,1,2,2-Tetrachloroethane	Ave	0.9318	0.6424	0.3000	6.90	10.0	-31.1	35.0
o-Xylene	Qua		1.372		9.52	10.0	-4.8	35.0
trans-1,4-Dichloro-2-butene	Ave	0.4077	0.2838		6.96	10.0	-30.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCVIS 600-293693/3 Calibration Date: 05/01/2020 14:54

Instrument ID: CHVOAMS06 Calib Start Date: 03/09/2020 15:30

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 03/09/2020 18:18

Lab File ID: J12201A.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.2656	0.2380		8.96	10.0	-10.4	35.0
Isopropylbenzene	Ave	4.229	4.166		9.85	10.0	-1.5	35.0
Bromobenzene	Ave	1.029	0.9864		9.59	10.0	-4.1	35.0
N-Propylbenzene	Ave	1.120	1.073		9.59	10.0	-4.1	35.0
2-Chlorotoluene	Ave	1.018	0.9434		9.26	10.0	-7.4	35.0
4-Chlorotoluene	Ave	3.602	3.501		9.72	10.0	-2.8	35.0
1,3,5-Trimethylbenzene	Ave	3.982	3.950		9.92	10.0	-0.8	35.0
tert-Butylbenzene	Ave	3.006	3.094		10.3	10.0	3.0	35.0
1,2,4-Trimethylbenzene	Ave	4.133	4.044		9.78	10.0	-2.2	35.0
sec-Butylbenzene	Ave	4.491	4.458		9.93	10.0	-0.7	35.0
Benzyl chloride	Ave	1.816	1.903		10.5	10.0	4.8	35.0
1,3-Dichlorobenzene	Qua		1.981		10.5	10.0	4.7	35.0
1,4-Dichlorobenzene	Qua		1.957		10.3	10.0	3.2	35.0
4-Isopropyltoluene	Qua		3.744		10.8	10.0	8.3	35.0
1,2,3-Trimethylbenzene	Ave	4.060	3.968		9.77	10.0	-2.3	35.0
1,2-Dichlorobenzene	Ave	2.047	1.922		9.39	10.0	-6.1	35.0
n-Butylbenzene	Ave	3.858	4.005		10.4	10.0	3.8	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.1733	0.1794		10.4	10.0	3.5	35.0
1,3,5-Trichlorobenzene	Ave	1.463	1.665		11.4	10.0	13.8	35.0
1,2,4-Trichlorobenzene	Ave	1.269	1.403		11.1	10.0	10.5	35.0
Naphthalene	Ave	2.148	2.511		11.7	10.0	16.9	35.0
Hexachlorobutadiene	Qua		0.3169		13.3	10.0	33.1	35.0
1,2,3-Trichlorobenzene	Ave	0.9390	1.075		11.5	10.0	14.5	35.0
Dibromofluoromethane	Lin1		0.4595		11.4	10.0	13.9	35.0
1,2-Dichloroethane-d4 (Surr)	Lin2		0.5702		9.77	10.0	-2.3	35.0
Toluene-d8 (Surr)	Lin2		2.625		9.79	10.0	-2.1	35.0
4-Bromofluorobenzene	Lin1		1.362		10.4	10.0	4.1	35.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-293693/7

Matrix: Water Lab File ID: J12205.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/01/2020 16:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293693 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.0005186	J	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		50-134
460-00-4	4-Bromofluorobenzene	91		67-139
1868-53-7	Dibromofluoromethane	108		62-130
2037-26-5	Toluene-d8 (Surr)	84		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-293862/6

Matrix: Water Lab File ID: C12605.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/05/2020 12:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293862 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		50-134
460-00-4	4-Bromofluorobenzene	113		67-139
1868-53-7	Dibromofluoromethane	97		62-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-293940/6

Matrix: Water Lab File ID: C12705.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 12:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		50-134
460-00-4	4-Bromofluorobenzene	115		67-139
1868-53-7	Dibromofluoromethane	97		62-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-293693/4

Matrix: Water Lab File ID: J12202.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/01/2020 15:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293693 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.007846		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.008366		0.00100	0.000192
71-43-2	Benzene	0.01078		0.00100	0.000176
91-20-3	Naphthalene	0.01117		0.00200	0.000129
127-18-4	Tetrachloroethene	0.01064		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		50-134
460-00-4	4-Bromofluorobenzene	100		67-139
1868-53-7	Dibromofluoromethane	115		62-130
2037-26-5	Toluene-d8 (Surr)	83		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-293862/3

Matrix: Water Lab File ID: C12602.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/05/2020 11:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293862 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.009537		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.008578		0.00100	0.000192
71-43-2	Benzene	0.009424		0.00100	0.000176
91-20-3	Naphthalene	0.008659		0.00200	0.000129
127-18-4	Tetrachloroethene	0.007735		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		50-134
460-00-4	4-Bromofluorobenzene	116		67-139
1868-53-7	Dibromofluoromethane	97		62-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-293940/3

Matrix: Water Lab File ID: C12702.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 11:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.009781		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.008881		0.00100	0.000192
71-43-2	Benzene	0.009415		0.00100	0.000176
91-20-3	Naphthalene	0.007759		0.00200	0.000129
127-18-4	Tetrachloroethene	0.007386		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		50-134
460-00-4	4-Bromofluorobenzene	120		67-139
1868-53-7	Dibromofluoromethane	100		62-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 600-293693/5

Matrix: Water Lab File ID: J12203.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/01/2020 15:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293693 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.008371		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.009691		0.00100	0.000192
71-43-2	Benzene	0.01085		0.00100	0.000176
91-20-3	Naphthalene	0.01060		0.00200	0.000129
127-18-4	Tetrachloroethene	0.01094		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		50-134
460-00-4	4-Bromofluorobenzene	97		67-139
1868-53-7	Dibromofluoromethane	104		62-130
2037-26-5	Toluene-d8 (Surr)	88		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 600-293862/4

Matrix: Water Lab File ID: C12603.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/05/2020 11:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293862 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.009527		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.008647		0.00100	0.000192
71-43-2	Benzene	0.009294		0.00100	0.000176
91-20-3	Naphthalene	0.009648		0.00200	0.000129
127-18-4	Tetrachloroethene	0.007648		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		50-134
460-00-4	4-Bromofluorobenzene	117		67-139
1868-53-7	Dibromofluoromethane	99		62-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 600-293940/4

Matrix: Water Lab File ID: C12703.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 11:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.009576		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.008740		0.00100	0.000192
71-43-2	Benzene	0.009291		0.00100	0.000176
91-20-3	Naphthalene	0.008367		0.00200	0.000129
127-18-4	Tetrachloroethene	0.007244		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		50-134
460-00-4	4-Bromofluorobenzene	120		67-139
1868-53-7	Dibromofluoromethane	100		62-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW34-04282020 MS Lab Sample ID: 600-204441-14 MS

Matrix: Water Lab File ID: C12716.D

Analysis Method: 8260B Date Collected: 04/28/2020 10:15

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 17:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01252		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01085		0.00100	0.000192
71-43-2	Benzene	0.01034		0.00100	0.000176
91-20-3	Naphthalene	0.008516		0.00200	0.000129
127-18-4	Tetrachloroethene	0.008071		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		50-134
460-00-4	4-Bromofluorobenzene	119		67-139
1868-53-7	Dibromofluoromethane	101		62-130
2037-26-5	Toluene-d8 (Surr)	90		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW34-04282020 MSD Lab Sample ID: 600-204441-14 MSD

Matrix: Water Lab File ID: C12717.D

Analysis Method: 8260B Date Collected: 04/28/2020 10:15

Sample wt/vol: 20(mL) Date Analyzed: 05/06/2020 17:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293940 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01183		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01040		0.00100	0.000192
71-43-2	Benzene	0.009632		0.00100	0.000176
91-20-3	Naphthalene	0.008314		0.00200	0.000129
127-18-4	Tetrachloroethene	0.007674		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		50-134
460-00-4	4-Bromofluorobenzene	119		67-139
1868-53-7	Dibromofluoromethane	101		62-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 04/21/2020 17:07

Analysis Batch Number: 292951 End Date: 04/22/2020 04:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-292951/1		04/21/2020 17:07	1	C11200.D	DB-VRX 60 0.25(mm)
IC 600-292951/2		04/21/2020 17:33	1	C11201.D	DB-VRX 60 0.25(mm)
IC 600-292951/3		04/21/2020 17:58	1	C11202.D	DB-VRX 60 0.25(mm)
IC 600-292951/4		04/21/2020 18:24	1	C11203.D	DB-VRX 60 0.25(mm)
IC 600-292951/5		04/21/2020 18:50	1	C11204.D	DB-VRX 60 0.25(mm)
ICIS 600-292951/6		04/21/2020 19:16	1	C11205.D	DB-VRX 60 0.25(mm)
IC 600-292951/7		04/21/2020 19:42	1	C11206.D	DB-VRX 60 0.25(mm)
IC 600-292951/8		04/21/2020 20:08	1	C11207.D	DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 21:25	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 21:51	1		DB-VRX 60 0.25(mm)
ICV 600-292951/1012		04/21/2020 21:51	1	C11211-ICV.d	DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 22:42	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 23:08	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 23:33	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 23:59	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 00:25	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 00:50	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 01:16	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 01:41	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 02:07	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 02:33	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 02:58	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 03:24	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 03:49	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 04:15	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 04:40	1		DB-VRX 60 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 05/05/2020 10:13

Analysis Batch Number: 293862 End Date: 05/05/2020 22:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-293862/1		05/05/2020 10:13	1	C12600.D	DB-VRX 60 0.25(mm)
CCVIS 600-293862/2		05/05/2020 10:39	1	C12601.D	DB-VRX 60 0.25(mm)
LCS 600-293862/3		05/05/2020 11:23	1	C12602.D	DB-VRX 60 0.25(mm)
LCSD 600-293862/4		05/05/2020 11:49	1	C12603.D	DB-VRX 60 0.25(mm)
MB 600-293862/6		05/05/2020 12:42	1	C12605.D	DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 13:35	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 14:02	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 14:29	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 14:56	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 15:23	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 15:50	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 16:17	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 16:44	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 17:11	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 17:38	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 18:05	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 18:32	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 18:59	250		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 19:26	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 19:52	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 20:19	5		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 20:45	5		DB-VRX 60 0.25(mm)
600-204441-1 DL		05/05/2020 21:12	5	C12524.D	DB-VRX 60 0.25(mm)
600-204441-5		05/05/2020 21:38	1	C12525.D	DB-VRX 60 0.25(mm)
600-204441-4		05/05/2020 22:04	1	C12526.D	DB-VRX 60 0.25(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 05/06/2020 10:10

Analysis Batch Number: 293940 End Date: 05/06/2020 21:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-293940/1		05/06/2020 10:10	1	C12700.D	DB-VRX 60 0.25(mm)
CCVIS 600-293940/2		05/06/2020 10:36	1	C12701.D	DB-VRX 60 0.25(mm)
LCS 600-293940/3		05/06/2020 11:14	1	C12702.D	DB-VRX 60 0.25(mm)
LCSD 600-293940/4		05/06/2020 11:40	1	C12703.D	DB-VRX 60 0.25(mm)
MB 600-293940/6		05/06/2020 12:31	1	C12705.D	DB-VRX 60 0.25(mm)
600-204441-2		05/06/2020 12:56	1	C12706.D	DB-VRX 60 0.25(mm)
ZZZZZ		05/06/2020 13:22	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/06/2020 13:48	1		DB-VRX 60 0.25(mm)
600-204441-6		05/06/2020 14:14	1	C12709.D	DB-VRX 60 0.25(mm)
600-204441-14		05/06/2020 14:39	1	C12710.D	DB-VRX 60 0.25(mm)
600-204441-7		05/06/2020 15:05	1	C12711.D	DB-VRX 60 0.25(mm)
600-204441-8		05/06/2020 15:31	1	C12712.D	DB-VRX 60 0.25(mm)
600-204441-9		05/06/2020 15:57	1	C12713.D	DB-VRX 60 0.25(mm)
600-204441-10		05/06/2020 16:23	1	C12714.D	DB-VRX 60 0.25(mm)
600-204441-11		05/06/2020 16:48	1	C12715.D	DB-VRX 60 0.25(mm)
600-204441-14 MS		05/06/2020 17:14	1	C12716.D	DB-VRX 60 0.25(mm)
600-204441-14 MSD		05/06/2020 17:40	1	C12717.D	DB-VRX 60 0.25(mm)
600-204441-12		05/06/2020 18:31	1	C12719.D	DB-VRX 60 0.25(mm)
600-204441-13		05/06/2020 18:57	1	C12720.D	DB-VRX 60 0.25(mm)
600-204441-15		05/06/2020 19:23	1	C12721.D	DB-VRX 60 0.25(mm)
600-204441-16		05/06/2020 19:49	1	C12722.D	DB-VRX 60 0.25(mm)
600-204441-17		05/06/2020 20:14	1	C12723.D	DB-VRX 60 0.25(mm)
600-204441-18		05/06/2020 20:40	1	C12724.D	DB-VRX 60 0.25(mm)
600-204441-19		05/06/2020 21:05	1	C12725.D	DB-VRX 60 0.25(mm)
600-204441-20		05/06/2020 21:31	1	C12726.D	DB-VRX 60 0.25(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS06 Start Date: 03/09/2020 14:44

Analysis Batch Number: 289750 End Date: 03/10/2020 03:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-289750/1		03/09/2020 14:44	1	J06900B.D	DB-VRX 60 0.25(mm)
IC 600-289750/3		03/09/2020 15:30	1	J06901.D	DB-VRX 60 0.25(mm)
IC 600-289750/4		03/09/2020 15:58	1	J06902.D	DB-VRX 60 0.25(mm)
IC 600-289750/5		03/09/2020 16:26	1	J06903.D	DB-VRX 60 0.25(mm)
IC 600-289750/6		03/09/2020 16:54	1	J06904.D	DB-VRX 60 0.25(mm)
ICIS 600-289750/7		03/09/2020 17:21	1	J06905.D	DB-VRX 60 0.25(mm)
IC 600-289750/8		03/09/2020 17:49	1	J06906.D	DB-VRX 60 0.25(mm)
IC 600-289750/9		03/09/2020 18:18	1	J06907.D	DB-VRX 60 0.25(mm)
ZZZZZ		03/09/2020 19:42	1		DB-VRX 60 0.25(mm)
ZZZZZ		03/09/2020 20:10	1		DB-VRX 60 0.25(mm)
ICV 600-289750/1013		03/09/2020 20:10	1	J06911-ICV.d	DB-VRX 60 0.25(mm)
ZZZZZ		03/09/2020 21:06	1		DB-VRX 60 0.25(mm)
ZZZZZ		03/09/2020 21:34	1		DB-VRX 60 0.25(mm)
ZZZZZ		03/09/2020 22:02	1		DB-VRX 60 0.25(mm)
ZZZZZ		03/09/2020 22:30	1		DB-VRX 60 0.25(mm)
ZZZZZ		03/09/2020 22:58	1		DB-VRX 60 0.25(mm)
ZZZZZ		03/09/2020 23:26	1		DB-VRX 60 0.25(mm)
ZZZZZ		03/09/2020 23:55	1		DB-VRX 60 0.25(mm)
ZZZZZ		03/10/2020 00:23	1		DB-VRX 60 0.25(mm)
ZZZZZ		03/10/2020 00:51	20		DB-VRX 60 0.25(mm)
ZZZZZ		03/10/2020 01:19	20		DB-VRX 60 0.25(mm)
ZZZZZ		03/10/2020 01:47	20		DB-VRX 60 0.25(mm)
ZZZZZ		03/10/2020 02:15	20		DB-VRX 60 0.25(mm)
ZZZZZ		03/10/2020 02:44	100		DB-VRX 60 0.25(mm)
ZZZZZ		03/10/2020 03:12	100		DB-VRX 60 0.25(mm)
ZZZZZ		03/10/2020 03:40	100		DB-VRX 60 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Instrument ID: CHVOAMS06 Start Date: 05/01/2020 13:31

Analysis Batch Number: 293693 End Date: 05/01/2020 21:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-293693/1		05/01/2020 13:31	1	J12200E.D	DB-VRX 60 0.25(mm)
CCVIS 600-293693/3		05/01/2020 14:54	1	J12201A.D	DB-VRX 60 0.25(mm)
LCS 600-293693/4		05/01/2020 15:22	1	J12202.D	DB-VRX 60 0.25(mm)
LCSD 600-293693/5		05/01/2020 15:50	1	J12203.D	DB-VRX 60 0.25(mm)
MB 600-293693/7		05/01/2020 16:46	1	J12205.D	DB-VRX 60 0.25(mm)
ZZZZZ		05/01/2020 17:14	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/01/2020 17:42	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/01/2020 18:10	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/01/2020 18:38	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/01/2020 19:06	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/01/2020 19:34	20		DB-VRX 60 0.25(mm)
ZZZZZ		05/01/2020 20:02	500		DB-VRX 60 0.25(mm)
ZZZZZ		05/01/2020 20:30	100		DB-VRX 60 0.25(mm)
600-204441-1		05/01/2020 20:59	1	J12214.D	DB-VRX 60 0.25(mm)
600-204441-3		05/01/2020 21:27	1	J12215.D	DB-VRX 60 0.25(mm)

8260B

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Batch Number: 289750 Batch Start Date: 03/09/20 14:44 Batch Analyst: Vela, Kenneth L

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFB 00303	VOAIS250PPM 00147	VOALCSGASPT 00368	VOALCSPT2T 00081
BFB 600-289750/1		8260B		20 mL	20 mL	2 uL			
IC 600-289750/3		8260B		20 mL	20 mL		1 uL		
IC 600-289750/4		8260B		20 mL	20 mL		1 uL		
IC 600-289750/5		8260B		20 mL	20 mL		1 uL		
IC 600-289750/6		8260B		20 mL	20 mL		1 uL		
ICIS 600-289750/7		8260B		20 mL	20 mL		1 uL		
IC 600-289750/8		8260B		20 mL	20 mL		1 uL		
IC 600-289750/9		8260B		20 mL	20 mL		1 uL		
ICV 600-289750/1013		8260B		20 mL	20 mL		1 uL	4 uL	4 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOASS250PPM 00125	VOASTDGASPT 00368	VOASTDst 00130			
BFB 600-289750/1		8260B							
IC 600-289750/3		8260B			0.2 uL	0.2 uL			
IC 600-289750/4		8260B			0.4 uL	0.4 uL			
IC 600-289750/5		8260B			0.8 uL	0.8 uL			
IC 600-289750/6		8260B			2 uL	2 uL			
ICIS 600-289750/7		8260B			4 uL	4 uL			
IC 600-289750/8		8260B			8 uL	8 uL			
IC 600-289750/9		8260B			20 uL	20 uL			
ICV 600-289750/1013		8260B		1 uL					

Batch Notes	
pH Indicator ID	HC991818

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Batch Number: 292951 Batch Start Date: 04/21/20 17:07 Batch Analyst: Vela, Kenneth L

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFB 00307	VOAIS50PPM 00276	VOALCSGASPT 00375	VOALCSPT2T 00085
BFB 600-292951/1		8260B		20 mL	20 mL	2 uL			
IC 600-292951/2		8260B		20 mL	20 mL		5 uL		
IC 600-292951/3		8260B		20 mL	20 mL		5 uL		
IC 600-292951/4		8260B		20 mL	20 mL		5 uL		
IC 600-292951/5		8260B		20 mL	20 mL		5 uL		
ICIS 600-292951/6		8260B		20 mL	20 mL		5 uL		
IC 600-292951/7		8260B		20 mL	20 mL		5 uL		
IC 600-292951/8		8260B		20 mL	20 mL		5 uL		
ICV 600-292951/1012		8260B		20 mL	20 mL		5 uL	4 uL	4 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOASS50PPM 00314	VOASTDGASPT 00375	VOASTDst 00134			
BFB 600-292951/1		8260B							
IC 600-292951/2		8260B			0.2 uL	0.2 uL			
IC 600-292951/3		8260B			0.4 uL	0.4 uL			
IC 600-292951/4		8260B			0.8 uL	0.8 uL			
IC 600-292951/5		8260B			2 uL	2 uL			
ICIS 600-292951/6		8260B			4 uL	4 uL			
IC 600-292951/7		8260B			8 uL	8 uL			
IC 600-292951/8		8260B			20 uL	20 uL			
ICV 600-292951/1012		8260B		5 uL					

Batch Notes	
pH Indicator ID	HC904495

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Batch Number: 293693 Batch Start Date: 05/01/20 13:31 Batch Analyst: Vela, Kenneth L

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFB 00307	VOAIS250PPM 00151	VOALCSGASPT 00376
BFB 600-293693/1		8260B		20 mL	20 mL		2 uL		
CCVIS 600-293693/3		8260B		20 mL	20 mL			1 uL	
LCS 600-293693/4		8260B		20 mL	20 mL			1 uL	4 uL
LCSD 600-293693/5		8260B		20 mL	20 mL			1 uL	4 uL
MB 600-293693/7		8260B		20 mL	20 mL			1 uL	
600-204441-C-1	Artesia-MW38-042 72020	8260B	T	20 mL	20 mL	2 SU		1 uL	
600-204441-C-3	Artesia-MW12-042 72020	8260B	T	20 mL	20 mL	2 SU		1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00085	VOASS250PPM 00129	VOASTDGASPT 00376	VOASTDst 00134		
BFB 600-293693/1		8260B							
CCVIS 600-293693/3		8260B				4 uL	4 uL		
LCS 600-293693/4		8260B		4 uL	1 uL				
LCSD 600-293693/5		8260B		4 uL	1 uL				
MB 600-293693/7		8260B			1 uL				
600-204441-C-1	Artesia-MW38-042 72020	8260B	T		1 uL				
600-204441-C-3	Artesia-MW12-042 72020	8260B	T		1 uL				

Batch Notes	
pH Indicator ID	HC991818

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Batch Number: 293862 Batch Start Date: 05/05/20 10:13 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFB 00307	VOAIS50PPM 00276	VOALCSGASPT 00376
BFB 600-293862/1		8260B		20 mL	20 mL		2 uL		
CCVIS 600-293862/2		8260B		20 mL	20 mL			5 uL	
LCS 600-293862/3		8260B		20 mL	20 mL			5 uL	4 uL
LCSD 600-293862/4		8260B		20 mL	20 mL			5 uL	4 uL
MB 600-293862/6		8260B		20 mL	20 mL			5 uL	
600-204441-D-1	Artesia-MW38-042 72020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-C-5	Artesia-MW37-042 72020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-C-4	Artesia-MW36-042 72020	8260B	T	20 mL	20 mL	2 SU		5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00085	VOASS50PPM 00314	VOASTDGASPT 00376	VOASTDst 00134		
BFB 600-293862/1		8260B							
CCVIS 600-293862/2		8260B				4 uL	4 uL		
LCS 600-293862/3		8260B		4 uL	5 uL				
LCSD 600-293862/4		8260B		4 uL	5 uL				
MB 600-293862/6		8260B			5 uL				
600-204441-D-1	Artesia-MW38-042 72020	8260B	T		5 uL				
600-204441-C-5	Artesia-MW37-042 72020	8260B	T		5 uL				
600-204441-C-4	Artesia-MW36-042 72020	8260B	T		5 uL				

Batch Notes	
pH Indicator ID	HC904495

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Batch Number: 293862 Batch Start Date: 05/05/20 10:13 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Batch Number: 293940 Batch Start Date: 05/06/20 10:10 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFB 00308	VOAIS50PPM 00277	VOALCSGASPT 00377
BFB 600-293940/1		8260B		20 mL	20 mL		2 uL		
CCVIS 600-293940/2		8260B		20 mL	20 mL			5 uL	
LCS 600-293940/3		8260B		20 mL	20 mL			5 uL	4 uL
LCSD 600-293940/4		8260B		20 mL	20 mL			5 uL	4 uL
MB 600-293940/6		8260B		20 mL	20 mL			5 uL	
600-204441-B-2	Artesia-TB0-042720 20	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-B-6	Artesia-MD37-042 72020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-B-14	Artesia-MW34-042 82020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-B-7	Artesia-MW22-042 72020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-B-8	Artesia-MW25-042 72020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-B-9	Artesia-MW32-042 72020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-B-10	Artesia-Outlet-0 4282020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-B-11	Artesia-MID-0428 2020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-B-14 MS	Artesia-MW34-042 82020	8260B	T	20 mL	20 mL	2 SU		5 uL	4 uL
600-204441-B-14 MSD	Artesia-MW34-042 82020	8260B	T	20 mL	20 mL	2 SU		5 uL	4 uL
600-204441-B-12	Artesia-Inlet-04 282020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-B-13	Artesia-MW28-042 82020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-B-15	Artesia-MW31-042 82020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-C-16	Artesia-MW11-042 82020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-B-17	Artesia-MW35-042 82020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-B-18	Artesia-MW29-042 82020	8260B	T	20 mL	20 mL	2 SU		5 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Batch Number: 293940 Batch Start Date: 05/06/20 10:10 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFB 00308	VOAIS50PPM 00277	VOALCSGASPT 00377
600-204441-B-19	Artesia-MW30-04282020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204441-B-20	Artesia-MD30-04282020	8260B	T	20 mL	20 mL	2 SU		5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00086	VOASS50PPM 00315	VOASTDGASPT 00377	VOASTDst 00135		
BFB 600-293940/1		8260B							
CCVIS 600-293940/2		8260B				4 uL	4 uL		
LCS 600-293940/3		8260B		4 uL	5 uL				
LCSD 600-293940/4		8260B		4 uL	5 uL				
MB 600-293940/6		8260B			5 uL				
600-204441-B-2	Artesia-TB0-04272020	8260B	T		5 uL				
600-204441-B-6	Artesia-MD37-04272020	8260B	T		5 uL				
600-204441-B-14	Artesia-MW34-04282020	8260B	T		5 uL				
600-204441-B-7	Artesia-MW22-04272020	8260B	T		5 uL				
600-204441-B-8	Artesia-MW25-04272020	8260B	T		5 uL				
600-204441-B-9	Artesia-MW32-04272020	8260B	T		5 uL				
600-204441-B-10	Artesia-Outlet-04282020	8260B	T		5 uL				
600-204441-B-11	Artesia-MID-04282020	8260B	T		5 uL				
600-204441-B-14 MS	Artesia-MW34-04282020	8260B	T	4 uL	5 uL				
600-204441-B-14 MSD	Artesia-MW34-04282020	8260B	T	4 uL	5 uL				
600-204441-B-12	Artesia-Inlet-04282020	8260B	T		5 uL				
600-204441-B-13	Artesia-MW28-04282020	8260B	T		5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Batch Number: 293940 Batch Start Date: 05/06/20 10:10 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00086	VOASS50PPM 00315	VOASTDGASPT 00377	VOASTDst 00135		
600-204441-B-15	Artesia-MW31-042 82020	8260B	T		5 uL				
600-204441-C-16	Artesia-MW11-042 82020	8260B	T		5 uL				
600-204441-B-17	Artesia-MW35-042 82020	8260B	T		5 uL				
600-204441-B-18	Artesia-MW29-042 82020	8260B	T		5 uL				
600-204441-B-19	Artesia-MW30-042 82020	8260B	T		5 uL				
600-204441-B-20	Artesia-MD30-042 82020	8260B	T		5 uL				

Batch Notes	
pH Indicator ID	HC904495

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 300.0

Anions (IC) by Method 300.0

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 600-0035349-005.d

Lab ID: LCS 600-294680/5 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Sulfate	20.0	18.00	90	90-110	

Column to be used to flag recovery and RPD values

FORM III 300.0

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab File ID: 600-0035349-004.d Lab Sample ID: MB 600-294680/4

Matrix: Water Date Extracted:

Instrument ID: CHWC11 Date Analyzed: 05/18/2020 17:20

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	CCB 600-294680/3	600-0035349-003.d	05/18/2020 16:59
	LCS 600-294680/5	600-0035349-005.d	05/18/2020 17:40
Artesia-MW38-04272020	600-204441-1	600-0035349-009.d	05/18/2020 19:02
Artesia-MW12-04272020	600-204441-3	600-0035349-010.d	05/18/2020 19:22
Artesia-MW36-04272020	600-204441-4	600-0035349-011.d	05/18/2020 19:43
Artesia-MW37-04272020	600-204441-5	600-0035349-012.d	05/18/2020 20:03
Artesia-MW11-04282020	600-204441-16	600-0035349-013.d	05/18/2020 20:23
	CCB 600-294680/15	600-0035349-015.d	05/18/2020 21:04
	CCB 600-294680/27	600-0035349-027.d	05/19/2020 01:09
	CCB 600-294680/36	600-0035349-036.d	05/19/2020 04:13

FORM IV 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW38-04272020 Lab Sample ID: 600-204441-1

Matrix: Water Lab File ID: 600-0035349-009.d

Analysis Method: 300.0 Date Collected: 04/27/2020 12:30

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/18/2020 19:02

Con. Extract Vol.: Dilution Factor: 200

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	2710		100	19.1

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW12-04272020 Lab Sample ID: 600-204441-3

Matrix: Water Lab File ID: 600-0035349-010.d

Analysis Method: 300.0 Date Collected: 04/27/2020 13:41

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/18/2020 19:22

Con. Extract Vol.: Dilution Factor: 200

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	2660		100	19.1

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW36-04272020 Lab Sample ID: 600-204441-4

Matrix: Water Lab File ID: 600-0035349-011.d

Analysis Method: 300.0 Date Collected: 04/27/2020 14:44

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/18/2020 19:43

Con. Extract Vol.: Dilution Factor: 200

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	4270		100	19.1

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW37-04272020 Lab Sample ID: 600-204441-5

Matrix: Water Lab File ID: 600-0035349-012.d

Analysis Method: 300.0 Date Collected: 04/27/2020 16:35

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/18/2020 20:03

Con. Extract Vol.: Dilution Factor: 200

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	5960		100	19.1

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Artesia-MW11-04282020 Lab Sample ID: 600-204441-16

Matrix: Water Lab File ID: 600-0035349-013.d

Analysis Method: 300.0 Date Collected: 04/28/2020 10:18

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/18/2020 20:23

Con. Extract Vol.: Dilution Factor: 200

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	7940		100	19.1

FORM I 300.0

FORM VI

HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA

RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292894

SDG No.:

Instrument ID: CHWC11 GC Column: AS-18 ID: Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:18 Calibration End Date: 04/21/2020 19:41 Calibration ID: 18005

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-292894/3	600-0034937-003.d
Level 2	IC 600-292894/4	600-0034937-004.d
Level 3	IC 600-292894/5	600-0034937-005.d
Level 4	IC 600-292894/6	600-0034937-006.d
Level 5	IC 600-292894/7	600-0034937-007.d
Level 6	IC 600-292894/8	600-0034937-008.d
Level 7	IC 600-292894/9	600-0034937-009.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Fluoride	3.367	3.326	3.284	3.325	3.292	3.375	3.375				3.075 - 3.575	3.335
Chloride	5.342	5.234	5.301	5.267	5.301	5.384	5.350				5.017 - 5.517	5.311
Bromide	9.984	9.509	9.734	9.517	9.526	9.567	9.642				9.267 - 9.767	9.640
Sulfate	10.392	10.109	10.284	10.075	10.126	10.000	9.984				9.825 - 10.325	10.139

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292894

SDG No.:

Instrument ID: CHWC11 GC Column: AS-18 ID: Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:18 Calibration End Date: 04/21/2020 19:41 Calibration ID: 18005

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-292894/3	600-0034937-003.d
Level 2	IC 600-292894/4	600-0034937-004.d
Level 3	IC 600-292894/5	600-0034937-005.d
Level 4	IC 600-292894/6	600-0034937-006.d
Level 5	IC 600-292894/7	600-0034937-007.d
Level 6	IC 600-292894/8	600-0034937-008.d
Level 7	IC 600-292894/9	600-0034937-009.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Fluoride	7971795 11154372	7932026 11074887	8941815 12268058	10543846	Lin1	-1343902.6	11698904.1							0.9960		0.9900
Chloride	6842918 6872310	4974363 6785878	5370718 7439883	6448454	Lin1	-1231061.3	7160059.53							0.9960		0.9900
Bromide	2980100 2539310	2175684 2360657	2024110 2544650	2293163	Lin1	-31087.579	2456484.20							0.9960		0.9900
Sulfate	2968640 4419989	2477580 4299287	2569563 4699628	3784981	Lin1	-1510465.4	4546850.69							0.9940		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1 Analy Batch No.: 292894

SDG No.:

Instrument ID: CHWC11 GC Column: AS-18 ID: Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:18 Calibration End Date: 04/21/2020 19:41 Calibration ID: 18005

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-292894/3	600-0034937-003.d
Level 2	IC 600-292894/4	600-0034937-004.d
Level 3	IC 600-292894/5	600-0034937-005.d
Level 4	IC 600-292894/6	600-0034937-006.d
Level 5	IC 600-292894/7	600-0034937-007.d
Level 6	IC 600-292894/8	600-0034937-008.d
Level 7	IC 600-292894/9	600-0034937-009.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Fluoride	Lin1	1594359 83061649	3966013 122680580	8941815	21087692	55771862	0.200 7.50	0.500 10.0	1.00	2.00	5.00
Chloride	Lin1	2737167 135717569	4974363 297595337	10741435	32242271	68723096	0.400 20.0	1.00 40.0	2.00	5.00	10.0
Bromide	Lin1	596020 17704929	1087842 25446497	2024110	4586326	12696549	0.200 7.50	0.500 10.0	1.00	2.00	5.00
Sulfate	Lin1	1187456 85985743	2477580 187985133	5139125	18924907	44199892	0.400 20.0	1.00 40.0	2.00	5.00	10.0

Curve Type Legend:
Lin1 = Linear 1/conc

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCV 600-294680/2 Calibration Date: 05/18/2020 15:59

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-002.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		10529503		6.87	7.50	-8.5	10.0
Chloride	Lin1		6605848		18.6	20.0	-6.9	10.0
Bromide	Lin1		2581221		7.89	7.50	5.2	10.0
Sulfate	Lin1		4399353		19.7	20.0	-1.6	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCV 600-294680/2 Calibration Date: 05/18/2020 15:59

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-002.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.06	3.08	3.58
Chloride	4.95	5.02	5.52
Bromide	9.33	9.27	9.77
Sulfate	10.18	9.83	10.33

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCV 600-294680/14 Calibration Date: 05/18/2020 20:44

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-014.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		10454088		6.82	7.50	-9.1	10.0
Chloride	Lin1		6653234		18.8	20.0	-6.2	10.0
Bromide	Lin1		2459730		7.52	7.50	0.3	10.0
Sulfate	Lin1		4138035		18.5	20.0	-7.3	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCV 600-294680/14 Calibration Date: 05/18/2020 20:44

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-014.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.13	3.08	3.58
Chloride	4.99	5.02	5.52
Bromide	9.21	9.27	9.77
Sulfate	10.06	9.83	10.33

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCV 600-294680/26 Calibration Date: 05/19/2020 00:49

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-026.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		10829526		7.06	7.50	-5.9	10.0
Chloride	Lin1		7146995		20.1	20.0	0.7	10.0
Bromide	Lin1		2625616		8.03	7.50	7.1	10.0
Sulfate	Lin1		4152950		18.6	20.0	-7.0	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCV 600-294680/26 Calibration Date: 05/19/2020 00:49

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-026.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.17	3.08	3.58
Chloride	5.08	5.02	5.52
Bromide	9.28	9.27	9.77
Sulfate	10.04	9.83	10.33

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCV 600-294680/35 Calibration Date: 05/19/2020 03:52

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-035.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		10428947		6.80	7.50	-9.3	10.0
Chloride	Lin1		7086999		20.0	20.0	-0.2	10.0
Bromide	Lin1		1981812		6.06	7.50	-19.2*	10.0
Sulfate	Lin1		4071023		18.2	20.0	-8.8	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Lab Sample ID: CCV 600-294680/35 Calibration Date: 05/19/2020 03:52

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-035.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.02	3.08	3.58
Chloride	4.91	5.02	5.52
Bromide	9.03	9.27	9.77
Sulfate	10.18	9.83	10.33

Form VII 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-294680/4

Matrix: Water Lab File ID: 600-0035349-004.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/18/2020 17:20

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-294680/3

Matrix: Water Lab File ID: 600-0035349-003.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/18/2020 16:59

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-294680/15

Matrix: Water Lab File ID: 600-0035349-015.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/18/2020 21:04

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-294680/27

Matrix: Water Lab File ID: 600-0035349-027.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/19/2020 01:09

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-294680/36

Matrix: Water Lab File ID: 600-0035349-036.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/19/2020 04:13

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-294680/5

Matrix: Water Lab File ID: 600-0035349-005.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/18/2020 17:40

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	18.00		0.500	0.0957

FORM I 300.0

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Instrument ID: CHWC11 Start Date: 04/21/2020 17:18

Analysis Batch Number: 292894 End Date: 04/21/2020 19:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 600-292894/2		04/21/2020 17:18	1		AS-18
IC 600-292894/3		04/21/2020 17:39	1	600-0034937-003.d	AS-18
IC 600-292894/4		04/21/2020 17:59	1	600-0034937-004.d	AS-18
IC 600-292894/5		04/21/2020 18:20	1	600-0034937-005.d	AS-18
IC 600-292894/6		04/21/2020 18:40	1	600-0034937-006.d	AS-18
IC 600-292894/7		04/21/2020 19:01	1	600-0034937-007.d	AS-18
IC 600-292894/8		04/21/2020 19:21	1	600-0034937-008.d	AS-18
IC 600-292894/9		04/21/2020 19:41	1	600-0034937-009.d	AS-18

300.0

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Instrument ID: CHWC11 Start Date: 05/18/2020 15:59

Analysis Batch Number: 294680 End Date: 05/19/2020 04:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 600-294680/2		05/18/2020 15:59	1	600-0035349-002.d	AS-18
CCB 600-294680/3		05/18/2020 16:59	1	600-0035349-003.d	AS-18
MB 600-294680/4		05/18/2020 17:20	1	600-0035349-004.d	AS-18
LCS 600-294680/5		05/18/2020 17:40	1	600-0035349-005.d	AS-18
ZZZZZ		05/18/2020 18:00	5		AS-18
ZZZZZ		05/18/2020 18:21	5		AS-18
ZZZZZ		05/18/2020 18:41	5		AS-18
600-204441-1		05/18/2020 19:02	200	600-0035349-009.d	AS-18
600-204441-3		05/18/2020 19:22	200	600-0035349-010.d	AS-18
600-204441-4		05/18/2020 19:43	200	600-0035349-011.d	AS-18
600-204441-5		05/18/2020 20:03	200	600-0035349-012.d	AS-18
600-204441-16		05/18/2020 20:23	200	600-0035349-013.d	AS-18
CCV 600-294680/14		05/18/2020 20:44	1	600-0035349-014.d	AS-18
CCB 600-294680/15		05/18/2020 21:04	1	600-0035349-015.d	AS-18
ZZZZZ		05/18/2020 21:25	5		AS-18
ZZZZZ		05/18/2020 21:45	10		AS-18
ZZZZZ		05/18/2020 22:05	10		AS-18
ZZZZZ		05/18/2020 22:26	10		AS-18
ZZZZZ		05/18/2020 22:46	10		AS-18
ZZZZZ		05/18/2020 23:07	10		AS-18
ZZZZZ		05/18/2020 23:27	10		AS-18
ZZZZZ		05/18/2020 23:47	10		AS-18
ZZZZZ		05/19/2020 00:08	5		AS-18
ZZZZZ		05/19/2020 00:28	10		AS-18
CCV 600-294680/26		05/19/2020 00:49	1	600-0035349-026.d	AS-18
CCB 600-294680/27		05/19/2020 01:09	1	600-0035349-027.d	AS-18
ZZZZZ		05/19/2020 01:30	200		AS-18
ZZZZZ		05/19/2020 01:50	5		AS-18
ZZZZZ		05/19/2020 02:10	1000		AS-18
ZZZZZ		05/19/2020 02:31	1000		AS-18
ZZZZZ		05/19/2020 02:51	200		AS-18
ZZZZZ		05/19/2020 03:12	200		AS-18
ZZZZZ		05/19/2020 03:32	200		AS-18
CCV 600-294680/35		05/19/2020 03:52	1	600-0035349-035.d	AS-18
CCB 600-294680/36		05/19/2020 04:13	1	600-0035349-036.d	AS-18

300.0

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204441-1

SDG No.:

Batch Number: 294680 Batch Start Date: 05/18/20 15:59 Batch Analyst: Nampitak, Wanida 1

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	CCV 00124	ICV/LCS 00110			
CCV 600-294680/2		300.0		5 mL		5 mL			
CCB 600-294680/3		300.0		5 mL					
MB 600-294680/4		300.0		5 mL					
LCS 600-294680/5		300.0		5 mL		5 mL			
600-204441-A-1	Artesia-MW38-042 72020	300.0	T	5 mL					
600-204441-A-3	Artesia-MW12-042 72020	300.0	T	5 mL					
600-204441-A-4	Artesia-MW36-042 72020	300.0	T	5 mL					
600-204441-A-5	Artesia-MW37-042 72020	300.0	T	5 mL					
600-204441-A-16	Artesia-MW11-042 82020	300.0	T	5 mL					
CCV 600-294680/14		300.0		5 mL	5 mL				
CCB 600-294680/15		300.0		5 mL					
CCV 600-294680/26		300.0		5 mL	5 mL				
CCB 600-294680/27		300.0		5 mL					
CCV 600-294680/35		300.0		5 mL	5 mL				
CCB 600-294680/36		300.0		5 mL					

Batch Notes	
Eluent 1 ID	200150959018
Filter ID	16988990

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Released to Imaging: 6/9/2021 9:44:58 AM

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: AFORSberg	Lab PM: McDaniel, Bethany A	Carrier Tracking No(s): FedEx 1689 2642 7821	COC No: 600-76591-20100.1
Client Contact: John Ynfante	Phone: 505 918 1800	E-Mail: bethany.mcdaniel@testamericainc.com		Page: Page 1 of # 2
Company: Jacobs Engineering Group, Inc.				Job #:
Address: 14701 St. Mary's Lane Suite 300	Due Date Requested:			
City: Houston	TAT Requested (days): Std			
State, Zip: TX, 77079				
Phone:	PO #: D3151100 B.CS.TPE.AR.19-05-02			
Email: John.Ynfante@jacobs.com	WO #: D3151100 C.CS.TPE.20-05-02			
Project Name: Dowell - Artesia Groundwater	Project #: 60004334			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL - 8260B - Volatiles Custom List	300_ORGFM_28D - 300.0 - Anions, IC (Sulfate)	8260B_LL - Volatile Organic Compound Custom List(5)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A		
Artesia-MW38-04272020	4/27/20	1230	G	Water	N	N		X	X		
Artesia-TB01-04272020	↓	1200	G	Water	N	N			X		TRIP BLANK
ARTESIA-MW12-04272020	4/27/20	1341	G	Water	N	N		X	X		
ARTESIA-MW36-04272020	4/27/20	1444	G	Water	N	N		X	X		
ARTESIA-MW37-04272020	4/27/20	1635	G	Water	N	N		X	X		
ARTESIA-MD37-04272020	4/27/20	1635	G	Water	N	N			X		
Artesia-MW22-04272020	↓	1610	G	Water	N	N		~~X~~ 96	X		
Artesia-MW25-04272020	↓	1555	G	Water	N	N		~~X~~ 96	X		
Artesia-MW32-04272020		1625	G	Water	N	N		~~X~~ 96	X		
Artesia-~~MW8~~ outlet-04282020	4/28/20	0900	G	Water	N	N		~~X~~ 96	X		
Artesia-MID-04282020	↓	0905	G	Water	N	N			X		

600-204441 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		4/28/20 1300	Jacobs	YCR	4/29/20 1210	ETA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: AForsberg	Lab PM: McDaniel, Bethany A	Carrier Tracking No(s): FedEx 1684 2642 7821	COC No: 600-76591-20100.2
Client Contact: John Ynfante	Phone: 505 918 1800	E-Mail: bethany.mcdaniel@testamericainc.com		Page: Page 2 of 12
Company: Jacobs Engineering Group, Inc.				Job #:
Address: 14701 St. Mary's Lane Suite 300	Due Date Requested:			
City: Houston	TAT Requested (days): Std			
State, Zip: TX, 77079				
Phone:	PO #: D3151100 B.CS.TPE.AR.19-05-02			
Email: John.Ynfante@jacobs.com	WO #: D3151100 C.CS.TPE.20-05-02			
Project Name: Dowell - Artesia Groundwater	Project #: 60004334			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL - 8260B - Volatiles Custom List	300_ORGFM_28D - 300.0 - Anions, IC (Sulfate)	8260B_LL - Volatile Organic Compound Custom List(5)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	N	A	X	
Artesia-Inlet-04282020	4/28/20	0910	G	Water	N	N			X		
Artesia-MW28-04282020		0940	G	Water	N	N			X		
Artesia-MW34-04282020		1015	G	Water	N	N			X		
Artesia-MW31-04282020		1045	G	Water	N	N			X		
ARTESIA-MW11-04282020	4/28/20	1018	G	Water	N	N		X	X		
Artesia-MW35-04282020		1110	G	Water	N	N	X				
Artesia-MW29-04282020		1119	G	Water	N	N			X		
Artesia-MW30-04282020		1140	G	Water	N	N			X		
Artesia-MD30-04282020		1145	G	Water	N	N			X		
				Water							
				Water							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 4/28/20 1300	Company: Jacobs	Received by:	Date/Time: 4/29/20 1210	Company: ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Loc: 600
204441

eurofins | Environment Testing TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

'20 APR 29 12:10

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Jacobs

UNPACKED BY: FF CARRIER/DRIVER: Fedex

Custody Seal Present: ☐YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
7821	X / N	X / N	2.2	678	-0.1	2.1
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				4/29/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☑YES ☐NO ☐NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

4/29/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: Jacobs Engineering Group, Inc. Job Number: 600-204441-1

Login Number: 204441 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

eurofins | Environment Testing America

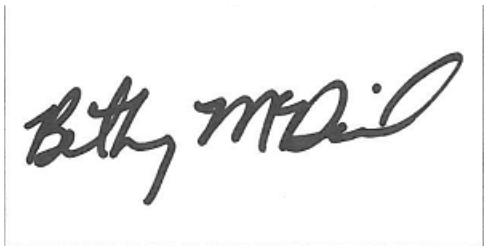
ANALYTICAL REPORT

Job Number: 600-204539-1

Job Description: Dowell - Artesia

For:
Jacobs Engineering Group, Inc.
3721 Rutledge Rd NE
Suite B-1
Albuquerque, NM 87109

Attention: Aleeca Forsberg



Approved for release.
Bethany A McDaniel
Senior Project Manager
5/20/2020 2:28 PM

Bethany A McDaniel, Senior Project Manager
6310 Rothway Street, Houston, TX, 77040
(713)358-2005
bethany.mcdaniel@testamericainc.com
05/20/2020

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Table of Contents

Cover Title Page 1
Data Summaries 4
Definitions 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Default Detection Limits 8
Surrogate Summary 9
QC Sample Results 10
QC Association 13
Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Manual Integration Summary 18
Reagent Traceability 25
Organic Sample Data 32
GC/MS VOA 32
Method 8260B Low Level 32
Method 8260B Low Level QC Summary 33
Method 8260B Low Level Sample Data 43
Standards Data 45
Method 8260B Low Level ICAL Data 45
Method 8260B Low Level CCAL Data 57
Raw QC Data 63
Method 8260B Low Level Blank Data 63

Table of Contents

Method 8260B Low Level LCS/LCSD Data 64
Method 8260B Low Level MS/MSD Data 66
Method 8260B Low Level Run Logs 68
Method 8260B Low Level Prep Data 70
HPLC/IC 73
Method 300.0 73
Method 300.0 QC Summary 74
Method 300.0 Sample Data 78
Standards Data 79
Method 300.0 ICAL Data 79
Method 300.0 CCAL Data 82
Raw QC Data 90
Method 300.0 Blank Data 90
Method 300.0 LCS/LCSD Data 95
Method 300.0 MS/MSD Data 96
Method 300.0 Run Logs 98
Method 300.0 Prep Data 100
Shipping and Receiving Documents 101
Client Chain of Custody 102
Sample Receipt Checklist 104

Definitions/Glossary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204539-1

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Job Narrative
600-204539-1

Comments
No additional comments.

Receipt
The samples were received on 4/30/2020 10:37 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 600-294680 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204539-1

Client Sample ID: Artesia-TB02-04292020 — Lab Sample ID: 600-204539-1

No Detections.

Client Sample ID: Artesia-MW17C-04292020 — Lab Sample ID: 600-204539-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	3280	F1	100	19.1	mg/L	200		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204539-1

Client Sample ID: Artesia-TB02-04292020

Lab Sample ID: 600-204539-1
Date Collected: 04/29/20 08:45
Matrix: Water
Date Received: 04/30/20 10:37

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			05/05/20 17:11	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			05/05/20 17:11	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/05/20 17:11	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/05/20 17:11	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			05/05/20 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*50 - 134*		*05/05/20 17:11*	*1*
4-Bromofluorobenzene	*119*		*67 - 139*		*05/05/20 17:11*	*1*
Dibromofluoromethane	*104*		*62 - 130*		*05/05/20 17:11*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*05/05/20 17:11*	*1*

Client Sample ID: Artesia-MW17C-04292020

Lab Sample ID: 600-204539-2
Date Collected: 04/29/20 09:42
Matrix: Water
Date Received: 04/30/20 10:37

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			05/05/20 17:38	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			05/05/20 17:38	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/05/20 17:38	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/05/20 17:38	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			05/05/20 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*50 - 134*		*05/05/20 17:38*	*1*
4-Bromofluorobenzene	*118*		*67 - 139*		*05/05/20 17:38*	*1*
Dibromofluoromethane	*102*		*62 - 130*		*05/05/20 17:38*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*05/05/20 17:38*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**3280**	**F1**	100	19.1	mg/L			05/19/20 02:51	200

Default Detection Limits

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204539-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units
1,1-Dichloroethane	0.00100	0.000168	mg/L
1,1-Dichloroethene	0.00100	0.000192	mg/L
Benzene	0.00100	0.000176	mg/L
Naphthalene	0.00200	0.000129	mg/L
Tetrachloroethene	0.00100	0.000333	mg/L

Method: 300.0 - Anions, Ion Chromatography

Analyte	RL	MDL	Units
Sulfate	0.500	0.0957	mg/L

Surrogate Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204539-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(50-134)	(67-139)	(62-130)	(70-130)
600-204539-1	Artesia-TB02-04292020	88	119	104	95
600-204539-2	Artesia-MW17C-04292020	85	118	102	94
600-204539-2 MS	Artesia-MW17C-04292020	101	119	104	94
600-204539-2 MSD	Artesia-MW17C-04292020	101	118	104	91
LCS 600-293862/3	Lab Control Sample	81	116	97	101
LCSD 600-293862/4	Lab Control Sample Dup	92	117	99	100
MB 600-293862/6	Method Blank	87	113	97	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204539-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-293862/6
Matrix: Water
Analysis Batch: 293862

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			05/05/20 12:42	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			05/05/20 12:42	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/05/20 12:42	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			05/05/20 12:42	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			05/05/20 12:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*50 - 134*		*05/05/20 12:42*	*1*
4-Bromofluorobenzene	*113*		*67 - 139*		*05/05/20 12:42*	*1*
Dibromofluoromethane	*97*		*62 - 130*		*05/05/20 12:42*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*05/05/20 12:42*	*1*

Lab Sample ID: LCS 600-293862/3
Matrix: Water
Analysis Batch: 293862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethane			0.0100	0.009537		mg/L		95	70 - 140		
1,1-Dichloroethene			0.0100	0.008578		mg/L		86	58 - 148		
Benzene			0.0100	0.009424		mg/L		94	70 - 130		
Naphthalene			0.0100	0.008659		mg/L		87	10 - 150		
Tetrachloroethene			0.0100	0.007735		mg/L		77	47 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*81*		*50 - 134*
4-Bromofluorobenzene	*116*		*67 - 139*
Dibromofluoromethane	*97*		*62 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 600-293862/4
Matrix: Water
Analysis Batch: 293862

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0100	0.009527		mg/L		95	70 - 140	0	20
1,1-Dichloroethene			0.0100	0.008647		mg/L		86	58 - 148	1	20
Benzene			0.0100	0.009294		mg/L		93	70 - 130	1	20
Naphthalene			0.0100	0.009648		mg/L		96	10 - 150	11	20
Tetrachloroethene			0.0100	0.007648		mg/L		76	47 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*50 - 134*
4-Bromofluorobenzene	*117*		*67 - 139*
Dibromofluoromethane	*99*		*62 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204539-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 600-204539-2 MS
Matrix: Water
Analysis Batch: 293862

Client Sample ID: Artesia-MW17C-04292020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.000168	U	0.0100	0.01034		mg/L		103	70 - 140
1,1-Dichloroethene	0.000192	U	0.0100	0.009385		mg/L		94	58 - 148
Benzene	0.000176	U	0.0100	0.01007		mg/L		101	70 - 130
Naphthalene	0.000129	U	0.0100	0.009338		mg/L		93	10 - 150
Tetrachloroethene	0.000333	U	0.0100	0.007351		mg/L		74	47 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*50 - 134*
4-Bromofluorobenzene	*119*		*67 - 139*
Dibromofluoromethane	*104*		*62 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: 600-204539-2 MSD
Matrix: Water
Analysis Batch: 293862

Client Sample ID: Artesia-MW17C-04292020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	0.000168	U	0.0100	0.01005		mg/L		101	70 - 140	3	30
1,1-Dichloroethene	0.000192	U	0.0100	0.009163		mg/L		92	58 - 148	2	30
Benzene	0.000176	U	0.0100	0.009703		mg/L		97	70 - 130	4	30
Naphthalene	0.000129	U	0.0100	0.01081		mg/L		108	10 - 150	15	30
Tetrachloroethene	0.000333	U	0.0100	0.007054		mg/L		71	47 - 150	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*50 - 134*
4-Bromofluorobenzene	*118*		*67 - 139*
Dibromofluoromethane	*104*		*62 - 130*
Toluene-d8 (Surr)	*91*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-294680/4
Matrix: Water
Analysis Batch: 294680

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.0957	U	0.500	0.0957	mg/L			05/18/20 17:20	1

Lab Sample ID: LCS 600-294680/5
Matrix: Water
Analysis Batch: 294680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	18.00		mg/L		90	90 - 110

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204539-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 600-204539-2 MS
Matrix: Water
Analysis Batch: 294680

Client Sample ID: Artesia-MW17C-04292020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	3280	F1	2000	3558	F1	mg/L		14	80 - 120		

Lab Sample ID: 600-204539-2 MSD
Matrix: Water
Analysis Batch: 294680

Client Sample ID: Artesia-MW17C-04292020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	3280	F1	2000	3968	F1	mg/L		35	80 - 120	11	20

QC Association Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204539-1

GC/MS VOA

Analysis Batch: 293862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204539-1	Artesia-TB02-04292020	Total/NA	Water	8260B	
600-204539-2	Artesia-MW17C-04292020	Total/NA	Water	8260B	
MB 600-293862/6	Method Blank	Total/NA	Water	8260B	
LCS 600-293862/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-293862/4	Lab Control Sample Dup	Total/NA	Water	8260B	
600-204539-2 MS	Artesia-MW17C-04292020	Total/NA	Water	8260B	
600-204539-2 MSD	Artesia-MW17C-04292020	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 294680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204539-2	Artesia-MW17C-04292020	Total/NA	Water	300.0	
MB 600-294680/4	Method Blank	Total/NA	Water	300.0	
LCS 600-294680/5	Lab Control Sample	Total/NA	Water	300.0	
600-204539-2 MS	Artesia-MW17C-04292020	Total/NA	Water	300.0	
600-204539-2 MSD	Artesia-MW17C-04292020	Total/NA	Water	300.0	

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204539-1

Client Sample ID: Artesia-TB02-04292020

Lab Sample ID: 600-204539-1

Date Collected: 04/29/20 08:45

Matrix: Water

Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293862	05/05/20 17:11	YX1	TAL HOU

Client Sample ID: Artesia-MW17C-04292020

Lab Sample ID: 600-204539-2

Date Collected: 04/29/20 09:42

Matrix: Water

Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	293862	05/05/20 17:38	YX1	TAL HOU
Total/NA	Analysis	300.0		200	294680	05/19/20 02:51	W1N	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: Jacobs Engineering Group, Inc.
Job ID: 600-204539-1
Project/Site: Dowell - Artesia

Laboratory: Eurofins TestAmerica, Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0759	08-04-20
Louisiana	NELAP	01967	06-30-20
Oklahoma	State	2019-073	08-31-20
Texas	NELAP	T104704223-19-25	10-31-20
USDA	US Federal Programs	P330-18-00130	04-30-21
Utah	NELAP	TX000832019-5	07-31-20

Method Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204539-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
5030B	Purge and Trap	SW846	TAL HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-204539-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-204539-1	Artesia-TB02-04292020	Water	04/29/20 08:45	04/30/20 10:37	
600-204539-2	Artesia-MW17C-04292020	Water	04/29/20 09:42	04/30/20 10:37	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204539-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 292951

Lab Sample ID: IC 600-292951/2 Client Sample ID:

Date Analyzed: 04/21/20 17:33 Lab File ID: C11201.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.24	Peak assignment corrected	velak	04/21/20 17:55
Bromomethane	4.89	Peak assignment corrected	velak	04/21/20 17:55
t-Butanol	6.02	Peak assignment corrected	velak	04/21/20 17:55
Iodomethane	6.08	Peak assignment corrected	velak	04/21/20 17:55
Propionitrile	6.88	Peak assignment corrected	velak	04/21/20 17:55
Isobutyl alcohol	7.46	Peak assignment corrected	velak	04/21/20 17:55
Tetrahydrofuran	7.72	Peak assignment corrected	velak	04/21/20 17:56
1,4-Dioxane	8.94	Incomplete Integration	velak	04/21/20 17:56
2-Chloroethyl vinyl ether	9.16	Incomplete Integration	velak	04/21/20 17:56
1,1,2-Trichloroethane	9.91	Incomplete Integration	velak	04/21/20 17:56
2-Hexanone	10.22	Incomplete Integration	velak	04/21/20 17:56
1,2,3-Trichloropropane	12.48	Incomplete Integration	velak	04/21/20 17:56
trans-1,4-Dichloro-2-butene	12.50	Incomplete Integration	velak	04/21/20 17:56
1,2-Dibromo-3-Chloropropane	14.92	Incomplete Integration	velak	04/21/20 17:56
1,2,3-Trichlorobenzene	16.92	Incomplete Integration	velak	04/21/20 17:56

Lab Sample ID: IC 600-292951/3 Client Sample ID:

Date Analyzed: 04/21/20 17:58 Lab File ID: C11202.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.24	Peak assignment corrected	xiey	04/22/20 09:11
Acetone	5.66	Peak assignment corrected	xiey	04/22/20 09:11
Iodomethane	6.08	Peak assignment corrected	xiey	04/22/20 09:12
Isobutyl alcohol	7.45	Split Peak	xiey	04/22/20 09:12
Dibromomethane	8.79	Assign Peak	xiey	04/22/20 09:13
1,4-Dioxane	8.95	Assign Peak	xiey	04/22/20 09:13
2-Chloroethyl vinyl ether	9.16	Assign Peak	xiey	04/22/20 09:13
trans-1,4-Dichloro-2-butene	12.48	Assign Peak	xiey	04/22/20 09:13
1,2,3-Trichloropropane	12.49	Assign Peak	xiey	04/22/20 09:13

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204539-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 292951

Lab Sample ID: IC 600-292951/4 Client Sample ID:

Date Analyzed: 04/21/20 18:24 Lab File ID: C11203.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Split Peak	xiey	04/22/20 10:44
Dibromomethane	8.79	Split Peak	xiey	04/22/20 10:44

Lab Sample ID: IC 600-292951/5 Client Sample ID:

Date Analyzed: 04/21/20 18:50 Lab File ID: C11204.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	04/22/20 11:40
Dibromomethane	8.79	Peak assignment corrected	xiey	04/22/20 11:40

Lab Sample ID: ICIS 600-292951/6 Client Sample ID:

Date Analyzed: 04/21/20 19:16 Lab File ID: C11205.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	04/22/20 10:45
Dibromomethane	8.79	Peak assignment corrected	xiey	04/22/20 10:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204539-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 293862

Lab Sample ID: CCVIS 600-293862/2 Client Sample ID:

Date Analyzed: 05/05/20 10:39 Lab File ID: C12601.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	05/05/20 11:17
Dibromomethane	8.79	Peak assignment corrected	xiey	05/05/20 11:17

Lab Sample ID: MB 600-293862/6 Client Sample ID:

Date Analyzed: 05/05/20 12:42 Lab File ID: C12605.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene		Invalid Compound ID	xiey	05/05/20 13:19

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204539-1

SDG No.:

Instrument ID: CHWC11 Analysis Batch Number: 292894

Lab Sample ID: IC 600-292894/3 Client Sample ID:

Date Analyzed: 04/21/20 17:39 Lab File ID: 600-0034937-003.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	5.34	Incomplete Integration	watsond	04/22/20 08:02
Bromide	9.98	Incomplete Integration	watsond	04/22/20 08:04
Sulfate	10.39	Incomplete Integration	watsond	04/22/20 08:05

Lab Sample ID: IC 600-292894/4 Client Sample ID:

Date Analyzed: 04/21/20 17:59 Lab File ID: 600-0034937-004.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	9.51	Incomplete Integration	watsond	04/22/20 08:06
Sulfate	10.11	Incomplete Integration	watsond	04/22/20 08:06

Lab Sample ID: IC 600-292894/5 Client Sample ID:

Date Analyzed: 04/21/20 18:20 Lab File ID: 600-0034937-005.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	9.73	Incomplete Integration	watsond	04/22/20 08:07

Lab Sample ID: IC 600-292894/6 Client Sample ID:

Date Analyzed: 04/21/20 18:40 Lab File ID: 600-0034937-006.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	9.52	Incomplete Integration	watsond	04/22/20 08:08

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204539-1

SDG No.:

Instrument ID: CHWC11 Analysis Batch Number: 292894

Lab Sample ID: IC 600-292894/7 Client Sample ID:

Date Analyzed: 04/21/20 19:01 Lab File ID: 600-0034937-007.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	5.30	Incomplete Integration	watsond	04/22/20 08:10

Lab Sample ID: IC 600-292894/8 Client Sample ID:

Date Analyzed: 04/21/20 19:21 Lab File ID: 600-0034937-008.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	9.57	Incomplete Integration	watsond	04/22/20 08:16
Sulfate	10.00	Incomplete Integration	watsond	04/22/20 08:18

Lab Sample ID: IC 600-292894/9 Client Sample ID:

Date Analyzed: 04/21/20 19:41 Lab File ID: 600-0034937-009.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	9.64	Incomplete Integration	watsond	04/22/20 08:16
Sulfate	9.98	Incomplete Integration	watsond	04/22/20 08:18

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204539-1

SDG No.:

Instrument ID: CHWC11 Analysis Batch Number: 294680

Lab Sample ID: CCV 600-294680/2 Client Sample ID:

Date Analyzed: 05/18/20 15:59 Lab File ID: 600-0035349-002.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.06	Incomplete Integration	watsond	05/19/20 08:26
Chloride	4.95	Peak assignment corrected	nguyendt	05/18/20 16:55
Bromide	9.33	Incomplete Integration	watsond	05/19/20 08:27

Lab Sample ID: CCV 600-294680/14 Client Sample ID:

Date Analyzed: 05/18/20 20:44 Lab File ID: 600-0035349-014.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.13	Baseline Smoothing	nampitakw	05/20/20 09:33
Chloride	4.99	Peak assignment corrected	watsond	05/19/20 08:31
Bromide	9.21	Incomplete Integration	watsond	05/19/20 08:32

Lab Sample ID: CCV 600-294680/26 Client Sample ID:

Date Analyzed: 05/19/20 00:49 Lab File ID: 600-0035349-026.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.17	Incomplete Integration	watsond	05/19/20 08:37
Chloride	5.08	Incomplete Integration	watsond	05/19/20 08:38
Bromide	9.28	Incomplete Integration	watsond	05/19/20 08:38
Sulfate	10.04	Incomplete Integration	watsond	05/19/20 08:37

Lab Sample ID: 600-204539-2 Client Sample ID: Artesia-MW17C-04292020

Date Analyzed: 05/19/20 02:51 Lab File ID: 600-0035349-032.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.35	Peak assignment corrected	watsond	05/19/20 08:39

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-204539-1

SDG No.:

Instrument ID: CHWC11 Analysis Batch Number: 294680

Lab Sample ID: CCV 600-294680/35 Client Sample ID:

Date Analyzed: 05/19/20 03:52 Lab File ID: 600-0035349-035.d GC Column: AS-18 ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.02	Incomplete Integration	watsond	05/19/20 08:40
Chloride	4.91	Incomplete Integration	watsond	05/19/20 08:40
Bromide	9.03	Incomplete Integration	watsond	05/19/20 08:42
Sulfate	10.18	Incomplete Integration	watsond	05/19/20 08:42

300.0

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
BFB_00307							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21	Restek, Lot A0120567			(Purchased Reagent)		BFB	2000 ug/mL
CCV_00124	06/21/20	04/24/20	DI WATER, Lot NONE	500 mL	WETSICCSO4_00015	10 mL	Sulfate	20 mg/L
.WETSICCSO4_00015	06/21/20	INORGANIC-VENTURE, Lot k2-sox01111			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD2_00054	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	20 uL	Bromide	0.2 mg/L
					WETSICCCL_00026	40 uL	Chloride	0.4 mg/L
					WETSICCFL_00014	20 uL	Fluoride	0.2 mg/L
					WETSICCSO4_00017	40 uL	Sulfate	0.4 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD3_00047	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	50 uL	Bromide	0.5 mg/L
					WETSICCCL_00026	100 uL	Chloride	1 mg/L
					WETSICCFL_00014	50 uL	Fluoride	0.5 mg/L
					WETSICCSO4_00017	100 uL	Sulfate	1 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD4_00046	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	100 uL	Bromide	1 mg/L
					WETSICCCL_00026	200 uL	Chloride	2 mg/L
					WETSICCFL_00014	100 uL	Fluoride	1 mg/L
					WETSICCSO4_00017	200 uL	Sulfate	2 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD5_00048	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	200 uL	Bromide	2 mg/L
					WETSICCCL_00026	500 uL	Chloride	5 mg/L
					WETSICCFL_00014	200 uL	Fluoride	2 mg/L
					WETSICCSO4_00017	500 uL	Sulfate	5 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD6_00043	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	500 uL	Bromide	5 mg/L
					WETSICCCL_00026	1 mL	Chloride	10 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					WETSICCFL_00014	500 uL	Fluoride	5 mg/L
					WETSICCSO4_00017	1 mL	Sulfate	10 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD7_00046	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	750 uL	Bromide	7.5 mg/L
					WETSICCCL_00026	2 mL	Chloride	20 mg/L
					WETSICCFL_00014	750 uL	Fluoride	7.5 mg/L
					WETSICCSO4_00017	2 mL	Sulfate	20 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD8_00034	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	1 mL	Bromide	10 mg/L
					WETSICCCL_00026	4 mL	Chloride	40 mg/L
					WETSICCFL_00014	1 mL	Fluoride	10 mg/L
					WETSICCSO4_00017	4 mL	Sulfate	40 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICSMS_00127	06/24/20	02/10/20	DI WATER, Lot NONE	50 mL	WETSICISO4_00012	10 mL	Sulfate	200 mg/L
.WETSICISO4_00012	09/29/20	ACCUSTANDARD, Lot 218085152			(Purchased Reagent)		Sulfate	1000 mg/L
ICV/LCS_00110	06/24/20	12/24/19	DI WATER, Lot NONE	500 mL	WETSICISO4_00012	10 mL	Sulfate	20 mg/L
.WETSICISO4_00012	09/29/20	ACCUSTANDARD, Lot 218085152			(Purchased Reagent)		Sulfate	1000 mg/L
VOAIS50PPM_00276	05/05/20	04/21/20	Methanol, Lot V071019A	1 mL	VOA3IS_00031	20 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VOA3IS_00031	06/30/23	Restek, Lot A0138856			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VOALCSPT2T_00085	05/05/20	04/21/20	Methanol, Lot V071019A	1 mL	VOALMegMi2017_00004	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00004	06/30/21	Restek, Lot A0144202			(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOASS50PPM_00314	05/05/20	04/21/20	Methanol, Lot V071019A	1 mL	VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASTDGASPT_00375	04/28/20	04/21/20	Methanol, Lot V100919A	1 mL	VOARGAS_00014	20 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VOARGAS_00014	10/31/20		Restek, Lot A0131502		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VOASTDst_00134	05/05/20	04/21/20	Methanol, Lot V071019A	1 mL	VOAMegMix2017_00006	20 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VOAR2CEVE_00014	40 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VOARAcroleinS_00007	12.5 uL	Acrolein	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VOARADD4COM_00009	20 uL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VOARADDCOM_00015	20 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VOARKETONDup_00003	8 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VOARPOLADD_00013	20 uL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					VOARVASTD_00008	20 uL	Vinyl acetate	100 ug/mL
.VOAMegMix2017_00006	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.VOAR2CEVE_00014	12/31/20		Restek, Lot A0133302		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcroleinS_00007	04/30/21		Restek, Lot A0154578		(Purchased Reagent)		Acrolein	20000 ug/mL
.VOARADD4COM_00009	05/31/20		Restek, Lot A0143198		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VOARADDCOM_00015	07/31/20		Restek, Lot A0145375		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VOARKETONDup_00003	09/30/22		RESTEK, Lot A0152956		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARPOLADD_00013	07/31/20		Restek, Lot A0139911		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.VOARVASTD_00008	07/31/20		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL

Method 8260B Low Level

Volatile Organic Compounds (GC/MS) by Method 8260B Low Level

Released to Imaging: 6/9/2021 9:44:58 AM

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-VRX 60 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
Artesia-TB02-04292020	600-204539-1	104	88	95	119
Artesia-MW17C-04292020	600-204539-2	102	85	94	118
	MB 600-293862/6	97	87	92	113
	LCS 600-293862/3	97	81	101	116
	LCSD 600-293862/4	99	92	100	117
Artesia-MW17C-04292020 MS	600-204539-2 MS	104	101	94	119
Artesia-MW17C-04292020 MSD	600-204539-2 MSD	104	101	91	118

	QC LIMITS
DBFM = Dibromofluoromethane	62-130
DCA = 1,2-Dichloroethane-d4 (Surr)	50-134
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	67-139

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C12602.D

Lab ID: LCS 600-293862/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.009537	95	70-140	
1,1-Dichloroethene	0.0100	0.008578	86	58-148	
Benzene	0.0100	0.009424	94	70-130	
Naphthalene	0.0100	0.008659	87	10-150	
Tetrachloroethene	0.0100	0.007735	77	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C12603.D

Lab ID: LCSD 600-293862/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.009527	95	0	20	70-140	
1,1-Dichloroethene	0.0100	0.008647	86	1	20	58-148	
Benzene	0.0100	0.009294	93	1	20	70-130	
Naphthalene	0.0100	0.009648	96	11	20	10-150	
Tetrachloroethene	0.0100	0.007648	76	1	20	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C12517.D

Lab ID: 600-204539-2 MS Client ID: Artesia-MW17C-04292020 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.000168 U	0.01034	103	70-140	
1,1-Dichloroethene	0.0100	0.000192 U	0.009385	94	58-148	
Benzene	0.0100	0.000176 U	0.01007	101	70-130	
Naphthalene	0.0100	0.000129 U	0.009338	93	10-150	
Tetrachloroethene	0.0100	0.000333 U	0.007351	74	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C12518.D

Lab ID: 600-204539-2 MSD Client ID: Artesia-MW17C-04292020 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.01005	101	3	30	70-140	
1,1-Dichloroethene	0.0100	0.009163	92	2	30	58-148	
Benzene	0.0100	0.009703	97	4	30	70-130	
Naphthalene	0.0100	0.01081	108	15	30	10-150	
Tetrachloroethene	0.0100	0.007054	71	4	30	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab File ID: C12605.D Lab Sample ID: MB 600-293862/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHVOAMS01 Date Analyzed: 05/05/2020 12:42

GC Column: DB-VRX 60 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-293862/3	C12602.D	05/05/2020 11:23
	LCSD 600-293862/4	C12603.D	05/05/2020 11:49
Artesia-TB02-04292020	600-204539-1	C12515.D	05/05/2020 17:11
Artesia-MW17C-04292020	600-204539-2	C12516.D	05/05/2020 17:38
Artesia-MW17C-04292020 MS	600-204539-2 MS	C12517.D	05/05/2020 18:05
Artesia-MW17C-04292020 MSD	600-204539-2 MSD	C12518.D	05/05/2020 18:32

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab File ID: C11200.D BFB Injection Date: 04/21/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 17:07

Analysis Batch No.: 292951

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.2	
75	30.0 - 60.0 % of mass 95	46.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	76.6	
175	5.0 - 9.0 % of mass 174	5.6	(7.3) 1
176	95.0 - 101.0 % of mass 174	73.9	(96.4) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 600-292951/2	C11201.D	04/21/2020	17:33
	IC 600-292951/3	C11202.D	04/21/2020	17:58
	IC 600-292951/4	C11203.D	04/21/2020	18:24
	IC 600-292951/5	C11204.D	04/21/2020	18:50
	ICIS 600-292951/6	C11205.D	04/21/2020	19:16
	IC 600-292951/7	C11206.D	04/21/2020	19:42
	IC 600-292951/8	C11207.D	04/21/2020	20:08
	ICV 600-292951/1012	C11211-ICV.d	04/21/2020	21:51

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab File ID: C12600.D BFB Injection Date: 05/05/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 10:13

Analysis Batch No.: 293862

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.3	
75	30.0 - 60.0 % of mass 95	48.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	68.1	
175	5.0 - 9.0 % of mass 174	4.9	(7.2) 1
176	95.0 - 101.0 % of mass 174	66.0	(96.9) 1
177	5.0 - 9.0 % of mass 176	4.3	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 600-293862/2	C12601.D	05/05/2020	10:39
	LCS 600-293862/3	C12602.D	05/05/2020	11:23
	LCSD 600-293862/4	C12603.D	05/05/2020	11:49
	MB 600-293862/6	C12605.D	05/05/2020	12:42
Artesia-TB02-04292020	600-204539-1	C12515.D	05/05/2020	17:11
Artesia-MW17C-04292020	600-204539-2	C12516.D	05/05/2020	17:38
Artesia-MW17C-04292020 MS	600-204539-2 MS	C12517.D	05/05/2020	18:05
Artesia-MW17C-04292020 MSD	600-204539-2 MSD	C12518.D	05/05/2020	18:32

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Sample No.: ICIS 600-292951/6 Date Analyzed: 04/21/2020 19:16

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C11205.D Heated Purge: (Y/N) N

Calibration ID: 18007

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		573225	8.48	200053	11.48	173570	14.06
UPPER LIMIT		1146450	8.98	400106	11.98	347140	14.56
LOWER LIMIT		286613	7.98	100027	10.98	86785	13.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 600-292951/1012		567317	8.49	193880	11.47	174429	14.06
CCVIS 600-293862/2		421055	8.48	149382	11.47	141039	14.06

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Sample No.: CCVIS 600-293862/2 Date Analyzed: 05/05/2020 10:39

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C12601.D Heated Purge: (Y/N) N

Calibration ID: 18007

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		421055	8.48	149382	11.47	141039	14.06
UPPER LIMIT		842110	8.98	298764	11.97	282078	14.56
LOWER LIMIT		210528	7.98	74691	10.97	70520	13.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 600-293862/3		459976	8.48	153823	11.47	146771	14.06
LCSD 600-293862/4		471111	8.48	155880	11.48	150570	14.06
MB 600-293862/6		444262	8.49	158375	11.48	145256	14.06
600-204539-1	Artesia-TB02-04292020	399527	8.49	146309	11.48	134771	14.06
600-204539-2	Artesia-MW17C-04292020	402799	8.49	146176	11.48	133243	14.06
600-204539-2 MS	Artesia-MW17C-04292020 MS	425228	8.49	156014	11.48	147540	14.06
600-204539-2 MSD	Artesia-MW17C-04292020 MSD	432571	8.49	163366	11.48	150023	14.06

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Artesia-TB02-04292020 Lab Sample ID: 600-204539-1

Matrix: Water Lab File ID: C12515.D

Analysis Method: 8260B Date Collected: 04/29/2020 08:45

Sample wt/vol: 20(mL) Date Analyzed: 05/05/2020 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293862 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		50-134
460-00-4	4-Bromofluorobenzene	119		67-139
1868-53-7	Dibromofluoromethane	104		62-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Artesia-MW17C-04292020 Lab Sample ID: 600-204539-2

Matrix: Water Lab File ID: C12516.D

Analysis Method: 8260B Date Collected: 04/29/2020 09:42

Sample wt/vol: 20(mL) Date Analyzed: 05/05/2020 17:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293862 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		50-134
460-00-4	4-Bromofluorobenzene	118		67-139
1868-53-7	Dibromofluoromethane	102		62-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-292951/2	C11201.D
Level 2	IC 600-292951/3	C11202.D
Level 3	IC 600-292951/4	C11203.D
Level 4	IC 600-292951/5	C11204.D
Level 5	ICIS 600-292951/6	C11205.D
Level 6	IC 600-292951/7	C11206.D
Level 7	IC 600-292951/8	C11207.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.1689 0.2250	0.1808 0.2144	0.1926	0.2275	0.2228	Ave		0.2046				11.6		15.0			
Chloromethane	0.1844 0.1407	0.1600 0.1411	0.1387	0.1458	0.1438	Ave		0.1506			0.1000	11.0		15.0			
Vinyl chloride	0.1248 0.1231	0.1340 0.0828	0.1382	0.1563	0.1436	Qua	-0.001	0.1536	-0.001418						0.9990		0.9900
Butadiene	0.1440 0.1569	0.1530 0.1181	0.1558	0.1836	0.1712	Ave		0.1546				13.4		15.0			
Bromomethane	0.0909 0.1349	0.1049 0.1315	0.1043	0.1275	0.1338	Qua	-0.045	0.1397	-0.000146						1.0000		0.9900
Chloroethane	0.1254 0.1572	0.1471 0.1446	0.1444	0.1679	0.1624	Ave		0.1498				9.4		15.0			
Dichlorofluoromethane	0.3204 0.3849	0.3463 0.3553	0.3428	0.3976	0.3943	Ave		0.3631				8.1		15.0			
Acrolein	0.0168 0.0123	0.0142 0.0120	0.0134	0.0135	0.0125	Ave		0.0135				12.1		15.0			
Trichlorofluoromethane	0.3248 0.4142	0.3568 0.3443	0.3766	0.4333	0.4254	Ave		0.3822				11.2		15.0			
Acetonitrile	0.0104 0.0080	0.0106 0.0075	0.0113	0.0082	0.0084	Lin1	0.0278	0.0077							0.9950		0.9900
Isopropyl alcohol	0.0066 0.0036	0.0050 0.0036	0.0051	0.0039	0.0037	Lin2	0.0149	0.0037							0.9910		0.9900
Acetone	0.0728 0.0210	0.0391 0.0201	0.0309	0.0239	0.0217	Lin1	0.0479	0.0196							0.9990		0.9900
Ethyl ether	0.1784 0.1419	0.1751 0.1303	0.1740	0.1546	0.1531	Ave		0.1582				11.6		15.0			
t-Butanol	0.0102 0.0072	0.0092 0.0071	0.0094	0.0084	0.0081	Ave		0.0085				13.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloroethene	0.3234 0.2242	0.2995 0.1909	0.2932	0.2562	0.2407	Qua	0.0731	0.2429	-0.001071						1.0000		0.9900
Acrylonitrile	0.0213 0.0196	0.0228 0.0179	0.0224	0.0207	0.0203	Ave		0.0207				8.0		15.0			
Iodomethane	0.3290 0.3183	0.3600 0.2781	0.3664	0.3454	0.3344	Ave		0.3331				8.9		15.0			
Methylene Chloride	1.0237 0.2103	0.5773 0.1734	0.4141	0.2878	0.2431	Lin1	0.4383	0.1762							0.9910		0.9900
Methyl acetate	0.0721 0.0544	0.0650 0.0520	0.0697	0.0614	0.0602	Ave		0.0621				12.0		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2931 0.2074	0.2452 0.1749	0.2628	0.2319	0.2134	Lin1	0.0832	0.1867							0.9900		0.9900
3-Chloro-1-propene	0.2025 0.1492	0.1917 0.1313	0.1917	0.1718	0.1611	Lin1	0.0588	0.1388							0.9920		0.9900
Carbon disulfide	1.0573 0.6293	0.8416 0.5527	0.8416	0.7395	0.6740	Lin1	0.3280	0.5810							0.9920		0.9900
trans-1,2-Dichloroethene	0.3685 0.2484	0.3311 0.2154	0.3197	0.2846	0.2695	Lin1	0.1132	0.2284							0.9910		0.9900
Methyl tert-butyl ether	0.6537 0.4627	0.6314 0.4104	0.6035	0.5326	0.5068	Lin1	0.2000	0.4324							0.9920		0.9900
1,1-Dichloroethane	0.6431 0.4353	0.5923 0.3655	0.5694	0.5107	0.4741	Qua	0.1558	0.4762	-0.002280		0.1000				1.0000		0.9900
Propionitrile	0.0105 0.0095	0.0106 0.0088	0.0109	0.0104	0.0094	Ave		0.0100				7.8		15.0			
Vinyl acetate	0.2992 0.2519	0.2878 0.2382	0.2879	0.2780	0.2664	Ave		0.2728				8.0		15.0			
2-Chloro-1,3-butadiene	0.5550 0.3514	0.4768 0.2772	0.5014	0.4366	0.3952	Qua	0.1590	0.3969	-0.002462						1.0000		0.9900
Hexane	0.5514 0.3092	0.4536 0.2238	0.4746	0.3929	0.3508	Qua	0.1649	0.3590	-0.002772						1.0000		0.9900
Isopropyl ether	1.2625 0.7094	1.1648 0.5303	1.1079	0.9388	0.8322	Qua	0.4895	0.8172	-0.005946						0.9990		0.9900
2-Butanone (MEK)	0.0118 0.0115	0.0136 0.0102	0.0130	0.0124	0.0125	Ave		0.0122				9.1		15.0			
Methacrylonitrile	0.0127 0.0118	0.0132 0.0103	0.0139	0.0134	0.0125	Ave		0.0125				9.6		15.0			
cis-1,2-Dichloroethene	0.3646 0.2569	0.3362 0.2284	0.3262	0.2940	0.2770	Lin1	0.1043	0.2400							0.9930		0.9900
Ethyl acetate	0.0833 0.0889	0.0957 0.0881	0.0955	0.0907	0.0918	Ave		0.0906				4.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobromomethane	0.1204 0.0932	0.1135 0.0760	0.1161	0.1065	0.1062	Ave		0.1045				14.7		15.0			
Tert-butyl ethyl ether	1.0329 0.6704	0.9692 0.5088	0.9510	0.8400	0.7828	Qua	0.3053	0.7777	-0.005510						1.0000		0.9900
Chloroform	0.6113 0.3779	0.5549 0.3072	0.5337	0.4679	0.4265	Qua	0.1936	0.4204	-0.002345						1.0000		0.9900
Isobutyl alcohol	0.0087 0.0056	0.0069 0.0046	0.0081	0.0063	0.0061	Qua	0.0428	0.0062	-0.000001						1.0000		0.9900
2,2-Dichloropropane	0.6555 0.4384	0.5622 0.3712	0.5657	0.5177	0.4744	Qua	0.1487	0.4780	-0.002199						1.0000		0.9900
Tetrahydrofuran	0.0207 0.0197	0.0295 0.0202	0.0259	0.0203	0.0199	Lin1	0.0084	0.0200							0.9970		0.9900
1,2-Dichloroethane	0.2554 0.2093	0.2533 0.1948	0.2480	0.2272	0.2187	Ave		0.2295				10.2		15.0			
1,1,1-Trichloroethane	0.6062 0.4111	0.5394 0.3476	0.5462	0.4807	0.4458	Qua	0.1463	0.4479	-0.002067						1.0000		0.9900
n-Butanol	0.0029 0.0016	0.0023 0.0015	0.0021	0.0017	0.0017	Lin2	0.0172	0.0016							0.9950		0.9900
1,1-Dichloropropene	0.4772 0.3471	0.4273 0.2931	0.4288	0.4063	0.3729	Qua	0.0893	0.3802	-0.001779						1.0000		0.9900
Cyclohexane	0.6005 0.3919	0.5127 0.3225	0.5304	0.4589	0.4238	Qua	0.1381	0.4313	-0.002234						1.0000		0.9900
Carbon tetrachloride	0.5164 0.3593	0.4624 0.2995	0.4688	0.4186	0.3871	Qua	0.1106	0.3943	-0.001942						1.0000		0.9900
Benzene	1.4493 0.8969	1.2919 0.7111	1.2625	1.0982	1.0071	Qua	0.4151	1.0082	-0.006118						1.0000		0.9900
Tert-amyl methyl ether	0.7825 0.5532	0.7690 0.4998	0.7418	0.6506	0.6140	Lin1	0.2434	0.5241							0.9920		0.9900
Isooctane	1.1516 0.7345	0.9905 0.6071	1.0044	0.8568	0.7913	Qua	0.2779	0.8038	-0.004048						1.0000		0.9900
Ethyl acrylate	0.2137 0.1848	0.2341 0.1660	0.2051	0.1931	0.1956	Ave		0.1989				10.9		15.0			
n-Heptane	0.4436 0.3202	0.4075 0.2630	0.4208	0.3608	0.3380	Qua	0.0786	0.3519	-0.001809						1.0000		0.9900
Dibromomethane	0.0950 0.0733	0.0818 0.0656	0.0912	0.0812	0.0793	Ave		0.0811				12.3		15.0			
1,2-Dichloropropane	0.3042 0.2032	0.2913 0.1629	0.2816	0.2496	0.2294	Qua	0.0901	0.2284	-0.001348						1.0000		0.9900
2-Nitropropane	0.0377 0.0260	0.0310 0.0223	0.0315	0.0268	0.0281	Lin2	0.0124	0.0256							0.9910		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Trichloroethene	0.3775 0.2564	0.3424 0.2100	0.3384	0.3003	0.2805	Qua	0.0850	0.2842	-0.001519						1.0000		0.9900
Bromodichloromethane	0.3598 0.2781	0.3468 0.2458	0.3448	0.3154	0.2981	Ave		0.3127				13.2		15.0			
Methyl methacrylate	0.1271 0.1017	0.1161 0.0916	0.1160	0.1095	0.1088	Ave		0.1101				10.3		15.0			
1,4-Dioxane	0.0003 0.0006	0.0004 0.0005	0.0005	0.0005	0.0006	Lin2	-0.002	0.0006							1.0000		0.9900
2-Chloroethyl vinyl ether	0.0212 0.0557	0.0326	0.0343	0.0438	0.0496	Lin1	-0.045	0.0539							0.9930		0.9900
Methylcyclohexane	0.6549 0.4350	0.5598 0.3576	0.5752	0.5079	0.4697	Qua	0.1389	0.4798	-0.002502						1.0000		0.9900
cis-1,3-Dichloropropene	1.1870 0.8798	1.1097	1.0888	0.9994	0.9459	Ave		1.0351				11.0		15.0			
4-Methyl-2-pentanone (MIBK)	0.0934 0.0872	0.1032 0.0831	0.0960	0.0925	0.0911	Ave		0.0924				6.9		15.0			
trans-1,3-Dichloropropene	0.7342 0.5933	0.7047	0.6760	0.6444	0.6312	Ave		0.6639				7.7		15.0			
1,1,2-Trichloroethane	0.4306 0.3288	0.4129	0.4078	0.3682	0.3508	Ave		0.3832				10.4		15.0			
Ethyl methacrylate	0.5351 0.4046	0.4913	0.4958	0.4427	0.4334	Ave		0.4672				10.3		15.0			
Toluene	2.5027 1.6203	2.1978	2.1767	1.9476	1.7999	Lin2	0.3831	1.7950							0.9920		0.9900
1,3-Dichloropropane	0.7244 0.5874	0.7245	0.7126	0.6604	0.6319	Ave		0.6735				8.4		15.0			
2-Hexanone	0.1475 0.1488	0.1464	0.1806	0.1535	0.1541	Ave		0.1551				8.3		15.0			
Dibromochloromethane	0.5010 0.4284	0.5084	0.4989	0.4648	0.4481	Ave		0.4749				6.9		15.0			
n-Butyl acetate	0.4772 0.4171	0.4542	0.4701	0.4295	0.4265	Ave		0.4458				5.6		15.0			
1,2-Dibromoethane	0.3601 0.3059	0.3554	0.3515	0.3290	0.3202	Ave		0.3370				6.5		15.0			
Tetrachloroethene	0.7522 0.5435	0.6874	0.7086	0.6315	0.5906	Ave		0.6523				12.0		15.0			
1-Chlorohexane	0.8725 0.5842	0.7579	0.7616	0.6773	0.6275	Ave		0.7135				14.7		15.0			
1,1,1,2-Tetrachloroethane	0.8784 0.6665	0.8150 0.5842	0.8130	0.7650	0.7163	Ave		0.7483				13.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobenzene	2.1979 1.5691	2.0315	2.0117	1.8187	1.7133	Ave		1.8904			0.3000	12.3		15.0			
Ethylbenzene	1.3811 0.9703	1.2757	1.2609	1.1405	1.0585	Ave		1.1812				12.9		15.0			
m-Xylene & p-Xylene	3.1487 2.1123	2.8080	2.7284	2.4638	2.3076	Ave		2.5948				14.4		15.0			
Bromoform	0.2069 0.1826	0.1953	0.1981	0.1890	0.1893	Ave		0.1935			0.1000	4.4		15.0			
Styrene	2.1458 1.5962	1.9723	1.9470	1.8133	1.7291	Ave		1.8673				10.5		15.0			
o-Xylene	1.5840 1.0809	1.4610	1.4228	1.3089	1.1968	Ave		1.3424				13.7		15.0			
1,1,2,2-Tetrachloroethane	0.4155 0.2935	0.3773 0.2732	0.3747	0.3418	0.3172	Ave		0.3419			0.3000	14.8		15.0			
trans-1,4-Dichloro-2-butene	0.0534 0.0795	0.0691 0.0864	0.0738	0.0752	0.0773	Ave		0.0735				14.1		15.0			
1,2,3-Trichloropropane	0.1112 0.1019	0.1077 0.1024	0.1148	0.1092	0.1057	Ave		0.1076				4.4		15.0			
Isopropylbenzene	4.2717 3.0143	3.8107 2.4922	3.8575	3.5990	3.3107	Qua	0.9252	3.3463	-0.017478						1.0000		0.9900
Bromobenzene	0.8294 0.6489	0.7878 0.6134	0.7506	0.7261	0.6877	Ave		0.7206				10.6		15.0			
N-Propylbenzene	1.1393 0.8558	1.0288 0.7411	1.0624	0.9884	0.9288	Ave		0.9635				13.9		15.0			
2-Chlorotoluene	0.9732 0.7061	0.8850 0.6398	0.8804	0.8199	0.7651	Ave		0.8099				14.2		15.0			
4-Chlorotoluene	2.7104 2.0496	2.5423 1.8145	2.5296	2.3929	2.2196	Ave		2.3227				13.5		15.0			
1,3,5-Trimethylbenzene	3.5604 2.4237	3.1455 2.0814	3.1326	2.9028	2.6597	Qua	0.9081	2.6357	-0.011474						1.0000		0.9900
tert-Butylbenzene	2.9408 2.0042	2.6637 1.7266	2.6206	2.4066	2.1994	Qua	0.7995	2.1729	-0.009266						1.0000		0.9900
1,2,4-Trimethylbenzene	3.7774 2.5257	3.3827 2.1803	3.3027	3.0473	2.7788	Qua	1.0480	2.7358	-0.011557						1.0000		0.9900
sec-Butylbenzene	4.3345 2.9224	3.8203 2.5407	3.8528	3.5324	3.1897	Qua	1.2140	3.1483	-0.012669						1.0000		0.9900
Benzyl chloride	0.9439 0.7038	0.8476 0.6436	0.8063	0.7630	0.7329	Ave		0.7773				12.8		15.0			
1,3-Dichlorobenzene	1.7779 1.3276	1.6685 1.1834	1.6309	1.5350	1.4343	Ave		1.5082				13.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
4-Isopropyltoluene	3.7150 2.3130	3.2757 1.8577	3.2103	2.8945	2.6116	Qua	1.1107	2.5941	-0.015202						1.0000		0.9900
1,4-Dichlorobenzene	1.8634 1.2508	1.7641 1.0089	1.7440	1.5395	1.3974	Qua	0.5561	1.3979	-0.008016						1.0000		0.9900
1,2,3-Trimethylbenzene	3.7450 2.5340	3.4328 2.1975	3.3267	3.0873	2.7937	Qua	1.1039	2.7393	-0.011308						1.0000		0.9900
1,2-Dichlorobenzene	1.5367 1.1695	1.4965 1.0569	1.4268	1.3227	1.2502	Ave		1.3228				13.3		15.0			
n-Butylbenzene	3.2423 2.2073	2.7260 1.9309	2.8200	2.5995	2.3868	Lin1	0.9284	2.0457							0.9910		0.9900
1,2-Dibromo-3-Chloropropane	0.0542 0.0624	0.0636 0.0627	0.0669	0.0645	0.0638	Ave		0.0626				6.3		15.0			
1,3,5-Trichlorobenzene	1.1549 0.8515	1.1035 0.7373	1.0860	0.9974	0.9325	Qua	0.2809	0.9240	-0.003855						1.0000		0.9900
1,2,4-Trichlorobenzene	0.6773 0.5630	0.7004 0.4997	0.7137	0.6534	0.6116	Ave		0.6313				12.4		15.0			
Naphthalene	1.1412 0.7895	1.0909 0.7065	1.0737	0.9390	0.8575	Lin1	0.3631	0.7418							0.9920		0.9900
Hexachlorobutadiene	0.2057 0.1502	0.1848 0.1286	0.1976	0.1764	0.1592	Qua	0.0473	0.1622	-0.000693						1.0000		0.9900
1,2,3-Trichlorobenzene	0.4729 0.3522	0.4870 0.3062	0.4795	0.4276	0.3978	Qua	0.1605	0.3830	-0.001605						1.0000		0.9900
Dibromofluoromethane	0.3606 0.2474	0.3226 0.2159	0.3177	0.2845	0.2684	Lin1	0.1076	0.2286							0.9910		0.9900
1,2-Dichloroethane-d4 (Surr)	0.3073 0.1951	0.2687 0.1977	0.2690	0.2392	0.2309	Lin2	0.0500	0.2163							0.9900		0.9900
Toluene-d8 (Surr)	4.2734 2.4242	3.4330	3.3831	3.0157	2.7479	Lin2	0.8124	2.6916							0.9910		0.9900
4-Bromofluorobenzene	1.9959 0.8522	1.1513 0.7779	1.0568	0.9772	0.9159	Lin1	0.5593	0.7947							0.9960		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-292951/2	C11201.D
Level 2	IC 600-292951/3	C11202.D
Level 3	IC 600-292951/4	C11203.D
Level 4	IC 600-292951/5	C11204.D
Level 5	ICIS 600-292951/6	C11205.D
Level 6	IC 600-292951/7	C11206.D
Level 7	IC 600-292951/8	C11207.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	3835 208031	8028 495811	17200	51860	102184	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloromethane	FB	Ave	4187 130089	7108 326318	12382	33239	65928	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Vinyl chloride	FB	Qua	2833 113864	5952 191450	12342	35616	65858	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Butadiene	FB	Ave	3268 145043	6793 273144	13910	41841	78524	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromomethane	FB	Qua	2063 124711	4661 304129	9317	29054	61337	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloroethane	FB	Ave	2846 145319	6532 334400	12897	38259	74462	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dichlorofluoromethane	FB	Ave	7272 355876	15381 821799	30607	90632	180836	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acrolein	FB	Ave	1906 56652	3159 139176	5964	15334	28631	2.50 100	5.00 250	10.0	25.0	50.0
Trichlorofluoromethane	FB	Ave	7372 383012	15847 796455	33632	98759	195076	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acetonitrile	FB	Lin1	2368 74346	4686 172694	10107	18682	38546	5.00 200	10.0 500	20.0	50.0	100
Isopropyl alcohol	FB	Lin2	1496 33255	2229 83398	4531	8948	17185	5.00 200	10.0 500	20.0	50.0	100
Acetone	FB	Lin1	3307 38868	3474 92937	5525	10909	19902	1.00 40.0	2.00 100	4.00	10.0	20.0
Ethyl ether	FB	Ave	4050 131206	7777 301463	15538	35245	70188	0.500 20.0	1.00 50.0	2.00	5.00	10.0
t-Butanol	FB	Ave	2317 66356	4099 164756	8354	19234	37353	5.00 200	10.0 500	20.0	50.0	100
1,1-Dichloroethene	FB	Qua	7341 207355	13300 441472	26184	58394	110390	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Ave	4826 181095	10115 414940	19985	47242	92903	5.00 200	10.0 500	20.0	50.0	100
Iodomethane	FB	Ave	7468 294320	15990 643249	32719	78727	153366	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methylene Chloride	FB	Lin1	23238 194490	25641 401014	36978	65594	111482	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl acetate	FB	Ave	3275 100627	5774 240483	12454	27968	55216	1.00 40.0	2.00 100	4.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Lin1	6653 191752	10892 404510	23466	52858	97847	0.500 20.0	1.00 50.0	2.00	5.00	10.0
3-Chloro-1-propene	FB	Lin1	4596 137969	8512 303732	17119	39167	73864	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon disulfide	FB	Lin1	24001 581874	37379 1278445	75151	168550	309102	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,2-Dichloroethene	FB	Lin1	8364 229707	14707 498169	28547	64861	123596	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl tert-butyl ether	FB	Lin1	14838 427810	28043 949245	53891	121390	232427	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1-Dichloroethane	FB	Qua	14599 402517	26305 845316	50847	116398	217406	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Propionitrile	FB	Ave	2383 88286	4694 202939	9767	23713	43278	5.00 200	10.0 500	20.0	50.0	100
Vinyl acetate	FB	Ave	13582 465892	25567 1101827	51425	126747	244304	1.00 40.0	2.00 100	4.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Qua	12599 324921	21178 641204	44769	99507	181253	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexane	FB	Qua	12516 285938	20144 517748	42378	89559	160855	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropyl ether	FB	Qua	28658 655958	51734 1226580	98934	213995	381649	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Ave	534 21281	1210 47408	2329	5653	11460	1.00 40.0	2.00 100	4.00	10.0	20.0
Methacrylonitrile	FB	Ave	2888 109237	5844 237276	12385	30508	57432	5.00 200	10.0 500	20.0	50.0	100
cis-1,2-Dichloroethene	FB	Lin1	8276 237546	14931 528224	29130	67019	127040	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acetate	FB	Ave	3783 164317	8500 407755	17059	41357	84189	1.00 40.0	2.00 100	4.00	10.0	20.0
Chlorobromomethane	FB	Ave	2732 86183	5040 175872	10363	24273	48682	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-butyl ethyl ether	FB	Qua	23446 619909	43045 1176845	84922	191467	358982	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chloroform	FB	Qua	13876 349428	24647 710635	47653	106647	195602	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Qua	4922 130466	7674 264002	18125	35722	69641	12.5 500	25.0 1250	50.0	125	250
2,2-Dichloropropane	FB	Qua	14879 405391	24970 858561	50514	117995	217538	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrahydrofuran	FB	Lin1	941 36378	2618 93625	4619	9261	18234	1.00 40.0	2.00 100	4.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	5797 193514	11251 450535	22144	51789	100300	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1-Trichloroethane	FB	Qua	13760 380154	23957 804014	48774	109559	204457	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butanol	FB	Lin2	1658 37238	2595 85816	4700	9620	19818	12.5 500	25.0 1250	50.0	125	250
1,1-Dichloropropene	FB	Qua	10832 320964	18977 678029	38291	92602	170987	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Cyclohexane	FB	Qua	13632 362380	22770 745851	47367	104610	194341	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Qua	11723 332254	20536 692665	41862	95409	177533	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzene	FB	Qua	32899 829308	57379 1644709	112734	250319	461828	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-amyl methyl ether	FB	Lin1	17763 511503	34154 1156082	66244	148304	281546	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isooctane	FB	Qua	26142 679195	43989 1404279	89689	195306	362865	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acrylate	FB	Ave	4851 170909	10395 383910	18311	44019	89710	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Heptane	FB	Qua	10069 296101	18098 608284	37573	82249	155021	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	2156 67738	3633 151702	8146	18504	36384	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Qua	6905 187881	12937 376728	25147	56884	105184	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Nitropropane	FB	Lin2	1710 48066	2754 103116	5623	12198	25778	1.00 40.0	2.00 100	4.00	10.0	20.0
Trichloroethene	FB	Qua	8570 237060	15209 485774	30219	68456	128642	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	8167 257191	15401 568607	30793	71880	136702	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl methacrylate	FB	Ave	5772 188060	10309 423907	20713	49907	99757	1.00 40.0	2.00 100	4.00	10.0	20.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	FB	Lin2	158 10218	394 25022	922	2465	5076	10.0 400	20.0 1000	40.0	100	200
2-Chloroethyl vinyl ether	CBNZ d5	Lin1	325 36661	991 105872	2095	6831	15892	1.00 40.0	2.00 100	4.00	10.0	20.0
Methylcyclohexane	FB	Qua	14866 402195	24861 827050	51366	115779	215395	0.500 20.0	1.00 50.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	9088 289341	16845 648712	33297	77989	151392	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	4242 161253	9167 384211	17145	42181	83599	1.00 40.0	2.00 100	4.00	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	5621 195113	10697 463882	20672	50282	101019	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3297 108132	6267 250784	12470	28734	56147	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	4097 133061	7458 301566	15161	34546	69361	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene	CBNZ d5	Lin2	19162 532838	33360 1109323	66568	151979	288068	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	5546 193174	10998 448109	21791	51537	101128	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Hexanone	CBNZ d5	Ave	2259 97900	4444 241207	11044	23952	49312	1.00 40.0	2.00 100	4.00	10.0	20.0
Dibromochloromethane	CBNZ d5	Ave	3836 140893	7717 333273	15256	36272	71722	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butyl acetate	CBNZ d5	Ave	3654 137177	6895 331970	14376	33515	68265	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	2757 100589	5395 244698	10749	25673	51241	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	5759 178735	10434 375942	21670	49275	94528	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1-Chlorohexane	CBNZ d5	Ave	6680 192133	11505 404408	23291	52851	100430	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	DCBd 4	Ave	6154 187785	11304 411035	22626	52180	99456	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	16828 516010	30837 1112544	61520	141919	274205	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	10574 319107	19364 668625	38559	88995	169402	0.500 20.0	1.00 50.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	24108 694660	42623 1470235	83440	192264	369314	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromoform	CBNZ d5	Ave	1584 60062	2965 156909	6058	14747	30298	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Styrene	CBNZ d5	Ave	16429 524922	29938 1157337	59542	141501	276725	0.500 20.0	1.00 50.0	2.00	5.00	10.0
o-Xylene	CBNZ d5	Ave	12128 355452	22177 740679	43512	102139	191535	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	2911 82678	5234 192211	10427	23315	44043	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	374 22401	958 60777	2055	5132	10727	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	779 28706	1494 72021	3196	7446	14681	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropylbenzene	DCBd 4	Qua	29927 849203	52857 1753570	107354	245470	459711	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromobenzene	DCBd 4	Ave	5811 182801	10928 431625	20888	49526	95493	0.500 20.0	1.00 50.0	2.00	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	7982 241099	14270 521451	29567	67411	128975	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	6818 198918	12276 450194	24501	55923	106235	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	18989 577417	35263 1276708	70397	163207	308201	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Qua	24944 682821	43631 1464538	87179	197987	369310	0.500 20.0	1.00 50.0	2.00	5.00	10.0
tert-Butylbenzene	DCBd 4	Qua	20603 564638	36947 1214898	72931	164145	305403	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Qua	26464 711561	46921 1534101	91912	207841	385856	0.500 20.0	1.00 50.0	2.00	5.00	10.0
sec-Butylbenzene	DCBd 4	Qua	30367 823323	52991 1787712	107222	240924	442904	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzyl chloride	DCBd 4	Ave	6613 198290	11757 452881	22440	52040	101762	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	12456 374019	23143 832652	45388	104696	199167	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Isopropyltoluene	DCBd 4	Qua	26027 651626	45437 1307102	89342	197421	362639	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCBd 4	Qua	13055 352390	24469 709885	48535	105003	194040	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trimethylbenzene	DCBd 4	Qua	26237 713899	47616 1546246	92582	210568	387924	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	10766 329483	20758 743688	39706	90215	173604	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butylbenzene	DCBd 4	Lin1	22715 621853	37811 1358640	78479	177297	331417	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	380 17571	882 44113	1861	4398	8860	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trichlorobenzene	DCBd 4	Qua	8091 239884	15307 518780	30222	68028	129478	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	4745 158624	9715 351585	19861	44563	84927	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Naphthalene	DCBd 4	Lin1	7995 222414	15132 497146	29880	64044	119069	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexachlorobutadiene	DCBd 4	Qua	1441 42308	2563 90455	5498	12031	22110	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Qua	3313 99222	6755 215465	13345	29166	55231	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromofluoromethane	FB	Lin1	8186 228718	14327 499462	28367	64838	123061	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Lin2	6976 180399	11935 457203	24019	54529	105897	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene-d8 (Surr)	CBNZ d5	Lin2	32719 797231	52110 1617193	103462	235325	439787	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Bromofluorobenzene	DCBd 4	Lin1	13983 240081	15969 547321	29411	66647	127175	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab Sample ID: ICV 600-292951/1012 Calibration Date: 04/21/2020 21:51

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C11211-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2046	0.2204		10.8	10.0	7.7	50.0
Chloromethane	Ave	0.1506	0.1508	0.1000	10.0	10.0	0.1	30.0
Vinyl chloride	Qua		0.1343		9.60	10.0	-4.0	30.0
Butadiene	Ave	0.1546	0.1690		10.9	10.0	9.3	50.0
Bromomethane	Qua		0.1424		10.6	10.0	6.3	30.0
Chloroethane	Ave	0.1498	0.1634		10.9	10.0	9.1	30.0
Dichlorofluoromethane	Ave	0.3631	0.3976		11.0	10.0	9.5	30.0
Acrolein	Ave	0.0135	0.0104		38.4	50.0	-23.2	50.0
Trichlorofluoromethane	Ave	0.3822	0.4253		11.1	10.0	11.3	30.0
Acetonitrile	Lin1		0.0081		102	100	2.2	30.0
Isopropyl alcohol	Lin2		0.0029		74.3	100	-25.7	50.0
Acetone	Lin1		0.0223		20.3	20.0	1.6	50.0
Ethyl ether	Ave	0.1582	0.1432		9.05	10.0	-9.5	50.0
t-Butanol	Ave	0.0085	0.0078		92.0	100	-8.0	30.0
1,1-Dichloroethene	Qua		0.2363		9.86	10.0	-1.4	30.0
Acrylonitrile	Ave	0.0207	0.0194		93.6	100	-6.4	50.0
Iodomethane	Ave	0.3331	0.3340		10.0	10.0	0.3	30.0
Methylene Chloride	Lin1		0.2422		11.3	10.0	12.6	50.0
Methyl acetate	Ave	0.0621	0.0570		18.4	20.0	-8.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		0.2103		10.8	10.0	8.2	30.0
3-Chloro-1-propene	Lin1		0.1573		10.9	10.0	9.1	30.0
Carbon disulfide	Lin1		0.6856		11.2	10.0	12.4	30.0
trans-1,2-Dichloroethene	Lin1		0.2679		11.2	10.0	12.3	30.0
Methyl tert-butyl ether	Lin1		0.4817		10.7	10.0	6.8	30.0
Propionitrile	Ave	0.0100	0.0092		92.1	100	-7.9	30.0
1,1-Dichloroethane	Qua		0.4726	0.1000	10.1	10.0	0.8	30.0
Vinyl acetate	Ave	0.2728	0.2278		16.7	20.0	-16.5	50.0
2-Chloro-1,3-butadiene	Qua		0.2715		6.72	10.0	-32.8*	30.0
Hexane	Qua		0.3404		9.76	10.0	-2.4	30.0
Isopropyl ether	Qua		0.8274		10.3	10.0	3.0	30.0
2-Butanone (MEK)	Ave	0.0122	0.0121		19.9	20.0	-0.6	50.0
Methacrylonitrile	Ave	0.0125	0.0090		71.9	100	-28.1	30.0
cis-1,2-Dichloroethene	Lin1		0.2746		11.0	10.0	10.1	30.0
Ethyl acetate	Ave	0.0906	0.0833		18.4	20.0	-8.0	30.0
Chlorobromomethane	Ave	0.1045	0.0962		9.20	10.0	-8.0	30.0
Tert-butyl ethyl ether	Qua		0.7526		9.99	10.0	-0.0	30.0
Chloroform	Qua		0.4204		10.1	10.0	1.1	30.0
Isobutyl alcohol	Qua		0.0058		237	250	-5.1	50.0
2,2-Dichloropropane	Qua		0.4556		9.65	10.0	-3.5	30.0
Tetrahydrofuran	Lin1		0.0192		18.8	20.0	-6.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab Sample ID: ICV 600-292951/1012 Calibration Date: 04/21/2020 21:51

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C11211-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.2295	0.2122		9.25	10.0	-7.5	30.0
1,1,1-Trichloroethane	Qua		0.4438		10.1	10.0	0.5	30.0
1,1-Dichloropropene	Qua		0.3715		10.0	10.0	0.0	30.0
Cyclohexane	Qua		0.4205		9.94	10.0	-0.6	50.0
Carbon tetrachloride	Qua		0.3841		9.95	10.0	-0.5	30.0
Benzene	Qua		1.005		10.2	10.0	1.8	30.0
Tert-amyl methyl ether	Lin1		0.5930		10.9	10.0	8.5	30.0
Isooctane	Qua		0.3866		4.57	10.0	-54.3*	30.0
Ethyl acrylate	Ave	0.1989	0.1828		9.19	10.0	-8.1	30.0
n-Heptane	Qua		0.3328		9.72	10.0	-2.8	30.0
Dibromomethane	Ave	0.0811	0.0766		9.45	10.0	-5.5	30.0
1,2-Dichloropropane	Qua		0.2269		10.2	10.0	1.5	30.0
2-Nitropropane	Lin2		0.0199		15.1	20.0	-24.7	30.0
Trichloroethene	Qua		0.2827		10.2	10.0	2.1	30.0
Bromodichloromethane	Ave	0.3127	0.2897		9.26	10.0	-7.4	30.0
Methyl methacrylate	Ave	0.1101	0.0990		18.0	20.0	-10.1	50.0
1,4-Dioxane	Lin2		0.0006		201	200	0.6	50.0
2-Chloroethyl vinyl ether	Lin1		0.0495		19.2	20.0	-4.1	30.0
Methylcyclohexane	Qua		0.4698		10.0	10.0	0.3	30.0
cis-1,3-Dichloropropene	Ave	1.035	0.9335		9.02	10.0	-9.8	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0924	0.0915		19.8	20.0	-1.0	50.0
trans-1,3-Dichloropropene	Ave	0.6639	0.6133		9.24	10.0	-7.6	30.0
1,1,2-Trichloroethane	Ave	0.3832	0.3464		9.04	10.0	-9.6	30.0
Ethyl methacrylate	Ave	0.4672	0.4273		9.15	10.0	-8.5	50.0
Toluene	Lin2		1.819		9.92	10.0	-0.8	30.0
1,3-Dichloropropane	Ave	0.6735	0.6259		9.29	10.0	-7.1	30.0
2-Hexanone	Ave	0.1551	0.1563		20.2	20.0	0.7	50.0
Dibromochloromethane	Ave	0.4749	0.4411		9.29	10.0	-7.1	30.0
n-Butyl acetate	Ave	0.4458	0.4063		9.12	10.0	-8.9	30.0
1,2-Dibromoethane	Ave	0.3370	0.3169		9.40	10.0	-6.0	30.0
Tetrachloroethene	Ave	0.6523	0.5954		9.13	10.0	-8.7	30.0
1-Chlorohexane	Ave	0.7135	0.4428		6.21	10.0	-37.9*	30.0
1,1,1,2-Tetrachloroethane	Ave	0.7483	0.6906		9.23	10.0	-7.7	30.0
Chlorobenzene	Ave	1.890	1.729	0.3000	9.15	10.0	-8.5	30.0
Ethylbenzene	Ave	1.181	1.072		9.08	10.0	-9.2	30.0
m-Xylene & p-Xylene	Ave	2.595	2.332		8.99	10.0	-10.1	30.0
Bromoform	Ave	0.1935	0.1804	0.1000	9.32	10.0	-6.8	30.0
Styrene	Ave	1.867	1.723		9.23	10.0	-7.7	30.0
o-Xylene	Ave	1.342	1.220		9.09	10.0	-9.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3419	0.3001	0.3000	8.78	10.0	-12.2	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0735	0.0693		9.43	10.0	-5.7	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab Sample ID: ICV 600-292951/1012 Calibration Date: 04/21/2020 21:51

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C11211-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.1076	0.0999		9.29	10.0	-7.1	30.0
Isopropylbenzene	Qua		3.252		9.96	10.0	-0.4	30.0
Bromobenzene	Ave	0.7206	0.6694		9.29	10.0	-7.1	30.0
N-Propylbenzene	Ave	0.9635	0.9116		9.46	10.0	-5.4	30.0
2-Chlorotoluene	Ave	0.8099	0.7482		9.24	10.0	-7.6	30.0
4-Chlorotoluene	Ave	2.323	2.186		9.41	10.0	-5.9	30.0
1,3,5-Trimethylbenzene	Qua		2.595		9.93	10.0	-0.7	30.0
tert-Butylbenzene	Qua		2.173		10.1	10.0	0.6	30.0
1,2,4-Trimethylbenzene	Qua		2.742		10.1	10.0	0.7	30.0
sec-Butylbenzene	Qua		3.193		10.2	10.0	1.7	30.0
Benzyl chloride	Ave	0.7773	0.4713		6.06	10.0	-39.4*	30.0
1,3-Dichlorobenzene	Ave	1.508	1.409		9.34	10.0	-6.6	30.0
4-Isopropyltoluene	Qua		2.588		10.2	10.0	1.5	30.0
1,4-Dichlorobenzene	Qua		1.375		10.0	10.0	0.1	30.0
1,2,3-Trimethylbenzene	Qua		1.919		6.79	10.0	-32.1*	30.0
1,2-Dichlorobenzene	Ave	1.323	1.210		9.15	10.0	-8.5	30.0
n-Butylbenzene	Lin1		2.369		11.1	10.0	11.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0626	0.0589		9.41	10.0	-5.9	30.0
1,3,5-Trichlorobenzene	Qua		0.4905		5.11	10.0	-48.9*	30.0
1,2,4-Trichlorobenzene	Ave	0.6313	0.5826		9.23	10.0	-7.7	30.0
Naphthalene	Lin1		0.8070		10.4	10.0	3.9	30.0
Hexachlorobutadiene	Qua		0.1602		10.0	10.0	0.1	30.0
1,2,3-Trichlorobenzene	Qua		0.3676		9.56	10.0	-4.4	30.0
Dibromofluoromethane	Lin1		0.2386		12.6	12.5	0.6	30.0
1,2-Dichloroethane-d4 (Surr)	Lin2		0.1678		9.46	12.5	-24.3	30.0
Toluene-d8 (Surr)	Lin2		2.667		12.1	12.5	-3.3	30.0
4-Bromofluorobenzene	Lin1		0.9774		14.7	12.5	17.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab Sample ID: CCVIS 600-293862/2 Calibration Date: 05/05/2020 10:39

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C12601.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2046	0.2238		10.9	10.0	9.4	35.0
Chloromethane	Ave	0.1506	0.2055	0.1000	13.6	10.0	36.4*	35.0
Vinyl chloride	Qua		0.1149		8.09	10.0	-19.1	20.0
Butadiene	Ave	0.1546	0.1573		10.2	10.0	1.7	35.0
Bromomethane	Qua		0.1751		13.0	10.0	30.4	35.0
Chloroethane	Ave	0.1498	0.1831		12.2	10.0	22.2	35.0
Dichlorofluoromethane	Ave	0.3631	0.4456		12.3	10.0	22.7	35.0
Acrolein	Ave	0.0135	0.0117		43.3	50.0	-13.4	50.0
Trichlorofluoromethane	Ave	0.3822	0.4475		11.7	10.0	17.1	35.0
Acetonitrile	Lin1		0.0095		121	100	20.8	50.0
Isopropyl alcohol	Lin2		0.0044		114	100	14.1	50.0
Acetone	Lin1		0.0223		20.3	20.0	1.7	50.0
Ethyl ether	Ave	0.1582	0.1385		8.75	10.0	-12.5	35.0
t-Butanol	Ave	0.0085	0.0081		94.5	100	-5.5	35.0
1,1-Dichloroethene	Qua		0.2352		9.81	10.0	-1.9	20.0
Acrylonitrile	Ave	0.0207	0.0215		104	100	3.7	50.0
Iodomethane	Ave	0.3331	0.1830		5.50	10.0	-45.1*	35.0
Methylene Chloride	Lin1		0.2377		11.0	10.0	10.0	50.0
Methyl acetate	Ave	0.0621	0.0619		19.9	20.0	-0.3	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		0.2111		10.9	10.0	8.6	35.0
3-Chloro-1-propene	Lin1		0.1609		11.2	10.0	11.7	35.0
Carbon disulfide	Lin1		0.7337		12.1	10.0	20.6	35.0
trans-1,2-Dichloroethene	Lin1		0.2573		10.8	10.0	7.7	35.0
Methyl tert-butyl ether	Lin1		0.4443		9.81	10.0	-1.9	35.0
1,1-Dichloroethane	Qua		0.4896	0.1000	10.5	10.0	4.8	35.0
Propionitrile	Ave	0.0100	0.0105		104	100	4.2	35.0
Vinyl acetate	Ave	0.2728	0.2565		18.8	20.0	-6.0	50.0
2-Chloro-1,3-butadiene	Qua		0.4218		11.0	10.0	9.7	35.0
Hexane	Qua		0.4088		12.1	10.0	20.5	35.0
Isopropyl ether	Qua		0.8659		10.9	10.0	8.5	35.0
2-Butanone (MEK)	Ave	0.0122	0.0116		19.0	20.0	-5.0	50.0
Methacrylonitrile	Ave	0.0125	0.0119		95.3	100	-4.7	35.0
cis-1,2-Dichloroethene	Lin1		0.2619		10.5	10.0	4.8	35.0
Ethyl acetate	Ave	0.0906	0.0847		18.7	20.0	-6.5	35.0
Chlorobromomethane	Ave	0.1045	0.0930		8.90	10.0	-11.0	35.0
Tert-butyl ethyl ether	Qua		0.7560		10.0	10.0	0.4	50.0
Chloroform	Qua		0.4237		10.2	10.0	2.0	20.0
Isobutyl alcohol	Qua		0.0064		263	250	5.1	50.0
2,2-Dichloropropane	Qua		0.4734		10.1	10.0	0.6	35.0
Tetrahydrofuran	Lin1		0.0202		19.9	20.0	-0.8	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab Sample ID: CCVIS 600-293862/2 Calibration Date: 05/05/2020 10:39

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C12601.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.2295	0.2022		8.81	10.0	-11.9	35.0
1,1,1-Trichloroethane	Qua		0.4274		9.65	10.0	-3.5	35.0
1,1-Dichloropropene	Qua		0.3792		10.2	10.0	2.3	35.0
Cyclohexane	Qua		0.4282		10.1	10.0	1.4	35.0
Carbon tetrachloride	Qua		0.3670		9.47	10.0	-5.3	35.0
Benzene	Qua		1.044		10.6	10.0	6.3	35.0
Tert-amyl methyl ether	Lin1		0.5420		9.88	10.0	-1.2	50.0
Isooctane	Qua		0.8508		10.8	10.0	8.3	35.0
Ethyl acrylate	Ave	0.1989	0.1814		9.12	10.0	-8.8	35.0
n-Heptane	Qua		0.3851		11.4	10.0	13.9	35.0
Dibromomethane	Ave	0.0811	0.0702		8.66	10.0	-13.4	35.0
1,2-Dichloropropane	Qua		0.2270		10.2	10.0	1.5	20.0
2-Nitropropane	Lin2		0.0282		21.5	20.0	7.4	35.0
Trichloroethene	Qua		0.2573		9.21	10.0	-7.9	35.0
Bromodichloromethane	Ave	0.3127	0.2766		8.85	10.0	-11.5	35.0
Methyl methacrylate	Ave	0.1101	0.1008		18.3	20.0	-8.4	50.0
1,4-Dioxane	Lin2		0.0007		242	200	21.1	50.0
2-Chloroethyl vinyl ether	Lin1		0.0446		17.4	20.0	-13.1	35.0
Methylcyclohexane	Qua		0.4714		10.1	10.0	0.6	35.0
cis-1,3-Dichloropropene	Ave	1.035	0.8532		8.24	10.0	-17.6	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0924	0.0858		18.6	20.0	-7.1	50.0
trans-1,3-Dichloropropene	Ave	0.6639	0.5465		8.23	10.0	-17.7	35.0
1,1,2-Trichloroethane	Ave	0.3832	0.2933		7.65	10.0	-23.5	35.0
Ethyl methacrylate	Ave	0.4672	0.3550		7.60	10.0	-24.0	50.0
Toluene	Lin2		1.652		8.99	10.0	-10.1	20.0
1,3-Dichloropropane	Ave	0.6735	0.5699		8.46	10.0	-15.4	35.0
2-Hexanone	Ave	0.1551	0.1396		18.0	20.0	-10.0	50.0
Dibromochloromethane	Ave	0.4749	0.3599		7.58	10.0	-24.2	35.0
n-Butyl acetate	Ave	0.4458	0.3862		8.66	10.0	-13.4	35.0
1,2-Dibromoethane	Ave	0.3370	0.2638		7.83	10.0	-21.7	35.0
Tetrachloroethene	Ave	0.6523	0.5173		7.93	10.0	-20.7	35.0
1-Chlorohexane	Ave	0.7135	0.6340		8.89	10.0	-11.2	35.0
1,1,1,2-Tetrachloroethane	Ave	0.7483	0.5464		7.30	10.0	-27.0	35.0
Chlorobenzene	Ave	1.890	1.514	0.3000	8.01	10.0	-19.9	35.0
Ethylbenzene	Ave	1.181	1.113		9.43	10.0	-5.8	20.0
m-Xylene & p-Xylene	Ave	2.595	2.150		8.29	10.0	-17.1	35.0
Bromoform	Ave	0.1935	0.1781	0.1000	9.20	10.0	-8.0	35.0
Styrene	Ave	1.867	1.467		7.85	10.0	-21.5	35.0
o-Xylene	Ave	1.342	1.072		7.99	10.0	-20.1	35.0
1,1,2,2-Tetrachloroethane	Ave	0.3419	0.3594	0.3000	10.5	10.0	5.1	35.0
trans-1,4-Dichloro-2-butene	Ave	0.0735	0.0602		8.19	10.0	-18.1	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab Sample ID: CCVIS 600-293862/2 Calibration Date: 05/05/2020 10:39

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C12601.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.1076	0.0818		7.61	10.0	-23.9	35.0
Isopropylbenzene	Qua		2.835		8.58	10.0	-14.2	35.0
Bromobenzene	Ave	0.7206	0.5330		7.40	10.0	-26.0	35.0
N-Propylbenzene	Ave	0.9635	0.7954		8.26	10.0	-17.4	35.0
2-Chlorotoluene	Ave	0.8099	0.6380		7.88	10.0	-21.2	35.0
4-Chlorotoluene	Ave	2.323	1.937		8.34	10.0	-16.6	35.0
1,3,5-Trimethylbenzene	Qua		2.291		8.67	10.0	-13.3	35.0
tert-Butylbenzene	Qua		1.899		8.69	10.0	-13.1	35.0
1,2,4-Trimethylbenzene	Qua		2.382		8.64	10.0	-13.6	35.0
sec-Butylbenzene	Qua		2.908		9.19	10.0	-8.1	35.0
Benzyl chloride	Ave	0.7773	0.5655		7.28	10.0	-27.2	35.0
1,3-Dichlorobenzene	Ave	1.508	1.165		7.72	10.0	-22.8	35.0
4-Isopropyltoluene	Qua		2.342		9.08	10.0	-9.2	35.0
1,4-Dichlorobenzene	Qua		1.177		8.43	10.0	-15.7	35.0
1,2,3-Trimethylbenzene	Qua		2.363		8.52	10.0	-14.8	35.0
1,2-Dichlorobenzene	Ave	1.323	0.9702		7.34	10.0	-26.7	35.0
n-Butylbenzene	Lin1		2.211		10.4	10.0	3.6	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0626	0.0417		6.66	10.0	-33.4	35.0
1,3,5-Trichlorobenzene	Qua		0.7129		7.66	10.0	-23.4	35.0
1,2,4-Trichlorobenzene	Ave	0.6313	0.4201		6.66	10.0	-33.5	35.0
Naphthalene	Lin1		0.5861		7.41	10.0	-25.9	35.0
Hexachlorobutadiene	Qua		0.1274		7.82	10.0	-21.8	35.0
1,2,3-Trichlorobenzene	Qua		0.2471		6.19	10.0	-38.1*	35.0
Dibromofluoromethane	Lin1		0.2407		10.1	10.0	0.6	35.0
1,2-Dichloroethane-d4 (Surr)	Lin2		0.2149		9.70	10.0	-3.0	35.0
Toluene-d8 (Surr)	Lin2		2.607		9.38	10.0	-6.2	35.0
4-Bromofluorobenzene	Lin1		0.7713		9.00	10.0	-10.0	35.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-293862/6

Matrix: Water Lab File ID: C12605.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/05/2020 12:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293862 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		50-134
460-00-4	4-Bromofluorobenzene	113		67-139
1868-53-7	Dibromofluoromethane	97		62-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-293862/3

Matrix: Water Lab File ID: C12602.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/05/2020 11:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293862 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.009537		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.008578		0.00100	0.000192
71-43-2	Benzene	0.009424		0.00100	0.000176
91-20-3	Naphthalene	0.008659		0.00200	0.000129
127-18-4	Tetrachloroethene	0.007735		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		50-134
460-00-4	4-Bromofluorobenzene	116		67-139
1868-53-7	Dibromofluoromethane	97		62-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 600-293862/4

Matrix: Water Lab File ID: C12603.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/05/2020 11:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293862 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.009527		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.008647		0.00100	0.000192
71-43-2	Benzene	0.009294		0.00100	0.000176
91-20-3	Naphthalene	0.009648		0.00200	0.000129
127-18-4	Tetrachloroethene	0.007648		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		50-134
460-00-4	4-Bromofluorobenzene	117		67-139
1868-53-7	Dibromofluoromethane	99		62-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Artesia-MW17C-04292020 MS Lab Sample ID: 600-204539-2 MS

Matrix: Water Lab File ID: C12517.D

Analysis Method: 8260B Date Collected: 04/29/2020 09:42

Sample wt/vol: 20(mL) Date Analyzed: 05/05/2020 18:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293862 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01034		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.009385		0.00100	0.000192
71-43-2	Benzene	0.01007		0.00100	0.000176
91-20-3	Naphthalene	0.009338		0.00200	0.000129
127-18-4	Tetrachloroethene	0.007351		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		50-134
460-00-4	4-Bromofluorobenzene	119		67-139
1868-53-7	Dibromofluoromethane	104		62-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Artesia-MW17C-04292020 MSD Lab Sample ID: 600-204539-2 MSD

Matrix: Water Lab File ID: C12518.D

Analysis Method: 8260B Date Collected: 04/29/2020 09:42

Sample wt/vol: 20(mL) Date Analyzed: 05/05/2020 18:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 293862 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01005		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.009163		0.00100	0.000192
71-43-2	Benzene	0.009703		0.00100	0.000176
91-20-3	Naphthalene	0.01081		0.00200	0.000129
127-18-4	Tetrachloroethene	0.007054		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		50-134
460-00-4	4-Bromofluorobenzene	118		67-139
1868-53-7	Dibromofluoromethane	104		62-130
2037-26-5	Toluene-d8 (Surr)	91		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 04/21/2020 17:07

Analysis Batch Number: 292951 End Date: 04/22/2020 04:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-292951/1		04/21/2020 17:07	1	C11200.D	DB-VRX 60 0.25(mm)
IC 600-292951/2		04/21/2020 17:33	1	C11201.D	DB-VRX 60 0.25(mm)
IC 600-292951/3		04/21/2020 17:58	1	C11202.D	DB-VRX 60 0.25(mm)
IC 600-292951/4		04/21/2020 18:24	1	C11203.D	DB-VRX 60 0.25(mm)
IC 600-292951/5		04/21/2020 18:50	1	C11204.D	DB-VRX 60 0.25(mm)
ICIS 600-292951/6		04/21/2020 19:16	1	C11205.D	DB-VRX 60 0.25(mm)
IC 600-292951/7		04/21/2020 19:42	1	C11206.D	DB-VRX 60 0.25(mm)
IC 600-292951/8		04/21/2020 20:08	1	C11207.D	DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 21:25	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 21:51	1		DB-VRX 60 0.25(mm)
ICV 600-292951/1012		04/21/2020 21:51	1	C11211-ICV.d	DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 22:42	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 23:08	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 23:33	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 23:59	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 00:25	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 00:50	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 01:16	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 01:41	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 02:07	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 02:33	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 02:58	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 03:24	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 03:49	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 04:15	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 04:40	1		DB-VRX 60 0.25(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 05/05/2020 10:13

Analysis Batch Number: 293862 End Date: 05/05/2020 22:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-293862/1		05/05/2020 10:13	1	C12600.D	DB-VRX 60 0.25(mm)
CCVIS 600-293862/2		05/05/2020 10:39	1	C12601.D	DB-VRX 60 0.25(mm)
LCS 600-293862/3		05/05/2020 11:23	1	C12602.D	DB-VRX 60 0.25(mm)
LCSD 600-293862/4		05/05/2020 11:49	1	C12603.D	DB-VRX 60 0.25(mm)
MB 600-293862/6		05/05/2020 12:42	1	C12605.D	DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 13:35	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 14:02	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 14:29	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 14:56	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 15:23	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 15:50	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 16:17	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 16:44	1		DB-VRX 60 0.25(mm)
600-204539-1		05/05/2020 17:11	1	C12515.D	DB-VRX 60 0.25(mm)
600-204539-2		05/05/2020 17:38	1	C12516.D	DB-VRX 60 0.25(mm)
600-204539-2 MS		05/05/2020 18:05	1	C12517.D	DB-VRX 60 0.25(mm)
600-204539-2 MSD		05/05/2020 18:32	1	C12518.D	DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 18:59	250		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 19:26	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 19:52	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 20:19	5		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 20:45	5		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 21:12	5		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 21:38	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/05/2020 22:04	1		DB-VRX 60 0.25(mm)

8260B

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Batch Number: 292951 Batch Start Date: 04/21/20 17:07 Batch Analyst: Vela, Kenneth L

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFB 00307	VOAIS50PPM 00276	VOALCSGASPT 00375	VOALCSPT2T 00085
BFB 600-292951/1		8260B		20 mL	20 mL	2 uL			
IC 600-292951/2		8260B		20 mL	20 mL		5 uL		
IC 600-292951/3		8260B		20 mL	20 mL		5 uL		
IC 600-292951/4		8260B		20 mL	20 mL		5 uL		
IC 600-292951/5		8260B		20 mL	20 mL		5 uL		
ICIS 600-292951/6		8260B		20 mL	20 mL		5 uL		
IC 600-292951/7		8260B		20 mL	20 mL		5 uL		
IC 600-292951/8		8260B		20 mL	20 mL		5 uL		
ICV 600-292951/1012		8260B		20 mL	20 mL		5 uL	4 uL	4 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOASS50PPM 00314	VOASTDGASPT 00375	VOASTDst 00134			
BFB 600-292951/1		8260B							
IC 600-292951/2		8260B			0.2 uL	0.2 uL			
IC 600-292951/3		8260B			0.4 uL	0.4 uL			
IC 600-292951/4		8260B			0.8 uL	0.8 uL			
IC 600-292951/5		8260B			2 uL	2 uL			
ICIS 600-292951/6		8260B			4 uL	4 uL			
IC 600-292951/7		8260B			8 uL	8 uL			
IC 600-292951/8		8260B			20 uL	20 uL			
ICV 600-292951/1012		8260B		5 uL					

Batch Notes	
pH Indicator ID	HC904495

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Batch Number: 293862 Batch Start Date: 05/05/20 10:13 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFB 00307	VOAIS50PPM 00276	VOALCSGASPT 00376
BFB 600-293862/1		8260B		20 mL	20 mL		2 uL		
CCVIS 600-293862/2		8260B		20 mL	20 mL			5 uL	
LCS 600-293862/3		8260B		20 mL	20 mL			5 uL	4 uL
LCSD 600-293862/4		8260B		20 mL	20 mL			5 uL	4 uL
MB 600-293862/6		8260B		20 mL	20 mL			5 uL	
600-204539-B-1	Artesia-TB02-042 92020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204539-C-2	Artesia-MW17C-04 292020	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-204539-C-2 MS	Artesia-MW17C-04 292020	8260B	T	20 mL	20 mL	2 SU		5 uL	4 uL
600-204539-B-2 MSD	Artesia-MW17C-04 292020	8260B	T	20 mL	20 mL	2 SU		5 uL	4 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00085	VOASS50PPM 00314	VOASTDGASPT 00376	VOASTDst 00134		
BFB 600-293862/1		8260B							
CCVIS 600-293862/2		8260B				4 uL	4 uL		
LCS 600-293862/3		8260B		4 uL	5 uL				
LCSD 600-293862/4		8260B		4 uL	5 uL				
MB 600-293862/6		8260B			5 uL				
600-204539-B-1	Artesia-TB02-042 92020	8260B	T		5 uL				
600-204539-C-2	Artesia-MW17C-04 292020	8260B	T		5 uL				
600-204539-C-2 MS	Artesia-MW17C-04 292020	8260B	T	4 uL	5 uL				
600-204539-B-2 MSD	Artesia-MW17C-04 292020	8260B	T	4 uL	5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Batch Number: 293862 Batch Start Date: 05/05/20 10:13 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Batch Notes	
pH Indicator ID	HC904495

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 300.0

Anions (IC) by Method 300.0

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 600-0035349-005.d

Lab ID: LCS 600-294680/5 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Sulfate	20.0	18.00	90	90-110	

Column to be used to flag recovery and RPD values

FORM III 300.0

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 600-0035349-033.d

Lab ID: 600-204539-2 MS Client ID: Artesia-MW17C-04292020 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Sulfate	2000	3280	3558	14	80-120	F1

Column to be used to flag recovery and RPD values

FORM III 300.0

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 600-0035349-034.d

Lab ID: 600-204539-2 MSD Client ID: Artesia-MW17C-04292020 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Sulfate	2000	3968	35	11	20	80-120	F1

Column to be used to flag recovery and RPD values

FORM III 300.0

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab File ID: 600-0035349-004.d Lab Sample ID: MB 600-294680/4

Matrix: Water Date Extracted:

Instrument ID: CHWC11 Date Analyzed: 05/18/2020 17:20

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	CCB 600-294680/3	600-0035349-003.d	05/18/2020 16:59
	LCS 600-294680/5	600-0035349-005.d	05/18/2020 17:40
	CCB 600-294680/15	600-0035349-015.d	05/18/2020 21:04
	CCB 600-294680/27	600-0035349-027.d	05/19/2020 01:09
Artesia-MW17C-04292020	600-204539-2	600-0035349-032.d	05/19/2020 02:51
Artesia-MW17C-04292020 MS	600-204539-2 MS	600-0035349-033.d	05/19/2020 03:12
Artesia-MW17C-04292020 MSD	600-204539-2 MSD	600-0035349-034.d	05/19/2020 03:32
	CCB 600-294680/36	600-0035349-036.d	05/19/2020 04:13

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Artesia-MW17C-04292020 Lab Sample ID: 600-204539-2

Matrix: Water Lab File ID: 600-0035349-032.d

Analysis Method: 300.0 Date Collected: 04/29/2020 09:42

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/19/2020 02:51

Con. Extract Vol.: Dilution Factor: 200

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	3280	F1	100	19.1

FORM I 300.0

FORM VI

HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA

RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292894

SDG No.:

Instrument ID: CHWC11 GC Column: AS-18 ID: Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:18 Calibration End Date: 04/21/2020 19:41 Calibration ID: 18005

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-292894/3	600-0034937-003.d
Level 2	IC 600-292894/4	600-0034937-004.d
Level 3	IC 600-292894/5	600-0034937-005.d
Level 4	IC 600-292894/6	600-0034937-006.d
Level 5	IC 600-292894/7	600-0034937-007.d
Level 6	IC 600-292894/8	600-0034937-008.d
Level 7	IC 600-292894/9	600-0034937-009.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Fluoride	3.367	3.326	3.284	3.325	3.292	3.375	3.375				3.075 - 3.575	3.335
Chloride	5.342	5.234	5.301	5.267	5.301	5.384	5.350				5.017 - 5.517	5.311
Bromide	9.984	9.509	9.734	9.517	9.526	9.567	9.642				9.267 - 9.767	9.640
Sulfate	10.392	10.109	10.284	10.075	10.126	10.000	9.984				9.825 - 10.325	10.139

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292894

SDG No.:

Instrument ID: CHWC11 GC Column: AS-18 ID: Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:18 Calibration End Date: 04/21/2020 19:41 Calibration ID: 18005

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-292894/3	600-0034937-003.d
Level 2	IC 600-292894/4	600-0034937-004.d
Level 3	IC 600-292894/5	600-0034937-005.d
Level 4	IC 600-292894/6	600-0034937-006.d
Level 5	IC 600-292894/7	600-0034937-007.d
Level 6	IC 600-292894/8	600-0034937-008.d
Level 7	IC 600-292894/9	600-0034937-009.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Fluoride	7971795 11154372	7932026 11074887	8941815 12268058	10543846	Lin1	-1343902.6	11698904.1							0.9960		0.9900
Chloride	6842918 6872310	4974363 6785878	5370718 7439883	6448454	Lin1	-1231061.3	7160059.53							0.9960		0.9900
Bromide	2980100 2539310	2175684 2360657	2024110 2544650	2293163	Lin1	-31087.579	2456484.20							0.9960		0.9900
Sulfate	2968640 4419989	2477580 4299287	2569563 4699628	3784981	Lin1	-1510465.4	4546850.69							0.9940		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1 Analy Batch No.: 292894

SDG No.:

Instrument ID: CHWC11 GC Column: AS-18 ID: Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:18 Calibration End Date: 04/21/2020 19:41 Calibration ID: 18005

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-292894/3	600-0034937-003.d
Level 2	IC 600-292894/4	600-0034937-004.d
Level 3	IC 600-292894/5	600-0034937-005.d
Level 4	IC 600-292894/6	600-0034937-006.d
Level 5	IC 600-292894/7	600-0034937-007.d
Level 6	IC 600-292894/8	600-0034937-008.d
Level 7	IC 600-292894/9	600-0034937-009.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Fluoride	Lin1	1594359 83061649	3966013 122680580	8941815	21087692	55771862	0.200 7.50	0.500 10.0	1.00	2.00	5.00
Chloride	Lin1	2737167 135717569	4974363 297595337	10741435	32242271	68723096	0.400 20.0	1.00 40.0	2.00	5.00	10.0
Bromide	Lin1	596020 17704929	1087842 25446497	2024110	4586326	12696549	0.200 7.50	0.500 10.0	1.00	2.00	5.00
Sulfate	Lin1	1187456 85985743	2477580 187985133	5139125	18924907	44199892	0.400 20.0	1.00 40.0	2.00	5.00	10.0

Curve Type Legend:
Lin1 = Linear 1/conc

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab Sample ID: CCV 600-294680/2 Calibration Date: 05/18/2020 15:59

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-002.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		10529503		6.87	7.50	-8.5	10.0
Chloride	Lin1		6605848		18.6	20.0	-6.9	10.0
Bromide	Lin1		2581221		7.89	7.50	5.2	10.0
Sulfate	Lin1		4399353		19.7	20.0	-1.6	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab Sample ID: CCV 600-294680/2 Calibration Date: 05/18/2020 15:59

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-002.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.06	3.08	3.58
Chloride	4.95	5.02	5.52
Bromide	9.33	9.27	9.77
Sulfate	10.18	9.83	10.33

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab Sample ID: CCV 600-294680/14 Calibration Date: 05/18/2020 20:44

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-014.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		10454088		6.82	7.50	-9.1	10.0
Chloride	Lin1		6653234		18.8	20.0	-6.2	10.0
Bromide	Lin1		2459730		7.52	7.50	0.3	10.0
Sulfate	Lin1		4138035		18.5	20.0	-7.3	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab Sample ID: CCV 600-294680/14 Calibration Date: 05/18/2020 20:44

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-014.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.13	3.08	3.58
Chloride	4.99	5.02	5.52
Bromide	9.21	9.27	9.77
Sulfate	10.06	9.83	10.33

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab Sample ID: CCV 600-294680/26 Calibration Date: 05/19/2020 00:49

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-026.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		10829526		7.06	7.50	-5.9	10.0
Chloride	Lin1		7146995		20.1	20.0	0.7	10.0
Bromide	Lin1		2625616		8.03	7.50	7.1	10.0
Sulfate	Lin1		4152950		18.6	20.0	-7.0	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab Sample ID: CCV 600-294680/26 Calibration Date: 05/19/2020 00:49

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-026.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.17	3.08	3.58
Chloride	5.08	5.02	5.52
Bromide	9.28	9.27	9.77
Sulfate	10.04	9.83	10.33

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab Sample ID: CCV 600-294680/35 Calibration Date: 05/19/2020 03:52

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-035.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		10428947		6.80	7.50	-9.3	10.0
Chloride	Lin1		7086999		20.0	20.0	-0.2	10.0
Bromide	Lin1		1981812		6.06	7.50	-19.2*	10.0
Sulfate	Lin1		4071023		18.2	20.0	-8.8	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Lab Sample ID: CCV 600-294680/35 Calibration Date: 05/19/2020 03:52

Instrument ID: CHWC11 Calib Start Date: 04/21/2020 17:18

GC Column: AS-18 ID: Calib End Date: 04/21/2020 19:41

Lab File ID: 600-0035349-035.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.02	3.08	3.58
Chloride	4.91	5.02	5.52
Bromide	9.03	9.27	9.77
Sulfate	10.18	9.83	10.33

Form VII 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-294680/4

Matrix: Water Lab File ID: 600-0035349-004.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/18/2020 17:20

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-294680/3

Matrix: Water Lab File ID: 600-0035349-003.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/18/2020 16:59

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-294680/15

Matrix: Water Lab File ID: 600-0035349-015.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/18/2020 21:04

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-294680/27

Matrix: Water Lab File ID: 600-0035349-027.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/19/2020 01:09

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-294680/36

Matrix: Water Lab File ID: 600-0035349-036.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/19/2020 04:13

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-294680/5

Matrix: Water Lab File ID: 600-0035349-005.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/18/2020 17:40

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	18.00		0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Artesia-MW17C-04292020 MS Lab Sample ID: 600-204539-2 MS

Matrix: Water Lab File ID: 600-0035349-033.d

Analysis Method: 300.0 Date Collected: 04/29/2020 09:42

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/19/2020 03:12

Con. Extract Vol.: Dilution Factor: 200

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	3558		100	19.1

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Client Sample ID: Artesia-MW17C-04292020 MSD Lab Sample ID: 600-204539-2 MSD

Matrix: Water Lab File ID: 600-0035349-034.d

Analysis Method: 300.0 Date Collected: 04/29/2020 09:42

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 05/19/2020 03:32

Con. Extract Vol.: Dilution Factor: 200

Injection Volume: 1(uL) GC Column: AS-18 ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 294680 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	3968		100	19.1

FORM I 300.0

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Instrument ID: CHWC11 Start Date: 04/21/2020 17:18

Analysis Batch Number: 292894 End Date: 04/21/2020 19:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 600-292894/2		04/21/2020 17:18	1		AS-18
IC 600-292894/3		04/21/2020 17:39	1	600-0034937-003.d	AS-18
IC 600-292894/4		04/21/2020 17:59	1	600-0034937-004.d	AS-18
IC 600-292894/5		04/21/2020 18:20	1	600-0034937-005.d	AS-18
IC 600-292894/6		04/21/2020 18:40	1	600-0034937-006.d	AS-18
IC 600-292894/7		04/21/2020 19:01	1	600-0034937-007.d	AS-18
IC 600-292894/8		04/21/2020 19:21	1	600-0034937-008.d	AS-18
IC 600-292894/9		04/21/2020 19:41	1	600-0034937-009.d	AS-18

300.0

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Instrument ID: CHWC11 Start Date: 05/18/2020 15:59

Analysis Batch Number: 294680 End Date: 05/19/2020 04:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 600-294680/2		05/18/2020 15:59	1	600-0035349-002.d	AS-18
CCB 600-294680/3		05/18/2020 16:59	1	600-0035349-003.d	AS-18
MB 600-294680/4		05/18/2020 17:20	1	600-0035349-004.d	AS-18
LCS 600-294680/5		05/18/2020 17:40	1	600-0035349-005.d	AS-18
ZZZZZ		05/18/2020 18:00	5		AS-18
ZZZZZ		05/18/2020 18:21	5		AS-18
ZZZZZ		05/18/2020 18:41	5		AS-18
ZZZZZ		05/18/2020 19:02	200		AS-18
ZZZZZ		05/18/2020 19:22	200		AS-18
ZZZZZ		05/18/2020 19:43	200		AS-18
ZZZZZ		05/18/2020 20:03	200		AS-18
ZZZZZ		05/18/2020 20:23	200		AS-18
CCV 600-294680/14		05/18/2020 20:44	1	600-0035349-014.d	AS-18
CCB 600-294680/15		05/18/2020 21:04	1	600-0035349-015.d	AS-18
ZZZZZ		05/18/2020 21:25	5		AS-18
ZZZZZ		05/18/2020 21:45	10		AS-18
ZZZZZ		05/18/2020 22:05	10		AS-18
ZZZZZ		05/18/2020 22:26	10		AS-18
ZZZZZ		05/18/2020 22:46	10		AS-18
ZZZZZ		05/18/2020 23:07	10		AS-18
ZZZZZ		05/18/2020 23:27	10		AS-18
ZZZZZ		05/18/2020 23:47	10		AS-18
ZZZZZ		05/19/2020 00:08	5		AS-18
ZZZZZ		05/19/2020 00:28	10		AS-18
CCV 600-294680/26		05/19/2020 00:49	1	600-0035349-026.d	AS-18
CCB 600-294680/27		05/19/2020 01:09	1	600-0035349-027.d	AS-18
ZZZZZ		05/19/2020 01:30	200		AS-18
ZZZZZ		05/19/2020 01:50	5		AS-18
ZZZZZ		05/19/2020 02:10	1000		AS-18
ZZZZZ		05/19/2020 02:31	1000		AS-18
600-204539-2		05/19/2020 02:51	200	600-0035349-032.d	AS-18
600-204539-2 MS		05/19/2020 03:12	200	600-0035349-033.d	AS-18
600-204539-2 MSD		05/19/2020 03:32	200	600-0035349-034.d	AS-18
CCV 600-294680/35		05/19/2020 03:52	1	600-0035349-035.d	AS-18
CCB 600-294680/36		05/19/2020 04:13	1	600-0035349-036.d	AS-18

300.0

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-204539-1

SDG No.:

Batch Number: 294680 Batch Start Date: 05/18/20 15:59 Batch Analyst: Nampitak, Wanida 1

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	CCV 00124	ICSMS 00126	ICSMS 00127	ICV/LCS 00110	
CCV 600-294680/2		300.0		5 mL				5 mL	
CCB 600-294680/3		300.0		5 mL					
MB 600-294680/4		300.0		5 mL					
LCS 600-294680/5		300.0		5 mL				5 mL	
CCV 600-294680/14		300.0		5 mL	5 mL				
CCB 600-294680/15		300.0		5 mL					
CCV 600-294680/26		300.0		5 mL	5 mL				
CCB 600-294680/27		300.0		5 mL					
600-204539-A-2	Artesia-MW17C-04 292020	300.0	T	5 mL					
600-204539-A-2 MS	Artesia-MW17C-04 292020	300.0	T	5 mL		0.25 mL	0.25 mL		
600-204539-A-2 MSD	Artesia-MW17C-04 292020	300.0	T	5 mL		0.25 mL	0.25 mL		
CCV 600-294680/35		300.0		5 mL	5 mL				
CCB 600-294680/36		300.0		5 mL					

Batch Notes	
Eluent 1 ID	200150959018
Filter ID	16988990

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Released to Imaging: 6/9/2021 9:44:58 AM

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: A Forsberg	Lab PM: McDaniel, Bethany A	Carrier Tracking No(s): FedEx 1084 2642 7832	COC No: 600-76591-20100.3
Client Contact: John Ynfante	Phone: 505 918 1800	E-Mail: bethany.mcdaniel@testamericainc.com		Page: Page 3 of 4
Company: Jacobs Engineering Group, Inc.				Job #:
Address: 14701 St. Mary's Lane Suite 300	Due Date Requested:			
City: Houston	TAT Requested (days): Std			
State, Zip: TX, 77079				
Phone:	PO #: D3151100 B.CS.TPE.AR.19-05-02			
Email: John.Ynfante@jacobs.com	WO #: D3151100 C.CS.TPE.20-05-02			
Project Name: Dowell - Artesia Groundwater	Project #: 60004334			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL - 8260B - Volatiles Custom List	300_ORGFM_28D - 300.0 - Anions, IC (Sulfate)	8260B_LL - Volatile Organic Compound Custom List(5)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A		
Artesia-TB02-04292020	4/29/20	0845	G	Water	N	N			X	2	
Artesia-MW17C-04292020	1	0942	G	Water	N	Y		X	X	11	MS/MSD
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

600-204539 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/29/20 1600	Jacobs		4/30/20 1037	ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Loc: 600
204539

eurofins | Environment Testing TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

'20 APR 30 10:37

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Jacobs

UNPACKED BY: YP CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
7832	~~Y~~ / N	~~Y~~ / N	1.7	678	-0.1	1.6
	Y / N	Y / N				
	~~Y~~ / N	~~Y~~ / N				
	Y / N	Y / N				4/30/20
	Y / N	~~Y~~ / N				
	Y / ~~N~~	~~Y~~ / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☑YES ☐NO ☐NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

4/30/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: Jacobs Engineering Group, Inc. Job Number: 600-204539-1

Login Number: 204539 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Released to Imaging: 6/9/2021 9:44:58 AM

eurofins | Environment Testing America

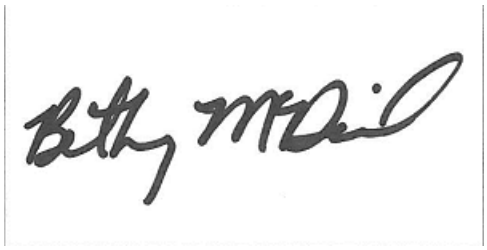
ANALYTICAL REPORT

Job Number: 600-208199-1

Job Description: Dowell - Artesia

For:
Jacobs Engineering Group, Inc.
3721 Rutledge Rd NE
Suite B-1
Albuquerque, NM 87109

Attention: Aleeca Forsberg



Approved for release.
Bethany A McDaniel
Senior Project Manager
7/22/2020 9:07 PM

Bethany A McDaniel, Senior Project Manager
6310 Rothway Street, Houston, TX, 77040
(713)358-2005
Bethany.McDaniel@Eurofinset.com
07/22/2020

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins TestAmerica, Houston
6310 Rothway Street, Houston, TX 77040
Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com

Table of Contents

Cover Title Page 1
Data Summaries 4
Definitions 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Default Detection Limits 11
Surrogate Summary 12
QC Sample Results 13
QC Association 16
Chronicle 17
Certification Summary 19
Method Summary 20
Sample Summary 21
Manual Integration Summary 22
Reagent Traceability 30
Organic Sample Data 38
GC/MS VOA 38
Method 8260B Low Level 38
Method 8260B Low Level QC Summary 39
Method 8260B Low Level Sample Data 52
Standards Data 65
Method 8260B Low Level ICAL Data 65
Method 8260B Low Level CCAL Data 77
Raw QC Data 86
Method 8260B Low Level Blank Data 86

Table of Contents

Method 8260B Low Level LCS/LCSD Data 88
Method 8260B Low Level Run Logs 92
Method 8260B Low Level Prep Data 95
HPLC/IC 100
Method 300.0 100
Method 300.0 QC Summary 101
Method 300.0 Sample Data 103
Standards Data 109
Method 300.0 ICAL Data 109
Method 300.0 CCAL Data 112
Raw QC Data 118
Method 300.0 Blank Data 118
Method 300.0 LCS/LCSD Data 122
Method 300.0 Run Logs 123
Method 300.0 Prep Data 126
Shipping and Receiving Documents 127
Client Chain of Custody 128
Sample Receipt Checklist 130

Definitions/Glossary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Job Narrative
600-208199-1

Comments
No additional comments.

Receipt
The samples were received on 7/15/2020 10:17 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

GC/MS VOA
Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: Artesia-MW37-071420 (600-208199-4) and Artesia-MW38-071420 (600-208199-6). Elevated reporting limits (RLs) are provided.

Method 8260B: The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 600-299066: Naphthalene (43.4%). These compounds are not classified as Calibration Check Compounds (CCCs) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. The D% of the compound was outside 35% QC limits but within 50% in house limits. Therefore; the data is valid and reportable.

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 600-299066 recovered outside control limits for the following analytes: Naphthalene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

Client Sample ID: Artesia-TB01-071420 — Lab Sample ID: 600-208199-1

No Detections.

Client Sample ID: Artesia-MW36-071420 — Lab Sample ID: 600-208199-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.0458		0.00100	0.000168	mg/L	1		8260B	Total/NA
Benzene	0.0219		0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.0146		0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00969		0.00100	0.000333	mg/L	1		8260B	Total/NA
Sulfate	862		125	23.9	mg/L	250		300.0	Total/NA

Client Sample ID: Artesia-MW17C-071420 — Lab Sample ID: 600-208199-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	772		100	19.1	mg/L	200		300.0	Total/NA

Client Sample ID: Artesia-MW37-071420 — Lab Sample ID: 600-208199-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00761		0.00100	0.000192	mg/L	1		8260B	Total/NA
Benzene	0.0296		0.00100	0.000176	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00413		0.00100	0.000333	mg/L	1		8260B	Total/NA
1,1-Dichloroethane - DL	0.0794		0.0100	0.00168	mg/L	10		8260B	Total/NA
Naphthalene - DL	0.0878		0.0200	0.00129	mg/L	10		8260B	Total/NA
Sulfate	638		125	23.9	mg/L	250		300.0	Total/NA

Client Sample ID: Artesia-MW12-071420 — Lab Sample ID: 600-208199-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.0470		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.00164		0.00100	0.000192	mg/L	1		8260B	Total/NA
Benzene	0.00328		0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.00668		0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.000816	J	0.00100	0.000333	mg/L	1		8260B	Total/NA
Sulfate	1680		125	23.9	mg/L	250		300.0	Total/NA

Client Sample ID: Artesia-MW38-071420 — Lab Sample ID: 600-208199-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00581		0.00100	0.000192	mg/L	1		8260B	Total/NA
Benzene	0.000885	J	0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.00737		0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00667		0.00100	0.000333	mg/L	1		8260B	Total/NA
1,1-Dichloroethane - DL	0.100		0.0100	0.00168	mg/L	10		8260B	Total/NA
Sulfate	1760		125	23.9	mg/L	250		300.0	Total/NA

Client Sample ID: Artesia-MW11-071420 — Lab Sample ID: 600-208199-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00487		0.00100	0.000168	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.000391	J	0.00100	0.000333	mg/L	1		8260B	Total/NA
Sulfate	1380		125	23.9	mg/L	250		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

Client Sample ID: Artesia-TB01-071420
Lab Sample ID: 600-208199-1
Date Collected: 07/14/20 10:30
Matrix: Water
Date Received: 07/15/20 10:17

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			07/17/20 13:25	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			07/17/20 13:25	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			07/17/20 13:25	1
Naphthalene	0.000129	U *	0.00200	0.000129	mg/L			07/17/20 13:25	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			07/17/20 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*50 - 134*		*07/17/20 13:25*	*1*
4-Bromofluorobenzene	*98*		*67 - 139*		*07/17/20 13:25*	*1*
Dibromofluoromethane	*109*		*62 - 130*		*07/17/20 13:25*	*1*
Toluene-d8 (Surr)	*82*		*70 - 130*		*07/17/20 13:25*	*1*

Client Sample ID: Artesia-MW36-071420
Lab Sample ID: 600-208199-2
Date Collected: 07/14/20 12:05
Matrix: Water
Date Received: 07/15/20 10:17

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.0458**		0.00100	0.000168	mg/L			07/17/20 17:10	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			07/17/20 17:10	1
Benzene	**0.0219**		0.00100	0.000176	mg/L			07/17/20 17:10	1
Naphthalene	**0.0146**		0.00200	0.000129	mg/L			07/20/20 18:19	1
Tetrachloroethene	**0.00969**		0.00100	0.000333	mg/L			07/17/20 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*50 - 134*		*07/17/20 17:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*50 - 134*		*07/20/20 18:19*	*1*
4-Bromofluorobenzene	*90*		*67 - 139*		*07/17/20 17:10*	*1*
4-Bromofluorobenzene	*91*		*67 - 139*		*07/20/20 18:19*	*1*
Dibromofluoromethane	*107*		*62 - 130*		*07/17/20 17:10*	*1*
Dibromofluoromethane	*107*		*62 - 130*		*07/20/20 18:19*	*1*
Toluene-d8 (Surr)	*80*		*70 - 130*		*07/17/20 17:10*	*1*
Toluene-d8 (Surr)	*78*		*70 - 130*		*07/20/20 18:19*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**862**		125	23.9	mg/L			07/21/20 14:36	250

Client Sample ID: Artesia-MW17C-071420
Lab Sample ID: 600-208199-3
Date Collected: 07/14/20 11:45
Matrix: Water
Date Received: 07/15/20 10:17

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			07/17/20 14:50	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			07/17/20 14:50	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			07/17/20 14:50	1
Naphthalene	0.000129	U *	0.00200	0.000129	mg/L			07/17/20 14:50	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			07/17/20 14:50	1

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

Client Sample ID: Artesia-MW17C-071420
Lab Sample ID: 600-208199-3
Date Collected: 07/14/20 11:45
Matrix: Water
Date Received: 07/15/20 10:17

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		50 - 134		07/17/20 14:50	1
4-Bromofluorobenzene	96		67 - 139		07/17/20 14:50	1
Dibromofluoromethane	100		62 - 130		07/17/20 14:50	1
Toluene-d8 (Surr)	81		70 - 130		07/17/20 14:50	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	772		100	19.1	mg/L			07/21/20 14:47	200

Client Sample ID: Artesia-MW37-071420
Lab Sample ID: 600-208199-4
Date Collected: 07/14/20 13:05
Matrix: Water
Date Received: 07/15/20 10:17

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00761		0.00100	0.000192	mg/L			07/17/20 15:18	1
Benzene	0.0296		0.00100	0.000176	mg/L			07/17/20 15:18	1
Tetrachloroethene	0.00413		0.00100	0.000333	mg/L			07/17/20 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		50 - 134		07/17/20 15:18	1
4-Bromofluorobenzene	89		67 - 139		07/17/20 15:18	1
Dibromofluoromethane	109		62 - 130		07/17/20 15:18	1
Toluene-d8 (Surr)	79		70 - 130		07/17/20 15:18	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.0794		0.0100	0.00168	mg/L			07/20/20 19:40	10
Naphthalene	0.0878		0.0200	0.00129	mg/L			07/20/20 19:40	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		50 - 134		07/20/20 19:40	10
4-Bromofluorobenzene	97		67 - 139		07/20/20 19:40	10
Dibromofluoromethane	103		62 - 130		07/20/20 19:40	10
Toluene-d8 (Surr)	81		70 - 130		07/20/20 19:40	10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	638		125	23.9	mg/L			07/21/20 14:58	250

Client Sample ID: Artesia-MW12-071420
Lab Sample ID: 600-208199-5
Date Collected: 07/14/20 12:47
Matrix: Water
Date Received: 07/15/20 10:17

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.0470		0.00100	0.000168	mg/L			07/17/20 15:46	1
1,1-Dichloroethene	0.00164		0.00100	0.000192	mg/L			07/17/20 15:46	1
Benzene	0.00328		0.00100	0.000176	mg/L			07/17/20 15:46	1
Naphthalene	0.00668		0.00200	0.000129	mg/L			07/20/20 17:52	1
Tetrachloroethene	0.000816	J	0.00100	0.000333	mg/L			07/17/20 15:46	1

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Job ID: 600-208199-1
Project/Site: Dowell - Artesia

Client Sample ID: Artesia-MW12-071420
Lab Sample ID: 600-208199-5
Date Collected: 07/14/20 12:47
Matrix: Water
Date Received: 07/15/20 10:17

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		50 - 134		07/17/20 15:46	1
1,2-Dichloroethane-d4 (Surr)	118		50 - 134		07/20/20 17:52	1
4-Bromofluorobenzene	93		67 - 139		07/17/20 15:46	1
4-Bromofluorobenzene	96		67 - 139		07/20/20 17:52	1
Dibromofluoromethane	100		62 - 130		07/17/20 15:46	1
Dibromofluoromethane	111		62 - 130		07/20/20 17:52	1
Toluene-d8 (Surr)	83		70 - 130		07/17/20 15:46	1
Toluene-d8 (Surr)	78		70 - 130		07/20/20 17:52	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1680		125	23.9	mg/L			07/21/20 15:30	250

Client Sample ID: Artesia-MW38-071420
Lab Sample ID: 600-208199-6
Date Collected: 07/14/20 13:47
Matrix: Water
Date Received: 07/15/20 10:17

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00581		0.00100	0.000192	mg/L			07/17/20 16:14	1
Benzene	0.000885	J	0.00100	0.000176	mg/L			07/17/20 16:14	1
Naphthalene	0.00737		0.00200	0.000129	mg/L			07/20/20 18:46	1
Tetrachloroethene	0.00667		0.00100	0.000333	mg/L			07/17/20 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		50 - 134		07/17/20 16:14	1
1,2-Dichloroethane-d4 (Surr)	102		50 - 134		07/20/20 18:46	1
4-Bromofluorobenzene	94		67 - 139		07/17/20 16:14	1
4-Bromofluorobenzene	94		67 - 139		07/20/20 18:46	1
Dibromofluoromethane	107		62 - 130		07/17/20 16:14	1
Dibromofluoromethane	107		62 - 130		07/20/20 18:46	1
Toluene-d8 (Surr)	85		70 - 130		07/17/20 16:14	1
Toluene-d8 (Surr)	82		70 - 130		07/20/20 18:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.100		0.0100	0.00168	mg/L			07/20/20 19:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		50 - 134		07/20/20 19:13	10
4-Bromofluorobenzene	96		67 - 139		07/20/20 19:13	10
Dibromofluoromethane	105		62 - 130		07/20/20 19:13	10
Toluene-d8 (Surr)	81		70 - 130		07/20/20 19:13	10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1760		125	23.9	mg/L			07/21/20 15:41	250

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

Client Sample ID: Artesia-MW11-071420

Lab Sample ID: 600-208199-7

Date Collected: 07/14/20 13:54

Matrix: Water

Date Received: 07/15/20 10:17

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00487**		0.00100	0.000168	mg/L			07/17/20 16:42	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			07/17/20 16:42	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			07/17/20 16:42	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			07/20/20 17:25	1
Tetrachloroethene	**0.000391**	**J**	0.00100	0.000333	mg/L			07/17/20 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*50 - 134*		*07/17/20 16:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*50 - 134*		*07/20/20 17:25*	*1*
4-Bromofluorobenzene	*96*		*67 - 139*		*07/17/20 16:42*	*1*
4-Bromofluorobenzene	*90*		*67 - 139*		*07/20/20 17:25*	*1*
Dibromofluoromethane	*96*		*62 - 130*		*07/17/20 16:42*	*1*
Dibromofluoromethane	*111*		*62 - 130*		*07/20/20 17:25*	*1*
Toluene-d8 (Surr)	*83*		*70 - 130*		*07/17/20 16:42*	*1*
Toluene-d8 (Surr)	*77*		*70 - 130*		*07/20/20 17:25*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1380**		125	23.9	mg/L			07/21/20 15:52	250

Default Detection Limits

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units
1,1-Dichloroethane	0.00100	0.000168	mg/L
1,1-Dichloroethene	0.00100	0.000192	mg/L
Benzene	0.00100	0.000176	mg/L
Naphthalene	0.00200	0.000129	mg/L
Tetrachloroethene	0.00100	0.000333	mg/L

Method: 300.0 - Anions, Ion Chromatography

Analyte	RL	MDL	Units
Sulfate	0.500	0.0957	mg/L

Surrogate Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(50-134)	(67-139)	(62-130)	(70-130)
600-208199-1	Artesia-TB01-071420	115	98	109	82
600-208199-2	Artesia-MW36-071420	102	90	107	80
600-208199-2	Artesia-MW36-071420	103	91	107	78
600-208199-3	Artesia-MW17C-071420	99	96	100	81
600-208199-4	Artesia-MW37-071420	117	89	109	79
600-208199-4 - DL	Artesia-MW37-071420	98	97	103	81
600-208199-5	Artesia-MW12-071420	102	93	100	83
600-208199-5	Artesia-MW12-071420	118	96	111	78
600-208199-6	Artesia-MW38-071420	104	94	107	85
600-208199-6	Artesia-MW38-071420	102	94	107	82
600-208199-6 - DL	Artesia-MW38-071420	100	96	105	81
600-208199-7	Artesia-MW11-071420	94	96	96	83
600-208199-7	Artesia-MW11-071420	117	90	111	77
LCS 600-299066/3	Lab Control Sample	96	99	100	78
LCS 600-299088/3	Lab Control Sample	85	100	98	82
LCSD 600-299066/4	Lab Control Sample Dup	97	101	102	80
LCSD 600-299088/4	Lab Control Sample Dup	95	101	106	81
MB 600-299066/6	Method Blank	105	96	101	82
MB 600-299088/6	Method Blank	103	96	104	83

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-299066/6
Matrix: Water
Analysis Batch: 299066

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			07/17/20 12:57	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			07/17/20 12:57	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			07/17/20 12:57	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			07/17/20 12:57	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			07/17/20 12:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*50 - 134*		*07/17/20 12:57*	*1*
4-Bromofluorobenzene	*96*		*67 - 139*		*07/17/20 12:57*	*1*
Dibromofluoromethane	*101*		*62 - 130*		*07/17/20 12:57*	*1*
Toluene-d8 (Surr)	*82*		*70 - 130*		*07/17/20 12:57*	*1*

Lab Sample ID: LCS 600-299066/3
Matrix: Water
Analysis Batch: 299066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethane			0.0100	0.009609		mg/L		96	70 - 140		
1,1-Dichloroethene			0.0100	0.009557		mg/L		96	58 - 148		
Benzene			0.0100	0.009844		mg/L		98	70 - 130		
Naphthalene			0.0100	0.01587	*	mg/L		159	10 - 150		
Tetrachloroethene			0.0100	0.008582		mg/L		86	47 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*50 - 134*
4-Bromofluorobenzene	*99*		*67 - 139*
Dibromofluoromethane	*100*		*62 - 130*
Toluene-d8 (Surr)	*78*		*70 - 130*

Lab Sample ID: LCSD 600-299066/4
Matrix: Water
Analysis Batch: 299066

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0100	0.01026		mg/L		103	70 - 140	7	20
1,1-Dichloroethene			0.0100	0.01023		mg/L		102	58 - 148	7	20
Benzene			0.0100	0.01081		mg/L		108	70 - 130	9	20
Naphthalene			0.0100	0.01672	*	mg/L		167	10 - 150	5	20
Tetrachloroethene			0.0100	0.009177		mg/L		92	47 - 150	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*50 - 134*
4-Bromofluorobenzene	*101*		*67 - 139*
Dibromofluoromethane	*102*		*62 - 130*
Toluene-d8 (Surr)	*80*		*70 - 130*

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-299088/6
Matrix: Water
Analysis Batch: 299088

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			07/20/20 13:13	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			07/20/20 13:13	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			07/20/20 13:13	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			07/20/20 13:13	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			07/20/20 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*50 - 134*		*07/20/20 13:13*	*1*
4-Bromofluorobenzene	*96*		*67 - 139*		*07/20/20 13:13*	*1*
Dibromofluoromethane	*104*		*62 - 130*		*07/20/20 13:13*	*1*
Toluene-d8 (Surr)	*83*		*70 - 130*		*07/20/20 13:13*	*1*

Lab Sample ID: LCS 600-299088/3
Matrix: Water
Analysis Batch: 299088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethane			0.0100	0.009333		mg/L		93	70 - 140		
1,1-Dichloroethene			0.0100	0.009306		mg/L		93	58 - 148		
Benzene			0.0100	0.009786		mg/L		98	70 - 130		
Naphthalene			0.0100	0.01102		mg/L		110	10 - 150		
Tetrachloroethene			0.0100	0.008989		mg/L		90	47 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*50 - 134*
4-Bromofluorobenzene	*100*		*67 - 139*
Dibromofluoromethane	*98*		*62 - 130*
Toluene-d8 (Surr)	*82*		*70 - 130*

Lab Sample ID: LCSD 600-299088/4
Matrix: Water
Analysis Batch: 299088

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0100	0.01087		mg/L		109	70 - 140	15	20
1,1-Dichloroethene			0.0100	0.01073		mg/L		107	58 - 148	14	20
Benzene			0.0100	0.01138		mg/L		114	70 - 130	15	20
Naphthalene			0.0100	0.01329		mg/L		133	10 - 150	19	20
Tetrachloroethene			0.0100	0.009598		mg/L		96	47 - 150	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*50 - 134*
4-Bromofluorobenzene	*101*		*67 - 139*
Dibromofluoromethane	*106*		*62 - 130*
Toluene-d8 (Surr)	*81*		*70 - 130*

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-299303/6
Matrix: Water
Analysis Batch: 299303

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.0957	U	0.500	0.0957	mg/L			07/21/20 11:49	1

Lab Sample ID: LCS 600-299303/7
Matrix: Water
Analysis Batch: 299303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	21.57		mg/L		108	90 - 110

QC Association Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

GC/MS VOA

Analysis Batch: 299066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-208199-1	Artesia-TB01-071420	Total/NA	Water	8260B	
600-208199-2	Artesia-MW36-071420	Total/NA	Water	8260B	
600-208199-3	Artesia-MW17C-071420	Total/NA	Water	8260B	
600-208199-4	Artesia-MW37-071420	Total/NA	Water	8260B	
600-208199-5	Artesia-MW12-071420	Total/NA	Water	8260B	
600-208199-6	Artesia-MW38-071420	Total/NA	Water	8260B	
600-208199-7	Artesia-MW11-071420	Total/NA	Water	8260B	
MB 600-299066/6	Method Blank	Total/NA	Water	8260B	
LCS 600-299066/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-299066/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 299088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-208199-2	Artesia-MW36-071420	Total/NA	Water	8260B	
600-208199-4 - DL	Artesia-MW37-071420	Total/NA	Water	8260B	
600-208199-5	Artesia-MW12-071420	Total/NA	Water	8260B	
600-208199-6	Artesia-MW38-071420	Total/NA	Water	8260B	
600-208199-6 - DL	Artesia-MW38-071420	Total/NA	Water	8260B	
600-208199-7	Artesia-MW11-071420	Total/NA	Water	8260B	
MB 600-299088/6	Method Blank	Total/NA	Water	8260B	
LCS 600-299088/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-299088/4	Lab Control Sample Dup	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 299303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-208199-2	Artesia-MW36-071420	Total/NA	Water	300.0	
600-208199-3	Artesia-MW17C-071420	Total/NA	Water	300.0	
600-208199-4	Artesia-MW37-071420	Total/NA	Water	300.0	
600-208199-5	Artesia-MW12-071420	Total/NA	Water	300.0	
600-208199-6	Artesia-MW38-071420	Total/NA	Water	300.0	
600-208199-7	Artesia-MW11-071420	Total/NA	Water	300.0	
MB 600-299303/6	Method Blank	Total/NA	Water	300.0	
LCS 600-299303/7	Lab Control Sample	Total/NA	Water	300.0	

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

Client Sample ID: Artesia-TB01-071420
Lab Sample ID: 600-208199-1
Date Collected: 07/14/20 10:30
Matrix: Water
Date Received: 07/15/20 10:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299066	07/17/20 13:25	YX1	TAL HOU

Client Sample ID: Artesia-MW36-071420
Lab Sample ID: 600-208199-2
Date Collected: 07/14/20 12:05
Matrix: Water
Date Received: 07/15/20 10:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299066	07/17/20 17:10	YX1	TAL HOU
Total/NA	Analysis	8260B		1	299088	07/20/20 18:19	YX1	TAL HOU
Total/NA	Analysis	300.0		250	299303	07/21/20 14:36	W1N	TAL HOU

Client Sample ID: Artesia-MW17C-071420
Lab Sample ID: 600-208199-3
Date Collected: 07/14/20 11:45
Matrix: Water
Date Received: 07/15/20 10:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299066	07/17/20 14:50	YX1	TAL HOU
Total/NA	Analysis	300.0		200	299303	07/21/20 14:47	W1N	TAL HOU

Client Sample ID: Artesia-MW37-071420
Lab Sample ID: 600-208199-4
Date Collected: 07/14/20 13:05
Matrix: Water
Date Received: 07/15/20 10:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299066	07/17/20 15:18	YX1	TAL HOU
Total/NA	Analysis	8260B	DL	10	299088	07/20/20 19:40	YX1	TAL HOU
Total/NA	Analysis	300.0		250	299303	07/21/20 14:58	W1N	TAL HOU

Client Sample ID: Artesia-MW12-071420
Lab Sample ID: 600-208199-5
Date Collected: 07/14/20 12:47
Matrix: Water
Date Received: 07/15/20 10:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299066	07/17/20 15:46	YX1	TAL HOU
Total/NA	Analysis	8260B		1	299088	07/20/20 17:52	YX1	TAL HOU
Total/NA	Analysis	300.0		250	299303	07/21/20 15:30	W1N	TAL HOU

Client Sample ID: Artesia-MW38-071420
Lab Sample ID: 600-208199-6
Date Collected: 07/14/20 13:47
Matrix: Water
Date Received: 07/15/20 10:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299066	07/17/20 16:14	YX1	TAL HOU
Total/NA	Analysis	8260B		1	299088	07/20/20 18:46	YX1	TAL HOU
Total/NA	Analysis	8260B	DL	10	299088	07/20/20 19:13	YX1	TAL HOU

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

Client Sample ID: Artesia-MW38-071420
Lab Sample ID: 600-208199-6
Date Collected: 07/14/20 13:47
Matrix: Water
Date Received: 07/15/20 10:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		250	299303	07/21/20 15:41	W1N	TAL HOU

Client Sample ID: Artesia-MW11-071420
Lab Sample ID: 600-208199-7
Date Collected: 07/14/20 13:54
Matrix: Water
Date Received: 07/15/20 10:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299066	07/17/20 16:42	YX1	TAL HOU
Total/NA	Analysis	8260B		1	299088	07/20/20 17:25	YX1	TAL HOU
Total/NA	Analysis	300.0		250	299303	07/21/20 15:52	W1N	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: Jacobs Engineering Group, Inc.
Job ID: 600-208199-1
Project/Site: Dowell - Artesia

Laboratory: Eurofins TestAmerica, Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0759	08-04-20
Louisiana	NELAP	01967	06-30-21
Oklahoma	State	2019-073	08-31-20
Texas	NELAP	T104704223-19-25	10-31-20
USDA	US Federal Programs	P330-18-00130	04-30-21
Utah	NELAP	TX000832019-5	07-31-20

Method Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
5030B	Purge and Trap	SW846	TAL HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-208199-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-208199-1	Artesia-TB01-071420	Water	07/14/20 10:30	07/15/20 10:17	
600-208199-2	Artesia-MW36-071420	Water	07/14/20 12:05	07/15/20 10:17	
600-208199-3	Artesia-MW17C-071420	Water	07/14/20 11:45	07/15/20 10:17	
600-208199-4	Artesia-MW37-071420	Water	07/14/20 13:05	07/15/20 10:17	
600-208199-5	Artesia-MW12-071420	Water	07/14/20 12:47	07/15/20 10:17	
600-208199-6	Artesia-MW38-071420	Water	07/14/20 13:47	07/15/20 10:17	
600-208199-7	Artesia-MW11-071420	Water	07/14/20 13:54	07/15/20 10:17	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-208199-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 292951

Lab Sample ID: IC 600-292951/2 Client Sample ID:

Date Analyzed: 04/21/20 17:33 Lab File ID: C11201.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.24	Peak assignment corrected	velak	04/21/20 17:55
Bromomethane	4.89	Peak assignment corrected	velak	04/21/20 17:55
t-Butanol	6.02	Peak assignment corrected	velak	04/21/20 17:55
Iodomethane	6.08	Peak assignment corrected	velak	04/21/20 17:55
Propionitrile	6.88	Peak assignment corrected	velak	04/21/20 17:55
Isobutyl alcohol	7.46	Peak assignment corrected	velak	04/21/20 17:55
Tetrahydrofuran	7.72	Peak assignment corrected	velak	04/21/20 17:56
1,4-Dioxane	8.94	Incomplete Integration	velak	04/21/20 17:56
2-Chloroethyl vinyl ether	9.16	Incomplete Integration	velak	04/21/20 17:56
1,1,2-Trichloroethane	9.91	Incomplete Integration	velak	04/21/20 17:56
2-Hexanone	10.22	Incomplete Integration	velak	04/21/20 17:56
1,2,3-Trichloropropane	12.48	Incomplete Integration	velak	04/21/20 17:56
trans-1,4-Dichloro-2-butene	12.50	Incomplete Integration	velak	04/21/20 17:56
1,2-Dibromo-3-Chloropropane	14.92	Incomplete Integration	velak	04/21/20 17:56
1,2,3-Trichlorobenzene	16.92	Incomplete Integration	velak	04/21/20 17:56

Lab Sample ID: IC 600-292951/3 Client Sample ID:

Date Analyzed: 04/21/20 17:58 Lab File ID: C11202.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.24	Peak assignment corrected	xiey	04/22/20 09:11
Acetone	5.66	Peak assignment corrected	xiey	04/22/20 09:11
Iodomethane	6.08	Peak assignment corrected	xiey	04/22/20 09:12
Isobutyl alcohol	7.45	Split Peak	xiey	04/22/20 09:12
Dibromomethane	8.79	Assign Peak	xiey	04/22/20 09:13
1,4-Dioxane	8.95	Assign Peak	xiey	04/22/20 09:13
2-Chloroethyl vinyl ether	9.16	Assign Peak	xiey	04/22/20 09:13
trans-1,4-Dichloro-2-butene	12.48	Assign Peak	xiey	04/22/20 09:13
1,2,3-Trichloropropane	12.49	Assign Peak	xiey	04/22/20 09:13

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-208199-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 292951

Lab Sample ID: IC 600-292951/4 Client Sample ID:

Date Analyzed: 04/21/20 18:24 Lab File ID: C11203.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Split Peak	xiey	04/22/20 10:44
Dibromomethane	8.79	Split Peak	xiey	04/22/20 10:44

Lab Sample ID: IC 600-292951/5 Client Sample ID:

Date Analyzed: 04/21/20 18:50 Lab File ID: C11204.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	04/22/20 11:40
Dibromomethane	8.79	Peak assignment corrected	xiey	04/22/20 11:40

Lab Sample ID: ICIS 600-292951/6 Client Sample ID:

Date Analyzed: 04/21/20 19:16 Lab File ID: C11205.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	04/22/20 10:45
Dibromomethane	8.79	Peak assignment corrected	xiey	04/22/20 10:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-208199-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 299066

Lab Sample ID: CCVIS 600-299066/2 Client Sample ID:

Date Analyzed: 07/17/20 10:52 Lab File ID: C19901A.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	07/17/20 11:22

Lab Sample ID: 600-208199-1 Client Sample ID: Artesia-TB01-071420

Date Analyzed: 07/17/20 13:25 Lab File ID: C19906.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene		Invalid Compound ID	xiey	07/17/20 13:59

Lab Sample ID: 600-208199-3 Client Sample ID: Artesia-MW17C-071420

Date Analyzed: 07/17/20 14:50 Lab File ID: C19909.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene		Invalid Compound ID	xiey	07/17/20 15:25

Lab Sample ID: 600-208199-7 Client Sample ID: Artesia-MW11-071420

Date Analyzed: 07/17/20 16:42 Lab File ID: C19913.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene		Invalid Compound ID	xiey	07/20/20 10:28

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-208199-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 299088

Lab Sample ID: CCVIS 600-299088/2 Client Sample ID:

Date Analyzed: 07/20/20 11:15 Lab File ID: C20201.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromomethane	8.79	Peak assignment corrected	xiey	07/20/20 14:21

Lab Sample ID: MB 600-299088/6 Client Sample ID:

Date Analyzed: 07/20/20 13:13 Lab File ID: C20205.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene		Invalid Compound ID	xiey	07/20/20 15:19

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-208199-1

SDG No.:

Instrument ID: CHWC17(IC) Analysis Batch Number: 293464

Lab Sample ID: IC 600-293464/5 Client Sample ID:

Date Analyzed: 04/29/20 05:35 Lab File ID: CAL042920-600-0035066-005 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.76	Incomplete Integration	watsond	04/29/20 13:08
Bromide	4.38	Peak assignment corrected	watsond	04/29/20 12:37
Sulfate	6.92	Peak assignment corrected	watsond	04/29/20 12:37

Lab Sample ID: IC 600-293464/6 Client Sample ID:

Date Analyzed: 04/29/20 05:46 Lab File ID: CAL042920-600-0035066-006 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.35	Incomplete Integration	watsond	04/29/20 13:09
Chloride	3.11	Incomplete Integration	watsond	04/29/20 12:51
Bromide	4.38	Incomplete Integration	watsond	04/29/20 12:52
Sulfate	6.93	Incomplete Integration	watsond	04/29/20 12:52

Lab Sample ID: IC 600-293464/7 Client Sample ID:

Date Analyzed: 04/29/20 05:57 Lab File ID: CAL042920-600-0035066-007 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.32	Incomplete Integration	watsond	04/29/20 13:11
Chloride	3.11	Incomplete Integration	watsond	04/29/20 12:53
Bromide	4.38	Incomplete Integration	watsond	04/29/20 12:54
Sulfate	6.94	Incomplete Integration	watsond	04/29/20 12:55

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-208199-1

SDG No.:

Instrument ID: CHWC17(IC) Analysis Batch Number: 293464

Lab Sample ID: IC 600-293464/8 Client Sample ID:

Date Analyzed: 04/29/20 06:08 Lab File ID: CAL042920-600-0035066-008 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.32	Incomplete Integration	watsond	04/29/20 12:58
Chloride	3.12	Incomplete Integration	watsond	04/29/20 12:58
Bromide	4.38	Incomplete Integration	watsond	04/29/20 12:58
Sulfate	6.97	Incomplete Integration	watsond	04/29/20 12:59

Lab Sample ID: IC 600-293464/9 Client Sample ID:

Date Analyzed: 04/29/20 06:18 Lab File ID: CAL042920-600-0035066-009 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	4.39	Peak assignment corrected	watsond	04/29/20 12:33
Sulfate	7.02	Peak assignment corrected	watsond	04/29/20 12:33

Lab Sample ID: IC 600-293464/10 Client Sample ID:

Date Analyzed: 04/29/20 06:29 Lab File ID: CAL042920-600-0035066-010 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	4.38	Peak assignment corrected	watsond	04/29/20 12:32
Sulfate	7.06	Peak assignment corrected	watsond	04/29/20 12:32

Lab Sample ID: IC 600-293464/11 Client Sample ID:

Date Analyzed: 04/29/20 06:40 Lab File ID: CAL042920-600-0035066-011 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	4.38	Peak assignment corrected	watsond	04/29/20 12:23
Sulfate	7.13	Peak assignment corrected	watsond	04/29/20 12:23

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-208199-1

SDG No.:

Instrument ID: CHWC17(IC) Analysis Batch Number: 299303

Lab Sample ID: CCV 600-299303/4 Client Sample ID:

Date Analyzed: 07/21/20 11:27 Lab File ID: 072120-600-0036430-004.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.34	Peak Tail	nguyendt	07/21/20 13:39

Lab Sample ID: CCB 600-299303/5 Client Sample ID:

Date Analyzed: 07/21/20 11:38 Lab File ID: 072120-600-0036430-005.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate		Invalid Compound ID	nguyendt	07/21/20 13:40

Lab Sample ID: MB 600-299303/6 Client Sample ID:

Date Analyzed: 07/21/20 11:49 Lab File ID: 072120-600-0036430-006.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate		Invalid Compound ID	nguyendt	07/21/20 13:40

Lab Sample ID: 600-208199-3 Client Sample ID: Artesia-MW17C-071420

Date Analyzed: 07/21/20 14:47 Lab File ID: 072120-600-0036430-014.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	6.29	Baseline Smoothing	nampitakw	07/22/20 10:38

Lab Sample ID: 600-208199-4 Client Sample ID: Artesia-MW37-071420

Date Analyzed: 07/21/20 14:58 Lab File ID: 072120-600-0036430-015.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	6.28	Baseline Smoothing	nampitakw	07/22/20 10:39

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-208199-1

SDG No.:

Instrument ID: CHWC17(IC) Analysis Batch Number: 299303

Lab Sample ID: CCB 600-299303/17 Client Sample ID:

Date Analyzed: 07/21/20 15:19 Lab File ID: 072120-600-0036430-017.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate		Invalid Compound ID	nampitakw	07/22/20 10:40

Lab Sample ID: CCB 600-299303/29 Client Sample ID:

Date Analyzed: 07/21/20 17:28 Lab File ID: 072120-600-0036430-029.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate		Invalid Compound ID	nampitakw	07/22/20 10:49

300.0

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
BFB_00307							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21	Restek, Lot A0120567			(Purchased Reagent)		BFB	2000 ug/mL
BFB_00314							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21	Restek, Lot A0120567			(Purchased Reagent)		BFB	2000 ug/mL
CCV_00125	08/02/20	06/22/20	DI WATER, Lot NONE	500 mL	WETSICCSO4_00017	10 mL	Sulfate	20 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD2_00054	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	20 uL	Bromide	0.2 mg/L
					WETSICCCL_00026	40 uL	Chloride	0.4 mg/L
					WETSICCFL_00014	20 uL	Fluoride	0.2 mg/L
					WETSICCSO4_00017	40 uL	Sulfate	0.4 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD3_00047	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	50 uL	Bromide	0.5 mg/L
					WETSICCCL_00026	100 uL	Chloride	1 mg/L
					WETSICCFL_00014	50 uL	Fluoride	0.5 mg/L
					WETSICCSO4_00017	100 uL	Sulfate	1 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD4_00046	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	100 uL	Bromide	1 mg/L
					WETSICCCL_00026	200 uL	Chloride	2 mg/L
					WETSICCFL_00014	100 uL	Fluoride	1 mg/L
					WETSICCSO4_00017	200 uL	Sulfate	2 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ICCALSTD5_00048	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	200 uL	Bromide	2 mg/L
					WETSICCCL_00026	500 uL	Chloride	5 mg/L
					WETSICCFL_00014	200 uL	Fluoride	2 mg/L
					WETSICCSO4_00017	500 uL	Sulfate	5 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD6_00043	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	500 uL	Bromide	5 mg/L
					WETSICCCL_00026	1 mL	Chloride	10 mg/L
					WETSICCFL_00014	500 uL	Fluoride	5 mg/L
					WETSICCSO4_00017	1 mL	Sulfate	10 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD7_00046	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	750 uL	Bromide	7.5 mg/L
					WETSICCCL_00026	2 mL	Chloride	20 mg/L
					WETSICCFL_00014	750 uL	Fluoride	7.5 mg/L
					WETSICCSO4_00017	2 mL	Sulfate	20 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD8_00034	06/24/20	04/10/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	1 mL	Bromide	10 mg/L
					WETSICCCL_00026	4 mL	Chloride	40 mg/L
					WETSICCFL_00014	1 mL	Fluoride	10 mg/L
					WETSICCSO4_00017	4 mL	Sulfate	40 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00026	08/02/20	INORGANIC-VENTURE, Lot P2-CL675597			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICV/LCS_00113	09/29/20	06/24/20	DI WATER, Lot NONE	500 mL	WETSICISO4_00012	10 mL	Sulfate	20 mg/L
.WETSICISO4_00012	09/29/20	ACCUSTANDARD, Lot 218085152			(Purchased Reagent)		Sulfate	1000 mg/L
VOAIS50PPM_00276	05/05/20	04/21/20	Methanol, Lot V071019A	1 mL	VOA3IS_00031	20 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VOA3IS_00031	06/30/23	Restek, Lot A0138856			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VOAIS50PPM_00282	07/27/20	07/13/20	Methanol, Lot V071019A	1 mL	VOA3IS_00031	20 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VOA3IS_00031	06/30/23	Restek, Lot A0138856			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VOALCSPT2T_00085	05/05/20	04/21/20	Methanol, Lot V071019A	1 mL	VOALMegMi2017_00004	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00004	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOALCSPT2T_00091	07/27/20	07/13/20	Methanol, Lot V071019A	1 mL	VOALMegMi2017_00004	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00004	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOASS50PPM_00314	05/05/20	04/21/20	Methanol, Lot V071019A	1 mL	VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASS50PPM_00320	07/27/20	07/13/20	Methanol, Lot V071019A	1 mL	VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASTDGASPT_00375	04/28/20	04/21/20	Methanol, Lot V100919A	1 mL	VOARGAS_00014	20 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VOARGAS_00014	10/31/20		Restek, Lot A0131502		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VOASTDst_00134	05/05/20	04/21/20	Methanol, Lot V071019A	1 mL	VOAMegMix2017_00006	20 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VOAR2CEVE_00014	40 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VOARAcroleinS_00007	12.5 uL	Acrolein	250 ug/mL
					VOARADD4COM_00009	20 uL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VOARADDCOM_00015	20 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
					VOARKETONDup_00003	8 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	100 ug/mL
					VOARPOLADD_00013	20 uL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					VOARVASTD_00008	20 uL	Vinyl acetate	100 ug/mL
.VOAMegMix2017_00006	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.VOAR2CEVE_00014	12/31/20		Restek, Lot A0133302		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcroleinS_00007	04/30/21		Restek, Lot A0154578		(Purchased Reagent)		Acrolein	20000 ug/mL
.VOARADD4COM_00009	05/31/20		Restek, Lot A0143198		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VOARADDCOM_00015	07/31/20		Restek, Lot A0145375		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
.VOARKETONDup_00003	09/30/22		RESTEK, Lot A0152956		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARPOLADD_00013	07/31/20		Restek, Lot A0139911		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.VOARVASTD_00008	07/31/20		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VOASTDst_00140	07/27/20	07/13/20	Methanol, Lot V071019A	1 mL	VOAMegMix2017_00006	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
					VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOAMegMix2017_00006	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL

Method 8260B Low Level

Volatile Organic Compounds (GC/MS) by Method 8260B Low Level

Released to Imaging: 6/9/2021 9:44:58 AM

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-VRX 60 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
Artesia-TB01-071420	600-208199-1	109	115	82	98
Artesia-MW36-071420	600-208199-2	107	102	80	90
Artesia-MW36-071420	600-208199-2	107	103	78	91
Artesia-MW17C-071420	600-208199-3	100	99	81	96
Artesia-MW37-071420	600-208199-4	109	117	79	89
Artesia-MW37-071420 DL	600-208199-4 DL	103	98	81	97
Artesia-MW12-071420	600-208199-5	100	102	83	93
Artesia-MW12-071420	600-208199-5	111	118	78	96
Artesia-MW38-071420	600-208199-6	107	104	85	94
Artesia-MW38-071420	600-208199-6	107	102	82	94
Artesia-MW38-071420 DL	600-208199-6 DL	105	100	81	96
Artesia-MW11-071420	600-208199-7	96	94	83	96
Artesia-MW11-071420	600-208199-7	111	117	77	90
	MB 600-299066/6	101	105	82	96
	MB 600-299088/6	104	103	83	96
	LCS 600-299066/3	100	96	78	99
	LCS 600-299088/3	98	85	82	100
	LCSD 600-299066/4	102	97	80	101
	LCSD 600-299088/4	106	95	81	101

	QC LIMITS
DBFM = Dibromofluoromethane	62-130
DCA = 1,2-Dichloroethane-d4 (Surr)	50-134
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	67-139

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C19902.D

Lab ID: LCS 600-299066/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.009609	96	70-140	
1,1-Dichloroethene	0.0100	0.009557	96	58-148	
Benzene	0.0100	0.009844	98	70-130	
Naphthalene	0.0100	0.01587	159	10-150	*
Tetrachloroethene	0.0100	0.008582	86	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C20202.D

Lab ID: LCS 600-299088/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.009333	93	70-140	
1,1-Dichloroethene	0.0100	0.009306	93	58-148	
Benzene	0.0100	0.009786	98	70-130	
Naphthalene	0.0100	0.01102	110	10-150	
Tetrachloroethene	0.0100	0.008989	90	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C19903.D

Lab ID: LCSD 600-299066/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.01026	103	7	20	70-140	
1,1-Dichloroethene	0.0100	0.01023	102	7	20	58-148	
Benzene	0.0100	0.01081	108	9	20	70-130	
Naphthalene	0.0100	0.01672	167	5	20	10-150	*
Tetrachloroethene	0.0100	0.009177	92	7	20	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C20203.D

Lab ID: LCSD 600-299088/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.01087	109	15	20	70-140	
1,1-Dichloroethene	0.0100	0.01073	107	14	20	58-148	
Benzene	0.0100	0.01138	114	15	20	70-130	
Naphthalene	0.0100	0.01329	133	19	20	10-150	
Tetrachloroethene	0.0100	0.009598	96	7	20	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab File ID: C19905.D Lab Sample ID: MB 600-299066/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHVOAMS01 Date Analyzed: 07/17/2020 12:57

GC Column: DB-VRX 60 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-299066/3	C19902.D	07/17/2020 11:30
	LCSD 600-299066/4	C19903.D	07/17/2020 11:59
Artesia-TB01-071420	600-208199-1	C19906.D	07/17/2020 13:25
Artesia-MW17C-071420	600-208199-3	C19909.D	07/17/2020 14:50
Artesia-MW37-071420	600-208199-4	C19910.D	07/17/2020 15:18
Artesia-MW12-071420	600-208199-5	C19911.D	07/17/2020 15:46
Artesia-MW38-071420	600-208199-6	C19912.D	07/17/2020 16:14
Artesia-MW11-071420	600-208199-7	C19913.D	07/17/2020 16:42
Artesia-MW36-071420	600-208199-2	C19914.D	07/17/2020 17:10

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab File ID: C20205.D Lab Sample ID: MB 600-299088/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHVOAMS01 Date Analyzed: 07/20/2020 13:13

GC Column: DB-VRX 60 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-299088/3	C20202.D	07/20/2020 11:53
	LCSD 600-299088/4	C20203.D	07/20/2020 12:20
Artesia-MW11-071420	600-208199-7	C20214.D	07/20/2020 17:25
Artesia-MW12-071420	600-208199-5	C20215.D	07/20/2020 17:52
Artesia-MW36-071420	600-208199-2	C20216.D	07/20/2020 18:19
Artesia-MW38-071420	600-208199-6	C20217.D	07/20/2020 18:46
Artesia-MW38-071420 DL	600-208199-6 DL	C20218.D	07/20/2020 19:13
Artesia-MW37-071420 DL	600-208199-4 DL	C20219.D	07/20/2020 19:40

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab File ID: C11200.D BFB Injection Date: 04/21/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 17:07

Analysis Batch No.: 292951

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.2	
75	30.0 - 60.0 % of mass 95	46.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	76.6	
175	5.0 - 9.0 % of mass 174	5.6	(7.3) 1
176	95.0 - 101.0 % of mass 174	73.9	(96.4) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 600-292951/2	C11201.D	04/21/2020	17:33
	IC 600-292951/3	C11202.D	04/21/2020	17:58
	IC 600-292951/4	C11203.D	04/21/2020	18:24
	IC 600-292951/5	C11204.D	04/21/2020	18:50
	ICIS 600-292951/6	C11205.D	04/21/2020	19:16
	IC 600-292951/7	C11206.D	04/21/2020	19:42
	IC 600-292951/8	C11207.D	04/21/2020	20:08
	ICV 600-292951/1012	C11211-ICV.d	04/21/2020	21:51

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab File ID: C19900.D BFB Injection Date: 07/17/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 09:44

Analysis Batch No.: 299066

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.8	
75	30.0 - 60.0 % of mass 95	54.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	8.0	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	74.2	
175	5.0 - 9.0 % of mass 174	6.1	(8.2) 1
176	95.0 - 101.0 % of mass 174	72.2	(97.3) 1
177	5.0 - 9.0 % of mass 176	3.9	(5.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 600-299066/2	C19901A.D	07/17/2020	10:52
	LCS 600-299066/3	C19902.D	07/17/2020	11:30
	LCSD 600-299066/4	C19903.D	07/17/2020	11:59
	MB 600-299066/6	C19905.D	07/17/2020	12:57
Artesia-TB01-071420	600-208199-1	C19906.D	07/17/2020	13:25
Artesia-MW17C-071420	600-208199-3	C19909.D	07/17/2020	14:50
Artesia-MW37-071420	600-208199-4	C19910.D	07/17/2020	15:18
Artesia-MW12-071420	600-208199-5	C19911.D	07/17/2020	15:46
Artesia-MW38-071420	600-208199-6	C19912.D	07/17/2020	16:14
Artesia-MW11-071420	600-208199-7	C19913.D	07/17/2020	16:42
Artesia-MW36-071420	600-208199-2	C19914.D	07/17/2020	17:10

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab File ID: C20200.D BFB Injection Date: 07/20/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 10:50

Analysis Batch No.: 299088

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.4	
75	30.0 - 60.0 % of mass 95	47.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	83.8	
175	5.0 - 9.0 % of mass 174	6.3	(7.5) 1
176	95.0 - 101.0 % of mass 174	80.0	(95.5) 1
177	5.0 - 9.0 % of mass 176	6.3	(7.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 600-299088/2	C20201.D	07/20/2020	11:15
	LCS 600-299088/3	C20202.D	07/20/2020	11:53
	LCSD 600-299088/4	C20203.D	07/20/2020	12:20
	MB 600-299088/6	C20205.D	07/20/2020	13:13
Artesia-MW11-071420	600-208199-7	C20214.D	07/20/2020	17:25
Artesia-MW12-071420	600-208199-5	C20215.D	07/20/2020	17:52
Artesia-MW36-071420	600-208199-2	C20216.D	07/20/2020	18:19
Artesia-MW38-071420	600-208199-6	C20217.D	07/20/2020	18:46
Artesia-MW38-071420 DL	600-208199-6 DL	C20218.D	07/20/2020	19:13
Artesia-MW37-071420 DL	600-208199-4 DL	C20219.D	07/20/2020	19:40

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Sample No.: ICIS 600-292951/6 Date Analyzed: 04/21/2020 19:16

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C11205.D Heated Purge: (Y/N) N

Calibration ID: 18007

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		573225	8.48	200053	11.48	173570	14.06
UPPER LIMIT		1146450	8.98	400106	11.98	347140	14.56
LOWER LIMIT		286613	7.98	100027	10.98	86785	13.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 600-292951/1012		567317	8.49	193880	11.47	174429	14.06
CCVIS 600-299066/2		535111	8.49	216347	11.47	216559	14.06
CCVIS 600-299088/2		486794	8.48	187869	11.47	187527	14.05

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Sample No.: CCVIS 600-299066/2 Date Analyzed: 07/17/2020 10:52

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C19901A.D Heated Purge: (Y/N) N

Calibration ID: 18007

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		535111	8.49	216347	11.47	216559	14.06
UPPER LIMIT		1070222	8.99	432694	11.97	433118	14.56
LOWER LIMIT		267556	7.99	108174	10.97	108280	13.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 600-299066/3		587510	8.49	228895	11.48	240962	14.06
LCSD 600-299066/4		619010	8.49	235172	11.48	250276	14.06
MB 600-299066/6		565119	8.49	209261	11.48	239329	14.06
600-208199-1	Artesia-TB01-071420	501237	8.48	201830	11.48	227640	14.06
600-208199-3	Artesia-MW17C-071420	534749	8.48	197090	11.48	222400	14.06
600-208199-4	Artesia-MW37-071420	496108	8.49	204260	11.47	257240	14.06
600-208199-5	Artesia-MW12-071420	603806	8.48	223973	11.48	257155	14.06
600-208199-6	Artesia-MW38-071420	601949	8.48	235478	11.47	265239	14.06
600-208199-7	Artesia-MW11-071420	666513	8.48	242646	11.47	277254	14.06
600-208199-2	Artesia-MW36-071420	613523	8.48	248074	11.47	303983	14.06

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Sample No.: CCVIS 600-299088/2 Date Analyzed: 07/20/2020 11:15

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C20201.D Heated Purge: (Y/N) N

Calibration ID: 18007

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		486794	8.48	187869	11.47	187527	14.05
UPPER LIMIT		973588	8.98	375738	11.97	375054	14.55
LOWER LIMIT		243397	7.98	93935	10.97	93764	13.55
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 600-299088/3		523511	8.48	192434	11.47	197002	14.05
LCSD 600-299088/4		498102	8.48	196962	11.47	208326	14.05
MB 600-299088/6		470706	8.48	180727	11.47	202697	14.06
600-208199-7	Artesia-MW11-071420	368652	8.49	151899	11.47	180470	14.06
600-208199-5	Artesia-MW12-071420	383796	8.49	156048	11.47	180115	14.06
600-208199-2	Artesia-MW36-071420	455728	8.48	188682	11.47	232948	14.06
600-208199-6	Artesia-MW38-071420	526610	8.49	204186	11.47	233747	14.06
600-208199-6 DL	Artesia-MW38-071420 DL	527638	8.49	206628	11.47	237906	14.06
600-208199-4 DL	Artesia-MW37-071420 DL	530240	8.49	205333	11.48	231557	14.06

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-TB01-071420 Lab Sample ID: 600-208199-1

Matrix: Water Lab File ID: C19906.D

Analysis Method: 8260B Date Collected: 07/14/2020 10:30

Sample wt/vol: 20(mL) Date Analyzed: 07/17/2020 13:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299066 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U *	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		50-134
460-00-4	4-Bromofluorobenzene	98		67-139
1868-53-7	Dibromofluoromethane	109		62-130
2037-26-5	Toluene-d8 (Surr)	82		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW36-071420 Lab Sample ID: 600-208199-2

Matrix: Water Lab File ID: C19914.D

Analysis Method: 8260B Date Collected: 07/14/2020 12:05

Sample wt/vol: 20(mL) Date Analyzed: 07/17/2020 17:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299066 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0458		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.0219		0.00100	0.000176
127-18-4	Tetrachloroethene	0.00969		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		50-134
460-00-4	4-Bromofluorobenzene	90		67-139
1868-53-7	Dibromofluoromethane	107		62-130
2037-26-5	Toluene-d8 (Surr)	80		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW36-071420 Lab Sample ID: 600-208199-2

Matrix: Water Lab File ID: C20216.D

Analysis Method: 8260B Date Collected: 07/14/2020 12:05

Sample wt/vol: 20(mL) Date Analyzed: 07/20/2020 18:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299088 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	0.0146		0.00200	0.000129

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		50-134
460-00-4	4-Bromofluorobenzene	91		67-139
1868-53-7	Dibromofluoromethane	107		62-130
2037-26-5	Toluene-d8 (Surr)	78		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW17C-071420 Lab Sample ID: 600-208199-3

Matrix: Water Lab File ID: C19909.D

Analysis Method: 8260B Date Collected: 07/14/2020 11:45

Sample wt/vol: 20(mL) Date Analyzed: 07/17/2020 14:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299066 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U *	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		50-134
460-00-4	4-Bromofluorobenzene	96		67-139
1868-53-7	Dibromofluoromethane	100		62-130
2037-26-5	Toluene-d8 (Surr)	81		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW37-071420 Lab Sample ID: 600-208199-4

Matrix: Water Lab File ID: C19910.D

Analysis Method: 8260B Date Collected: 07/14/2020 13:05

Sample wt/vol: 20(mL) Date Analyzed: 07/17/2020 15:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299066 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00761		0.00100	0.000192
71-43-2	Benzene	0.0296		0.00100	0.000176
127-18-4	Tetrachloroethene	0.00413		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		50-134
460-00-4	4-Bromofluorobenzene	89		67-139
1868-53-7	Dibromofluoromethane	109		62-130
2037-26-5	Toluene-d8 (Surr)	79		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW37-071420 DL Lab Sample ID: 600-208199-4 DL

Matrix: Water Lab File ID: C20219.D

Analysis Method: 8260B Date Collected: 07/14/2020 13:05

Sample wt/vol: 20(mL) Date Analyzed: 07/20/2020 19:40

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299088 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0794		0.0100	0.00168
91-20-3	Naphthalene	0.0878		0.0200	0.00129

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		50-134
460-00-4	4-Bromofluorobenzene	97		67-139
1868-53-7	Dibromofluoromethane	103		62-130
2037-26-5	Toluene-d8 (Surr)	81		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW12-071420 Lab Sample ID: 600-208199-5

Matrix: Water Lab File ID: C19911.D

Analysis Method: 8260B Date Collected: 07/14/2020 12:47

Sample wt/vol: 20(mL) Date Analyzed: 07/17/2020 15:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299066 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0470		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00164		0.00100	0.000192
71-43-2	Benzene	0.00328		0.00100	0.000176
127-18-4	Tetrachloroethene	0.000816	J	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		50-134
460-00-4	4-Bromofluorobenzene	93		67-139
1868-53-7	Dibromofluoromethane	100		62-130
2037-26-5	Toluene-d8 (Surr)	83		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW12-071420 Lab Sample ID: 600-208199-5

Matrix: Water Lab File ID: C20215.D

Analysis Method: 8260B Date Collected: 07/14/2020 12:47

Sample wt/vol: 20(mL) Date Analyzed: 07/20/2020 17:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299088 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	0.00668		0.00200	0.000129

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		50-134
460-00-4	4-Bromofluorobenzene	96		67-139
1868-53-7	Dibromofluoromethane	111		62-130
2037-26-5	Toluene-d8 (Surr)	78		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW38-071420 Lab Sample ID: 600-208199-6

Matrix: Water Lab File ID: C19912.D

Analysis Method: 8260B Date Collected: 07/14/2020 13:47

Sample wt/vol: 20(mL) Date Analyzed: 07/17/2020 16:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299066 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00581		0.00100	0.000192
71-43-2	Benzene	0.000885	J	0.00100	0.000176
127-18-4	Tetrachloroethene	0.00667		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		50-134
460-00-4	4-Bromofluorobenzene	94		67-139
1868-53-7	Dibromofluoromethane	107		62-130
2037-26-5	Toluene-d8 (Surr)	85		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW38-071420 Lab Sample ID: 600-208199-6

Matrix: Water Lab File ID: C20217.D

Analysis Method: 8260B Date Collected: 07/14/2020 13:47

Sample wt/vol: 20(mL) Date Analyzed: 07/20/2020 18:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299088 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	0.00737		0.00200	0.000129

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		50-134
460-00-4	4-Bromofluorobenzene	94		67-139
1868-53-7	Dibromofluoromethane	107		62-130
2037-26-5	Toluene-d8 (Surr)	82		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW38-071420 DL Lab Sample ID: 600-208199-6 DL

Matrix: Water Lab File ID: C20218.D

Analysis Method: 8260B Date Collected: 07/14/2020 13:47

Sample wt/vol: 20(mL) Date Analyzed: 07/20/2020 19:13

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299088 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.100		0.0100	0.00168

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		50-134
460-00-4	4-Bromofluorobenzene	96		67-139
1868-53-7	Dibromofluoromethane	105		62-130
2037-26-5	Toluene-d8 (Surr)	81		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW11-071420 Lab Sample ID: 600-208199-7

Matrix: Water Lab File ID: C19913.D

Analysis Method: 8260B Date Collected: 07/14/2020 13:54

Sample wt/vol: 20(mL) Date Analyzed: 07/17/2020 16:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299066 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00487		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
127-18-4	Tetrachloroethene	0.000391	J	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		50-134
460-00-4	4-Bromofluorobenzene	96		67-139
1868-53-7	Dibromofluoromethane	96		62-130
2037-26-5	Toluene-d8 (Surr)	83		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW11-071420 Lab Sample ID: 600-208199-7

Matrix: Water Lab File ID: C20214.D

Analysis Method: 8260B Date Collected: 07/14/2020 13:54

Sample wt/vol: 20(mL) Date Analyzed: 07/20/2020 17:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299088 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		50-134
460-00-4	4-Bromofluorobenzene	90		67-139
1868-53-7	Dibromofluoromethane	111		62-130
2037-26-5	Toluene-d8 (Surr)	77		70-130

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-292951/2	C11201.D
Level 2	IC 600-292951/3	C11202.D
Level 3	IC 600-292951/4	C11203.D
Level 4	IC 600-292951/5	C11204.D
Level 5	ICIS 600-292951/6	C11205.D
Level 6	IC 600-292951/7	C11206.D
Level 7	IC 600-292951/8	C11207.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.1689 0.2250	0.1808 0.2144	0.1926	0.2275	0.2228	Ave		0.2046				11.6		15.0			
Chloromethane	0.1844 0.1407	0.1600 0.1411	0.1387	0.1458	0.1438	Ave		0.1506			0.1000	11.0		15.0			
Vinyl chloride	0.1248 0.1231	0.1340 0.0828	0.1382	0.1563	0.1436	Qua	-0.001	0.1536	-0.001418						0.9990		0.9900
Butadiene	0.1440 0.1569	0.1530 0.1181	0.1558	0.1836	0.1712	Ave		0.1546				13.4		15.0			
Bromomethane	0.0909 0.1349	0.1049 0.1315	0.1043	0.1275	0.1338	Qua	-0.045	0.1397	-0.000146						1.0000		0.9900
Chloroethane	0.1254 0.1572	0.1471 0.1446	0.1444	0.1679	0.1624	Ave		0.1498				9.4		15.0			
Dichlorofluoromethane	0.3204 0.3849	0.3463 0.3553	0.3428	0.3976	0.3943	Ave		0.3631				8.1		15.0			
Acrolein	0.0168 0.0123	0.0142 0.0120	0.0134	0.0135	0.0125	Ave		0.0135				12.1		15.0			
Trichlorofluoromethane	0.3248 0.4142	0.3568 0.3443	0.3766	0.4333	0.4254	Ave		0.3822				11.2		15.0			
Acetonitrile	0.0104 0.0080	0.0106 0.0075	0.0113	0.0082	0.0084	Lin1	0.0278	0.0077							0.9950		0.9900
Isopropyl alcohol	0.0066 0.0036	0.0050 0.0036	0.0051	0.0039	0.0037	Lin2	0.0149	0.0037							0.9910		0.9900
Acetone	0.0728 0.0210	0.0391 0.0201	0.0309	0.0239	0.0217	Lin1	0.0479	0.0196							0.9990		0.9900
Ethyl ether	0.1784 0.1419	0.1751 0.1303	0.1740	0.1546	0.1531	Ave		0.1582				11.6		15.0			
t-Butanol	0.0102 0.0072	0.0092 0.0071	0.0094	0.0084	0.0081	Ave		0.0085				13.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloroethene	0.3234 0.2242	0.2995 0.1909	0.2932	0.2562	0.2407	Qua	0.0731	0.2429	-0.001071						1.0000		0.9900
Acrylonitrile	0.0213 0.0196	0.0228 0.0179	0.0224	0.0207	0.0203	Ave		0.0207				8.0		15.0			
Iodomethane	0.3290 0.3183	0.3600 0.2781	0.3664	0.3454	0.3344	Ave		0.3331				8.9		15.0			
Methylene Chloride	1.0237 0.2103	0.5773 0.1734	0.4141	0.2878	0.2431	Lin1	0.4383	0.1762							0.9910		0.9900
Methyl acetate	0.0721 0.0544	0.0650 0.0520	0.0697	0.0614	0.0602	Ave		0.0621				12.0		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2931 0.2074	0.2452 0.1749	0.2628	0.2319	0.2134	Lin1	0.0832	0.1867							0.9900		0.9900
3-Chloro-1-propene	0.2025 0.1492	0.1917 0.1313	0.1917	0.1718	0.1611	Lin1	0.0588	0.1388							0.9920		0.9900
Carbon disulfide	1.0573 0.6293	0.8416 0.5527	0.8416	0.7395	0.6740	Lin1	0.3280	0.5810							0.9920		0.9900
trans-1,2-Dichloroethene	0.3685 0.2484	0.3311 0.2154	0.3197	0.2846	0.2695	Lin1	0.1132	0.2284							0.9910		0.9900
Methyl tert-butyl ether	0.6537 0.4627	0.6314 0.4104	0.6035	0.5326	0.5068	Lin1	0.2000	0.4324							0.9920		0.9900
1,1-Dichloroethane	0.6431 0.4353	0.5923 0.3655	0.5694	0.5107	0.4741	Qua	0.1558	0.4762	-0.002280		0.1000				1.0000		0.9900
Propionitrile	0.0105 0.0095	0.0106 0.0088	0.0109	0.0104	0.0094	Ave		0.0100				7.8		15.0			
Vinyl acetate	0.2992 0.2519	0.2878 0.2382	0.2879	0.2780	0.2664	Ave		0.2728				8.0		15.0			
2-Chloro-1,3-butadiene	0.5550 0.3514	0.4768 0.2772	0.5014	0.4366	0.3952	Qua	0.1590	0.3969	-0.002462						1.0000		0.9900
Hexane	0.5514 0.3092	0.4536 0.2238	0.4746	0.3929	0.3508	Qua	0.1649	0.3590	-0.002772						1.0000		0.9900
Isopropyl ether	1.2625 0.7094	1.1648 0.5303	1.1079	0.9388	0.8322	Qua	0.4895	0.8172	-0.005946						0.9990		0.9900
2-Butanone (MEK)	0.0118 0.0115	0.0136 0.0102	0.0130	0.0124	0.0125	Ave		0.0122				9.1		15.0			
Methacrylonitrile	0.0127 0.0118	0.0132 0.0103	0.0139	0.0134	0.0125	Ave		0.0125				9.6		15.0			
cis-1,2-Dichloroethene	0.3646 0.2569	0.3362 0.2284	0.3262	0.2940	0.2770	Lin1	0.1043	0.2400							0.9930		0.9900
Ethyl acetate	0.0833 0.0889	0.0957 0.0881	0.0955	0.0907	0.0918	Ave		0.0906				4.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobromomethane	0.1204 0.0932	0.1135 0.0760	0.1161	0.1065	0.1062	Ave		0.1045				14.7		15.0			
Tert-butyl ethyl ether	1.0329 0.6704	0.9692 0.5088	0.9510	0.8400	0.7828	Qua	0.3053	0.7777	-0.005510						1.0000		0.9900
Chloroform	0.6113 0.3779	0.5549 0.3072	0.5337	0.4679	0.4265	Qua	0.1936	0.4204	-0.002345						1.0000		0.9900
Isobutyl alcohol	0.0087 0.0056	0.0069 0.0046	0.0081	0.0063	0.0061	Qua	0.0428	0.0062	-0.000001						1.0000		0.9900
2,2-Dichloropropane	0.6555 0.4384	0.5622 0.3712	0.5657	0.5177	0.4744	Qua	0.1487	0.4780	-0.002199						1.0000		0.9900
Tetrahydrofuran	0.0207 0.0197	0.0295 0.0202	0.0259	0.0203	0.0199	Lin1	0.0084	0.0200							0.9970		0.9900
1,2-Dichloroethane	0.2554 0.2093	0.2533 0.1948	0.2480	0.2272	0.2187	Ave		0.2295				10.2		15.0			
1,1,1-Trichloroethane	0.6062 0.4111	0.5394 0.3476	0.5462	0.4807	0.4458	Qua	0.1463	0.4479	-0.002067						1.0000		0.9900
1,1-Dichloropropene	0.4772 0.3471	0.4273 0.2931	0.4288	0.4063	0.3729	Qua	0.0893	0.3802	-0.001779						1.0000		0.9900
Cyclohexane	0.6005 0.3919	0.5127 0.3225	0.5304	0.4589	0.4238	Qua	0.1381	0.4313	-0.002234						1.0000		0.9900
Carbon tetrachloride	0.5164 0.3593	0.4624 0.2995	0.4688	0.4186	0.3871	Qua	0.1106	0.3943	-0.001942						1.0000		0.9900
Benzene	1.4493 0.8969	1.2919 0.7111	1.2625	1.0982	1.0071	Qua	0.4151	1.0082	-0.006118						1.0000		0.9900
Tert-amyl methyl ether	0.7825 0.5532	0.7690 0.4998	0.7418	0.6506	0.6140	Lin1	0.2434	0.5241							0.9920		0.9900
Isooctane	1.1516 0.7345	0.9905 0.6071	1.0044	0.8568	0.7913	Qua	0.2779	0.8038	-0.004048						1.0000		0.9900
Ethyl acrylate	0.2137 0.1848	0.2341 0.1660	0.2051	0.1931	0.1956	Ave		0.1989				10.9		15.0			
n-Heptane	0.4436 0.3202	0.4075 0.2630	0.4208	0.3608	0.3380	Qua	0.0786	0.3519	-0.001809						1.0000		0.9900
Dibromomethane	0.0950 0.0733	0.0818 0.0656	0.0912	0.0812	0.0793	Ave		0.0811				12.3		15.0			
1,2-Dichloropropane	0.3042 0.2032	0.2913 0.1629	0.2816	0.2496	0.2294	Qua	0.0901	0.2284	-0.001348						1.0000		0.9900
2-Nitropropane	0.0377 0.0260	0.0310 0.0223	0.0315	0.0268	0.0281	Lin2	0.0124	0.0256							0.9910		0.9900
Trichloroethene	0.3775 0.2564	0.3424 0.2100	0.3384	0.3003	0.2805	Qua	0.0850	0.2842	-0.001519						1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Bromodichloromethane	0.3598 0.2781	0.3468 0.2458	0.3448	0.3154	0.2981	Ave		0.3127				13.2		15.0			
Methyl methacrylate	0.1271 0.1017	0.1161 0.0916	0.1160	0.1095	0.1088	Ave		0.1101				10.3		15.0			
1,4-Dioxane	0.0003 0.0006	0.0004 0.0005	0.0005	0.0005	0.0006	Lin2	-0.002	0.0006							1.0000		0.9900
2-Chloroethyl vinyl ether	0.0212 0.0557	0.0326	0.0343	0.0438	0.0496	Lin1	-0.045	0.0539							0.9930		0.9900
Methylcyclohexane	0.6549 0.4350	0.5598 0.3576	0.5752	0.5079	0.4697	Qua	0.1389	0.4798	-0.002502						1.0000		0.9900
cis-1,3-Dichloropropene	1.1870 0.8798	1.1097	1.0888	0.9994	0.9459	Ave		1.0351				11.0		15.0			
4-Methyl-2-pentanone (MIBK)	0.0934 0.0872	0.1032 0.0831	0.0960	0.0925	0.0911	Ave		0.0924				6.9		15.0			
trans-1,3-Dichloropropene	0.7342 0.5933	0.7047	0.6760	0.6444	0.6312	Ave		0.6639				7.7		15.0			
1,1,2-Trichloroethane	0.4306 0.3288	0.4129	0.4078	0.3682	0.3508	Ave		0.3832				10.4		15.0			
Ethyl methacrylate	0.5351 0.4046	0.4913	0.4958	0.4427	0.4334	Ave		0.4672				10.3		15.0			
Toluene	2.5027 1.6203	2.1978	2.1767	1.9476	1.7999	Lin2	0.3831	1.7950							0.9920		0.9900
1,3-Dichloropropane	0.7244 0.5874	0.7245	0.7126	0.6604	0.6319	Ave		0.6735				8.4		15.0			
2-Hexanone	0.1475 0.1488	0.1464	0.1806	0.1535	0.1541	Ave		0.1551				8.3		15.0			
Dibromochloromethane	0.5010 0.4284	0.5084	0.4989	0.4648	0.4481	Ave		0.4749				6.9		15.0			
n-Butyl acetate	0.4772 0.4171	0.4542	0.4701	0.4295	0.4265	Ave		0.4458				5.6		15.0			
1,2-Dibromoethane	0.3601 0.3059	0.3554	0.3515	0.3290	0.3202	Ave		0.3370				6.5		15.0			
Tetrachloroethene	0.7522 0.5435	0.6874	0.7086	0.6315	0.5906	Ave		0.6523				12.0		15.0			
1-Chlorohexane	0.8725 0.5842	0.7579	0.7616	0.6773	0.6275	Ave		0.7135				14.7		15.0			
1,1,1,2-Tetrachloroethane	0.8784 0.6665	0.8150 0.5842	0.8130	0.7650	0.7163	Ave		0.7483				13.4		15.0			
Chlorobenzene	2.1979 1.5691	2.0315	2.0117	1.8187	1.7133	Ave		1.8904			0.3000	12.3		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethylbenzene	1.3811 0.9703	1.2757	1.2609	1.1405	1.0585	Ave		1.1812				12.9		15.0			
m-Xylene & p-Xylene	3.1487 2.1123	2.8080	2.7284	2.4638	2.3076	Ave		2.5948				14.4		15.0			
Bromoform	0.2069 0.1826	0.1953	0.1981	0.1890	0.1893	Ave		0.1935			0.1000	4.4		15.0			
Styrene	2.1458 1.5962	1.9723	1.9470	1.8133	1.7291	Ave		1.8673				10.5		15.0			
o-Xylene	1.5840 1.0809	1.4610	1.4228	1.3089	1.1968	Ave		1.3424				13.7		15.0			
1,1,2,2-Tetrachloroethane	0.4155 0.2935	0.3773 0.2732	0.3747	0.3418	0.3172	Ave		0.3419			0.3000	14.8		15.0			
trans-1,4-Dichloro-2-butene	0.0534 0.0795	0.0691 0.0864	0.0738	0.0752	0.0773	Ave		0.0735				14.1		15.0			
1,2,3-Trichloropropane	0.1112 0.1019	0.1077 0.1024	0.1148	0.1092	0.1057	Ave		0.1076				4.4		15.0			
Isopropylbenzene	4.2717 3.0143	3.8107 2.4922	3.8575	3.5990	3.3107	Qua	0.9252	3.3463	-0.017478						1.0000		0.9900
Bromobenzene	0.8294 0.6489	0.7878 0.6134	0.7506	0.7261	0.6877	Ave		0.7206				10.6		15.0			
N-Propylbenzene	1.1393 0.8558	1.0288 0.7411	1.0624	0.9884	0.9288	Ave		0.9635				13.9		15.0			
2-Chlorotoluene	0.9732 0.7061	0.8850 0.6398	0.8804	0.8199	0.7651	Ave		0.8099				14.2		15.0			
4-Chlorotoluene	2.7104 2.0496	2.5423 1.8145	2.5296	2.3929	2.2196	Ave		2.3227				13.5		15.0			
1,3,5-Trimethylbenzene	3.5604 2.4237	3.1455 2.0814	3.1326	2.9028	2.6597	Qua	0.9081	2.6357	-0.011474						1.0000		0.9900
tert-Butylbenzene	2.9408 2.0042	2.6637 1.7266	2.6206	2.4066	2.1994	Qua	0.7995	2.1729	-0.009266						1.0000		0.9900
1,2,4-Trimethylbenzene	3.7774 2.5257	3.3827 2.1803	3.3027	3.0473	2.7788	Qua	1.0480	2.7358	-0.011557						1.0000		0.9900
sec-Butylbenzene	4.3345 2.9224	3.8203 2.5407	3.8528	3.5324	3.1897	Qua	1.2140	3.1483	-0.012669						1.0000		0.9900
Benzyl chloride	0.9439 0.7038	0.8476 0.6436	0.8063	0.7630	0.7329	Ave		0.7773				12.8		15.0			
1,3-Dichlorobenzene	1.7779 1.3276	1.6685 1.1834	1.6309	1.5350	1.4343	Ave		1.5082				13.7		15.0			
4-Isopropyltoluene	3.7150 2.3130	3.2757 1.8577	3.2103	2.8945	2.6116	Qua	1.1107	2.5941	-0.015202						1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dichlorobenzene	1.8634 1.2508	1.7641 1.0089	1.7440	1.5395	1.3974	Qua	0.5561	1.3979	-0.008016						1.0000		0.9900
1,2,3-Trimethylbenzene	3.7450 2.5340	3.4328 2.1975	3.3267	3.0873	2.7937	Qua	1.1039	2.7393	-0.011308						1.0000		0.9900
1,2-Dichlorobenzene	1.5367 1.1695	1.4965 1.0569	1.4268	1.3227	1.2502	Ave		1.3228				13.3		15.0			
n-Butylbenzene	3.2423 2.2073	2.7260 1.9309	2.8200	2.5995	2.3868	Lin1	0.9284	2.0457							0.9910		0.9900
1,2-Dibromo-3-Chloropropane	0.0542 0.0624	0.0636 0.0627	0.0669	0.0645	0.0638	Ave		0.0626				6.3		15.0			
1,3,5-Trichlorobenzene	1.1549 0.8515	1.1035 0.7373	1.0860	0.9974	0.9325	Qua	0.2809	0.9240	-0.003855						1.0000		0.9900
1,2,4-Trichlorobenzene	0.6773 0.5630	0.7004 0.4997	0.7137	0.6534	0.6116	Ave		0.6313				12.4		15.0			
Naphthalene	1.1412 0.7895	1.0909 0.7065	1.0737	0.9390	0.8575	Lin1	0.3631	0.7418							0.9920		0.9900
Hexachlorobutadiene	0.2057 0.1502	0.1848 0.1286	0.1976	0.1764	0.1592	Qua	0.0473	0.1622	-0.000693						1.0000		0.9900
1,2,3-Trichlorobenzene	0.4729 0.3522	0.4870 0.3062	0.4795	0.4276	0.3978	Qua	0.1605	0.3830	-0.001605						1.0000		0.9900
Dibromofluoromethane	0.3606 0.2474	0.3226 0.2159	0.3177	0.2845	0.2684	Lin1	0.1076	0.2286							0.9910		0.9900
1,2-Dichloroethane-d4 (Surr)	0.3073 0.1951	0.2687 0.1977	0.2690	0.2392	0.2309	Lin2	0.0500	0.2163							0.9900		0.9900
Toluene-d8 (Surr)	4.2734 2.4242	3.4330	3.3831	3.0157	2.7479	Lin2	0.8124	2.6916							0.9910		0.9900
4-Bromofluorobenzene	1.9959 0.8522	1.1513 0.7779	1.0568	0.9772	0.9159	Lin1	0.5593	0.7947							0.9960		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-292951/2	C11201.D
Level 2	IC 600-292951/3	C11202.D
Level 3	IC 600-292951/4	C11203.D
Level 4	IC 600-292951/5	C11204.D
Level 5	ICIS 600-292951/6	C11205.D
Level 6	IC 600-292951/7	C11206.D
Level 7	IC 600-292951/8	C11207.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	3835 208031	8028 495811	17200	51860	102184	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloromethane	FB	Ave	4187 130089	7108 326318	12382	33239	65928	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Vinyl chloride	FB	Qua	2833 113864	5952 191450	12342	35616	65858	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Butadiene	FB	Ave	3268 145043	6793 273144	13910	41841	78524	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromomethane	FB	Qua	2063 124711	4661 304129	9317	29054	61337	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloroethane	FB	Ave	2846 145319	6532 334400	12897	38259	74462	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dichlorofluoromethane	FB	Ave	7272 355876	15381 821799	30607	90632	180836	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acrolein	FB	Ave	1906 56652	3159 139176	5964	15334	28631	2.50 100	5.00 250	10.0	25.0	50.0
Trichlorofluoromethane	FB	Ave	7372 383012	15847 796455	33632	98759	195076	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acetonitrile	FB	Lin1	2368 74346	4686 172694	10107	18682	38546	5.00 200	10.0 500	20.0	50.0	100
Isopropyl alcohol	FB	Lin2	1496 33255	2229 83398	4531	8948	17185	5.00 200	10.0 500	20.0	50.0	100
Acetone	FB	Lin1	3307 38868	3474 92937	5525	10909	19902	1.00 40.0	2.00 100	4.00	10.0	20.0
Ethyl ether	FB	Ave	4050 131206	7777 301463	15538	35245	70188	0.500 20.0	1.00 50.0	2.00	5.00	10.0
t-Butanol	FB	Ave	2317 66356	4099 164756	8354	19234	37353	5.00 200	10.0 500	20.0	50.0	100
1,1-Dichloroethene	FB	Qua	7341 207355	13300 441472	26184	58394	110390	0.500 20.0	1.00 50.0	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Ave	4826 181095	10115 414940	19985	47242	92903	5.00 200	10.0 500	20.0	50.0	100
Iodomethane	FB	Ave	7468 294320	15990 643249	32719	78727	153366	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methylene Chloride	FB	Lin1	23238 194490	25641 401014	36978	65594	111482	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl acetate	FB	Ave	3275 100627	5774 240483	12454	27968	55216	1.00 40.0	2.00 100	4.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Lin1	6653 191752	10892 404510	23466	52858	97847	0.500 20.0	1.00 50.0	2.00	5.00	10.0
3-Chloro-1-propene	FB	Lin1	4596 137969	8512 303732	17119	39167	73864	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon disulfide	FB	Lin1	24001 581874	37379 1278445	75151	168550	309102	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,2-Dichloroethene	FB	Lin1	8364 229707	14707 498169	28547	64861	123596	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl tert-butyl ether	FB	Lin1	14838 427810	28043 949245	53891	121390	232427	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1-Dichloroethane	FB	Qua	14599 402517	26305 845316	50847	116398	217406	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Propionitrile	FB	Ave	2383 88286	4694 202939	9767	23713	43278	5.00 200	10.0 500	20.0	50.0	100
Vinyl acetate	FB	Ave	13582 465892	25567 1101827	51425	126747	244304	1.00 40.0	2.00 100	4.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Qua	12599 324921	21178 641204	44769	99507	181253	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexane	FB	Qua	12516 285938	20144 517748	42378	89559	160855	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropyl ether	FB	Qua	28658 655958	51734 1226580	98934	213995	381649	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Ave	534 21281	1210 47408	2329	5653	11460	1.00 40.0	2.00 100	4.00	10.0	20.0
Methacrylonitrile	FB	Ave	2888 109237	5844 237276	12385	30508	57432	5.00 200	10.0 500	20.0	50.0	100
cis-1,2-Dichloroethene	FB	Lin1	8276 237546	14931 528224	29130	67019	127040	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acetate	FB	Ave	3783 164317	8500 407755	17059	41357	84189	1.00 40.0	2.00 100	4.00	10.0	20.0
Chlorobromomethane	FB	Ave	2732 86183	5040 175872	10363	24273	48682	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-butyl ethyl ether	FB	Qua	23446 619909	43045 1176845	84922	191467	358982	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chloroform	FB	Qua	13876 349428	24647 710635	47653	106647	195602	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Qua	4922 130466	7674 264002	18125	35722	69641	12.5 500	25.0 1250	50.0	125	250
2,2-Dichloropropane	FB	Qua	14879 405391	24970 858561	50514	117995	217538	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrahydrofuran	FB	Lin1	941 36378	2618 93625	4619	9261	18234	1.00 40.0	2.00 100	4.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	5797 193514	11251 450535	22144	51789	100300	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1-Trichloroethane	FB	Qua	13760 380154	23957 804014	48774	109559	204457	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Qua	10832 320964	18977 678029	38291	92602	170987	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Cyclohexane	FB	Qua	13632 362380	22770 745851	47367	104610	194341	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Qua	11723 332254	20536 692665	41862	95409	177533	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzene	FB	Qua	32899 829308	57379 1644709	112734	250319	461828	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-amyl methyl ether	FB	Lin1	17763 511503	34154 1156082	66244	148304	281546	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isooctane	FB	Qua	26142 679195	43989 1404279	89689	195306	362865	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acrylate	FB	Ave	4851 170909	10395 383910	18311	44019	89710	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Heptane	FB	Qua	10069 296101	18098 608284	37573	82249	155021	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	2156 67738	3633 151702	8146	18504	36384	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Qua	6905 187881	12937 376728	25147	56884	105184	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Nitropropane	FB	Lin2	1710 48066	2754 103116	5623	12198	25778	1.00 40.0	2.00 100	4.00	10.0	20.0
Trichloroethene	FB	Qua	8570 237060	15209 485774	30219	68456	128642	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	8167 257191	15401 568607	30793	71880	136702	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl methacrylate	FB	Ave	5772 188060	10309 423907	20713	49907	99757	1.00 40.0	2.00 100	4.00	10.0	20.0
1,4-Dioxane	FB	Lin2	158 10218	394 25022	922	2465	5076	10.0 400	20.0 1000	40.0	100	200

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Chloroethyl vinyl ether	CBNZ d5	Lin1	325 36661	991 105872	2095	6831	15892	1.00 40.0	2.00 100	4.00	10.0	20.0
Methylcyclohexane	FB	Qua	14866 402195	24861 827050	51366	115779	215395	0.500 20.0	1.00 50.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	9088 289341	16845 648712	33297	77989	151392	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	4242 161253	9167 384211	17145	42181	83599	1.00 40.0	2.00 100	4.00	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	5621 195113	10697 463882	20672	50282	101019	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3297 108132	6267 250784	12470	28734	56147	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	4097 133061	7458 301566	15161	34546	69361	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene	CBNZ d5	Lin2	19162 532838	33360 1109323	66568	151979	288068	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	5546 193174	10998 448109	21791	51537	101128	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Hexanone	CBNZ d5	Ave	2259 97900	4444 241207	11044	23952	49312	1.00 40.0	2.00 100	4.00	10.0	20.0
Dibromochloromethane	CBNZ d5	Ave	3836 140893	7717 333273	15256	36272	71722	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butyl acetate	CBNZ d5	Ave	3654 137177	6895 331970	14376	33515	68265	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	2757 100589	5395 244698	10749	25673	51241	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	5759 178735	10434 375942	21670	49275	94528	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1-Chlorohexane	CBNZ d5	Ave	6680 192133	11505 404408	23291	52851	100430	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	DCBd 4	Ave	6154 187785	11304 411035	22626	52180	99456	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	16828 516010	30837 1112544	61520	141919	274205	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	10574 319107	19364 668625	38559	88995	169402	0.500 20.0	1.00 50.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	24108 694660	42623 1470235	83440	192264	369314	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromoform	CBNZ d5	Ave	1584 60062	2965 156909	6058	14747	30298	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Styrene	CBNZ d5	Ave	16429 524922	29938 1157337	59542	141501	276725	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
o-Xylene	CBNZ d5	Ave	12128 355452	22177 740679	43512	102139	191535	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	2911 82678	5234 192211	10427	23315	44043	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	374 22401	958 60777	2055	5132	10727	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	779 28706	1494 72021	3196	7446	14681	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropylbenzene	DCBd 4	Qua	29927 849203	52857 1753570	107354	245470	459711	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromobenzene	DCBd 4	Ave	5811 182801	10928 431625	20888	49526	95493	0.500 20.0	1.00 50.0	2.00	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	7982 241099	14270 521451	29567	67411	128975	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	6818 198918	12276 450194	24501	55923	106235	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	18989 577417	35263 1276708	70397	163207	308201	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Qua	24944 682821	43631 1464538	87179	197987	369310	0.500 20.0	1.00 50.0	2.00	5.00	10.0
tert-Butylbenzene	DCBd 4	Qua	20603 564638	36947 1214898	72931	164145	305403	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Qua	26464 711561	46921 1534101	91912	207841	385856	0.500 20.0	1.00 50.0	2.00	5.00	10.0
sec-Butylbenzene	DCBd 4	Qua	30367 823323	52991 1787712	107222	240924	442904	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzyl chloride	DCBd 4	Ave	6613 198290	11757 452881	22440	52040	101762	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	12456 374019	23143 832652	45388	104696	199167	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Isopropyltoluene	DCBd 4	Qua	26027 651626	45437 1307102	89342	197421	362639	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCBd 4	Qua	13055 352390	24469 709885	48535	105003	194040	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trimethylbenzene	DCBd 4	Qua	26237 713899	47616 1546246	92582	210568	387924	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	10766 329483	20758 743688	39706	90215	173604	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butylbenzene	DCBd 4	Lin1	22715 621853	37811 1358640	78479	177297	331417	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	380 17571	882 44113	1861	4398	8860	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 292951

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/21/2020 17:33 Calibration End Date: 04/21/2020 20:08 Calibration ID: 18007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,3,5-Trichlorobenzene	DCBd 4	Qua	8091 239884	15307 518780	30222	68028	129478	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	4745 158624	9715 351585	19861	44563	84927	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Naphthalene	DCBd 4	Lin1	7995 222414	15132 497146	29880	64044	119069	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexachlorobutadiene	DCBd 4	Qua	1441 42308	2563 90455	5498	12031	22110	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Qua	3313 99222	6755 215465	13345	29166	55231	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromofluoromethane	FB	Lin1	8186 228718	14327 499462	28367	64838	123061	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Lin2	6976 180399	11935 457203	24019	54529	105897	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene-d8 (Surr)	CBNZ d5	Lin2	32719 797231	52110 1617193	103462	235325	439787	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Bromofluorobenzene	DCBd 4	Lin1	13983 240081	15969 547321	29411	66647	127175	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: ICV 600-292951/1012 Calibration Date: 04/21/2020 21:51

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C11211-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2046	0.2204		10.8	10.0	7.7	50.0
Chloromethane	Ave	0.1506	0.1508	0.1000	10.0	10.0	0.1	30.0
Vinyl chloride	Qua		0.1343		9.60	10.0	-4.0	30.0
Butadiene	Ave	0.1546	0.1690		10.9	10.0	9.3	50.0
Bromomethane	Qua		0.1424		10.6	10.0	6.3	30.0
Chloroethane	Ave	0.1498	0.1634		10.9	10.0	9.1	30.0
Dichlorofluoromethane	Ave	0.3631	0.3976		11.0	10.0	9.5	30.0
Acrolein	Ave	0.0135	0.0104		38.4	50.0	-23.2	50.0
Trichlorofluoromethane	Ave	0.3822	0.4253		11.1	10.0	11.3	30.0
Acetonitrile	Lin1		0.0081		102	100	2.2	30.0
Isopropyl alcohol	Lin2		0.0029		74.3	100	-25.7	50.0
Acetone	Lin1		0.0223		20.3	20.0	1.6	50.0
Ethyl ether	Ave	0.1582	0.1432		9.05	10.0	-9.5	50.0
t-Butanol	Ave	0.0085	0.0078		92.0	100	-8.0	30.0
1,1-Dichloroethene	Qua		0.2363		9.86	10.0	-1.4	30.0
Acrylonitrile	Ave	0.0207	0.0194		93.6	100	-6.4	50.0
Iodomethane	Ave	0.3331	0.3340		10.0	10.0	0.3	30.0
Methylene Chloride	Lin1		0.2422		11.3	10.0	12.6	50.0
Methyl acetate	Ave	0.0621	0.0570		18.4	20.0	-8.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		0.2103		10.8	10.0	8.2	30.0
3-Chloro-1-propene	Lin1		0.1573		10.9	10.0	9.1	30.0
Carbon disulfide	Lin1		0.6856		11.2	10.0	12.4	30.0
trans-1,2-Dichloroethene	Lin1		0.2679		11.2	10.0	12.3	30.0
Methyl tert-butyl ether	Lin1		0.4817		10.7	10.0	6.8	30.0
Propionitrile	Ave	0.0100	0.0092		92.1	100	-7.9	30.0
1,1-Dichloroethane	Qua		0.4726	0.1000	10.1	10.0	0.8	30.0
Vinyl acetate	Ave	0.2728	0.2278		16.7	20.0	-16.5	50.0
2-Chloro-1,3-butadiene	Qua		0.2715		6.72	10.0	-32.8*	30.0
Hexane	Qua		0.3404		9.76	10.0	-2.4	30.0
Isopropyl ether	Qua		0.8274		10.3	10.0	3.0	30.0
2-Butanone (MEK)	Ave	0.0122	0.0121		19.9	20.0	-0.6	50.0
Methacrylonitrile	Ave	0.0125	0.0090		71.9	100	-28.1	30.0
cis-1,2-Dichloroethene	Lin1		0.2746		11.0	10.0	10.1	30.0
Ethyl acetate	Ave	0.0906	0.0833		18.4	20.0	-8.0	30.0
Chlorobromomethane	Ave	0.1045	0.0962		9.20	10.0	-8.0	30.0
Tert-butyl ethyl ether	Qua		0.7526		9.99	10.0	-0.0	30.0
Chloroform	Qua		0.4204		10.1	10.0	1.1	30.0
Isobutyl alcohol	Qua		0.0058		237	250	-5.1	50.0
2,2-Dichloropropane	Qua		0.4556		9.65	10.0	-3.5	30.0
Tetrahydrofuran	Lin1		0.0192		18.8	20.0	-6.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: ICV 600-292951/1012 Calibration Date: 04/21/2020 21:51

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C11211-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.2295	0.2122		9.25	10.0	-7.5	30.0
1,1,1-Trichloroethane	Qua		0.4438		10.1	10.0	0.5	30.0
1,1-Dichloropropene	Qua		0.3715		10.0	10.0	0.0	30.0
Cyclohexane	Qua		0.4205		9.94	10.0	-0.6	50.0
Carbon tetrachloride	Qua		0.3841		9.95	10.0	-0.5	30.0
Benzene	Qua		1.005		10.2	10.0	1.8	30.0
Tert-amyl methyl ether	Lin1		0.5930		10.9	10.0	8.5	30.0
Isooctane	Qua		0.3866		4.57	10.0	-54.3*	30.0
Ethyl acrylate	Ave	0.1989	0.1828		9.19	10.0	-8.1	30.0
n-Heptane	Qua		0.3328		9.72	10.0	-2.8	30.0
Dibromomethane	Ave	0.0811	0.0766		9.45	10.0	-5.5	30.0
1,2-Dichloropropane	Qua		0.2269		10.2	10.0	1.5	30.0
2-Nitropropane	Lin2		0.0199		15.1	20.0	-24.7	30.0
Trichloroethene	Qua		0.2827		10.2	10.0	2.1	30.0
Bromodichloromethane	Ave	0.3127	0.2897		9.26	10.0	-7.4	30.0
Methyl methacrylate	Ave	0.1101	0.0990		18.0	20.0	-10.1	50.0
1,4-Dioxane	Lin2		0.0006		201	200	0.6	50.0
2-Chloroethyl vinyl ether	Lin1		0.0495		19.2	20.0	-4.1	30.0
Methylcyclohexane	Qua		0.4698		10.0	10.0	0.3	30.0
cis-1,3-Dichloropropene	Ave	1.035	0.9335		9.02	10.0	-9.8	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0924	0.0915		19.8	20.0	-1.0	50.0
trans-1,3-Dichloropropene	Ave	0.6639	0.6133		9.24	10.0	-7.6	30.0
1,1,2-Trichloroethane	Ave	0.3832	0.3464		9.04	10.0	-9.6	30.0
Ethyl methacrylate	Ave	0.4672	0.4273		9.15	10.0	-8.5	50.0
Toluene	Lin2		1.819		9.92	10.0	-0.8	30.0
1,3-Dichloropropane	Ave	0.6735	0.6259		9.29	10.0	-7.1	30.0
2-Hexanone	Ave	0.1551	0.1563		20.2	20.0	0.7	50.0
Dibromochloromethane	Ave	0.4749	0.4411		9.29	10.0	-7.1	30.0
n-Butyl acetate	Ave	0.4458	0.4063		9.12	10.0	-8.9	30.0
1,2-Dibromoethane	Ave	0.3370	0.3169		9.40	10.0	-6.0	30.0
Tetrachloroethene	Ave	0.6523	0.5954		9.13	10.0	-8.7	30.0
1-Chlorohexane	Ave	0.7135	0.4428		6.21	10.0	-37.9*	30.0
1,1,1,2-Tetrachloroethane	Ave	0.7483	0.6906		9.23	10.0	-7.7	30.0
Chlorobenzene	Ave	1.890	1.729	0.3000	9.15	10.0	-8.5	30.0
Ethylbenzene	Ave	1.181	1.072		9.08	10.0	-9.2	30.0
m-Xylene & p-Xylene	Ave	2.595	2.332		8.99	10.0	-10.1	30.0
Bromoform	Ave	0.1935	0.1804	0.1000	9.32	10.0	-6.8	30.0
Styrene	Ave	1.867	1.723		9.23	10.0	-7.7	30.0
o-Xylene	Ave	1.342	1.220		9.09	10.0	-9.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3419	0.3001	0.3000	8.78	10.0	-12.2	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0735	0.0693		9.43	10.0	-5.7	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: ICV 600-292951/1012 Calibration Date: 04/21/2020 21:51

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C11211-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.1076	0.0999		9.29	10.0	-7.1	30.0
Isopropylbenzene	Qua		3.252		9.96	10.0	-0.4	30.0
Bromobenzene	Ave	0.7206	0.6694		9.29	10.0	-7.1	30.0
N-Propylbenzene	Ave	0.9635	0.9116		9.46	10.0	-5.4	30.0
2-Chlorotoluene	Ave	0.8099	0.7482		9.24	10.0	-7.6	30.0
4-Chlorotoluene	Ave	2.323	2.186		9.41	10.0	-5.9	30.0
1,3,5-Trimethylbenzene	Qua		2.595		9.93	10.0	-0.7	30.0
tert-Butylbenzene	Qua		2.173		10.1	10.0	0.6	30.0
1,2,4-Trimethylbenzene	Qua		2.742		10.1	10.0	0.7	30.0
sec-Butylbenzene	Qua		3.193		10.2	10.0	1.7	30.0
Benzyl chloride	Ave	0.7773	0.4713		6.06	10.0	-39.4*	30.0
1,3-Dichlorobenzene	Ave	1.508	1.409		9.34	10.0	-6.6	30.0
4-Isopropyltoluene	Qua		2.588		10.2	10.0	1.5	30.0
1,4-Dichlorobenzene	Qua		1.375		10.0	10.0	0.1	30.0
1,2,3-Trimethylbenzene	Qua		1.919		6.79	10.0	-32.1*	30.0
1,2-Dichlorobenzene	Ave	1.323	1.210		9.15	10.0	-8.5	30.0
n-Butylbenzene	Lin1		2.369		11.1	10.0	11.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0626	0.0589		9.41	10.0	-5.9	30.0
1,3,5-Trichlorobenzene	Qua		0.4905		5.11	10.0	-48.9*	30.0
1,2,4-Trichlorobenzene	Ave	0.6313	0.5826		9.23	10.0	-7.7	30.0
Naphthalene	Lin1		0.8070		10.4	10.0	3.9	30.0
Hexachlorobutadiene	Qua		0.1602		10.0	10.0	0.1	30.0
1,2,3-Trichlorobenzene	Qua		0.3676		9.56	10.0	-4.4	30.0
Dibromofluoromethane	Lin1		0.2386		12.6	12.5	0.6	30.0
1,2-Dichloroethane-d4 (Surr)	Lin2		0.1678		9.46	12.5	-24.3	30.0
Toluene-d8 (Surr)	Lin2		2.667		12.1	12.5	-3.3	30.0
4-Bromofluorobenzene	Lin1		0.9774		14.7	12.5	17.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: CCVIS 600-299066/2 Calibration Date: 07/17/2020 10:52

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C19901A.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2046	0.1375		6.72	10.0	-32.8	35.0
Chloromethane	Ave	0.1506	0.1730	0.1000	11.5	10.0	14.8	35.0
Vinyl chloride	Qua		0.1545		11.2	10.0	12.3	20.0
Butadiene	Ave	0.1546	0.1608		10.4	10.0	4.0	35.0
Bromomethane	Qua		0.1873		13.9	10.0	39.4*	35.0
Chloroethane	Ave	0.1498	0.1976		13.2	10.0	31.9	35.0
Dichlorofluoromethane	Ave	0.3631	0.6365		17.5	10.0	75.3*	35.0
Acrolein	Ave	0.0135	0.0083		30.8	50.0	-38.5	50.0
Trichlorofluoromethane	Ave	0.3822	0.6723		17.6	10.0	75.9*	35.0
Acetonitrile	Lin1		0.0093		117	100	17.3	50.0
Isopropyl alcohol	Lin2		0.0059		155	100	55.0*	50.0
Acetone	Lin1		0.0306		28.8	20.0	44.1	50.0
Ethyl ether	Ave	0.1582	0.1466		9.27	10.0	-7.3	35.0
t-Butanol	Ave	0.0085	0.0119		140	100	39.6*	35.0
1,1-Dichloroethene	Qua		0.2401		10.0	10.0	0.3	20.0
Acrylonitrile	Ave	0.0207	0.0238		115	100	14.8	50.0
Iodomethane	Ave	0.3331	0.1676		5.03	10.0	-49.7*	35.0
Methylene Chloride	Lin1		0.2221		10.1	10.0	1.2	50.0
Methyl acetate	Ave	0.0621	0.0660		21.3	20.0	6.3	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		0.2531		13.1	10.0	31.2	35.0
3-Chloro-1-propene	Lin1		0.1420		9.81	10.0	-1.9	35.0
Carbon disulfide	Lin1		0.6862		11.3	10.0	12.5	35.0
trans-1,2-Dichloroethene	Lin1		0.2534		10.6	10.0	6.0	35.0
Methyl tert-butyl ether	Lin1		0.5682		12.7	10.0	26.8	35.0
1,1-Dichloroethane	Qua		0.4743	0.1000	10.1	10.0	1.2	35.0
Propionitrile	Ave	0.0100	0.0106		106	100	5.7	35.0
Vinyl acetate	Ave	0.2728	0.2546		18.7	20.0	-6.7	50.0
2-Chloro-1,3-butadiene	Qua		0.4567		12.0	10.0	20.0	35.0
Hexane	Qua		0.3486		10.0	10.0	0.3	35.0
Isopropyl ether	Qua		0.7160		8.72	10.0	-12.8	35.0
2-Butanone (MEK)	Ave	0.0122	0.0134		22.0	20.0	9.8	50.0
Methacrylonitrile	Ave	0.0125	0.0139		111	100	10.8	35.0
cis-1,2-Dichloroethene	Lin1		0.2486		9.92	10.0	-0.8	35.0
Ethyl acetate	Ave	0.0906	0.0941		20.8	20.0	3.9	35.0
Chlorobromomethane	Ave	0.1045	0.0976		9.34	10.0	-6.6	35.0
Isobutyl alcohol	Qua		0.0072		300	250	20.1	50.0
Tert-butyl ethyl ether	Qua		0.7793		10.4	10.0	3.9	50.0
Chloroform	Qua		0.4853		11.9	10.0	18.7	20.0
2,2-Dichloropropane	Qua		0.5687		12.3	10.0	22.8	35.0
Tetrahydrofuran	Lin1		0.0213		20.9	20.0	4.3	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: CCVIS 600-299066/2 Calibration Date: 07/17/2020 10:52

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C19901A.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.2295	0.2775		12.1	10.0	20.9	35.0
1,1,1-Trichloroethane	Qua		0.5559		12.9	10.0	28.5	35.0
1,1-Dichloropropene	Qua		0.4113		11.2	10.0	11.7	35.0
Cyclohexane	Qua		0.4014		9.45	10.0	-5.5	35.0
Carbon tetrachloride	Qua		0.4934		13.1	10.0	30.8	35.0
Benzene	Qua		1.044		10.6	10.0	6.3	35.0
Tert-amyl methyl ether	Lin1		0.6079		11.1	10.0	11.3	50.0
Isooctane	Qua		0.7620		9.60	10.0	-4.0	35.0
Ethyl acrylate	Ave	0.1989	0.2026		10.2	10.0	1.8	35.0
n-Heptane	Qua		0.3266		9.52	10.0	-4.8	35.0
Dibromomethane	Ave	0.0811	0.0941		11.6	10.0	16.1	35.0
1,2-Dichloropropane	Qua		0.2150		9.56	10.0	-4.4	20.0
2-Nitropropane	Lin2		0.0376		28.9	20.0	44.4*	35.0
Trichloroethene	Qua		0.2857		10.3	10.0	3.2	35.0
Bromodichloromethane	Ave	0.3127	0.3553		11.4	10.0	13.6	35.0
Methyl methacrylate	Ave	0.1101	0.1166		21.2	20.0	5.9	50.0
1,4-Dioxane	Lin2		0.0008		272	200	35.9	50.0
2-Chloroethyl vinyl ether	Lin1		0.0652		25.0	20.0	25.0	35.0
Methylcyclohexane	Qua		0.4468		9.49	10.0	-5.1	35.0
cis-1,3-Dichloropropene	Ave	1.035	0.8509		8.22	10.0	-17.8	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0924	0.1010		21.9	20.0	9.3	50.0
trans-1,3-Dichloropropene	Ave	0.6639	0.6589		9.92	10.0	-0.8	35.0
1,1,2-Trichloroethane	Ave	0.3832	0.3356		8.76	10.0	-12.4	35.0
Ethyl methacrylate	Ave	0.4672	0.4112		8.80	10.0	-12.0	50.0
Toluene	Lin2		1.534		8.33	10.0	-16.7	20.0
1,3-Dichloropropane	Ave	0.6735	0.6014		8.93	10.0	-10.7	35.0
2-Hexanone	Ave	0.1551	0.1562		20.1	20.0	0.7	50.0
Dibromochloromethane	Ave	0.4749	0.4713		9.92	10.0	-0.8	35.0
n-Butyl acetate	Ave	0.4458	0.4017		9.01	10.0	-9.9	35.0
1,2-Dibromoethane	Ave	0.3370	0.3107		9.22	10.0	-7.8	35.0
Tetrachloroethene	Ave	0.6523	0.5694		8.73	10.0	-12.7	35.0
1-Chlorohexane	Ave	0.7135	0.6354		8.91	10.0	-11.0	35.0
1,1,1,2-Tetrachloroethane	Ave	0.7483	0.6214		8.30	10.0	-17.0	35.0
Chlorobenzene	Ave	1.890	1.506	0.3000	7.97	10.0	-20.3	35.0
Ethylbenzene	Ave	1.181	1.046		8.85	10.0	-11.5	20.0
m-Xylene & p-Xylene	Ave	2.595	2.210		8.52	10.0	-14.8	35.0
Bromoform	Ave	0.1935	0.2317	0.1000	12.0	10.0	19.7	35.0
Styrene	Ave	1.867	1.522		8.15	10.0	-18.5	35.0
o-Xylene	Ave	1.342	1.144		8.53	10.0	-14.7	35.0
1,1,2,2-Tetrachloroethane	Ave	0.3419	0.4454	0.3000	13.0	10.0	30.3	35.0
trans-1,4-Dichloro-2-butene	Ave	0.0735	0.0733		9.96	10.0	-0.4	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: CCVIS 600-299066/2 Calibration Date: 07/17/2020 10:52

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C19901A.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.1076	0.1079		10.0	10.0	0.3	35.0
Isopropylbenzene	Qua		2.714		8.18	10.0	-18.2	35.0
Bromobenzene	Ave	0.7206	0.6165		8.56	10.0	-14.4	35.0
N-Propylbenzene	Ave	0.9635	0.7318		7.60	10.0	-24.1	35.0
2-Chlorotoluene	Ave	0.8099	0.6342		7.83	10.0	-21.7	35.0
4-Chlorotoluene	Ave	2.323	2.041		8.79	10.0	-12.1	35.0
1,3,5-Trimethylbenzene	Qua		2.250		8.51	10.0	-14.9	35.0
tert-Butylbenzene	Qua		1.900		8.70	10.0	-13.0	35.0
1,2,4-Trimethylbenzene	Qua		2.396		8.69	10.0	-13.1	35.0
sec-Butylbenzene	Qua		2.787		8.78	10.0	-12.2	35.0
Benzyl chloride	Ave	0.7773	0.8136		10.5	10.0	4.7	35.0
1,3-Dichlorobenzene	Ave	1.508	1.309		8.68	10.0	-13.2	35.0
1,4-Dichlorobenzene	Qua		1.311		9.50	10.0	-5.0	35.0
4-Isopropyltoluene	Qua		2.343		9.09	10.0	-9.1	35.0
1,2,3-Trimethylbenzene	Qua		2.616		9.52	10.0	-4.8	35.0
1,2-Dichlorobenzene	Ave	1.323	1.235		9.34	10.0	-6.6	35.0
n-Butylbenzene	Lin1		2.321		10.9	10.0	8.9	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0626	0.0734		11.7	10.0	17.2	35.0
1,3,5-Trichlorobenzene	Qua		1.244		14.0	10.0	39.7*	35.0
1,2,4-Trichlorobenzene	Ave	0.6313	0.8113		12.9	10.0	28.5	35.0
Naphthalene	Lin1		1.100		14.3	10.0	43.4*	35.0
Hexachlorobutadiene	Qua		0.2056		13.1	10.0	31.2	35.0
1,2,3-Trichlorobenzene	Qua		0.5715		15.5	10.0	55.1*	35.0
Dibromofluoromethane	Lin1		0.2659		11.2	10.0	11.6	35.0
1,2-Dichloroethane-d4 (Surr)	Lin2		0.2472		11.2	10.0	12.0	35.0
Toluene-d8 (Surr)	Lin2		2.281		8.17	10.0	-18.3	35.0
4-Bromofluorobenzene	Lin1		0.7551		8.80	10.0	-12.0	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: CCVIS 600-299088/2 Calibration Date: 07/20/2020 11:15

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C20201.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2046	0.1616		7.90	10.0	-21.0	35.0
Chloromethane	Ave	0.1506	0.1861	0.1000	12.4	10.0	23.6	35.0
Vinyl chloride	Qua		0.1461		10.6	10.0	5.5	20.0
Butadiene	Ave	0.1546	0.1784		11.5	10.0	15.4	35.0
Bromomethane	Qua		0.1883		14.0	10.0	40.1*	35.0
Chloroethane	Ave	0.1498	0.1769		11.8	10.0	18.1	35.0
Dichlorofluoromethane	Ave	0.3631	0.5296		14.6	10.0	45.9*	35.0
Acrolein	Ave	0.0135	0.0069		25.6	50.0	-48.9	50.0
Trichlorofluoromethane	Ave	0.3822	0.6299		16.5	10.0	64.8*	35.0
Acetonitrile	Lin1		0.0073		91.9	100	-8.1	50.0
Isopropyl alcohol	Lin2		0.0038		98.9	100	-1.1	50.0
Acetone	Lin1		0.0193		17.2	20.0	-13.8	50.0
Ethyl ether	Ave	0.1582	0.1362		8.61	10.0	-13.9	35.0
t-Butanol	Ave	0.0085	0.0081		94.4	100	-5.6	35.0
1,1-Dichloroethene	Qua		0.2306		9.60	10.0	-4.0	20.0
Acrylonitrile	Ave	0.0207	0.0173		83.6	100	-16.4	50.0
Iodomethane	Ave	0.3331	0.2142		6.43	10.0	-35.7*	35.0
Methylene Chloride	Lin1		0.2107		9.47	10.0	-5.3	50.0
Methyl acetate	Ave	0.0621	0.0517		16.7	20.0	-16.8	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		0.2438		12.6	10.0	26.2	35.0
3-Chloro-1-propene	Lin1		0.1457		10.1	10.0	0.8	35.0
Carbon disulfide	Lin1		0.7122		11.7	10.0	16.9	35.0
trans-1,2-Dichloroethene	Lin1		0.2467		10.3	10.0	3.0	35.0
Methyl tert-butyl ether	Lin1		0.4673		10.3	10.0	3.4	35.0
1,1-Dichloroethane	Qua		0.4574	0.1000	9.73	10.0	-2.7	35.0
Propionitrile	Ave	0.0100	0.0081		80.9	100	-19.1	35.0
Vinyl acetate	Ave	0.2728	0.2095		15.4	20.0	-23.2	50.0
2-Chloro-1,3-butadiene	Qua		0.4474		11.7	10.0	17.2	35.0
Hexane	Qua		0.3364		9.63	10.0	-3.7	35.0
Isopropyl ether	Qua		0.6651		8.01	10.0	-19.9	35.0
2-Butanone (MEK)	Ave	0.0122	0.0102		16.8	20.0	-15.9	50.0
Methacrylonitrile	Ave	0.0125	0.0109		86.7	100	-13.3	35.0
cis-1,2-Dichloroethene	Lin1		0.2410		9.61	10.0	-3.9	35.0
Ethyl acetate	Ave	0.0906	0.0734		16.2	20.0	-18.9	35.0
Chlorobromomethane	Ave	0.1045	0.0889		8.50	10.0	-15.0	35.0
Tert-butyl ethyl ether	Qua		0.6538		8.53	10.0	-14.7	50.0
Chloroform	Qua		0.4635		11.3	10.0	12.7	20.0
Isobutyl alcohol	Qua		0.0053		217	250	-13.3	50.0
2,2-Dichloropropane	Qua		0.5466		11.8	10.0	17.6	35.0
Tetrahydrofuran	Lin1		0.0170		16.6	20.0	-16.8	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: CCVIS 600-299088/2 Calibration Date: 07/20/2020 11:15

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C20201.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.2295	0.2372		10.3	10.0	3.4	35.0
1,1,1-Trichloroethane	Qua		0.5409		12.5	10.0	24.7	35.0
1,1-Dichloropropene	Qua		0.4001		10.8	10.0	8.4	35.0
Cyclohexane	Qua		0.3988		9.38	10.0	-6.2	35.0
Carbon tetrachloride	Qua		0.4789		12.7	10.0	26.6	35.0
Benzene	Qua		1.005		10.2	10.0	1.9	35.0
Tert-amyl methyl ether	Lin1		0.5015		9.10	10.0	-9.0	50.0
Isooctane	Qua		0.7498		9.43	10.0	-5.7	35.0
Ethyl acrylate	Ave	0.1989	0.1648		8.28	10.0	-17.2	35.0
n-Heptane	Qua		0.3187		9.28	10.0	-7.2	35.0
Dibromomethane	Ave	0.0811	0.0781		9.63	10.0	-3.7	35.0
1,2-Dichloropropane	Qua		0.2118		9.40	10.0	-6.0	20.0
2-Nitropropane	Lin2		0.0263		20.0	20.0	0.1	35.0
Trichloroethene	Qua		0.2752		9.91	10.0	-0.9	35.0
Bromodichloromethane	Ave	0.3127	0.3144		10.1	10.0	0.5	35.0
Methyl methacrylate	Ave	0.1101	0.0922		16.7	20.0	-16.3	50.0
1,4-Dioxane	Lin2		0.0005		181	200	-9.3	50.0
2-Chloroethyl vinyl ether	Lin1		0.0438		17.1	20.0	-14.7	35.0
Methylcyclohexane	Qua		0.4369		9.27	10.0	-7.3	35.0
cis-1,3-Dichloropropene	Ave	1.035	0.7871		7.60	10.0	-24.0	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0924	0.0725		15.7	20.0	-21.5	50.0
trans-1,3-Dichloropropene	Ave	0.6639	0.5653		8.52	10.0	-14.9	35.0
1,1,2-Trichloroethane	Ave	0.3832	0.2861		7.47	10.0	-25.3	35.0
Ethyl methacrylate	Ave	0.4672	0.3243		6.94	10.0	-30.6	50.0
Toluene	Lin2		1.529		8.31	10.0	-16.9	20.0
1,3-Dichloropropane	Ave	0.6735	0.5201		7.72	10.0	-22.8	35.0
2-Hexanone	Ave	0.1551	0.1077		13.9	20.0	-30.6	50.0
Dibromochloromethane	Ave	0.4749	0.4092		8.62	10.0	-13.8	35.0
n-Butyl acetate	Ave	0.4458	0.3041		6.82	10.0	-31.8	35.0
1,2-Dibromoethane	Ave	0.3370	0.2606		7.73	10.0	-22.7	35.0
Tetrachloroethene	Ave	0.6523	0.5686		8.72	10.0	-12.8	35.0
1-Chlorohexane	Ave	0.7135	0.6196		8.68	10.0	-13.2	35.0
1,1,1,2-Tetrachloroethane	Ave	0.7483	0.5705		7.62	10.0	-23.8	35.0
Chlorobenzene	Ave	1.890	1.431	0.3000	7.57	10.0	-24.3	35.0
Ethylbenzene	Ave	1.181	1.112		9.41	10.0	-5.9	20.0
m-Xylene & p-Xylene	Ave	2.595	2.151		8.29	10.0	-17.1	35.0
Bromoform	Ave	0.1935	0.1856	0.1000	9.59	10.0	-4.1	35.0
Styrene	Ave	1.867	1.389		7.44	10.0	-25.6	35.0
o-Xylene	Ave	1.342	0.9800		7.30	10.0	-27.0	35.0
1,1,2,2-Tetrachloroethane	Ave	0.3419	0.3657	0.3000	10.7	10.0	7.0	35.0
trans-1,4-Dichloro-2-butene	Ave	0.0735	0.0579		7.88	10.0	-21.2	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: CCVIS 600-299088/2 Calibration Date: 07/20/2020 11:15

Instrument ID: CHVOAMS01 Calib Start Date: 04/21/2020 17:33

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 04/21/2020 20:08

Lab File ID: C20201.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.1076	0.0865		8.04	10.0	-19.6	35.0
Isopropylbenzene	Qua		2.659		8.01	10.0	-19.9	35.0
Bromobenzene	Ave	0.7206	0.5785		8.03	10.0	-19.7	35.0
N-Propylbenzene	Ave	0.9635	0.7248		7.52	10.0	-24.8	35.0
2-Chlorotoluene	Ave	0.8099	0.6261		7.73	10.0	-22.7	35.0
4-Chlorotoluene	Ave	2.323	1.973		8.49	10.0	-15.1	35.0
1,3,5-Trimethylbenzene	Qua		2.195		8.28	10.0	-17.2	35.0
tert-Butylbenzene	Qua		1.885		8.62	10.0	-13.8	35.0
1,2,4-Trimethylbenzene	Qua		2.295		8.30	10.0	-17.0	35.0
sec-Butylbenzene	Qua		2.772		8.73	10.0	-12.7	35.0
Benzyl chloride	Ave	0.7773	0.6503		8.37	10.0	-16.3	35.0
1,3-Dichlorobenzene	Ave	1.508	1.240		8.22	10.0	-17.8	35.0
4-Isopropyltoluene	Qua		2.320		8.99	10.0	-10.1	35.0
1,4-Dichlorobenzene	Qua		1.228		8.83	10.0	-11.7	35.0
1,2,3-Trimethylbenzene	Qua		2.468		8.94	10.0	-10.6	35.0
1,2-Dichlorobenzene	Ave	1.323	1.110		8.39	10.0	-16.1	35.0
n-Butylbenzene	Lin1		2.228		10.4	10.0	4.4	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0626	0.0547		8.74	10.0	-12.6	35.0
1,3,5-Trichlorobenzene	Qua		1.093		12.1	10.0	21.4	35.0
1,2,4-Trichlorobenzene	Ave	0.6313	0.6085		9.64	10.0	-3.6	35.0
Naphthalene	Lin1		0.7347		9.41	10.0	-5.9	35.0
Hexachlorobutadiene	Qua		0.1838		11.6	10.0	16.1	35.0
1,2,3-Trichlorobenzene	Qua		0.3719		9.69	10.0	-3.2	35.0
Dibromofluoromethane	Lin1		0.2522		10.6	10.0	5.6	35.0
1,2-Dichloroethane-d4 (Surr)	Lin2		0.2181		9.85	10.0	-1.5	35.0
Toluene-d8 (Surr)	Lin2		2.247		8.05	10.0	-19.5	35.0
4-Bromofluorobenzene	Lin1		0.7448		8.67	10.0	-13.3	35.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-299066/6

Matrix: Water Lab File ID: C19905.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 07/17/2020 12:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299066 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		50-134
460-00-4	4-Bromofluorobenzene	96		67-139
1868-53-7	Dibromofluoromethane	101		62-130
2037-26-5	Toluene-d8 (Surr)	82		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-299088/6

Matrix: Water Lab File ID: C20205.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 07/20/2020 13:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299088 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		50-134
460-00-4	4-Bromofluorobenzene	96		67-139
1868-53-7	Dibromofluoromethane	104		62-130
2037-26-5	Toluene-d8 (Surr)	83		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-299066/3

Matrix: Water Lab File ID: C19902.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 07/17/2020 11:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299066 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.009609		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.009557		0.00100	0.000192
71-43-2	Benzene	0.009844		0.00100	0.000176
91-20-3	Naphthalene	0.01587		0.00200	0.000129
127-18-4	Tetrachloroethene	0.008582		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		50-134
460-00-4	4-Bromofluorobenzene	99		67-139
1868-53-7	Dibromofluoromethane	100		62-130
2037-26-5	Toluene-d8 (Surr)	78		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-299088/3

Matrix: Water Lab File ID: C20202.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 07/20/2020 11:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299088 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.009333		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.009306		0.00100	0.000192
71-43-2	Benzene	0.009786		0.00100	0.000176
91-20-3	Naphthalene	0.01102		0.00200	0.000129
127-18-4	Tetrachloroethene	0.008989		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		50-134
460-00-4	4-Bromofluorobenzene	100		67-139
1868-53-7	Dibromofluoromethane	98		62-130
2037-26-5	Toluene-d8 (Surr)	82		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 600-299066/4

Matrix: Water Lab File ID: C19903.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 07/17/2020 11:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299066 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01026		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01023		0.00100	0.000192
71-43-2	Benzene	0.01081		0.00100	0.000176
91-20-3	Naphthalene	0.01672		0.00200	0.000129
127-18-4	Tetrachloroethene	0.009177		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		50-134
460-00-4	4-Bromofluorobenzene	101		67-139
1868-53-7	Dibromofluoromethane	102		62-130
2037-26-5	Toluene-d8 (Surr)	80		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 600-299088/4

Matrix: Water Lab File ID: C20203.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 07/20/2020 12:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299088 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01087		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01073		0.00100	0.000192
71-43-2	Benzene	0.01138		0.00100	0.000176
91-20-3	Naphthalene	0.01329		0.00200	0.000129
127-18-4	Tetrachloroethene	0.009598		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		50-134
460-00-4	4-Bromofluorobenzene	101		67-139
1868-53-7	Dibromofluoromethane	106		62-130
2037-26-5	Toluene-d8 (Surr)	81		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 04/21/2020 17:07

Analysis Batch Number: 292951 End Date: 04/22/2020 04:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-292951/1		04/21/2020 17:07	1	C11200.D	DB-VRX 60 0.25(mm)
IC 600-292951/2		04/21/2020 17:33	1	C11201.D	DB-VRX 60 0.25(mm)
IC 600-292951/3		04/21/2020 17:58	1	C11202.D	DB-VRX 60 0.25(mm)
IC 600-292951/4		04/21/2020 18:24	1	C11203.D	DB-VRX 60 0.25(mm)
IC 600-292951/5		04/21/2020 18:50	1	C11204.D	DB-VRX 60 0.25(mm)
ICIS 600-292951/6		04/21/2020 19:16	1	C11205.D	DB-VRX 60 0.25(mm)
IC 600-292951/7		04/21/2020 19:42	1	C11206.D	DB-VRX 60 0.25(mm)
IC 600-292951/8		04/21/2020 20:08	1	C11207.D	DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 21:25	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 21:51	1		DB-VRX 60 0.25(mm)
ICV 600-292951/1012		04/21/2020 21:51	1	C11211-ICV.d	DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 22:42	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 23:08	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 23:33	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/21/2020 23:59	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 00:25	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 00:50	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 01:16	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 01:41	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 02:07	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 02:33	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 02:58	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 03:24	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 03:49	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 04:15	1		DB-VRX 60 0.25(mm)
ZZZZZ		04/22/2020 04:40	1		DB-VRX 60 0.25(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 07/17/2020 09:44

Analysis Batch Number: 299066 End Date: 07/17/2020 22:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-299066/1		07/17/2020 09:44	1	C19900.D	DB-VRX 60 0.25(mm)
CCVIS 600-299066/2		07/17/2020 10:52	1	C19901A.D	DB-VRX 60 0.25(mm)
LCS 600-299066/3		07/17/2020 11:30	1	C19902.D	DB-VRX 60 0.25(mm)
LCSD 600-299066/4		07/17/2020 11:59	1	C19903.D	DB-VRX 60 0.25(mm)
MB 600-299066/6		07/17/2020 12:57	1	C19905.D	DB-VRX 60 0.25(mm)
600-208199-1		07/17/2020 13:25	1	C19906.D	DB-VRX 60 0.25(mm)
ZZZZZ		07/17/2020 13:54	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/17/2020 14:22	1		DB-VRX 60 0.25(mm)
600-208199-3		07/17/2020 14:50	1	C19909.D	DB-VRX 60 0.25(mm)
600-208199-4		07/17/2020 15:18	1	C19910.D	DB-VRX 60 0.25(mm)
600-208199-5		07/17/2020 15:46	1	C19911.D	DB-VRX 60 0.25(mm)
600-208199-6		07/17/2020 16:14	1	C19912.D	DB-VRX 60 0.25(mm)
600-208199-7		07/17/2020 16:42	1	C19913.D	DB-VRX 60 0.25(mm)
600-208199-2		07/17/2020 17:10	1	C19914.D	DB-VRX 60 0.25(mm)
ZZZZZ		07/17/2020 17:38	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/17/2020 18:06	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/17/2020 18:34	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/17/2020 19:02	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/17/2020 19:29	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/17/2020 19:57	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/17/2020 20:24	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/17/2020 20:52	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/17/2020 21:19	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/17/2020 21:47	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/17/2020 22:14	1		DB-VRX 60 0.25(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 07/20/2020 10:50

Analysis Batch Number: 299088 End Date: 07/20/2020 22:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-299088/1		07/20/2020 10:50	1	C20200.D	DB-VRX 60 0.25(mm)
CCVIS 600-299088/2		07/20/2020 11:15	1	C20201.D	DB-VRX 60 0.25(mm)
LCS 600-299088/3		07/20/2020 11:53	1	C20202.D	DB-VRX 60 0.25(mm)
LCSD 600-299088/4		07/20/2020 12:20	1	C20203.D	DB-VRX 60 0.25(mm)
MB 600-299088/6		07/20/2020 13:13	1	C20205.D	DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 13:41	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 14:11	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 14:40	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 15:08	10		DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 15:36	1		DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 16:03	10		DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 16:30	10		DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 16:58	10		DB-VRX 60 0.25(mm)
600-208199-7		07/20/2020 17:25	1	C20214.D	DB-VRX 60 0.25(mm)
600-208199-5		07/20/2020 17:52	1	C20215.D	DB-VRX 60 0.25(mm)
600-208199-2		07/20/2020 18:19	1	C20216.D	DB-VRX 60 0.25(mm)
600-208199-6		07/20/2020 18:46	1	C20217.D	DB-VRX 60 0.25(mm)
600-208199-6 DL		07/20/2020 19:13	10	C20218.D	DB-VRX 60 0.25(mm)
600-208199-4 DL		07/20/2020 19:40	10	C20219.D	DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 20:07	20		DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 20:34	10		DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 21:00	10		DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 21:27	10		DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 21:54	10		DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 22:20	10		DB-VRX 60 0.25(mm)
ZZZZZ		07/20/2020 22:47	10		DB-VRX 60 0.25(mm)

8260B

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Batch Number: 292951 Batch Start Date: 04/21/20 17:07 Batch Analyst: Vela, Kenneth L

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFB 00307	VOAIS50PPM 00276	VOALCSGASPT 00375	VOALCSPT2T 00085
BFB 600-292951/1		8260B		20 mL	20 mL	2 uL			
IC 600-292951/2		8260B		20 mL	20 mL		5 uL		
IC 600-292951/3		8260B		20 mL	20 mL		5 uL		
IC 600-292951/4		8260B		20 mL	20 mL		5 uL		
IC 600-292951/5		8260B		20 mL	20 mL		5 uL		
ICIS 600-292951/6		8260B		20 mL	20 mL		5 uL		
IC 600-292951/7		8260B		20 mL	20 mL		5 uL		
IC 600-292951/8		8260B		20 mL	20 mL		5 uL		
ICV 600-292951/1012		8260B		20 mL	20 mL		5 uL	4 uL	4 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOASS50PPM 00314	VOASTDGASPT 00375	VOASTDst 00134			
BFB 600-292951/1		8260B							
IC 600-292951/2		8260B			0.2 uL	0.2 uL			
IC 600-292951/3		8260B			0.4 uL	0.4 uL			
IC 600-292951/4		8260B			0.8 uL	0.8 uL			
IC 600-292951/5		8260B			2 uL	2 uL			
ICIS 600-292951/6		8260B			4 uL	4 uL			
IC 600-292951/7		8260B			8 uL	8 uL			
IC 600-292951/8		8260B			20 uL	20 uL			
ICV 600-292951/1012		8260B		5 uL					

Batch Notes	
pH Indicator ID	HC904495

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Batch Number: 299066 Batch Start Date: 07/17/20 09:44 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFB 00314	VOAIS50PPM 00282	VOALCSGASPT 00388
BFB 600-299066/1		8260B		20 mL	20 mL		2 uL		
CCVIS 600-299066/2		8260B		20 mL	20 mL			5 uL	4 uL
LCS 600-299066/3		8260B		20 mL	20 mL			5 uL	
LCSD 600-299066/4		8260B		20 mL	20 mL			5 uL	
MB 600-299066/6		8260B		20 mL	20 mL			5 uL	
600-208199-B-1	Artesia-TB01-071420	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-208199-C-3	Artesia-MW17C-071420	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-208199-C-4	Artesia-MW37-071420	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-208199-C-5	Artesia-MW12-071420	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-208199-C-6	Artesia-MW38-071420	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-208199-C-7	Artesia-MW11-071420	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-208199-C-2	Artesia-MW36-071420	8260B	T	20 mL	20 mL	2 SU		5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00091	VOASS50PPM 00320	VOASTDGASPT 00388	VOASTDst 00140		
BFB 600-299066/1		8260B							
CCVIS 600-299066/2		8260B					4 uL		
LCS 600-299066/3		8260B		4 uL	5 uL	4 uL			
LCSD 600-299066/4		8260B		4 uL	5 uL	4 uL			
MB 600-299066/6		8260B			5 uL				
600-208199-B-1	Artesia-TB01-071420	8260B	T		5 uL				
600-208199-C-3	Artesia-MW17C-071420	8260B	T		5 uL				
600-208199-C-4	Artesia-MW37-071420	8260B	T		5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Batch Number: 299066 Batch Start Date: 07/17/20 09:44 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00091	VOASS50PPM 00320	VOASTDGASPT 00388	VOASTDst 00140		
600-208199-C-5	Artesia-MW12-071420	8260B	T		5 uL				
600-208199-C-6	Artesia-MW38-071420	8260B	T		5 uL				
600-208199-C-7	Artesia-MW11-071420	8260B	T		5 uL				
600-208199-C-2	Artesia-MW36-071420	8260B	T		5 uL				

Batch Notes	
pH Indicator ID	HC904495

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Batch Number: 299088 Batch Start Date: 07/20/20 10:50 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFB 00314	VOAIS50PPM 00282	VOALCSGASPT 00388
BFB 600-299088/1		8260B		20 mL	20 mL		2 uL		
CCVIS 600-299088/2		8260B		20 mL	20 mL			5 uL	4 uL
LCS 600-299088/3		8260B		20 mL	20 mL			5 uL	
LCSD 600-299088/4		8260B		20 mL	20 mL			5 uL	
MB 600-299088/6		8260B		20 mL	20 mL			5 uL	
600-208199-D-7	Artesia-MW11-071420	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-208199-D-5	Artesia-MW12-071420	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-208199-D-2	Artesia-MW36-071420	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-208199-D-6	Artesia-MW38-071420	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-208199-D-6	Artesia-MW38-071420	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-208199-D-4	Artesia-MW37-071420	8260B	T	20 mL	20 mL	2 SU		5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00091	VOASS50PPM 00320	VOASTDGASPT 00388	VOASTDst 00140		
BFB 600-299088/1		8260B							
CCVIS 600-299088/2		8260B					4 uL		
LCS 600-299088/3		8260B		4 uL	5 uL	4 uL			
LCSD 600-299088/4		8260B		4 uL	5 uL	4 uL			
MB 600-299088/6		8260B			5 uL				
600-208199-D-7	Artesia-MW11-071420	8260B	T		5 uL				
600-208199-D-5	Artesia-MW12-071420	8260B	T		5 uL				
600-208199-D-2	Artesia-MW36-071420	8260B	T		5 uL				
600-208199-D-6	Artesia-MW38-071420	8260B	T		5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Batch Number: 299088 Batch Start Date: 07/20/20 10:50 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00091	VOASS50PPM 00320	VOASTDGASPT 00388	VOASTDst 00140		
600-208199-D-6	Artesia-MW38-071420	8260B	T		5 uL				
600-208199-D-4	Artesia-MW37-071420	8260B	T		5 uL				

Batch Notes	
pH Indicator ID	hc904495

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 300.0

Anions (IC) by Method 300.0

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 072120-600-0036430-007.d

Lab ID: LCS 600-299303/7 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Sulfate	20.0	21.57	108	90-110	

Column to be used to flag recovery and RPD values

FORM III 300.0

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab File ID: 072120-600-0036430-006.d Lab Sample ID: MB 600-299303/6

Matrix: Water Date Extracted:

Instrument ID: CHWC17(IC) Date Analyzed: 07/21/2020 11:49

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	CCB 600-299303/5	072120-600-0036430-005.d	07/21/2020 11:38
	LCS 600-299303/7	072120-600-0036430-007.d	07/21/2020 12:00
Artesia-MW36-071420	600-208199-2	072120-600-0036430-013.d	07/21/2020 14:36
Artesia-MW17C-071420	600-208199-3	072120-600-0036430-014.d	07/21/2020 14:47
Artesia-MW37-071420	600-208199-4	072120-600-0036430-015.d	07/21/2020 14:58
	CCB 600-299303/17	072120-600-0036430-017.d	07/21/2020 15:19
Artesia-MW12-071420	600-208199-5	072120-600-0036430-018.d	07/21/2020 15:30
Artesia-MW38-071420	600-208199-6	072120-600-0036430-019.d	07/21/2020 15:41
Artesia-MW11-071420	600-208199-7	072120-600-0036430-020.d	07/21/2020 15:52
	CCB 600-299303/29	072120-600-0036430-029.d	07/21/2020 17:28

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW36-071420 Lab Sample ID: 600-208199-2

Matrix: Water Lab File ID: 072120-600-0036430-013.d

Analysis Method: 300.0 Date Collected: 07/14/2020 12:05

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 07/21/2020 14:36

Con. Extract Vol.: Dilution Factor: 250

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 299303 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	862		125	23.9

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW17C-071420 Lab Sample ID: 600-208199-3

Matrix: Water Lab File ID: 072120-600-0036430-014.d

Analysis Method: 300.0 Date Collected: 07/14/2020 11:45

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 07/21/2020 14:47

Con. Extract Vol.: Dilution Factor: 200

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 299303 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	772		100	19.1

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW37-071420 Lab Sample ID: 600-208199-4

Matrix: Water Lab File ID: 072120-600-0036430-015.d

Analysis Method: 300.0 Date Collected: 07/14/2020 13:05

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 07/21/2020 14:58

Con. Extract Vol.: Dilution Factor: 250

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 299303 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	638		125	23.9

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW12-071420 Lab Sample ID: 600-208199-5

Matrix: Water Lab File ID: 072120-600-0036430-018.d

Analysis Method: 300.0 Date Collected: 07/14/2020 12:47

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 07/21/2020 15:30

Con. Extract Vol.: Dilution Factor: 250

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 299303 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	1680		125	23.9

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW38-071420 Lab Sample ID: 600-208199-6

Matrix: Water Lab File ID: 072120-600-0036430-019.d

Analysis Method: 300.0 Date Collected: 07/14/2020 13:47

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 07/21/2020 15:41

Con. Extract Vol.: Dilution Factor: 250

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 299303 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	1760		125	23.9

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Artesia-MW11-071420 Lab Sample ID: 600-208199-7

Matrix: Water Lab File ID: 072120-600-0036430-020.d

Analysis Method: 300.0 Date Collected: 07/14/2020 13:54

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 07/21/2020 15:52

Con. Extract Vol.: Dilution Factor: 250

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 299303 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	1380		125	23.9

FORM I 300.0

FORM VI

HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA

RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 293464

SDG No.:

Instrument ID: CHWC17(IC) GC Column: AS22 ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2020 05:25 Calibration End Date: 04/29/2020 06:40 Calibration ID: 18020

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-293464/5	CAL042920-600-0035066-005.d
Level 2	IC 600-293464/6	CAL042920-600-0035066-006.d
Level 3	IC 600-293464/7	CAL042920-600-0035066-007.d
Level 4	IC 600-293464/8	CAL042920-600-0035066-008.d
Level 5	IC 600-293464/9	CAL042920-600-0035066-009.d
Level 6	IC 600-293464/10	CAL042920-600-0035066-010.d
Level 7	IC 600-293464/11	CAL042920-600-0035066-011.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Fluoride	2.764	2.351	2.324	2.324	2.344	2.357	2.361				2.207 - 2.507	2.404
Chloride	3.117	3.114	3.114	3.124	3.134	3.147	3.171				3.001 - 3.301	3.132
Bromide	4.384	4.377	4.377	4.381	4.387	4.384	4.381				4.241 - 4.541	4.382
Sulfate	6.917	6.927	6.940	6.974	7.017	7.057	7.127				6.927 - 7.227	6.994

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 293464

SDG No.:

Instrument ID: CHWC17(IC) GC Column: AS22 ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2020 05:25 Calibration End Date: 04/29/2020 06:40 Calibration ID: 18020

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-293464/5	CAL042920-600-0035066-005.d
Level 2	IC 600-293464/6	CAL042920-600-0035066-006.d
Level 3	IC 600-293464/7	CAL042920-600-0035066-007.d
Level 4	IC 600-293464/8	CAL042920-600-0035066-008.d
Level 5	IC 600-293464/9	CAL042920-600-0035066-009.d
Level 6	IC 600-293464/10	CAL042920-600-0035066-010.d
Level 7	IC 600-293464/11	CAL042920-600-0035066-011.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Fluoride	93760925 56400966	69190998 51869071	45374743 49236932	41259987	Lin	3840167.82	50295931.8							0.9930		0.9900
Chloride	30998098 51236638	33945729 51065240	33173059 52732144	39910848	Lin1	-16021681	51879515.9							0.9950		0.9900
Bromide	13123325 25461070	16480520 23746381	13367390 23677812	15939190	Lin	-6855776.4	24667269.4							0.9950		0.9900
Sulfate	25257880 34167263	28619811 34328335	24210970 35854724	30893860	Lin1	-7493205.9	35159374.1							0.9970		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI

HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA

RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1 Analy Batch No.: 293464

SDG No.:

Instrument ID: CHWC17(IC) GC Column: AS22 ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2020 05:25 Calibration End Date: 04/29/2020 06:40 Calibration ID: 18020

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-293464/5	CAL042920-600-0035066-005.d
Level 2	IC 600-293464/6	CAL042920-600-0035066-006.d
Level 3	IC 600-293464/7	CAL042920-600-0035066-007.d
Level 4	IC 600-293464/8	CAL042920-600-0035066-008.d
Level 5	IC 600-293464/9	CAL042920-600-0035066-009.d
Level 6	IC 600-293464/10	CAL042920-600-0035066-010.d
Level 7	IC 600-293464/11	CAL042920-600-0035066-011.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Fluoride	Lin	18752185 389018034	34595499 492369323	45374743	82519973	282004831	0.200 7.50	0.500 10.0	1.00	2.00	5.00
Chloride	Lin1	12399239 1021304806	33945729 2109285770	66346117	199554241	512366376	0.400 20.0	1.00 40.0	2.00	5.00	10.0
Bromide	Lin	2624665 178097859	8240260 236778118	13367390	31878380	127305352	0.200 7.50	0.500 10.0	1.00	2.00	5.00
Sulfate	Lin1	10103152 686566693	28619811 1434188962	48421940	154469300	341672632	0.400 20.0	1.00 40.0	2.00	5.00	10.0

Curve Type Legend:

Lin = Linear
Lin1 = Linear 1/conc

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: CCV 600-299303/4 Calibration Date: 07/21/2020 11:27

Instrument ID: CHWC17(IC) Calib Start Date: 04/29/2020 05:25

GC Column: AS22 ID: 2.00(mm) Calib End Date: 04/29/2020 06:40

Lab File ID: 072120-600-0036430-004.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin		45980599		6.78	7.50	-9.6	10.0
Chloride	Lin1		50813518		19.9	20.0	-0.5	10.0
Bromide	Lin		25070971		7.90	7.50	5.3	10.0
Sulfate	Lin1		37592388		21.6	20.0	8.0	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: CCV 600-299303/4 Calibration Date: 07/21/2020 11:27

Instrument ID: CHWC17(IC) Calib Start Date: 04/29/2020 05:25

GC Column: AS22 ID: 2.00(mm) Calib End Date: 04/29/2020 06:40

Lab File ID: 072120-600-0036430-004.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.34	2.19	2.49
Chloride	2.98	2.83	3.13
Bromide	4.02	3.87	4.17
Sulfate	6.36	6.21	6.51

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: CCV 600-299303/16 Calibration Date: 07/21/2020 15:09

Instrument ID: CHWC17(IC) Calib Start Date: 04/29/2020 05:25

GC Column: AS22 ID: 2.00(mm) Calib End Date: 04/29/2020 06:40

Lab File ID: 072120-600-0036430-016.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin		49676860		7.33	7.50	-2.2	10.0
Chloride	Lin1		50459670		19.8	20.0	-1.2	10.0
Bromide	Lin		24928852		7.86	7.50	4.8	10.0
Sulfate	Lin1		37394087		21.5	20.0	7.4	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: CCV 600-299303/16 Calibration Date: 07/21/2020 15:09

Instrument ID: CHWC17(IC) Calib Start Date: 04/29/2020 05:25

GC Column: AS22 ID: 2.00(mm) Calib End Date: 04/29/2020 06:40

Lab File ID: 072120-600-0036430-016.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.33	2.19	2.49
Chloride	2.97	2.83	3.13
Bromide	4.00	3.87	4.17
Sulfate	6.35	6.21	6.51

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: CCV 600-299303/28 Calibration Date: 07/21/2020 17:18

Instrument ID: CHWC17(IC) Calib Start Date: 04/29/2020 05:25

GC Column: AS22 ID: 2.00(mm) Calib End Date: 04/29/2020 06:40

Lab File ID: 072120-600-0036430-028.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin		50706023		7.49	7.50	-0.2	10.0
Chloride	Lin1		50407049		19.7	20.0	-1.3	10.0
Bromide	Lin		24903272		7.85	7.50	4.7	10.0
Sulfate	Lin1		37075317		21.3	20.0	6.5	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Lab Sample ID: CCV 600-299303/28 Calibration Date: 07/21/2020 17:18

Instrument ID: CHWC17(IC) Calib Start Date: 04/29/2020 05:25

GC Column: AS22 ID: 2.00(mm) Calib End Date: 04/29/2020 06:40

Lab File ID: 072120-600-0036430-028.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.33	2.19	2.49
Chloride	2.96	2.83	3.13
Bromide	3.99	3.87	4.17
Sulfate	6.36	6.21	6.51

Form VII 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-299303/6

Matrix: Water Lab File ID: 072120-600-0036430-006.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 07/21/2020 11:49

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 299303 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-299303/5

Matrix: Water Lab File ID: 072120-600-0036430-005.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 07/21/2020 11:38

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 299303 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-299303/17

Matrix: Water Lab File ID: 072120-600-0036430-017.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 07/21/2020 15:19

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 299303 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-299303/29

Matrix: Water Lab File ID: 072120-600-0036430-029.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 07/21/2020 17:28

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 299303 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-299303/7

Matrix: Water Lab File ID: 072120-600-0036430-007.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 07/21/2020 12:00

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 299303 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	21.57		0.500	0.0957

FORM I 300.0

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Instrument ID: CHWC17(IC) Start Date: 04/29/2020 05:25

Analysis Batch Number: 293464 End Date: 04/29/2020 13:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 600-293464/4		04/29/2020 05:25	1		AS22 2(mm)
IC 600-293464/5		04/29/2020 05:35	1	CAL042920-600-0 035066-005.d	AS22 2(mm)
IC 600-293464/6		04/29/2020 05:46	1	CAL042920-600-0 035066-006.d	AS22 2(mm)
IC 600-293464/7		04/29/2020 05:57	1	CAL042920-600-0 035066-007.d	AS22 2(mm)
IC 600-293464/8		04/29/2020 06:08	1	CAL042920-600-0 035066-008.d	AS22 2(mm)
IC 600-293464/9		04/29/2020 06:18	1	CAL042920-600-0 035066-009.d	AS22 2(mm)
IC 600-293464/10		04/29/2020 06:29	1	CAL042920-600-0 035066-010.d	AS22 2(mm)
IC 600-293464/11		04/29/2020 06:40	1	CAL042920-600-0 035066-011.d	AS22 2(mm)
ICV 600-293464/12		04/29/2020 06:51	1		AS22 2(mm)
ICB 600-293464/13		04/29/2020 07:01	1		AS22 2(mm)
ZZZZZ		04/29/2020 08:49	1		AS22 2(mm)
ZZZZZ		04/29/2020 09:00	1		AS22 2(mm)
ZZZZZ		04/29/2020 09:26	1		AS22 2(mm)
ZZZZZ		04/29/2020 09:37	1		AS22 2(mm)
ZZZZZ		04/29/2020 09:47	1		AS22 2(mm)
ZZZZZ		04/29/2020 09:58	1		AS22 2(mm)
ZZZZZ		04/29/2020 10:09	1		AS22 2(mm)
ZZZZZ		04/29/2020 10:20	1		AS22 2(mm)
ZZZZZ		04/29/2020 10:31	1		AS22 2(mm)
CCV 600-293464/24		04/29/2020 10:52	1		AS22 2(mm)
CCB 600-293464/25		04/29/2020 11:03	1		AS22 2(mm)
ZZZZZ		04/29/2020 11:14	50		AS22 2(mm)
ZZZZZ		04/29/2020 11:25	100		AS22 2(mm)
ZZZZZ		04/29/2020 11:35	20		AS22 2(mm)
ZZZZZ		04/29/2020 11:46	10		AS22 2(mm)
ZZZZZ		04/29/2020 11:57	10		AS22 2(mm)
ZZZZZ		04/29/2020 12:08	10		AS22 2(mm)
ZZZZZ		04/29/2020 12:19	10		AS22 2(mm)
ZZZZZ		04/29/2020 12:29	1		AS22 2(mm)
ZZZZZ		04/29/2020 12:40	100		AS22 2(mm)
ZZZZZ		04/29/2020 12:51	100		AS22 2(mm)
CCV 600-293464/36		04/29/2020 13:02	1		AS22 2(mm)
CCB 600-293464/37		04/29/2020 13:12	1		AS22 2(mm)

300.0

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Instrument ID: CHWC17(IC) Start Date: 07/21/2020 11:27

Analysis Batch Number: 299303 End Date: 07/21/2020 21:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 600-299303/4		07/21/2020 11:27	1	072120-600-0036 430-004.d	AS22 2(mm)
CCB 600-299303/5		07/21/2020 11:38	1	072120-600-0036 430-005.d	AS22 2(mm)
MB 600-299303/6		07/21/2020 11:49	1	072120-600-0036 430-006.d	AS22 2(mm)
LCS 600-299303/7		07/21/2020 12:00	1	072120-600-0036 430-007.d	AS22 2(mm)
ZZZZZ		07/21/2020 13:43	25		AS22 2(mm)
ZZZZZ		07/21/2020 13:53	25		AS22 2(mm)
ZZZZZ		07/21/2020 14:04	25		AS22 2(mm)
ZZZZZ		07/21/2020 14:15	500		AS22 2(mm)
ZZZZZ		07/21/2020 14:25	500		AS22 2(mm)
600-208199-2		07/21/2020 14:36	250	072120-600-0036 430-013.d	AS22 2(mm)
600-208199-3		07/21/2020 14:47	200	072120-600-0036 430-014.d	AS22 2(mm)
600-208199-4		07/21/2020 14:58	250	072120-600-0036 430-015.d	AS22 2(mm)
CCV 600-299303/16		07/21/2020 15:09	1	072120-600-0036 430-016.d	AS22 2(mm)
CCB 600-299303/17		07/21/2020 15:19	1	072120-600-0036 430-017.d	AS22 2(mm)
600-208199-5		07/21/2020 15:30	250	072120-600-0036 430-018.d	AS22 2(mm)
600-208199-6		07/21/2020 15:41	250	072120-600-0036 430-019.d	AS22 2(mm)
600-208199-7		07/21/2020 15:52	250	072120-600-0036 430-020.d	AS22 2(mm)
ZZZZZ		07/21/2020 16:02	100		AS22 2(mm)
ZZZZZ		07/21/2020 16:13	100		AS22 2(mm)
ZZZZZ		07/21/2020 16:24	100		AS22 2(mm)
ZZZZZ		07/21/2020 16:35	100		AS22 2(mm)
ZZZZZ		07/21/2020 16:45	100		AS22 2(mm)
ZZZZZ		07/21/2020 16:56	100		AS22 2(mm)
ZZZZZ		07/21/2020 17:07	100		AS22 2(mm)
CCV 600-299303/28		07/21/2020 17:18	1	072120-600-0036 430-028.d	AS22 2(mm)
CCB 600-299303/29		07/21/2020 17:28	1	072120-600-0036 430-029.d	AS22 2(mm)
ZZZZZ		07/21/2020 17:39	100		AS22 2(mm)
ZZZZZ		07/21/2020 17:50	10		AS22 2(mm)
ZZZZZ		07/21/2020 18:01	10		AS22 2(mm)
ZZZZZ		07/21/2020 18:12	10		AS22 2(mm)
ZZZZZ		07/21/2020 18:23	50		AS22 2(mm)
ZZZZZ		07/21/2020 18:33	50		AS22 2(mm)
ZZZZZ		07/21/2020 18:44	1		AS22 2(mm)
ZZZZZ		07/21/2020 18:55	1		AS22 2(mm)
ZZZZZ		07/21/2020 19:06	50		AS22 2(mm)
ZZZZZ		07/21/2020 19:16	500		AS22 2(mm)
CCV 600-299303/40		07/21/2020 19:27	1		AS22 2(mm)
CCB 600-299303/41		07/21/2020 19:38	1		AS22 2(mm)
ZZZZZ		07/21/2020 19:49	5		AS22 2(mm)

300.0

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Instrument ID: CHWC17(IC) Start Date: 07/21/2020 11:27

Analysis Batch Number: 299303 End Date: 07/21/2020 21:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/21/2020 19:59	5		AS22 2(mm)
ZZZZZ		07/21/2020 20:10	5		AS22 2(mm)
ZZZZZ		07/21/2020 20:21	500		AS22 2(mm)
ZZZZZ		07/21/2020 20:32	500		AS22 2(mm)
CCV 600-299303/48		07/21/2020 20:53	1		AS22 2(mm)
CCB 600-299303/49		07/21/2020 21:04	1		AS22 2(mm)

300.0

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-208199-1

SDG No.:

Batch Number: 299303 Batch Start Date: 07/21/20 11:27 Batch Analyst: Nampitak, Wanida 1

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	CCV 00125	ICV/LCS 00113			
CCV 600-299303/4		300.0		5 mL	5 mL				
CCB 600-299303/5		300.0		5 mL					
MB 600-299303/6		300.0		5 mL					
LCS 600-299303/7		300.0		5 mL		5 mL			
600-208199-A-2	Artesia-MW36-071420	300.0	T	5 mL					
600-208199-A-3	Artesia-MW17C-071420	300.0	T	5 mL					
600-208199-A-4	Artesia-MW37-071420	300.0	T	5 mL					
CCV 600-299303/16		300.0		5 mL	5 mL				
CCB 600-299303/17		300.0		5 mL					
600-208199-A-5	Artesia-MW12-071420	300.0	T	5 mL					
600-208199-A-6	Artesia-MW38-071420	300.0	T	5 mL					
600-208199-A-7	Artesia-MW11-071420	300.0	T	5 mL					
CCV 600-299303/28		300.0		5 mL	5 mL				
CCB 600-299303/29		300.0		5 mL					

Batch Notes	
Eluent 1 ID	063965
Filter ID	16988990

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Released to Imaging: 6/9/2021 9:44:58 AM

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: M. Booth	Lab PM: McDaniel, Bethany A	Carrier Tracking No(s): 1361-5176-7187	COC No: 600-76591-20100.1
Client Contact: John Ynfante	Phone: 262-227-2781	E-Mail: bethany.mcdaniel@testamericainc.com		Page: Page 1 of 1
Company: Jacobs Engineering Group, Inc.				Job #:
Address: 14701 St. Mary's Lane Suite 300	Due Date Requested:			
City: Houston	TAT Requested (days): STD			
State, Zip: TX, 77079				
Phone:	PO #: D3151100 C.CS.TPE.20-04-02			
Email: John.Ynfante@jacobs.com	WO #: D3151100 C.CS.TPE.20-04-02			
Project Name: Dowell - Artesia Groundwater	Project #: 60004334			
Site: Dowell ~~Artesia~~ Schlumberger - Artesia	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Sulfate	8260B_LL - Volatile Organic Compound Custom List(5)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
Artesia-TB01-071420	07/14/20	1030	G	Water	N	N		X		
Artesia-MW36-071420	07/14/20	1205	G	Water	N	N	X	X		
Artesia-MW17C-071420	07/14/20	1145	G	Water	N	N	X	X		Sample bottle ID Missing
Artesia-MW37-071420	07/14/20	1305	G	Water	N	N	X	X		
Artesia-MW12-071420	07/14/20	1247	G	Water	N	N	X	X		
Artesia-MW38-071420	07/14/20	1347	G	Water	N	N	X	X		
Artesia-MW11-071420	07/14/20	1354	G	Water	N	N	X	X		
				Water						
				Water						
				Water						
				Water						

600-208199 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level 3

Special Instructions/QC Requirements: NA

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	7/14/20 1510	Jacobs	[signature]	7/15/20 1017	ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

'20 JUL 15 10:17

Eurofins TestAmerica Houston

Loc: 600
208199

eurofins | Environment Testing TestAmerica

Sample Receipt Checklist

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Jacobs

UNPACKED BY: MP CARRIER/DRIVER: Fedex

Custody Seal Present: ☒YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
7187	X / N	X / N	1.9	678	-0.1	1.8
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				7/15/20
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☒YES ☐NO ☐NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☒YES	☐ NO

COMMENTS:

7/15/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: Jacobs Engineering Group, Inc. Job Number: 600-208199-1

Login Number: 208199 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

eurofins | Environment Testing America

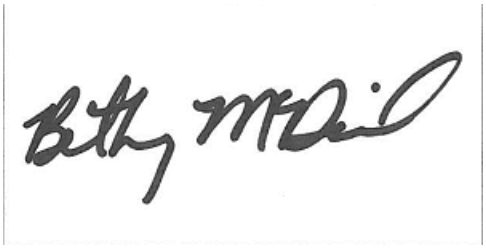
ANALYTICAL REPORT

Job Number: 600-212257-1

Job Description: Dowell - Artesia

For:
Jacobs Engineering Group, Inc.
3721 Rutledge Rd NE
Suite B-1
Albuquerque, NM 87109

Attention: Aleeca Forsberg



Approved for release.
Bethany A McDaniel
Senior Project Manager
10/12/2020 3:36 PM

Bethany A McDaniel, Senior Project Manager
6310 Rothway Street, Houston, TX, 77040
(713)358-2005
Bethany.McDaniel@Eurofinset.com
10/12/2020

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins TestAmerica, Houston
6310 Rothway Street, Houston, TX 77040
Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com

Table of Contents

Cover Title Page 1
Data Summaries 4
Definitions 4
Case Narrative 5
Detection Summary 6
Client Sample Results 9
Default Detection Limits 17
Surrogate Summary 18
QC Sample Results 19
QC Association 23
Chronicle 25
Certification Summary 29
Method Summary 30
Sample Summary 31
Manual Integration Summary 32
Reagent Traceability 44
Organic Sample Data 52
GC/MS VOA 52
Method 8260B Low Level 52
Method 8260B Low Level QC Summary 53
Method 8260B Low Level Sample Data 75
Standards Data 99
Method 8260B Low Level ICAL Data 99
Method 8260B Low Level CCAL Data 111
Raw QC Data 125
Method 8260B Low Level Blank Data 125

Table of Contents

Method 8260B Low Level LCS/LCSD Data 128
Method 8260B Low Level MS/MSD Data 134
Method 8260B Low Level Run Logs 136
Method 8260B Low Level Prep Data 141
HPLC/IC 150
Method 300.0 150
Method 300.0 QC Summary 151
Method 300.0 Sample Data 153
Standards Data 160
Method 300.0 ICAL Data 160
Method 300.0 CCAL Data 163
Raw QC Data 169
Method 300.0 Blank Data 169
Method 300.0 LCS/LCSD Data 173
Method 300.0 Run Logs 174
Method 300.0 Prep Data 176
Shipping and Receiving Documents 177
Client Chain of Custody 178
Sample Receipt Checklist 181

Definitions/Glossary

Client: Jacobs Engineering Group, Inc.
Job ID: 600-212257-1
Project/Site: Dowell - Artesia

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Job Narrative
600-212257-1

Comments
No additional comments.

Receipt
The samples were received on 10/7/2020 10:38 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.8º C and 2.0º C.

GC/MS VOA
Method 8260B: The method blank for analytical batch 600-304980 contained Benzene and Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260B: The method blank for analytical batch 600-305068 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 600-305068 recovered outside control limits for the following analytes: 1,1,-DCA; 1,1,-DCE; Benzene; and Tetrachloroethene..

Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: ARTESIA-MW37-100620 (600-212257-13), ARTESIA-MW38-100620 (600-212257-14) and ARTESIA-MW12-100620 (600-212257-17). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Client Sample ID: ARTESIA-TB03-100520 — Lab Sample ID: 600-212257-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.000145	J B	0.00200	0.000129	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-INLET-100520 — Lab Sample ID: 600-212257-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00357	*1	0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.0115	*1	0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00831	*1	0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-MID-100520 — Lab Sample ID: 600-212257-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.000526	J *1	0.00100	0.000168	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-OUTLET-100520 — Lab Sample ID: 600-212257-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00326		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.00181		0.00100	0.000192	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-MW25-100520 — Lab Sample ID: 600-212257-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00168		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.00194		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00129		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-MW31-100520 — Lab Sample ID: 600-212257-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.000537	J	0.00100	0.000168	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-MW22-100520 — Lab Sample ID: 600-212257-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00111	*1	0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.000239	J *1	0.00100	0.000192	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-MW35-100520 — Lab Sample ID: 600-212257-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.0171		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.0121		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-MW29-100520 — Lab Sample ID: 600-212257-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.0104		0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.0184		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.0184		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-MW28-100520 — Lab Sample ID: 600-212257-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00451		0.00100	0.000168	mg/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Client Sample ID: ARTESIA-MW28-100520 (Continued) — Lab Sample ID: 600-212257-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00882		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00769		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-MW32-100520 — Lab Sample ID: 600-212257-11

No Detections.

Client Sample ID: ARTESIA-MW34-100520 — Lab Sample ID: 600-212257-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00163		0.00100	0.000168	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.000446	J	0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-MW37-100620 — Lab Sample ID: 600-212257-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00446		0.00100	0.000192	mg/L	1		8260B	Total/NA
Benzene	0.00205	B	0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.00313	B	0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00389		0.00100	0.000333	mg/L	1		8260B	Total/NA
1,1-Dichloroethane - DL	0.0547	*1	0.00500	0.000840	mg/L	5		8260B	Total/NA
Sulfate	1540		50.0	9.57	mg/L	100		300.0	Total/NA

Client Sample ID: ARTESIA-MW38-100620 — Lab Sample ID: 600-212257-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00150	*1	0.00100	0.000192	mg/L	1		8260B	Total/NA
Benzene	0.000855	J *1	0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.000866	J B	0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00442	*1	0.00100	0.000333	mg/L	1		8260B	Total/NA
1,1-Dichloroethane - DL	0.0922		0.0100	0.00168	mg/L	10		8260B	Total/NA
Sulfate	1160		50.0	9.57	mg/L	100		300.0	Total/NA

Client Sample ID: ARTESIA-MW17C-100620 — Lab Sample ID: 600-212257-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.000252	J *1	0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.000276	J *1	0.00100	0.000192	mg/L	1		8260B	Total/NA
Naphthalene	0.000190	J B	0.00200	0.000129	mg/L	1		8260B	Total/NA
Sulfate	893		50.0	9.57	mg/L	100		300.0	Total/NA

Client Sample ID: ARTESIA-MW36-100620 — Lab Sample ID: 600-212257-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.0340	*1	0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.000441	J *1	0.00100	0.000192	mg/L	1		8260B	Total/NA
Benzene	0.00934	*1	0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.00503	B	0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00845	*1	0.00100	0.000333	mg/L	1		8260B	Total/NA
Sulfate	849		50.0	9.57	mg/L	100		300.0	Total/NA

Client Sample ID: ARTESIA-MW12-100620 — Lab Sample ID: 600-212257-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00324	*1	0.00100	0.000192	mg/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Client Sample ID: ARTESIA-MW12-100620 (Continued) — Lab Sample ID: 600-212257-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00345	*1	0.00100	0.000176	mg/L	1		8260B	Total/NA
Naphthalene	0.00382	B	0.00200	0.000129	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.000366	J *1	0.00100	0.000333	mg/L	1		8260B	Total/NA
1,1-Dichloroethane - DL	0.0556		0.00500	0.000840	mg/L	5		8260B	Total/NA
Sulfate	887		50.0	9.57	mg/L	100		300.0	Total/NA

Client Sample ID: ARTESIA-MW11-100620 — Lab Sample ID: 600-212257-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00533	*1	0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.000223	J *1	0.00100	0.000192	mg/L	1		8260B	Total/NA
Naphthalene	0.000641	J B	0.00200	0.000129	mg/L	1		8260B	Total/NA
Sulfate	573		50.0	9.57	mg/L	100		300.0	Total/NA

Client Sample ID: ARTESIA-MD11-100620 — Lab Sample ID: 600-212257-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00532	*1	0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.000231	J *1	0.00100	0.000192	mg/L	1		8260B	Total/NA
Naphthalene	0.000185	J B	0.00200	0.000129	mg/L	1		8260B	Total/NA
Sulfate	1360		50.0	9.57	mg/L	100		300.0	Total/NA

Client Sample ID: ARTESIA-MW30-100620 — Lab Sample ID: 600-212257-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00137	*1	0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.00304	*1	0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00325	*1	0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-MD30-100620 — Lab Sample ID: 600-212257-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00132	*1	0.00100	0.000168	mg/L	1		8260B	Total/NA
1,1-Dichloroethene	0.00254	*1	0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00287	*1	0.00100	0.000333	mg/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Job ID: 600-212257-1
Project/Site: Dowell - Artesia

Client Sample ID: ARTESIA-TB03-100520
Lab Sample ID: 600-212257-1
Date Collected: 10/05/20 10:30
Matrix: Water
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U *1	0.00100	0.000168	mg/L			10/08/20 14:00	1
1,1-Dichloroethene	0.000192	U *1	0.00100	0.000192	mg/L			10/08/20 14:00	1
Benzene	0.000176	U *1	0.00100	0.000176	mg/L			10/08/20 14:00	1
Naphthalene	**0.000145**	**J B**	0.00200	0.000129	mg/L			10/08/20 14:00	1
Tetrachloroethene	0.000333	U *1	0.00100	0.000333	mg/L			10/08/20 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*50 - 134*		*10/08/20 14:00*	*1*
4-Bromofluorobenzene	*123*		*67 - 139*		*10/08/20 14:00*	*1*
Dibromofluoromethane	*106*		*62 - 130*		*10/08/20 14:00*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*10/08/20 14:00*	*1*

Client Sample ID: ARTESIA-INLET-100520
Lab Sample ID: 600-212257-2
Date Collected: 10/05/20 10:40
Matrix: Water
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00357**	***1**	0.00100	0.000168	mg/L			10/08/20 14:52	1
1,1-Dichloroethene	**0.0115**	***1**	0.00100	0.000192	mg/L			10/08/20 14:52	1
Benzene	0.000176	U *1	0.00100	0.000176	mg/L			10/08/20 14:52	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			10/08/20 14:52	1
Tetrachloroethene	**0.00831**	***1**	0.00100	0.000333	mg/L			10/08/20 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*50 - 134*		*10/08/20 14:52*	*1*
4-Bromofluorobenzene	*125*		*67 - 139*		*10/08/20 14:52*	*1*
Dibromofluoromethane	*107*		*62 - 130*		*10/08/20 14:52*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/08/20 14:52*	*1*

Client Sample ID: ARTESIA-MID-100520
Lab Sample ID: 600-212257-3
Date Collected: 10/05/20 10:50
Matrix: Water
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.000526**	**J *1**	0.00100	0.000168	mg/L			10/08/20 15:19	1
1,1-Dichloroethene	0.000192	U *1	0.00100	0.000192	mg/L			10/08/20 15:19	1
Benzene	0.000176	U *1	0.00100	0.000176	mg/L			10/08/20 15:19	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			10/08/20 15:19	1
Tetrachloroethene	0.000333	U *1	0.00100	0.000333	mg/L			10/08/20 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*50 - 134*		*10/08/20 15:19*	*1*
4-Bromofluorobenzene	*123*		*67 - 139*		*10/08/20 15:19*	*1*
Dibromofluoromethane	*106*		*62 - 130*		*10/08/20 15:19*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*10/08/20 15:19*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Client Sample ID: ARTESIA-OUTLET-100520

Lab Sample ID: 600-212257-4
Matrix: Water
Date Collected: 10/05/20 11:00
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00326**		0.00100	0.000168	mg/L			10/07/20 19:05	1
1,1-Dichloroethene	**0.00181**		0.00100	0.000192	mg/L			10/07/20 19:05	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			10/07/20 19:05	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			10/07/20 19:05	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			10/07/20 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*50 - 134*		*10/07/20 19:05*	*1*
4-Bromofluorobenzene	*130*		*67 - 139*		*10/07/20 19:05*	*1*
Dibromofluoromethane	*108*		*62 - 130*		*10/07/20 19:05*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/07/20 19:05*	*1*

Client Sample ID: ARTESIA-MW25-100520

Lab Sample ID: 600-212257-5
Matrix: Water
Date Collected: 10/05/20 14:40
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00168**		0.00100	0.000168	mg/L			10/07/20 19:31	1
1,1-Dichloroethene	**0.00194**		0.00100	0.000192	mg/L			10/07/20 19:31	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			10/07/20 19:31	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			10/07/20 19:31	1
Tetrachloroethene	**0.00129**		0.00100	0.000333	mg/L			10/07/20 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*50 - 134*		*10/07/20 19:31*	*1*
4-Bromofluorobenzene	*131*		*67 - 139*		*10/07/20 19:31*	*1*
Dibromofluoromethane	*112*		*62 - 130*		*10/07/20 19:31*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/07/20 19:31*	*1*

Client Sample ID: ARTESIA-MW31-100520

Lab Sample ID: 600-212257-6
Matrix: Water
Date Collected: 10/05/20 15:00
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.000537**	**J**	0.00100	0.000168	mg/L			10/07/20 19:57	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			10/07/20 19:57	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			10/07/20 19:57	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			10/07/20 19:57	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			10/07/20 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*50 - 134*		*10/07/20 19:57*	*1*
4-Bromofluorobenzene	*121*		*67 - 139*		*10/07/20 19:57*	*1*
Dibromofluoromethane	*113*		*62 - 130*		*10/07/20 19:57*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/07/20 19:57*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Client Sample ID: ARTESIA-MW22-100520

Lab Sample ID: 600-212257-7
Matrix: Water
Date Collected: 10/05/20 15:15
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00111**	***1**	0.00100	0.000168	mg/L			10/08/20 14:26	1
1,1-Dichloroethene	**0.000239**	**J *1**	0.00100	0.000192	mg/L			10/08/20 14:26	1
Benzene	0.000176	U *1	0.00100	0.000176	mg/L			10/08/20 14:26	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			10/08/20 14:26	1
Tetrachloroethene	0.000333	U *1	0.00100	0.000333	mg/L			10/08/20 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*50 - 134*		*10/08/20 14:26*	*1*
4-Bromofluorobenzene	*122*		*67 - 139*		*10/08/20 14:26*	*1*
Dibromofluoromethane	*106*		*62 - 130*		*10/08/20 14:26*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*10/08/20 14:26*	*1*

Client Sample ID: ARTESIA-MW35-100520

Lab Sample ID: 600-212257-8
Matrix: Water
Date Collected: 10/05/20 15:30
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.0171**		0.00100	0.000192	mg/L			10/07/20 20:24	1
Tetrachloroethene	**0.0121**		0.00100	0.000333	mg/L			10/07/20 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*50 - 134*		*10/07/20 20:24*	*1*
4-Bromofluorobenzene	*129*		*67 - 139*		*10/07/20 20:24*	*1*
Dibromofluoromethane	*109*		*62 - 130*		*10/07/20 20:24*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*10/07/20 20:24*	*1*

Client Sample ID: ARTESIA-MW29-100520

Lab Sample ID: 600-212257-9
Matrix: Water
Date Collected: 10/05/20 16:10
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.0104**		0.00100	0.000168	mg/L			10/07/20 20:50	1
1,1-Dichloroethene	**0.0184**		0.00100	0.000192	mg/L			10/07/20 20:50	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			10/07/20 20:50	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			10/07/20 20:50	1
Tetrachloroethene	**0.0184**		0.00100	0.000333	mg/L			10/07/20 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*50 - 134*		*10/07/20 20:50*	*1*
4-Bromofluorobenzene	*137*		*67 - 139*		*10/07/20 20:50*	*1*
Dibromofluoromethane	*114*		*62 - 130*		*10/07/20 20:50*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*10/07/20 20:50*	*1*

Client Sample ID: ARTESIA-MW28-100520

Lab Sample ID: 600-212257-10
Matrix: Water
Date Collected: 10/05/20 16:25
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00451**		0.00100	0.000168	mg/L			10/07/20 21:16	1

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Job ID: 600-212257-1
Project/Site: Dowell - Artesia

Client Sample ID: ARTESIA-MW28-100520
Lab Sample ID: 600-212257-10
Date Collected: 10/05/20 16:25
Matrix: Water
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.00882**		0.00100	0.000192	mg/L			10/07/20 21:16	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			10/07/20 21:16	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			10/07/20 21:16	1
Tetrachloroethene	**0.00769**		0.00100	0.000333	mg/L			10/07/20 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*50 - 134*		*10/07/20 21:16*	*1*
4-Bromofluorobenzene	*131*		*67 - 139*		*10/07/20 21:16*	*1*
Dibromofluoromethane	*110*		*62 - 130*		*10/07/20 21:16*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/07/20 21:16*	*1*

Client Sample ID: ARTESIA-MW32-100520
Lab Sample ID: 600-212257-11
Date Collected: 10/05/20 18:10
Matrix: Water
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			10/07/20 21:42	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			10/07/20 21:42	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			10/07/20 21:42	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			10/07/20 21:42	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			10/07/20 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*50 - 134*		*10/07/20 21:42*	*1*
4-Bromofluorobenzene	*132*		*67 - 139*		*10/07/20 21:42*	*1*
Dibromofluoromethane	*113*		*62 - 130*		*10/07/20 21:42*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*10/07/20 21:42*	*1*

Client Sample ID: ARTESIA-MW34-100520
Lab Sample ID: 600-212257-12
Date Collected: 10/05/20 18:25
Matrix: Water
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.00163**		0.00100	0.000168	mg/L			10/07/20 22:08	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			10/07/20 22:08	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			10/07/20 22:08	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			10/07/20 22:08	1
Tetrachloroethene	**0.000446**	**J**	0.00100	0.000333	mg/L			10/07/20 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*50 - 134*		*10/07/20 22:08*	*1*
4-Bromofluorobenzene	*132*		*67 - 139*		*10/07/20 22:08*	*1*
Dibromofluoromethane	*111*		*62 - 130*		*10/07/20 22:08*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/07/20 22:08*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Client Sample ID: ARTESIA-MW37-100620

Lab Sample ID: 600-212257-13
Matrix: Water
Date Collected: 10/06/20 10:00
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00446		0.00100	0.000192	mg/L			10/07/20 22:34	1
Benzene	0.00205	B	0.00100	0.000176	mg/L			10/07/20 22:34	1
Naphthalene	0.00313	B	0.00200	0.000129	mg/L			10/07/20 22:34	1
Tetrachloroethene	0.00389		0.00100	0.000333	mg/L			10/07/20 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*50 - 134*		*10/07/20 22:34*	*1*
4-Bromofluorobenzene	*122*		*67 - 139*		*10/07/20 22:34*	*1*
Dibromofluoromethane	*108*		*62 - 130*		*10/07/20 22:34*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*10/07/20 22:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.0547	*1	0.00500	0.000840	mg/L			10/08/20 18:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*50 - 134*		*10/08/20 18:23*	*5*
4-Bromofluorobenzene	*122*		*67 - 139*		*10/08/20 18:23*	*5*
Dibromofluoromethane	*106*		*62 - 130*		*10/08/20 18:23*	*5*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/08/20 18:23*	*5*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1540		50.0	9.57	mg/L			10/08/20 13:46	100

Client Sample ID: ARTESIA-MW38-100620

Lab Sample ID: 600-212257-14
Matrix: Water
Date Collected: 10/06/20 10:08
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00150	*1	0.00100	0.000192	mg/L			10/08/20 18:49	1
Benzene	0.000855	J *1	0.00100	0.000176	mg/L			10/08/20 18:49	1
Naphthalene	0.000866	J B	0.00200	0.000129	mg/L			10/08/20 18:49	1
Tetrachloroethene	0.00442	*1	0.00100	0.000333	mg/L			10/08/20 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*50 - 134*		*10/08/20 18:49*	*1*
4-Bromofluorobenzene	*123*		*67 - 139*		*10/08/20 18:49*	*1*
Dibromofluoromethane	*109*		*62 - 130*		*10/08/20 18:49*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/08/20 18:49*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.0922		0.0100	0.00168	mg/L			10/09/20 17:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*50 - 134*		*10/09/20 17:41*	*10*
4-Bromofluorobenzene	*119*		*67 - 139*		*10/09/20 17:41*	*10*
Dibromofluoromethane	*98*		*62 - 130*		*10/09/20 17:41*	*10*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/09/20 17:41*	*10*

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Client Sample ID: ARTESIA-MW38-100620
Lab Sample ID: 600-212257-14
Date Collected: 10/06/20 10:08
Matrix: Water
Date Received: 10/07/20 10:38

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1160**		50.0	9.57	mg/L			10/08/20 13:58	100

Client Sample ID: ARTESIA-MW17C-100620
Lab Sample ID: 600-212257-15
Date Collected: 10/06/20 11:30
Matrix: Water
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.000252**	**J *1**	0.00100	0.000168	mg/L			10/08/20 19:15	1
1,1-Dichloroethene	**0.000276**	**J *1**	0.00100	0.000192	mg/L			10/08/20 19:15	1
Benzene	0.000176	U *1	0.00100	0.000176	mg/L			10/08/20 19:15	1
Naphthalene	**0.000190**	**J B**	0.00200	0.000129	mg/L			10/08/20 19:15	1
Tetrachloroethene	0.000333	U *1	0.00100	0.000333	mg/L			10/08/20 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*50 - 134*		*10/08/20 19:15*	*1*
4-Bromofluorobenzene	*125*		*67 - 139*		*10/08/20 19:15*	*1*
Dibromofluoromethane	*103*		*62 - 130*		*10/08/20 19:15*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*10/08/20 19:15*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**893**		50.0	9.57	mg/L			10/08/20 14:09	100

Client Sample ID: ARTESIA-MW36-100620
Lab Sample ID: 600-212257-16
Date Collected: 10/06/20 10:50
Matrix: Water
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.0340**	***1**	0.00100	0.000168	mg/L			10/08/20 19:41	1
1,1-Dichloroethene	**0.000441**	**J *1**	0.00100	0.000192	mg/L			10/08/20 19:41	1
Benzene	**0.00934**	***1**	0.00100	0.000176	mg/L			10/08/20 19:41	1
Naphthalene	**0.00503**	**B**	0.00200	0.000129	mg/L			10/08/20 19:41	1
Tetrachloroethene	**0.00845**	***1**	0.00100	0.000333	mg/L			10/08/20 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*50 - 134*		*10/08/20 19:41*	*1*
4-Bromofluorobenzene	*121*		*67 - 139*		*10/08/20 19:41*	*1*
Dibromofluoromethane	*105*		*62 - 130*		*10/08/20 19:41*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/08/20 19:41*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**849**		50.0	9.57	mg/L			10/08/20 14:21	100

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Client Sample ID: ARTESIA-MW12-100620

Lab Sample ID: 600-212257-17

Date Collected: 10/06/20 12:05
Matrix: Water
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00324	*1	0.00100	0.000192	mg/L			10/08/20 20:07	1
Benzene	0.00345	*1	0.00100	0.000176	mg/L			10/08/20 20:07	1
Naphthalene	0.00382	B	0.00200	0.000129	mg/L			10/08/20 20:07	1
Tetrachloroethene	0.000366	J *1	0.00100	0.000333	mg/L			10/08/20 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*50 - 134*		*10/08/20 20:07*	*1*
4-Bromofluorobenzene	*115*		*67 - 139*		*10/08/20 20:07*	*1*
Dibromofluoromethane	*102*		*62 - 130*		*10/08/20 20:07*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/08/20 20:07*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.0556		0.00500	0.000840	mg/L			10/09/20 18:07	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*50 - 134*		*10/09/20 18:07*	*5*
4-Bromofluorobenzene	*119*		*67 - 139*		*10/09/20 18:07*	*5*
Dibromofluoromethane	*98*		*62 - 130*		*10/09/20 18:07*	*5*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/09/20 18:07*	*5*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	887		50.0	9.57	mg/L			10/08/20 14:56	100

Client Sample ID: ARTESIA-MW11-100620

Lab Sample ID: 600-212257-18

Date Collected: 10/06/20 11:40
Matrix: Water
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.00533	*1	0.00100	0.000168	mg/L			10/08/20 20:33	1
1,1-Dichloroethene	0.000223	J *1	0.00100	0.000192	mg/L			10/08/20 20:33	1
Benzene	0.000176	U *1	0.00100	0.000176	mg/L			10/08/20 20:33	1
Naphthalene	0.000641	J B	0.00200	0.000129	mg/L			10/08/20 20:33	1
Tetrachloroethene	0.000333	U *1	0.00100	0.000333	mg/L			10/08/20 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*50 - 134*		*10/08/20 20:33*	*1*
4-Bromofluorobenzene	*117*		*67 - 139*		*10/08/20 20:33*	*1*
Dibromofluoromethane	*98*		*62 - 130*		*10/08/20 20:33*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*10/08/20 20:33*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	573		50.0	9.57	mg/L			10/08/20 15:08	100

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Client Sample ID: ARTESIA-MD11-100620
Lab Sample ID: 600-212257-19
Date Collected: 10/06/20 11:50
Matrix: Water
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.00532	*1	0.00100	0.000168	mg/L			10/08/20 20:59	1
1,1-Dichloroethene	0.000231	J *1	0.00100	0.000192	mg/L			10/08/20 20:59	1
Benzene	0.000176	U *1	0.00100	0.000176	mg/L			10/08/20 20:59	1
Naphthalene	0.000185	J B	0.00200	0.000129	mg/L			10/08/20 20:59	1
Tetrachloroethene	0.000333	U *1	0.00100	0.000333	mg/L			10/08/20 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*50 - 134*		*10/08/20 20:59*	*1*
4-Bromofluorobenzene	*119*		*67 - 139*		*10/08/20 20:59*	*1*
Dibromofluoromethane	*96*		*62 - 130*		*10/08/20 20:59*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/08/20 20:59*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1360		50.0	9.57	mg/L			10/08/20 15:20	100

Client Sample ID: ARTESIA-MW30-100620
Lab Sample ID: 600-212257-20
Date Collected: 10/06/20 13:40
Matrix: Water
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.00137	*1	0.00100	0.000168	mg/L			10/08/20 21:25	1
1,1-Dichloroethene	0.00304	*1	0.00100	0.000192	mg/L			10/08/20 21:25	1
Benzene	0.000176	U *1	0.00100	0.000176	mg/L			10/08/20 21:25	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			10/08/20 21:25	1
Tetrachloroethene	0.00325	*1	0.00100	0.000333	mg/L			10/08/20 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*50 - 134*		*10/08/20 21:25*	*1*
4-Bromofluorobenzene	*119*		*67 - 139*		*10/08/20 21:25*	*1*
Dibromofluoromethane	*99*		*62 - 130*		*10/08/20 21:25*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*10/08/20 21:25*	*1*

Client Sample ID: ARTESIA-MD30-100620
Lab Sample ID: 600-212257-21
Date Collected: 10/06/20 13:45
Matrix: Water
Date Received: 10/07/20 10:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.00132	*1	0.00100	0.000168	mg/L			10/08/20 21:51	1
1,1-Dichloroethene	0.00254	*1	0.00100	0.000192	mg/L			10/08/20 21:51	1
Benzene	0.000176	U *1	0.00100	0.000176	mg/L			10/08/20 21:51	1
Naphthalene	0.000129	U	0.00200	0.000129	mg/L			10/08/20 21:51	1
Tetrachloroethene	0.00287	*1	0.00100	0.000333	mg/L			10/08/20 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*50 - 134*		*10/08/20 21:51*	*1*
4-Bromofluorobenzene	*124*		*67 - 139*		*10/08/20 21:51*	*1*
Dibromofluoromethane	*100*		*62 - 130*		*10/08/20 21:51*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/08/20 21:51*	*1*

Default Detection Limits

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units
1,1-Dichloroethane	0.00100	0.000168	mg/L
1,1-Dichloroethene	0.00100	0.000192	mg/L
Benzene	0.00100	0.000176	mg/L
Naphthalene	0.00200	0.000129	mg/L
Tetrachloroethene	0.00100	0.000333	mg/L

Method: 300.0 - Anions, Ion Chromatography

Analyte	RL	MDL	Units
Sulfate	0.500	0.0957	mg/L

Surrogate Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (50-134)	BFB (67-139)	DBFM (62-130)	TOL (70-130)
600-212257-1	ARTESIA-TB03-100520	105	123	106	89
600-212257-2	ARTESIA-INLET-100520	112	125	107	87
600-212257-3	ARTESIA-MID-100520	109	123	106	88
600-212257-4	ARTESIA-OUTLET-100520	118	130	108	87
600-212257-5	ARTESIA-MW25-100520	122	131	112	87
600-212257-6	ARTESIA-MW31-100520	120	121	113	87
600-212257-7	ARTESIA-MW22-100520	108	122	106	88
600-212257-7 MS	ARTESIA-MW22-100520	122	123	112	91
600-212257-7 MSD	ARTESIA-MW22-100520	112	123	107	91
600-212257-8	ARTESIA-MW35-100520	117	129	109	85
600-212257-9	ARTESIA-MW29-100520	123	137	114	85
600-212257-10	ARTESIA-MW28-100520	115	131	110	86
600-212257-11	ARTESIA-MW32-100520	121	132	113	88
600-212257-12	ARTESIA-MW34-100520	116	132	111	87
600-212257-13	ARTESIA-MW37-100620	117	122	108	88
600-212257-13 - DL	ARTESIA-MW37-100620	103	122	106	92
600-212257-14	ARTESIA-MW38-100620	105	123	109	92
600-212257-14 - DL	ARTESIA-MW38-100620	88	119	98	92
600-212257-15	ARTESIA-MW17C-100620	99	125	103	90
600-212257-16	ARTESIA-MW36-100620	102	121	105	87
600-212257-17	ARTESIA-MW12-100620	93	115	102	92
600-212257-17 - DL	ARTESIA-MW12-100620	90	119	98	93
600-212257-18	ARTESIA-MW11-100620	90	117	98	91
600-212257-19	ARTESIA-MD11-100620	86	119	96	95
600-212257-20	ARTESIA-MW30-100620	92	119	99	89
600-212257-21	ARTESIA-MD30-100620	94	124	100	93
LCS 600-304980/3	Lab Control Sample	105	127	104	91
LCS 600-305068/3	Lab Control Sample	105	120	104	95
LCS 600-305162/4	Lab Control Sample	102	121	100	89
LCSD 600-304980/4	Lab Control Sample Dup	105	124	104	94
LCSD 600-305068/4	Lab Control Sample Dup	107	120	107	93
LCSD 600-305162/5	Lab Control Sample Dup	105	123	104	92
MB 600-304980/6	Method Blank	103	124	105	89
MB 600-305068/6	Method Blank	99	120	102	90
MB 600-305162/9	Method Blank	97	122	98	90

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-304980/6
Matrix: Water
Analysis Batch: 304980

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			10/07/20 13:21	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			10/07/20 13:21	1
Benzene	0.0009366	J	0.00100	0.000176	mg/L			10/07/20 13:21	1
Naphthalene	0.0003330	J	0.00200	0.000129	mg/L			10/07/20 13:21	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			10/07/20 13:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*50 - 134*		*10/07/20 13:21*	*1*
4-Bromofluorobenzene	*124*		*67 - 139*		*10/07/20 13:21*	*1*
Dibromofluoromethane	*105*		*62 - 130*		*10/07/20 13:21*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*10/07/20 13:21*	*1*

Lab Sample ID: LCS 600-304980/3
Matrix: Water
Analysis Batch: 304980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethane			0.0100	0.01154		mg/L		115	70 - 140		
1,1-Dichloroethene			0.0100	0.01107		mg/L		111	58 - 148		
Benzene			0.0100	0.01105		mg/L		111	70 - 130		
Naphthalene			0.0100	0.006404		mg/L		64	10 - 150		
Tetrachloroethene			0.0100	0.008668		mg/L		87	47 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*50 - 134*
4-Bromofluorobenzene	*127*		*67 - 139*
Dibromofluoromethane	*104*		*62 - 130*
Toluene-d8 (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 600-304980/4
Matrix: Water
Analysis Batch: 304980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0100	0.01130		mg/L		113	70 - 140	2	20
1,1-Dichloroethene			0.0100	0.01114		mg/L		111	58 - 148	1	20
Benzene			0.0100	0.01137		mg/L		114	70 - 130	3	20
Naphthalene			0.0100	0.006932		mg/L		69	10 - 150	8	20
Tetrachloroethene			0.0100	0.009006		mg/L		90	47 - 150	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*50 - 134*
4-Bromofluorobenzene	*124*		*67 - 139*
Dibromofluoromethane	*104*		*62 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-305068/6
Matrix: Water
Analysis Batch: 305068

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			10/08/20 13:33	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			10/08/20 13:33	1
Benzene	0.000176	U	0.00100	0.000176	mg/L			10/08/20 13:33	1
Naphthalene	0.0003493	J	0.00200	0.000129	mg/L			10/08/20 13:33	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			10/08/20 13:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*50 - 134*		*10/08/20 13:33*	*1*
4-Bromofluorobenzene	*120*		*67 - 139*		*10/08/20 13:33*	*1*
Dibromofluoromethane	*102*		*62 - 130*		*10/08/20 13:33*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*10/08/20 13:33*	*1*

Lab Sample ID: LCS 600-305068/3
Matrix: Water
Analysis Batch: 305068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethane			0.0100	0.01146		mg/L		115	70 - 140		
1,1-Dichloroethene			0.0100	0.01087		mg/L		109	58 - 148		
Benzene			0.0100	0.01022		mg/L		102	70 - 130		
Naphthalene			0.0100	0.007258		mg/L		73	10 - 150		
Tetrachloroethene			0.0100	0.009246		mg/L		92	47 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*50 - 134*
4-Bromofluorobenzene	*120*		*67 - 139*
Dibromofluoromethane	*104*		*62 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 600-305068/4
Matrix: Water
Analysis Batch: 305068

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0100	0.008983	*1	mg/L		90	70 - 140	24	20
1,1-Dichloroethene			0.0100	0.008439	*1	mg/L		84	58 - 148	25	20
Benzene			0.0100	0.008169	*1	mg/L		82	70 - 130	22	20
Naphthalene			0.0100	0.006540		mg/L		65	10 - 150	10	20
Tetrachloroethene			0.0100	0.007113	*1	mg/L		71	47 - 150	26	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*50 - 134*
4-Bromofluorobenzene	*120*		*67 - 139*
Dibromofluoromethane	*107*		*62 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 600-212257-7 MS
Matrix: Water
Analysis Batch: 305068

Client Sample ID: ARTESIA-MW22-100520
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.00111	*1	0.0100	0.01403		mg/L		129	70 - 140
1,1-Dichloroethene	0.000239	J *1	0.0100	0.01166		mg/L		114	58 - 148
Benzene	0.000176	U *1	0.0100	0.01122		mg/L		112	70 - 130
Naphthalene	0.000129	U	0.0100	0.006540		mg/L		65	10 - 150
Tetrachloroethene	0.000333	U *1	0.0100	0.009431		mg/L		94	47 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*122*		*50 - 134*
4-Bromofluorobenzene	*123*		*67 - 139*
Dibromofluoromethane	*112*		*62 - 130*
Toluene-d8 (Surr)	*91*		*70 - 130*

Lab Sample ID: 600-212257-7 MSD
Matrix: Water
Analysis Batch: 305068

Client Sample ID: ARTESIA-MW22-100520
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	0.00111	*1	0.0100	0.01316		mg/L		120	70 - 140	6	30
1,1-Dichloroethene	0.000239	J *1	0.0100	0.01107		mg/L		108	58 - 148	5	30
Benzene	0.000176	U *1	0.0100	0.01063		mg/L		106	70 - 130	5	30
Naphthalene	0.000129	U	0.0100	0.006864		mg/L		69	10 - 150	5	30
Tetrachloroethene	0.000333	U *1	0.0100	0.008761		mg/L		88	47 - 150	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*50 - 134*
4-Bromofluorobenzene	*123*		*67 - 139*
Dibromofluoromethane	*107*		*62 - 130*
Toluene-d8 (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 600-305162/9
Matrix: Water
Analysis Batch: 305162

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.000168	U	0.00100	0.000168	mg/L			10/09/20 15:04	1
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			10/09/20 15:04	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			10/09/20 15:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*50 - 134*		*10/09/20 15:04*	*1*
4-Bromofluorobenzene	*122*		*67 - 139*		*10/09/20 15:04*	*1*
Dibromofluoromethane	*98*		*62 - 130*		*10/09/20 15:04*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*10/09/20 15:04*	*1*

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-305162/4
Matrix: Water
Analysis Batch: 305162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethane			0.0100	0.01278		mg/L		128	70 - 140		
1,1-Dichloroethene			0.0100	0.01196		mg/L		120	58 - 148		
Benzene			0.0100	0.01165		mg/L		117	70 - 130		
Tetrachloroethene			0.0100	0.009478		mg/L		95	47 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*50 - 134*
4-Bromofluorobenzene	*121*		*67 - 139*
Dibromofluoromethane	*100*		*62 - 130*
Toluene-d8 (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 600-305162/5
Matrix: Water
Analysis Batch: 305162

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0100	0.01272		mg/L		127	70 - 140	0	20
1,1-Dichloroethene			0.0100	0.01197		mg/L		120	58 - 148	0	20
Benzene			0.0100	0.01155		mg/L		116	70 - 130	1	20
Tetrachloroethene			0.0100	0.009597		mg/L		96	47 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*50 - 134*
4-Bromofluorobenzene	*123*		*67 - 139*
Dibromofluoromethane	*104*		*62 - 130*
Toluene-d8 (Surr)	*92*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-305075/6
Matrix: Water
Analysis Batch: 305075

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.0957	U	0.500	0.0957	mg/L			10/08/20 11:46	1

Lab Sample ID: LCS 600-305075/7
Matrix: Water
Analysis Batch: 305075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			20.0	20.58		mg/L		103	90 - 110		

QC Association Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

GC/MS VOA

Analysis Batch: 304980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-212257-4	ARTESIA-OUTLET-100520	Total/NA	Water	8260B	
600-212257-5	ARTESIA-MW25-100520	Total/NA	Water	8260B	
600-212257-6	ARTESIA-MW31-100520	Total/NA	Water	8260B	
600-212257-8	ARTESIA-MW35-100520	Total/NA	Water	8260B	
600-212257-9	ARTESIA-MW29-100520	Total/NA	Water	8260B	
600-212257-10	ARTESIA-MW28-100520	Total/NA	Water	8260B	
600-212257-11	ARTESIA-MW32-100520	Total/NA	Water	8260B	
600-212257-12	ARTESIA-MW34-100520	Total/NA	Water	8260B	
600-212257-13	ARTESIA-MW37-100620	Total/NA	Water	8260B	
MB 600-304980/6	Method Blank	Total/NA	Water	8260B	
LCS 600-304980/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-304980/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 305068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-212257-1	ARTESIA-TB03-100520	Total/NA	Water	8260B	
600-212257-2	ARTESIA-INLET-100520	Total/NA	Water	8260B	
600-212257-3	ARTESIA-MID-100520	Total/NA	Water	8260B	
600-212257-7	ARTESIA-MW22-100520	Total/NA	Water	8260B	
600-212257-13 - DL	ARTESIA-MW37-100620	Total/NA	Water	8260B	
600-212257-14	ARTESIA-MW38-100620	Total/NA	Water	8260B	
600-212257-15	ARTESIA-MW17C-100620	Total/NA	Water	8260B	
600-212257-16	ARTESIA-MW36-100620	Total/NA	Water	8260B	
600-212257-17	ARTESIA-MW12-100620	Total/NA	Water	8260B	
600-212257-18	ARTESIA-MW11-100620	Total/NA	Water	8260B	
600-212257-19	ARTESIA-MD11-100620	Total/NA	Water	8260B	
600-212257-20	ARTESIA-MW30-100620	Total/NA	Water	8260B	
600-212257-21	ARTESIA-MD30-100620	Total/NA	Water	8260B	
MB 600-305068/6	Method Blank	Total/NA	Water	8260B	
LCS 600-305068/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-305068/4	Lab Control Sample Dup	Total/NA	Water	8260B	
600-212257-7 MS	ARTESIA-MW22-100520	Total/NA	Water	8260B	
600-212257-7 MSD	ARTESIA-MW22-100520	Total/NA	Water	8260B	

Analysis Batch: 305162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-212257-14 - DL	ARTESIA-MW38-100620	Total/NA	Water	8260B	
600-212257-17 - DL	ARTESIA-MW12-100620	Total/NA	Water	8260B	
MB 600-305162/9	Method Blank	Total/NA	Water	8260B	
LCS 600-305162/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-305162/5	Lab Control Sample Dup	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 305075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-212257-13	ARTESIA-MW37-100620	Total/NA	Water	300.0	
600-212257-14	ARTESIA-MW38-100620	Total/NA	Water	300.0	
600-212257-15	ARTESIA-MW17C-100620	Total/NA	Water	300.0	
600-212257-16	ARTESIA-MW36-100620	Total/NA	Water	300.0	
600-212257-17	ARTESIA-MW12-100620	Total/NA	Water	300.0	

QC Association Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

HPLC/IC (Continued)

Analysis Batch: 305075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-212257-18	ARTESIA-MW11-100620	Total/NA	Water	300.0	
600-212257-19	ARTESIA-MD11-100620	Total/NA	Water	300.0	
MB 600-305075/6	Method Blank	Total/NA	Water	300.0	
LCS 600-305075/7	Lab Control Sample	Total/NA	Water	300.0	

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Client Sample ID: ARTESIA-TB03-100520
Lab Sample ID: 600-212257-1
Date Collected: 10/05/20 10:30
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	305068	10/08/20 14:00	YX1	TAL HOU

Client Sample ID: ARTESIA-INLET-100520
Lab Sample ID: 600-212257-2
Date Collected: 10/05/20 10:40
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	305068	10/08/20 14:52	YX1	TAL HOU

Client Sample ID: ARTESIA-MID-100520
Lab Sample ID: 600-212257-3
Date Collected: 10/05/20 10:50
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	305068	10/08/20 15:19	YX1	TAL HOU

Client Sample ID: ARTESIA-OUTLET-100520
Lab Sample ID: 600-212257-4
Date Collected: 10/05/20 11:00
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	304980	10/07/20 19:05	YX1	TAL HOU

Client Sample ID: ARTESIA-MW25-100520
Lab Sample ID: 600-212257-5
Date Collected: 10/05/20 14:40
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	304980	10/07/20 19:31	YX1	TAL HOU

Client Sample ID: ARTESIA-MW31-100520
Lab Sample ID: 600-212257-6
Date Collected: 10/05/20 15:00
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	304980	10/07/20 19:57	YX1	TAL HOU

Client Sample ID: ARTESIA-MW22-100520
Lab Sample ID: 600-212257-7
Date Collected: 10/05/20 15:15
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	305068	10/08/20 14:26	YX1	TAL HOU

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Client Sample ID: ARTESIA-MW35-100520
Lab Sample ID: 600-212257-8
Date Collected: 10/05/20 15:30
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	304980	10/07/20 20:24	YX1	TAL HOU

Client Sample ID: ARTESIA-MW29-100520
Lab Sample ID: 600-212257-9
Date Collected: 10/05/20 16:10
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	304980	10/07/20 20:50	YX1	TAL HOU

Client Sample ID: ARTESIA-MW28-100520
Lab Sample ID: 600-212257-10
Date Collected: 10/05/20 16:25
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	304980	10/07/20 21:16	YX1	TAL HOU

Client Sample ID: ARTESIA-MW32-100520
Lab Sample ID: 600-212257-11
Date Collected: 10/05/20 18:10
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	304980	10/07/20 21:42	YX1	TAL HOU

Client Sample ID: ARTESIA-MW34-100520
Lab Sample ID: 600-212257-12
Date Collected: 10/05/20 18:25
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	304980	10/07/20 22:08	YX1	TAL HOU

Client Sample ID: ARTESIA-MW37-100620
Lab Sample ID: 600-212257-13
Date Collected: 10/06/20 10:00
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	304980	10/07/20 22:34	YX1	TAL HOU
Total/NA	Analysis	8260B	DL	5	305068	10/08/20 18:23	YX1	TAL HOU
Total/NA	Analysis	300.0		100	305075	10/08/20 13:46	W1N	TAL HOU

Client Sample ID: ARTESIA-MW38-100620
Lab Sample ID: 600-212257-14
Date Collected: 10/06/20 10:08
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	305068	10/08/20 18:49	YX1	TAL HOU
Total/NA	Analysis	8260B	DL	10	305162	10/09/20 17:41	KLV	TAL HOU

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Client Sample ID: ARTESIA-MW38-100620
Lab Sample ID: 600-212257-14
Date Collected: 10/06/20 10:08
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100	305075	10/08/20 13:58	W1N	TAL HOU

Client Sample ID: ARTESIA-MW17C-100620
Lab Sample ID: 600-212257-15
Date Collected: 10/06/20 11:30
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	305068	10/08/20 19:15	YX1	TAL HOU
Total/NA	Analysis	300.0		100	305075	10/08/20 14:09	W1N	TAL HOU

Client Sample ID: ARTESIA-MW36-100620
Lab Sample ID: 600-212257-16
Date Collected: 10/06/20 10:50
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	305068	10/08/20 19:41	YX1	TAL HOU
Total/NA	Analysis	300.0		100	305075	10/08/20 14:21	W1N	TAL HOU

Client Sample ID: ARTESIA-MW12-100620
Lab Sample ID: 600-212257-17
Date Collected: 10/06/20 12:05
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	305068	10/08/20 20:07	YX1	TAL HOU
Total/NA	Analysis	8260B	DL	5	305162	10/09/20 18:07	KLV	TAL HOU
Total/NA	Analysis	300.0		100	305075	10/08/20 14:56	W1N	TAL HOU

Client Sample ID: ARTESIA-MW11-100620
Lab Sample ID: 600-212257-18
Date Collected: 10/06/20 11:40
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	305068	10/08/20 20:33	YX1	TAL HOU
Total/NA	Analysis	300.0		100	305075	10/08/20 15:08	W1N	TAL HOU

Client Sample ID: ARTESIA-MD11-100620
Lab Sample ID: 600-212257-19
Date Collected: 10/06/20 11:50
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	305068	10/08/20 20:59	YX1	TAL HOU
Total/NA	Analysis	300.0		100	305075	10/08/20 15:20	W1N	TAL HOU

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Client Sample ID: ARTESIA-MW30-100620
Lab Sample ID: 600-212257-20
Date Collected: 10/06/20 13:40
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	305068	10/08/20 21:25	YX1	TAL HOU

Client Sample ID: ARTESIA-MD30-100620
Lab Sample ID: 600-212257-21
Date Collected: 10/06/20 13:45
Matrix: Water
Date Received: 10/07/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	305068	10/08/20 21:51	YX1	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: Jacobs Engineering Group, Inc.
Job ID: 600-212257-1
Project/Site: Dowell - Artesia

Laboratory: Eurofins TestAmerica, Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	20-052-0	08-04-21
Louisiana	NELAP	01967	06-30-21
Oklahoma	State	2020-033	08-31-21
Texas	NELAP	T104704223-20-26	10-31-20
USDA	US Federal Programs	P330-18-00130	04-30-21

Method Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
5030B	Purge and Trap	SW846	TAL HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-212257-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-212257-1	ARTESIA-TB03-100520	Water	10/05/20 10:30	10/07/20 10:38	
600-212257-2	ARTESIA-INLET-100520	Water	10/05/20 10:40	10/07/20 10:38	
600-212257-3	ARTESIA-MID-100520	Water	10/05/20 10:50	10/07/20 10:38	
600-212257-4	ARTESIA-OUTLET-100520	Water	10/05/20 11:00	10/07/20 10:38	
600-212257-5	ARTESIA-MW25-100520	Water	10/05/20 14:40	10/07/20 10:38	
600-212257-6	ARTESIA-MW31-100520	Water	10/05/20 15:00	10/07/20 10:38	
600-212257-7	ARTESIA-MW22-100520	Water	10/05/20 15:15	10/07/20 10:38	
600-212257-8	ARTESIA-MW35-100520	Water	10/05/20 15:30	10/07/20 10:38	
600-212257-9	ARTESIA-MW29-100520	Water	10/05/20 16:10	10/07/20 10:38	
600-212257-10	ARTESIA-MW28-100520	Water	10/05/20 16:25	10/07/20 10:38	
600-212257-11	ARTESIA-MW32-100520	Water	10/05/20 18:10	10/07/20 10:38	
600-212257-12	ARTESIA-MW34-100520	Water	10/05/20 18:25	10/07/20 10:38	
600-212257-13	ARTESIA-MW37-100620	Water	10/06/20 10:00	10/07/20 10:38	
600-212257-14	ARTESIA-MW38-100620	Water	10/06/20 10:08	10/07/20 10:38	
600-212257-15	ARTESIA-MW17C-100620	Water	10/06/20 11:30	10/07/20 10:38	
600-212257-16	ARTESIA-MW36-100620	Water	10/06/20 10:50	10/07/20 10:38	
600-212257-17	ARTESIA-MW12-100620	Water	10/06/20 12:05	10/07/20 10:38	
600-212257-18	ARTESIA-MW11-100620	Water	10/06/20 11:40	10/07/20 10:38	
600-212257-19	ARTESIA-MD11-100620	Water	10/06/20 11:50	10/07/20 10:38	
600-212257-20	ARTESIA-MW30-100620	Water	10/06/20 13:40	10/07/20 10:38	
600-212257-21	ARTESIA-MD30-100620	Water	10/06/20 13:45	10/07/20 10:38	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-212257-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 302094

Lab Sample ID: IC 600-302094/2 Client Sample ID:

Date Analyzed: 08/26/20 11:15 Lab File ID: C23901.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.24	Peak assignment corrected	xiey	08/26/20 11:38
Chloroethane	5.02	Peak assignment corrected	xiey	08/26/20 11:38
Acetonitrile	5.58	Poor chromatography	xiey	08/26/20 11:38
Isopropyl alcohol	5.59	Poor chromatography	xiey	08/26/20 11:38
Acetone	5.66	Poor chromatography	xiey	08/26/20 11:38
t-Butanol	6.02	Poor chromatography	xiey	08/26/20 11:38
Iodomethane	6.07	Poor chromatography	xiey	08/26/20 11:39
Methyl acetate	6.15	Poor chromatography	xiey	08/26/20 11:39
trans-1,2-Dichloroethene	6.67	Poor chromatography	xiey	08/26/20 11:39
1,1-Dichloroethane	6.87	Poor chromatography	xiey	08/26/20 11:39
Vinyl acetate	6.93	Poor chromatography	xiey	08/26/20 11:39
Isopropyl ether	7.15	Poor chromatography	xiey	08/26/20 11:39
cis-1,2-Dichloroethene	7.31	Poor chromatography	xiey	08/26/20 11:39
Ethyl acetate	7.39	Poor chromatography	xiey	08/26/20 11:40
Isobutyl alcohol	7.45	Peak assignment corrected	xiey	08/26/20 13:19
Dibromofluoromethane	7.56	Poor chromatography	xiey	08/26/20 11:40
Tetrahydrofuran	7.71	Poor chromatography	xiey	08/26/20 11:40
1,2-Dichloroethane-d4 (Surr)	7.91	Poor chromatography	xiey	08/26/20 11:41
Dibromomethane	8.80	Poor chromatography	xiey	08/26/20 11:41
cis-1,3-Dichloropropene	9.37	Poor chromatography	xiey	08/26/20 11:42
4-Methyl-2-pentanone (MIBK)	9.44	Poor chromatography	xiey	08/26/20 11:41
trans-1,3-Dichloropropene	9.74	Poor chromatography	xiey	08/26/20 11:42
1,1,2-Trichloroethane	9.91	Poor chromatography	xiey	08/26/20 11:42
Bromoform	12.08	Poor chromatography	xiey	08/26/20 11:43
1,1,2,2-Tetrachloroethane	12.33	Poor chromatography	xiey	08/26/20 11:43
1,2,3-Trichloropropane	12.48	Poor chromatography	xiey	08/26/20 11:45
1,2-Dibromo-3-Chloropropane	14.94	Poor chromatography	xiey	08/26/20 11:45
1,2,3-Trichlorobenzene	16.92	Poor chromatography	xiey	08/26/20 11:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-212257-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 302094

Lab Sample ID: IC 600-302094/3 Client Sample ID:

Date Analyzed: 08/26/20 11:42 Lab File ID: C23902.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.24	Peak assignment corrected	xiey	08/26/20 12:02
Acetone	5.65	Poor chromatography	xiey	08/26/20 12:04
t-Butanol	6.03	Poor chromatography	xiey	08/26/20 12:04
Methyl acetate	6.15	Poor chromatography	xiey	08/26/20 12:04
trans-1,2-Dichloroethene	6.67	Poor chromatography	xiey	08/26/20 12:04
Propionitrile	6.88	Poor chromatography	xiey	08/26/20 12:07
2-Butanone (MEK)	7.18	Poor chromatography	xiey	08/26/20 12:07
cis-1,2-Dichloroethene	7.31	Poor chromatography	xiey	08/26/20 12:04
Isobutyl alcohol	7.46	Poor chromatography	xiey	08/26/20 12:07
Tetrahydrofuran	7.72	Poor chromatography	xiey	08/26/20 12:05
1,2-Dichloroethane-d4 (Surr)	7.90	Poor chromatography	xiey	08/26/20 12:05
Ethyl acrylate	8.68	Poor chromatography	xiey	08/26/20 12:05
Dibromomethane	8.80	Poor chromatography	xiey	08/26/20 12:05
1,4-Dioxane	8.95	Poor chromatography	xiey	08/26/20 12:25
2-Chloroethyl vinyl ether	9.15	Poor chromatography	xiey	08/26/20 12:08
1,1,2-Trichloroethane	9.90	Poor chromatography	xiey	08/26/20 12:05
2-Hexanone	10.22	Poor chromatography	xiey	08/26/20 12:08
1,2,3-Trichloropropane	12.49	Poor chromatography	xiey	08/26/20 12:06
trans-1,4-Dichloro-2-butene	12.51	Poor chromatography	xiey	08/26/20 12:08
1,2-Dibromo-3-Chloropropane	14.92	Poor chromatography	xiey	08/26/20 12:06
1,2,3-Trichlorobenzene	16.91	Poor chromatography	xiey	08/26/20 12:06

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-212257-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 302094

Lab Sample ID: IC 600-302094/4 Client Sample ID:

Date Analyzed: 08/26/20 12:08 Lab File ID: C23903.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.24	Poor chromatography	xiey	08/26/20 13:15
Isobutyl alcohol	7.46	Poor chromatography	xiey	08/26/20 13:15
1,2-Dichloroethane-d4 (Surr)	7.90	Poor chromatography	xiey	08/26/20 13:15
1,2-Dichloroethane	7.96	Split Peak	xiey	08/26/20 13:18
Ethyl acrylate	8.68	Poor chromatography	xiey	08/26/20 13:15
Dibromomethane	8.79	Poor chromatography	xiey	08/26/20 13:15
2-Chloroethyl vinyl ether	9.15	Poor chromatography	xiey	08/26/20 13:14
1,2,3-Trichloropropane	12.48	Poor chromatography	xiey	08/26/20 13:14

Lab Sample ID: IC 600-302094/5 Client Sample ID:

Date Analyzed: 08/26/20 12:35 Lab File ID: C23904.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	08/26/20 13:13
Dibromomethane	8.79	Peak assignment corrected	xiey	08/26/20 13:13

Lab Sample ID: ICIS 600-302094/6 Client Sample ID:

Date Analyzed: 08/26/20 13:02 Lab File ID: C23905.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.45	Peak assignment corrected	xiey	08/26/20 14:37
Dibromomethane	8.79	Peak assignment corrected	xiey	08/26/20 14:37

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-212257-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 302094

Lab Sample ID: IC 600-302094/7 Client Sample ID:

Date Analyzed: 08/26/20 13:29 Lab File ID: C23906.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	08/26/20 13:52

Lab Sample ID: IC 600-302094/8 Client Sample ID:

Date Analyzed: 08/26/20 13:55 Lab File ID: C23907.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Split Peak	xiey	08/26/20 14:22
Chlorobenzene-d5	11.47	Split Peak	xiey	08/26/20 14:22

Lab Sample ID: ICV 600-302094/1010 Client Sample ID:

Date Analyzed: 08/26/20 14:49 Lab File ID: C23909-ICV.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	08/26/20 15:21
Dibromomethane	8.79	Peak assignment corrected	xiey	08/26/20 15:21

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-212257-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 304980

Lab Sample ID: CCVIS 600-304980/2 Client Sample ID:

Date Analyzed: 10/07/20 11:26 Lab File ID: C28101.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	10/07/20 11:53
Dibromomethane	8.79	Peak assignment corrected	xiey	10/07/20 11:53

Lab Sample ID: 600-212257-5 Client Sample ID: ARTESIA-MW25-100520

Date Analyzed: 10/07/20 19:31 Lab File ID: C28118.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	6.86	Peak assignment corrected	xiey	10/08/20 09:40

Lab Sample ID: 600-212257-6 Client Sample ID: ARTESIA-MW31-100520

Date Analyzed: 10/07/20 19:57 Lab File ID: C28119.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	6.87	Peak assignment corrected	xiey	10/08/20 09:41

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-212257-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 305068

Lab Sample ID: CCVIS 600-305068/2 Client Sample ID:

Date Analyzed: 10/08/20 11:36 Lab File ID: C28201A.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.45	Peak assignment corrected	xiey	10/08/20 12:37
Dibromomethane	8.78	Peak assignment corrected	xiey	10/08/20 12:37

Lab Sample ID: 600-212257-7 Client Sample ID: ARTESIA-MW22-100520

Date Analyzed: 10/08/20 14:26 Lab File ID: C28207.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene		Invalid Compound ID	xiey	10/08/20 15:06

Lab Sample ID: 600-212257-15 Client Sample ID: ARTESIA-MW17C-100620

Date Analyzed: 10/08/20 19:15 Lab File ID: C28218.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	6.86	Peak assignment corrected	velak	10/09/20 10:32
Tetrachloroethene	10.81	Incomplete Integration	velak	10/09/20 10:33

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-212257-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 305162

Lab Sample ID: CCVIS 600-305162/2 Client Sample ID:

Date Analyzed: 10/09/20 11:50 Lab File ID: C28301.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	5.57	Peak assignment corrected	velak	10/09/20 12:23
Isobutyl alcohol	7.45	Peak assignment corrected	velak	10/09/20 12:23
Dibromomethane	8.78	Peak assignment corrected	velak	10/09/20 12:23

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-212257-1

SDG No.:

Instrument ID: CHWC17(IC) Analysis Batch Number: 304038

Lab Sample ID: IC 600-304038/5 Client Sample ID:

Date Analyzed: 09/23/20 09:47 Lab File ID: CAL092320-600-0037473-005 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.36	Incomplete Integration	watsond	09/23/20 11:28
Chloride	3.06	Incomplete Integration	watsond	09/23/20 10:12
Bromide	4.30	Incomplete Integration	watsond	09/23/20 10:13
Sulfate	6.88	Incomplete Integration	watsond	09/23/20 10:13

Lab Sample ID: IC 600-304038/6 Client Sample ID:

Date Analyzed: 09/23/20 09:59 Lab File ID: CAL092320-600-0037473-006 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	4.26	Peak assignment corrected	watsond	09/23/20 11:23
Sulfate	6.80	Peak assignment corrected	watsond	09/23/20 11:23

Lab Sample ID: IC 600-304038/7 Client Sample ID:

Date Analyzed: 09/23/20 10:11 Lab File ID: CAL092320-600-0037473-007 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.35	Peak assignment corrected	watsond	09/23/20 11:24
Bromide	4.39	Peak assignment corrected	watsond	09/23/20 11:24
Sulfate	7.00	Peak assignment corrected	watsond	09/23/20 11:24

Lab Sample ID: IC 600-304038/8 Client Sample ID:

Date Analyzed: 09/23/20 10:22 Lab File ID: CAL092320-600-0037473-008 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	4.27	Peak assignment corrected	watsond	09/23/20 11:24
Sulfate	6.84	Peak assignment corrected	watsond	09/23/20 11:24

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-212257-1

SDG No.:

Instrument ID: CHWC17(IC) Analysis Batch Number: 304038

Lab Sample ID: IC 600-304038/9 Client Sample ID:

Date Analyzed: 09/23/20 10:34 Lab File ID: CAL092320-600-0037473-009 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	4.41	Peak assignment corrected	watsond	09/23/20 11:24
Sulfate	7.10	Peak assignment corrected	watsond	09/23/20 11:24

Lab Sample ID: IC 600-304038/10 Client Sample ID:

Date Analyzed: 09/23/20 10:46 Lab File ID: CAL092320-600-0037473-010 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.35	Incomplete Integration	watsond	09/23/20 11:32
Chloride	3.12	Incomplete Integration	watsond	09/23/20 11:29
Bromide	4.35	Incomplete Integration	watsond	09/23/20 11:34
Sulfate	7.00	Peak assignment corrected	watsond	09/23/20 11:25

Lab Sample ID: IC 600-304038/11 Client Sample ID:

Date Analyzed: 09/23/20 10:58 Lab File ID: CAL092320-600-0037473-011 GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.38	Incomplete Integration	watsond	09/23/20 11:30
Bromide	4.38	Peak assignment corrected	watsond	09/23/20 11:25
Sulfate	7.11	Peak assignment corrected	watsond	09/23/20 11:25

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-212257-1

SDG No.:

Instrument ID: CHWC17(IC) Analysis Batch Number: 305075

Lab Sample ID: CCV 600-305075/4 Client Sample ID:

Date Analyzed: 10/08/20 11:22 Lab File ID: 100820-600-0037706-004.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	2.95	Peak assignment corrected	nguyendt	10/08/20 12:26
Bromide	3.92	Peak assignment corrected	nguyendt	10/08/20 12:26
Sulfate	6.51	Peak assignment corrected	nguyendt	10/08/20 12:26

Lab Sample ID: LCS 600-305075/7 Client Sample ID:

Date Analyzed: 10/08/20 11:58 Lab File ID: 100820-600-0037706-007.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	6.48	Peak assignment corrected	nguyendt	10/08/20 12:27

Lab Sample ID: 600-212257-13 Client Sample ID: ARTESIA-MW37-100620

Date Analyzed: 10/08/20 13:46 Lab File ID: 100820-600-0037706-012.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	6.46	Peak assignment corrected	nampitakw	10/12/20 13:26

Lab Sample ID: 600-212257-14 Client Sample ID: ARTESIA-MW38-100620

Date Analyzed: 10/08/20 13:58 Lab File ID: 100820-600-0037706-013.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	6.47	Peak assignment corrected	nampitakw	10/12/20 13:26

Lab Sample ID: 600-212257-15 Client Sample ID: ARTESIA-MW17C-100620

Date Analyzed: 10/08/20 14:09 Lab File ID: 100820-600-0037706-014.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	6.43	Peak assignment corrected	nampitakw	10/12/20 13:26

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-212257-1

SDG No.:

Instrument ID: CHWC17(IC) Analysis Batch Number: 305075

Lab Sample ID: 600-212257-16 Client Sample ID: ARTESIA-MW36-100620

Date Analyzed: 10/08/20 14:21 Lab File ID: 100820-600-0037706-015.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	6.45	Baseline Smoothing	nampitakw	10/12/20 13:27

Lab Sample ID: CCV 600-305075/16 Client Sample ID:

Date Analyzed: 10/08/20 14:33 Lab File ID: 100820-600-0037706-016.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	2.93	Peak assignment corrected	nguyendt	10/09/20 11:09
Bromide	3.89	Peak assignment corrected	nguyendt	10/09/20 11:09
Sulfate	6.49	Peak assignment corrected	nguyendt	10/09/20 11:09

Lab Sample ID: 600-212257-17 Client Sample ID: ARTESIA-MW12-100620

Date Analyzed: 10/08/20 14:56 Lab File ID: 100820-600-0037706-018.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	6.45	Peak assignment corrected	nampitakw	10/12/20 13:27

Lab Sample ID: 600-212257-18 Client Sample ID: ARTESIA-MW11-100620

Date Analyzed: 10/08/20 15:08 Lab File ID: 100820-600-0037706-019.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	6.44	Peak assignment corrected	nampitakw	10/12/20 13:28

Lab Sample ID: 600-212257-19 Client Sample ID: ARTESIA-MD11-100620

Date Analyzed: 10/08/20 15:20 Lab File ID: 100820-600-0037706-020.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	6.46	Peak assignment corrected	nampitakw	10/12/20 13:28

300.0

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-212257-1

SDG No.:

Instrument ID: CHWC17(IC) Analysis Batch Number: 305075

Lab Sample ID: CCV 600-305075/28 Client Sample ID:

Date Analyzed: 10/08/20 16:54 Lab File ID: 100820-600-0037706-028.d GC Column: AS22 ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromide	3.94	Peak assignment corrected	nguyendt	10/09/20 11:10
Sulfate	6.56	Peak assignment corrected	nguyendt	10/09/20 11:10

300.0

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
BFB_00317							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21	Restek, Lot A0120567			(Purchased Reagent)		BFB	2000 ug/mL
BFB_00320							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21	Restek, Lot A0120567			(Purchased Reagent)		BFB	2000 ug/mL
CCV_00128	11/15/20	09/22/20	DI WATER, Lot NONE	500 mL	WETSICCSO4_00017	10 mL	Sulfate	20 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD2_00056	11/03/20	09/16/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	20 uL	Bromide	0.2 mg/L
					WETSICCCL_00028	40 uL	Chloride	0.4 mg/L
					WETSICCFL_00014	20 uL	Fluoride	0.2 mg/L
					WETSICCSO4_00017	40 uL	Sulfate	0.4 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00028	11/04/23	INORGANIC-VENTURE, Lot P2-CL638977			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD3_00048	11/03/20	09/16/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	50 uL	Bromide	0.5 mg/L
					WETSICCCL_00028	100 uL	Chloride	1 mg/L
					WETSICCFL_00014	50 uL	Fluoride	0.5 mg/L
					WETSICCSO4_00017	100 uL	Sulfate	1 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00028	11/04/23	INORGANIC-VENTURE, Lot P2-CL638977			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD4_00047	11/03/20	09/16/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	100 uL	Bromide	1 mg/L
					WETSICCCL_00028	200 uL	Chloride	2 mg/L
					WETSICCFL_00014	100 uL	Fluoride	1 mg/L
					WETSICCSO4_00017	200 uL	Sulfate	2 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00028	11/04/23	INORGANIC-VENTURE, Lot P2-CL638977			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ICCALSTD5_00049	11/03/20	09/16/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	200 uL	Bromide	2 mg/L
					WETSICCCL_00028	500 uL	Chloride	5 mg/L
					WETSICCFL_00014	200 uL	Fluoride	2 mg/L
					WETSICCSO4_00017	500 uL	Sulfate	5 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00028	11/04/23	INORGANIC-VENTURE, Lot P2-CL638977			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD6_00044	11/03/20	09/16/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	500 uL	Bromide	5 mg/L
					WETSICCCL_00028	1 mL	Chloride	10 mg/L
					WETSICCFL_00014	500 uL	Fluoride	5 mg/L
					WETSICCSO4_00017	1 mL	Sulfate	10 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00028	11/04/23	INORGANIC-VENTURE, Lot P2-CL638977			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD7_00047	11/03/20	09/16/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	750 uL	Bromide	7.5 mg/L
					WETSICCCL_00028	2 mL	Chloride	20 mg/L
					WETSICCFL_00014	750 uL	Fluoride	7.5 mg/L
					WETSICCSO4_00017	2 mL	Sulfate	20 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00028	11/04/23	INORGANIC-VENTURE, Lot P2-CL638977			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICCALSTD8_00035	11/03/20	09/16/20	DI WATER, Lot NONE	100 mL	WETSICCBRO_00014	1 mL	Bromide	10 mg/L
					WETSICCCL_00028	4 mL	Chloride	40 mg/L
					WETSICCFL_00014	1 mL	Fluoride	10 mg/L
					WETSICCSO4_00017	4 mL	Sulfate	40 mg/L
.WETSICCBRO_00014	03/08/23	INORGANIC VENTURES, Lot P2-BR675946			(Purchased Reagent)		Bromide	1000 mg/L
.WETSICCCL_00028	11/04/23	INORGANIC-VENTURE, Lot P2-CL638977			(Purchased Reagent)		Chloride	1000 mg/L
.WETSICCFL_00014	11/03/20	Accustandard, Lot 218105011			(Purchased Reagent)		Fluoride	1000 mg/L
.WETSICCSO4_00017	03/15/24	INORGANIC-VENTURE, Lot R2-SOX689601			(Purchased Reagent)		Sulfate	1000 mg/L
ICV/LCS_00114	10/11/20	09/16/20	DI WATER, Lot NONE	500 mL	WETSICISO4_00013	10 mL	Sulfate	20 mg/L
.WETSICISO4_00013	03/05/22	ACCUSTANDARD, Lot 220025001			(Purchased Reagent)		Sulfate	1000 mg/L
VOAIS50PPM_00285	09/07/20	08/24/20	Methanol, Lot V081320A	1 mL	VOA3IS_00031	20 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VOA3IS_00031	06/30/23	Restek, Lot A0138856			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VOAIS50PPM_00289	10/20/20	10/06/20	Methanol, Lot V081320A	1 mL	VOA3IS_00043	20 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VOA3IS_00043	04/30/25	Restek, Lot A0160049			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VOALCSPT2T_00094	09/07/20	08/24/20	Methanol, Lot V081320A	1 mL	VOALMegMi2017_00004	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00004	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOALCSPT2T_00097	10/20/20	10/06/20	Methanol, Lot V081320A	1 mL	VOALMegMi2017_00006	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00006	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOASS50PPM_00323	09/07/20	08/24/20	Methanol, Lot V081320A	1 mL	VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASS50PPM_00327	10/20/20	10/06/20	Methanol, Lot V081320A	1 mL	VOARSS_00025	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00025	01/31/25		Restek, Lot A0156891		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASTDGASPT_00396	09/01/20	08/25/20	Methanol, Lot V100919A	1 mL	VOARGAS_00021	20 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VOARGAS_00021	11/30/22		Restek, Lot A0154679		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VOASTDst_00143	09/07/20	08/24/20	Methanol, Lot V081320A	1 mL	VOAMegMix2017_00006	20 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VOAR2CEVE_00014	40 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VOARAcroleinS_00007	12.5 uL	Acrolein	250 ug/mL
					VOARADD4COM_00011	20 uL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VOARADDCOM_00019	20 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
					VOARKETONDup_00003	8 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	100 ug/mL
					VOARPOLADD_00014	20 uL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					VOARVASTD_00009	20 uL	Vinyl acetate	100 ug/mL
.VOAMegMix2017_00006	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.VOAR2CEVE_00014	12/31/20		Restek, Lot A0133302		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcroleinS_00007	04/30/21		Restek, Lot A0154578		(Purchased Reagent)		Acrolein	20000 ug/mL
.VOARADD4COM_00011	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VOARADDCOM_00019	05/31/21		Restek, Lot A0154734		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
.VOARKETONDup_00003	09/30/22		RESTEK, Lot A0152956		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARPOLADD_00014	01/31/21		Restek, Lot A0144915		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.VOARVASTD_00009	07/31/21		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VOASTDst_00146	10/20/20	10/06/20	Methanol, Lot V081320A	1 mL	VOAMegMix2017_00010	20 uL	1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							Benzene	50 ug/mL
							Naphthalene	50 ug/mL
							Tetrachloroethene	50 ug/mL
					VOARSS_00025	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOAMegMix2017_00010	10/31/22		Restek, Lot A0159680		(Purchased Reagent)		1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							Benzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
.VOARSS_00025	01/31/25		Restek, Lot A0156891		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL

Method 8260B Low Level

Volatile Organic Compounds (GC/MS) by Method 8260B Low Level

Released to Imaging: 6/9/2021 9:44:58 AM

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-VRX 60 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ARTESIA-TB03-100520	600-212257-1	106	105	89	123
ARTESIA-INLET-100520	600-212257-2	107	112	87	125
ARTESIA-MID-100520	600-212257-3	106	109	88	123
ARTESIA-OUTLET-100520	600-212257-4	108	118	87	130
ARTESIA-MW25-100520	600-212257-5	112	122	87	131
ARTESIA-MW31-100520	600-212257-6	113	120	87	121
ARTESIA-MW22-100520	600-212257-7	106	108	88	122
ARTESIA-MW35-100520	600-212257-8	109	117	85	129
ARTESIA-MW29-100520	600-212257-9	114	123	85	137
ARTESIA-MW28-100520	600-212257-10	110	115	86	131
ARTESIA-MW32-100520	600-212257-11	113	121	88	132
ARTESIA-MW34-100520	600-212257-12	111	116	87	132
ARTESIA-MW37-100620	600-212257-13	108	117	88	122
ARTESIA-MW37-100620 DL	600-212257-13 DL	106	103	92	122
ARTESIA-MW38-100620	600-212257-14	109	105	92	123
ARTESIA-MW38-100620 DL	600-212257-14 DL	98	88	92	119
ARTESIA-MW17C-100620	600-212257-15	103	99	90	125
ARTESIA-MW36-100620	600-212257-16	105	102	87	121
ARTESIA-MW12-100620	600-212257-17	102	93	92	115
ARTESIA-MW12-100620 DL	600-212257-17 DL	98	90	93	119
ARTESIA-MW11-100620	600-212257-18	98	90	91	117
ARTESIA-MD11-100620	600-212257-19	96	86	95	119
ARTESIA-MW30-100620	600-212257-20	99	92	89	119
ARTESIA-MD30-100620	600-212257-21	100	94	93	124
	MB 600-304980/6	105	103	89	124

	QC LIMITS
DBFM = Dibromofluoromethane	62-130
DCA = 1,2-Dichloroethane-d4 (Surr)	50-134
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	67-139

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-VRX 60 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	MB 600-305068/6	102	99	90	120
	MB 600-305162/9	98	97	90	122
	LCS 600-304980/3	104	105	91	127
	LCS 600-305068/3	104	105	95	120
	LCS 600-305162/4	100	102	89	121
	LCSD 600-304980/4	104	105	94	124
	LCSD 600-305068/4	107	107	93	120
	LCSD 600-305162/5	104	105	92	123
ARTESIA-MW22-100520 MS	600-212257-7 MS	112	122	91	123
ARTESIA-MW22-100520 MSD	600-212257-7 MSD	107	112	91	123

	QC LIMITS
DBFM = Dibromofluoromethane	62-130
DCA = 1,2-Dichloroethane-d4 (Surr)	50-134
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	67-139

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C28102.D

Lab ID: LCS 600-304980/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.01154	115	70-140	
1,1-Dichloroethene	0.0100	0.01107	111	58-148	
Benzene	0.0100	0.01105	111	70-130	
Naphthalene	0.0100	0.006404	64	10-150	
Tetrachloroethene	0.0100	0.008668	87	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C28202.D

Lab ID: LCS 600-305068/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.01146	115	70-140	
1,1-Dichloroethene	0.0100	0.01087	109	58-148	
Benzene	0.0100	0.01022	102	70-130	
Naphthalene	0.0100	0.007258	73	10-150	
Tetrachloroethene	0.0100	0.009246	92	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C28303.D

Lab ID: LCS 600-305162/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.01278	128	70-140	
1,1-Dichloroethene	0.0100	0.01196	120	58-148	
Benzene	0.0100	0.01165	117	70-130	
Tetrachloroethene	0.0100	0.009478	95	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C28103.D

Lab ID: LCSD 600-304980/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.01130	113	2	20	70-140	
1,1-Dichloroethene	0.0100	0.01114	111	1	20	58-148	
Benzene	0.0100	0.01137	114	3	20	70-130	
Naphthalene	0.0100	0.006932	69	8	20	10-150	
Tetrachloroethene	0.0100	0.009006	90	4	20	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C28203.D

Lab ID: LCSD 600-305068/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.008983	90	24	20	70-140	*1
1,1-Dichloroethene	0.0100	0.008439	84	25	20	58-148	*1
Benzene	0.0100	0.008169	82	22	20	70-130	*1
Naphthalene	0.0100	0.006540	65	10	20	10-150	
Tetrachloroethene	0.0100	0.007113	71	26	20	47-150	*1

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C28304.D

Lab ID: LCSD 600-305162/5 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.01272	127	0	20	70-140	
1,1-Dichloroethene	0.0100	0.01197	120	0	20	58-148	
Benzene	0.0100	0.01155	116	1	20	70-130	
Tetrachloroethene	0.0100	0.009597	96	1	20	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C28214.D

Lab ID: 600-212257-7 MS Client ID: ARTESIA-MW22-100520 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.00111	0.01403	129	70-140	
1,1-Dichloroethene	0.0100	0.000239 J	0.01166	114	58-148	
Benzene	0.0100	0.000176 U	0.01122	112	70-130	
Naphthalene	0.0100	0.000129 U	0.006540	65	10-150	
Tetrachloroethene	0.0100	0.000333 U	0.009431	94	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C28215.D

Lab ID: 600-212257-7 MSD Client ID: ARTESIA-MW22-100520 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	0.0100	0.01316	120	6	30	70-140	
1,1-Dichloroethene	0.0100	0.01107	108	5	30	58-148	
Benzene	0.0100	0.01063	106	5	30	70-130	
Naphthalene	0.0100	0.006864	69	5	30	10-150	
Tetrachloroethene	0.0100	0.008761	88	7	30	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab File ID: C28105.D Lab Sample ID: MB 600-304980/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHVOAMS01 Date Analyzed: 10/07/2020 13:21

GC Column: DB-VRX 60 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-304980/3	C28102.D	10/07/2020 12:03
	LCSD 600-304980/4	C28103.D	10/07/2020 12:29
ARTESIA-OUTLET-100520	600-212257-4	C28117.D	10/07/2020 19:05
ARTESIA-MW25-100520	600-212257-5	C28118.D	10/07/2020 19:31
ARTESIA-MW31-100520	600-212257-6	C28119.D	10/07/2020 19:57
ARTESIA-MW35-100520	600-212257-8	C28120.D	10/07/2020 20:24
ARTESIA-MW29-100520	600-212257-9	C28121.D	10/07/2020 20:50
ARTESIA-MW28-100520	600-212257-10	C28122.D	10/07/2020 21:16
ARTESIA-MW32-100520	600-212257-11	C28123.D	10/07/2020 21:42
ARTESIA-MW34-100520	600-212257-12	C28124.D	10/07/2020 22:08
ARTESIA-MW37-100620	600-212257-13	C28125.D	10/07/2020 22:34

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab File ID: C28205.D Lab Sample ID: MB 600-305068/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHVOAMS01 Date Analyzed: 10/08/2020 13:33

GC Column: DB-VRX 60 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-305068/3	C28202.D	10/08/2020 12:14
	LCSD 600-305068/4	C28203.D	10/08/2020 12:41
ARTESIA-TB03-100520	600-212257-1	C28206.D	10/08/2020 14:00
ARTESIA-MW22-100520	600-212257-7	C28207.D	10/08/2020 14:26
ARTESIA-INLET-100520	600-212257-2	C28208.D	10/08/2020 14:52
ARTESIA-MID-100520	600-212257-3	C28209.D	10/08/2020 15:19
ARTESIA-MW22-100520 MS	600-212257-7 MS	C28214.D	10/08/2020 17:30
ARTESIA-MW22-100520 MSD	600-212257-7 MSD	C28215.D	10/08/2020 17:56
ARTESIA-MW37-100620 DL	600-212257-13 DL	C28216.D	10/08/2020 18:23
ARTESIA-MW38-100620	600-212257-14	C28217.D	10/08/2020 18:49
ARTESIA-MW17C-100620	600-212257-15	C28218.D	10/08/2020 19:15
ARTESIA-MW36-100620	600-212257-16	C28219.D	10/08/2020 19:41
ARTESIA-MW12-100620	600-212257-17	C28220.D	10/08/2020 20:07
ARTESIA-MW11-100620	600-212257-18	C28221.D	10/08/2020 20:33
ARTESIA-MD11-100620	600-212257-19	C28222.D	10/08/2020 20:59
ARTESIA-MW30-100620	600-212257-20	C28223.D	10/08/2020 21:25
ARTESIA-MD30-100620	600-212257-21	C28224.D	10/08/2020 21:51

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab File ID: C28308.D Lab Sample ID: MB 600-305162/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHVOAMS01 Date Analyzed: 10/09/2020 15:04

GC Column: DB-VRX 60 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-305162/4	C28303.D	10/09/2020 12:52
	LCSD 600-305162/5	C28304.D	10/09/2020 13:19
ARTESIA-MW38-100620 DL	600-212257-14 DL	C28314.D	10/09/2020 17:41
ARTESIA-MW12-100620 DL	600-212257-17 DL	C28315.D	10/09/2020 18:07

FORM IV 8260B

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab File ID: C23900.D BFB Injection Date: 08/26/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 10:49

Analysis Batch No.: 302094

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.7	
75	30.0 - 60.0 % of mass 95	54.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	84.6	
175	5.0 - 9.0 % of mass 174	7.0	(8.2) 1
176	95.0 - 101.0 % of mass 174	82.1	(97.1) 1
177	5.0 - 9.0 % of mass 176	6.8	(8.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 600-302094/2	C23901.D	08/26/2020	11:15
	IC 600-302094/3	C23902.D	08/26/2020	11:42
	IC 600-302094/4	C23903.D	08/26/2020	12:08
	IC 600-302094/5	C23904.D	08/26/2020	12:35
	ICIS 600-302094/6	C23905.D	08/26/2020	13:02
	IC 600-302094/7	C23906.D	08/26/2020	13:29
	IC 600-302094/8	C23907.D	08/26/2020	13:55
	ICV 600-302094/1010	C23909-ICV.d	08/26/2020	14:49

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab File ID: C24500.D BFB Injection Date: 09/01/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 12:09

Analysis Batch No.: 302570

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.9	
75	30.0 - 60.0 % of mass 95	52.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	5.3	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	85.1	
175	5.0 - 9.0 % of mass 174	6.9	(8.1) 1
176	95.0 - 101.0 % of mass 174	81.3	(95.5) 1
177	5.0 - 9.0 % of mass 176	6.5	(8.0) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 600-302570/1011	C24410-ICV.d	09/01/2020	17:12

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab File ID: C28100A.D BFB Injection Date: 10/07/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 10:59

Analysis Batch No.: 304980

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.7	
75	30.0 - 60.0 % of mass 95	59.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	74.1	
175	5.0 - 9.0 % of mass 174	6.5	(8.8) 1
176	95.0 - 101.0 % of mass 174	71.4	(96.4) 1
177	5.0 - 9.0 % of mass 176	5.5	(7.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 600-304980/2	C28101.D	10/07/2020	11:26
	LCS 600-304980/3	C28102.D	10/07/2020	12:03
	LCSD 600-304980/4	C28103.D	10/07/2020	12:29
	MB 600-304980/6	C28105.D	10/07/2020	13:21
ARTESIA-OUTLET-100520	600-212257-4	C28117.D	10/07/2020	19:05
ARTESIA-MW25-100520	600-212257-5	C28118.D	10/07/2020	19:31
ARTESIA-MW31-100520	600-212257-6	C28119.D	10/07/2020	19:57
ARTESIA-MW35-100520	600-212257-8	C28120.D	10/07/2020	20:24
ARTESIA-MW29-100520	600-212257-9	C28121.D	10/07/2020	20:50
ARTESIA-MW28-100520	600-212257-10	C28122.D	10/07/2020	21:16
ARTESIA-MW32-100520	600-212257-11	C28123.D	10/07/2020	21:42
ARTESIA-MW34-100520	600-212257-12	C28124.D	10/07/2020	22:08
ARTESIA-MW37-100620	600-212257-13	C28125.D	10/07/2020	22:34

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab File ID: C28200A.D BFB Injection Date: 10/08/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 10:25

Analysis Batch No.: 305068

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.1	
75	30.0 - 60.0 % of mass 95	59.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	76.6	
175	5.0 - 9.0 % of mass 174	6.2	(8.0) 1
176	95.0 - 101.0 % of mass 174	75.6	(98.8) 1
177	5.0 - 9.0 % of mass 176	5.5	(7.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 600-305068/2	C28201A.D	10/08/2020	11:36
	LCS 600-305068/3	C28202.D	10/08/2020	12:14
	LCSD 600-305068/4	C28203.D	10/08/2020	12:41
	MB 600-305068/6	C28205.D	10/08/2020	13:33
ARTESIA-TB03-100520	600-212257-1	C28206.D	10/08/2020	14:00
ARTESIA-MW22-100520	600-212257-7	C28207.D	10/08/2020	14:26
ARTESIA-INLET-100520	600-212257-2	C28208.D	10/08/2020	14:52
ARTESIA-MID-100520	600-212257-3	C28209.D	10/08/2020	15:19
ARTESIA-MW22-100520 MS	600-212257-7 MS	C28214.D	10/08/2020	17:30
ARTESIA-MW22-100520 MSD	600-212257-7 MSD	C28215.D	10/08/2020	17:56
ARTESIA-MW37-100620 DL	600-212257-13 DL	C28216.D	10/08/2020	18:23
ARTESIA-MW38-100620	600-212257-14	C28217.D	10/08/2020	18:49
ARTESIA-MW17C-100620	600-212257-15	C28218.D	10/08/2020	19:15
ARTESIA-MW36-100620	600-212257-16	C28219.D	10/08/2020	19:41
ARTESIA-MW12-100620	600-212257-17	C28220.D	10/08/2020	20:07
ARTESIA-MW11-100620	600-212257-18	C28221.D	10/08/2020	20:33
ARTESIA-MD11-100620	600-212257-19	C28222.D	10/08/2020	20:59
ARTESIA-MW30-100620	600-212257-20	C28223.D	10/08/2020	21:25
ARTESIA-MD30-100620	600-212257-21	C28224.D	10/08/2020	21:51

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab File ID: C28300.D BFB Injection Date: 10/09/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 11:23

Analysis Batch No.: 305162

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	58.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.4	(0.5) 1
174	Greater than 50% of mass 95	76.9	
175	5.0 - 9.0 % of mass 174	5.9	(7.7) 1
176	95.0 - 101.0 % of mass 174	73.8	(95.9) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 600-305162/2	C28301.D	10/09/2020	11:50
	CCV 600-305162/3	C28302.D	10/09/2020	12:16
	LCS 600-305162/4	C28303.D	10/09/2020	12:52
	LCSD 600-305162/5	C28304.D	10/09/2020	13:19
	MB 600-305162/9	C28308.D	10/09/2020	15:04
ARTESIA-MW38-100620 DL	600-212257-14 DL	C28314.D	10/09/2020	17:41
ARTESIA-MW12-100620 DL	600-212257-17 DL	C28315.D	10/09/2020	18:07

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Sample No.: ICIS 600-302094/6 Date Analyzed: 08/26/2020 13:02

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C23905.D Heated Purge: (Y/N) N

Calibration ID: 18541

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		288438	8.48	131187	11.47	140138	14.06
UPPER LIMIT		576876	8.98	262374	11.97	280276	14.56
LOWER LIMIT		144219	7.98	65594	10.97	70069	13.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 600-302094/1010		322497	8.48	148110	11.47	167232	14.06
CCVIS 600-304980/2		286208	8.47	143131	11.47	142797	14.05
CCVIS 600-305068/2		317260	8.48	152105	11.46	159391	14.05
CCVIS 600-305162/2		320797	8.48	160804	11.46	160584	14.05

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Sample No.: CCVIS 600-304980/2 Date Analyzed: 10/07/2020 11:26

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C28101.D Heated Purge: (Y/N) N

Calibration ID: 18556

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		286208	8.47	143131	11.47	142797	14.05
UPPER LIMIT		572416	8.97	286262	11.97	285594	14.55
LOWER LIMIT		143104	7.97	71566	10.97	71399	13.55
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 600-304980/3		329777	8.48	164352	11.46	167967	14.05
LCSD 600-304980/4		353698	8.48	170003	11.46	183360	14.05
MB 600-304980/6		327476	8.48	166433	11.47	169091	14.06
600-212257-4	ARTESIA-OUTLET-100520	243872	8.48	126559	11.47	127615	14.06
600-212257-5	ARTESIA-MW25-100520	244835	8.49	127950	11.47	128350	14.06
600-212257-6	ARTESIA-MW31-100520	231887	8.48	125740	11.47	133357	14.06
600-212257-8	ARTESIA-MW35-100520	228423	8.48	121157	11.47	121095	14.05
600-212257-9	ARTESIA-MW29-100520	221162	8.48	122861	11.47	116802	14.05
600-212257-10	ARTESIA-MW28-100520	232745	8.48	120600	11.47	118443	14.05
600-212257-11	ARTESIA-MW32-100520	221859	8.48	118872	11.47	115200	14.06
600-212257-12	ARTESIA-MW34-100520	218282	8.48	117373	11.47	112974	14.05
600-212257-13	ARTESIA-MW37-100620	227361	8.48	118058	11.47	131745	14.06

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Sample No.: CCVIS 600-305068/2 Date Analyzed: 10/08/2020 11:36

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C28201A.D Heated Purge: (Y/N) N

Calibration ID: 18556

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		317260	8.48	152105	11.46	159391	14.05
UPPER LIMIT		634520	8.98	304210	11.96	318782	14.55
LOWER LIMIT		158630	7.98	76053	10.96	79696	13.55
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 600-305068/3		358621	8.48	170905	11.47	190196	14.05
LCSD 600-305068/4		372079	8.48	183900	11.47	201523	14.05
MB 600-305068/6		346608	8.48	169918	11.47	178286	14.05
600-212257-1	ARTESIA-TB03-100520	317962	8.48	162889	11.47	167660	14.05
600-212257-7	ARTESIA-MW22-100520	311838	8.48	160678	11.47	166005	14.05
600-212257-2	ARTESIA-INLET-100520	297084	8.48	156365	11.47	160860	14.05
600-212257-3	ARTESIA-MID-100520	295621	8.48	151699	11.47	156075	14.05
600-212257-7 MS	ARTESIA-MW22-100520 MS	275575	8.48	138603	11.47	162163	14.05
600-212257-7 MSD	ARTESIA-MW22-100520 MSD	313174	8.48	159068	11.47	175769	14.06
600-212257-13 DL	ARTESIA-MW37-100620 DL	327134	8.48	159788	11.47	176188	14.05
600-212257-14	ARTESIA-MW38-100620	313564	8.48	158832	11.47	173749	14.05
600-212257-15	ARTESIA-MW17C-100620	333892	8.48	168193	11.47	171749	14.05
600-212257-16	ARTESIA-MW36-100620	300083	8.48	160080	11.47	192598	14.05
600-212257-17	ARTESIA-MW12-100620	394156	8.48	193945	11.46	220328	14.05
600-212257-18	ARTESIA-MW11-100620	389679	8.48	192938	11.47	209669	14.05
600-212257-19	ARTESIA-MD11-100620	389151	8.48	182683	11.47	199381	14.06
600-212257-20	ARTESIA-MW30-100620	365650	8.48	180725	11.47	194294	14.05
600-212257-21	ARTESIA-MD30-100620	344883	8.48	169965	11.47	178865	14.05

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Sample No.: CCVIS 600-305162/2 Date Analyzed: 10/09/2020 11:50

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C28301.D Heated Purge: (Y/N) N

Calibration ID: 18556

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		320797	8.48	160804	11.46	160584	14.05
UPPER LIMIT		641594	8.98	321608	11.96	321168	14.55
LOWER LIMIT		160399	7.98	80402	10.96	80292	13.55
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 600-305162/3		315190	8.48	157010	11.47	168660	14.05
LCS 600-305162/4		335890	8.48	170920	11.46	184887	14.05
LCSD 600-305162/5		353757	8.48	181089	11.47	197381	14.05
MB 600-305162/9		334829	8.48	166177	11.47	174680	14.05
600-212257-14 DL	ARTESIA-MW38-100620 DL	398245	8.48	197209	11.47	213436	14.05
600-212257-17 DL	ARTESIA-MW12-100620 DL	394795	8.48	191549	11.47	208579	14.05

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-TB03-100520 Lab Sample ID: 600-212257-1

Matrix: Water Lab File ID: C28206.D

Analysis Method: 8260B Date Collected: 10/05/2020 10:30

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 14:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U *1	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U *1	0.00100	0.000192
71-43-2	Benzene	0.000176	U *1	0.00100	0.000176
91-20-3	Naphthalene	0.000145	J B	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U *1	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		50-134
460-00-4	4-Bromofluorobenzene	123		67-139
1868-53-7	Dibromofluoromethane	106		62-130
2037-26-5	Toluene-d8 (Surr)	89		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-INLET-100520 Lab Sample ID: 600-212257-2

Matrix: Water Lab File ID: C28208.D

Analysis Method: 8260B Date Collected: 10/05/2020 10:40

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 14:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00357	*1	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.0115	*1	0.00100	0.000192
71-43-2	Benzene	0.000176	U *1	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00831	*1	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		50-134
460-00-4	4-Bromofluorobenzene	125		67-139
1868-53-7	Dibromofluoromethane	107		62-130
2037-26-5	Toluene-d8 (Surr)	87		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MID-100520 Lab Sample ID: 600-212257-3

Matrix: Water Lab File ID: C28209.D

Analysis Method: 8260B Date Collected: 10/05/2020 10:50

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 15:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000526	J *1	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U *1	0.00100	0.000192
71-43-2	Benzene	0.000176	U *1	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U *1	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		50-134
460-00-4	4-Bromofluorobenzene	123		67-139
1868-53-7	Dibromofluoromethane	106		62-130
2037-26-5	Toluene-d8 (Surr)	88		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-OUTLET-100520 Lab Sample ID: 600-212257-4

Matrix: Water Lab File ID: C28117.D

Analysis Method: 8260B Date Collected: 10/05/2020 11:00

Sample wt/vol: 20(mL) Date Analyzed: 10/07/2020 19:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 304980 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00326		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00181		0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		50-134
460-00-4	4-Bromofluorobenzene	130		67-139
1868-53-7	Dibromofluoromethane	108		62-130
2037-26-5	Toluene-d8 (Surr)	87		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW25-100520 Lab Sample ID: 600-212257-5

Matrix: Water Lab File ID: C28118.D

Analysis Method: 8260B Date Collected: 10/05/2020 14:40

Sample wt/vol: 20(mL) Date Analyzed: 10/07/2020 19:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 304980 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00168		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00194		0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00129		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	122		50-134
460-00-4	4-Bromofluorobenzene	131		67-139
1868-53-7	Dibromofluoromethane	112		62-130
2037-26-5	Toluene-d8 (Surr)	87		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW31-100520 Lab Sample ID: 600-212257-6

Matrix: Water Lab File ID: C28119.D

Analysis Method: 8260B Date Collected: 10/05/2020 15:00

Sample wt/vol: 20(mL) Date Analyzed: 10/07/2020 19:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 304980 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000537	J	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		50-134
460-00-4	4-Bromofluorobenzene	121		67-139
1868-53-7	Dibromofluoromethane	113		62-130
2037-26-5	Toluene-d8 (Surr)	87		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW22-100520 Lab Sample ID: 600-212257-7

Matrix: Water Lab File ID: C28207.D

Analysis Method: 8260B Date Collected: 10/05/2020 15:15

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 14:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00111	*1	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000239	J *1	0.00100	0.000192
71-43-2	Benzene	0.000176	U *1	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U *1	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		50-134
460-00-4	4-Bromofluorobenzene	122		67-139
1868-53-7	Dibromofluoromethane	106		62-130
2037-26-5	Toluene-d8 (Surr)	88		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW35-100520 Lab Sample ID: 600-212257-8

Matrix: Water Lab File ID: C28120.D

Analysis Method: 8260B Date Collected: 10/05/2020 15:30

Sample wt/vol: 20(mL) Date Analyzed: 10/07/2020 20:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 304980 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.0171		0.00100	0.000192
127-18-4	Tetrachloroethene	0.0121		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		50-134
460-00-4	4-Bromofluorobenzene	129		67-139
1868-53-7	Dibromofluoromethane	109		62-130
2037-26-5	Toluene-d8 (Surr)	85		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW29-100520 Lab Sample ID: 600-212257-9

Matrix: Water Lab File ID: C28121.D

Analysis Method: 8260B Date Collected: 10/05/2020 16:10

Sample wt/vol: 20(mL) Date Analyzed: 10/07/2020 20:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 304980 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0104		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.0184		0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.0184		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		50-134
460-00-4	4-Bromofluorobenzene	137		67-139
1868-53-7	Dibromofluoromethane	114		62-130
2037-26-5	Toluene-d8 (Surr)	85		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW28-100520 Lab Sample ID: 600-212257-10

Matrix: Water Lab File ID: C28122.D

Analysis Method: 8260B Date Collected: 10/05/2020 16:25

Sample wt/vol: 20(mL) Date Analyzed: 10/07/2020 21:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 304980 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00451		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00882		0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00769		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		50-134
460-00-4	4-Bromofluorobenzene	131		67-139
1868-53-7	Dibromofluoromethane	110		62-130
2037-26-5	Toluene-d8 (Surr)	86		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW32-100520 Lab Sample ID: 600-212257-11

Matrix: Water Lab File ID: C28123.D

Analysis Method: 8260B Date Collected: 10/05/2020 18:10

Sample wt/vol: 20(mL) Date Analyzed: 10/07/2020 21:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 304980 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121		50-134
460-00-4	4-Bromofluorobenzene	132		67-139
1868-53-7	Dibromofluoromethane	113		62-130
2037-26-5	Toluene-d8 (Surr)	88		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW34-100520 Lab Sample ID: 600-212257-12

Matrix: Water Lab File ID: C28124.D

Analysis Method: 8260B Date Collected: 10/05/2020 18:25

Sample wt/vol: 20(mL) Date Analyzed: 10/07/2020 22:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 304980 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00163		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000446	J	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		50-134
460-00-4	4-Bromofluorobenzene	132		67-139
1868-53-7	Dibromofluoromethane	111		62-130
2037-26-5	Toluene-d8 (Surr)	87		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW37-100620 Lab Sample ID: 600-212257-13

Matrix: Water Lab File ID: C28125.D

Analysis Method: 8260B Date Collected: 10/06/2020 10:00

Sample wt/vol: 20(mL) Date Analyzed: 10/07/2020 22:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 304980 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00446		0.00100	0.000192
71-43-2	Benzene	0.00205	B	0.00100	0.000176
91-20-3	Naphthalene	0.00313	B	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00389		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		50-134
460-00-4	4-Bromofluorobenzene	122		67-139
1868-53-7	Dibromofluoromethane	108		62-130
2037-26-5	Toluene-d8 (Surr)	88		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW37-100620 DL Lab Sample ID: 600-212257-13 DL

Matrix: Water Lab File ID: C28216.D

Analysis Method: 8260B Date Collected: 10/06/2020 10:00

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 18:23

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0547	*1	0.00500	0.000840

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		50-134
460-00-4	4-Bromofluorobenzene	122		67-139
1868-53-7	Dibromofluoromethane	106		62-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW38-100620 Lab Sample ID: 600-212257-14

Matrix: Water Lab File ID: C28217.D

Analysis Method: 8260B Date Collected: 10/06/2020 10:08

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 18:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00150	*1	0.00100	0.000192
71-43-2	Benzene	0.000855	J *1	0.00100	0.000176
91-20-3	Naphthalene	0.000866	J B	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00442	*1	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		50-134
460-00-4	4-Bromofluorobenzene	123		67-139
1868-53-7	Dibromofluoromethane	109		62-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW38-100620 DL Lab Sample ID: 600-212257-14 DL

Matrix: Water Lab File ID: C28314.D

Analysis Method: 8260B Date Collected: 10/06/2020 10:08

Sample wt/vol: 20(mL) Date Analyzed: 10/09/2020 17:41

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305162 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0922		0.0100	0.00168

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		50-134
460-00-4	4-Bromofluorobenzene	119		67-139
1868-53-7	Dibromofluoromethane	98		62-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW17C-100620 Lab Sample ID: 600-212257-15

Matrix: Water Lab File ID: C28218.D

Analysis Method: 8260B Date Collected: 10/06/2020 11:30

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 19:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000252	J *1	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000276	J *1	0.00100	0.000192
71-43-2	Benzene	0.000176	U *1	0.00100	0.000176
91-20-3	Naphthalene	0.000190	J B	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U *1	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		50-134
460-00-4	4-Bromofluorobenzene	125		67-139
1868-53-7	Dibromofluoromethane	103		62-130
2037-26-5	Toluene-d8 (Surr)	90		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW36-100620 Lab Sample ID: 600-212257-16

Matrix: Water Lab File ID: C28219.D

Analysis Method: 8260B Date Collected: 10/06/2020 10:50

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 19:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0340	*1	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000441	J *1	0.00100	0.000192
71-43-2	Benzene	0.00934	*1	0.00100	0.000176
91-20-3	Naphthalene	0.00503	B	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00845	*1	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		50-134
460-00-4	4-Bromofluorobenzene	121		67-139
1868-53-7	Dibromofluoromethane	105		62-130
2037-26-5	Toluene-d8 (Surr)	87		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW12-100620 Lab Sample ID: 600-212257-17

Matrix: Water Lab File ID: C28220.D

Analysis Method: 8260B Date Collected: 10/06/2020 12:05

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 20:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00324	*1	0.00100	0.000192
71-43-2	Benzene	0.00345	*1	0.00100	0.000176
91-20-3	Naphthalene	0.00382	B	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000366	J *1	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		50-134
460-00-4	4-Bromofluorobenzene	115		67-139
1868-53-7	Dibromofluoromethane	102		62-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW12-100620 DL Lab Sample ID: 600-212257-17 DL

Matrix: Water Lab File ID: C28315.D

Analysis Method: 8260B Date Collected: 10/06/2020 12:05

Sample wt/vol: 20(mL) Date Analyzed: 10/09/2020 18:07

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305162 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.0556		0.00500	0.000840

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		50-134
460-00-4	4-Bromofluorobenzene	119		67-139
1868-53-7	Dibromofluoromethane	98		62-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW11-100620 Lab Sample ID: 600-212257-18

Matrix: Water Lab File ID: C28221.D

Analysis Method: 8260B Date Collected: 10/06/2020 11:40

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 20:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00533	*1	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000223	J *1	0.00100	0.000192
71-43-2	Benzene	0.000176	U *1	0.00100	0.000176
91-20-3	Naphthalene	0.000641	J B	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U *1	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		50-134
460-00-4	4-Bromofluorobenzene	117		67-139
1868-53-7	Dibromofluoromethane	98		62-130
2037-26-5	Toluene-d8 (Surr)	91		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MD11-100620 Lab Sample ID: 600-212257-19

Matrix: Water Lab File ID: C28222.D

Analysis Method: 8260B Date Collected: 10/06/2020 11:50

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 20:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00532	*1	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000231	J *1	0.00100	0.000192
71-43-2	Benzene	0.000176	U *1	0.00100	0.000176
91-20-3	Naphthalene	0.000185	J B	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U *1	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		50-134
460-00-4	4-Bromofluorobenzene	119		67-139
1868-53-7	Dibromofluoromethane	96		62-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW30-100620 Lab Sample ID: 600-212257-20

Matrix: Water Lab File ID: C28223.D

Analysis Method: 8260B Date Collected: 10/06/2020 13:40

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 21:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00137	*1	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00304	*1	0.00100	0.000192
71-43-2	Benzene	0.000176	U *1	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00325	*1	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		50-134
460-00-4	4-Bromofluorobenzene	119		67-139
1868-53-7	Dibromofluoromethane	99		62-130
2037-26-5	Toluene-d8 (Surr)	89		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MD30-100620 Lab Sample ID: 600-212257-21

Matrix: Water Lab File ID: C28224.D

Analysis Method: 8260B Date Collected: 10/06/2020 13:45

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 21:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.00132	*1	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.00254	*1	0.00100	0.000192
71-43-2	Benzene	0.000176	U *1	0.00100	0.000176
91-20-3	Naphthalene	0.000129	U	0.00200	0.000129
127-18-4	Tetrachloroethene	0.00287	*1	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		50-134
460-00-4	4-Bromofluorobenzene	124		67-139
1868-53-7	Dibromofluoromethane	100		62-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-302094/2	C23901.D
Level 2	IC 600-302094/3	C23902.D
Level 3	IC 600-302094/4	C23903.D
Level 4	IC 600-302094/5	C23904.D
Level 5	ICIS 600-302094/6	C23905.D
Level 6	IC 600-302094/7	C23906.D
Level 7	IC 600-302094/8	C23907.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2664 0.3589	0.3291 0.2963	0.3544	0.3665	0.3639	Ave		0.3336				11.6		15.0			
Chloromethane	0.1704 0.1614	0.1538 0.1458	0.1604	0.1597	0.1585	Ave		0.1586			0.1000	4.7		15.0			
Vinyl chloride	0.1873 0.2305	0.2064 0.1730	0.2240	0.2376	0.2313	Ave		0.2129				11.6		15.0			
Butadiene	0.2047 0.2193	0.2074 0.1739	0.2283	0.2433	0.2322	Ave		0.2156				10.6		15.0			
Bromomethane	0.1115 0.1658	0.1134 0.1640	0.1242	0.1386	0.1529	Lin2	-0.026	0.1532							0.9900		0.9900
Chloroethane	0.1284 0.1767	0.1554 0.1506	0.1690	0.1782	0.1766	Ave		0.1621				11.4		15.0			
Dichlorofluoromethane	0.4420 0.5613	0.4981 0.4855	0.5536	0.5826	0.5609	Ave		0.5263				9.8		15.0			
Acrolein	0.0055 0.0131	0.0102 0.0136	0.0108	0.0120	0.0131	Lin2	-0.019	0.0133							0.9980		0.9900
Trichlorofluoromethane	0.6261 0.7594	0.7214 0.6309	0.7934	0.8391	0.8113	Ave		0.7402				11.5		15.0			
Acetonitrile	0.0042 0.0081	0.0070 0.0082	0.0082	0.0079	0.0081	Lin2	-0.020	0.0085							0.9960		0.9900
Isopropyl alcohol	0.0022 0.0052	0.0031 0.0055	0.0043	0.0049	0.0050	Lin2	-0.016	0.0052							0.9970		0.9900
Acetone	+++++ 0.0272	0.0363 0.0283	0.0344	0.0297	0.0273	Ave		0.0305				12.8		15.0			
Ethyl ether	0.1401 0.1619	0.1669 0.1526	0.1699	0.1630	0.1678	Ave		0.1603				6.6		15.0			
t-Butanol	0.0078 0.0121	0.0119 0.0124	0.0118	0.0123	0.0128	Ave		0.0116				14.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloroethene	0.2523 0.2502	0.2700 0.2288	0.2868	0.2775	0.2684	Ave		0.2620				7.5		15.0			
Acrylonitrile	0.0135 0.0233	0.0202 0.0223	0.0214	0.0219	0.0231	Lin2	-0.046	0.0233							0.9980		0.9900
Iodomethane	0.2817 0.3878	0.3060 0.2911	0.3326	0.3458	0.3741	Ave		0.3313				12.3		15.0			
Methylene Chloride	1.2953 0.2429	0.7606 0.2161	0.5274	0.3407	0.2762	Lin2	0.5387	0.2249							0.9920		0.9900
Methyl acetate	0.0439 0.0671	0.0666 0.0643	0.0728	0.0690	0.0711	Ave		0.0650				15.0		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3121 0.2920	0.3423 0.2671	0.3396	0.3331	0.3181	Ave		0.3149				8.7		15.0			
3-Chloro-1-propene	0.1433 0.1562	0.1565 0.1340	0.1636	0.1693	0.1641	Ave		0.1553				8.1		15.0			
Carbon disulfide	0.8618 0.7561	0.8557 0.7068	0.8190	0.7808	0.7323	Ave		0.7875				7.6		15.0			
trans-1,2-Dichloroethene	0.2815 0.2665	0.3055 0.2554	0.3112	0.2941	0.2876	Ave		0.2860				7.0		15.0			
Methyl tert-butyl ether	0.5776 0.6683	0.7218 0.6322	0.7336	0.7155	0.7117	Ave		0.6801				8.4		15.0			
1,1-Dichloroethane	0.5120 0.5202	0.6081 0.4824	0.6158	0.5904	0.5633	Ave		0.5560			0.1000	9.3		15.0			
Propionitrile	+++++ 0.0106	0.0074 0.0104	0.0083	0.0100	0.0102	Ave		0.0095				13.7		15.0			
Vinyl acetate	0.1658 0.2373	0.1766 0.2209	0.2032	0.2464	0.2398	Ave		0.2129				15.0		15.0			
2-Chloro-1,3-butadiene	0.4465 0.4873	0.5216 0.4285	0.5600	0.5621	0.5371	Ave		0.5062				10.6		15.0			
Hexane	0.3686 0.3396	0.4056 0.3006	0.4180	0.4101	0.3868	Ave		0.3756				11.4		15.0			
Isopropyl ether	0.7795 0.7347	0.9210 0.6316	0.9498	0.8765	0.8257	Ave		0.8170				13.7		15.0			
2-Butanone (MEK)	+++++ 0.0129	0.0039 0.0128	0.0097	0.0119	0.0129	Lin2	-0.018	0.0136							0.9980		0.9900
Methacrylonitrile	0.0068 0.0136	0.0118 0.0131	0.0131	0.0134	0.0139	Lin2	-0.033	0.0141							0.9960		0.9900
cis-1,2-Dichloroethene	0.2556 0.2739	0.2956 0.2597	0.3028	0.2909	0.2862	Ave		0.2806				6.4		15.0			
Ethyl acetate	0.0506 0.0952	0.0741 0.0973	0.0857	0.0913	0.0937	Lin2	-0.046	0.0967							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobromomethane	0.0886 0.1087	0.1120 0.1019	0.1278	0.1229	0.1166	Ave		0.1112				11.9		15.0			
Tert-butyl ethyl ether	0.7744 0.8516	0.9236 0.7578	0.9803	0.9466	0.9073	Ave		0.8774				9.8		15.0			
Isobutyl alcohol	0.0121 0.0074	0.0092 0.0069	0.0093	0.0088	0.0085	Lin2	0.0531	0.0077							0.9910		0.9900
Chloroform	0.6700 0.5575	0.6773 0.5027	0.6829	0.6362	0.6115	Ave		0.6197				11.0		15.0			
2,2-Dichloropropane	0.6388 0.6803	0.7273 0.6060	0.7626	0.7664	0.7402	Ave		0.7031				8.9		15.0			
Tetrahydrofuran	0.0112 0.0226	0.0219 0.0234	0.0207	0.0231	0.0237	Lin2	-0.011	0.0241							0.9930		0.9900
1,2-Dichloroethane	0.2908 0.3629	0.3643 0.3493	0.3729	0.3783	0.3747	Ave		0.3562				8.5		15.0			
1,1,1-Trichloroethane	0.6935 0.6744	0.7659 0.6185	0.7924	0.7759	0.7383	Ave		0.7227				8.7		15.0			
1,1-Dichloropropene	0.3932 0.4550	0.4900 0.4256	0.4867	0.5103	0.4888	Ave		0.4642				9.0		15.0			
Cyclohexane	0.4510 0.4160	0.4622 0.3836	0.4853	0.4875	0.4564	Ave		0.4489				8.3		15.0			
Carbon tetrachloride	0.6071 0.6294	0.7049 0.5734	0.7165	0.7164	0.6842	Ave		0.6617				8.8		15.0			
Benzene	1.0530 1.0402	1.1507 0.9334	1.1749	1.1824	1.1292	Ave		1.0948				8.3		15.0			
Tert-amyl methyl ether	0.5742 0.6777	0.7057 0.6641	0.7474	0.7273	0.7171	Ave		0.6876				8.4		15.0			
Isooctane	0.7639 0.6838	0.8083 0.6238	0.7981	0.8147	0.7554	Ave		0.7497				9.5		15.0			
Ethyl acrylate	0.1082 0.2059	0.1740 0.2028	0.1880	0.2047	0.2108	Lin2	-0.049	0.2119							0.9990		0.9900
n-Heptane	0.2958 0.3133	0.3343 0.2820	0.3529	0.3614	0.3383	Ave		0.3254				9.0		15.0			
Dibromomethane	0.0839 0.1064	0.1035 0.1027	0.1083	0.1092	0.1084	Ave		0.1032				8.6		15.0			
1,2-Dichloropropane	0.2045 0.2154	0.2374 0.1956	0.2541	0.2461	0.2321	Ave		0.2264				9.6		15.0			
2-Nitropropane	0.0263 0.0457	0.0333 0.0425	0.0413	0.0451	0.0444	Lin2	-0.020	0.0452							0.9980		0.9900
Trichloroethene	0.3056 0.3080	0.3493 0.2871	0.3595	0.3410	0.3306	Ave		0.3259				8.1		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Bromodichloromethane	0.3091 0.4163	0.3979 0.3951	0.4340	0.4472	0.4391	Ave		0.4055				11.6		15.0			
Methyl methacrylate	0.0613 0.1185	0.0991 0.1136	0.1099	0.1227	0.1212	Lin2	-0.058	0.1225							0.9970		0.9900
1,4-Dioxane	+++++ 0.0009	0.0003 0.0010	0.0006	0.0007	0.0008	Lin2	-0.013	0.0009							0.9930		0.9900
2-Chloroethyl vinyl ether	+++++ 0.0597	0.0139 0.0696	0.0266	0.0412	0.0501	Lin1	-0.151	0.0671							0.9900		0.9900
Methylcyclohexane	0.4288 0.4511	0.4794 0.4176	0.5162	0.5166	0.4971	Ave		0.4724				8.6		15.0			
cis-1,3-Dichloropropene	0.6935 0.8948	0.7809 0.8452	0.8544	0.8989	0.8798	Ave		0.8353				8.9		15.0			
4-Methyl-2-pentanone (MIBK)	0.0518 0.0981	0.0799 0.0979	0.0841	0.0913	0.0967	Lin2	-0.045	0.0981							0.9990		0.9900
trans-1,3-Dichloropropene	0.4906 0.7451	0.5853 0.7251	0.6563	0.7171	0.7256	Ave		0.6636				14.2		15.0			
1,1,2-Trichloroethane	0.2391 0.3278	0.3303 0.3139	0.3339	0.3304	0.3270	Ave		0.3146				10.8		15.0			
Ethyl methacrylate	0.2572 0.4323	0.2930 0.4153	0.3556	0.3963	0.4088	Lin2	-0.088	0.4143							0.9970		0.9900
Toluene	1.4689 1.5201	1.5793 1.3516	1.6407	1.6202	1.5436	Ave		1.5321				6.5		15.0			
1,3-Dichloropropane	0.4616 0.6125	0.5806 0.5849	0.6130	0.6189	0.6018	Ave		0.5819				9.4		15.0			
2-Hexanone	+++++ 0.1376	0.0966 0.1430	0.1219	0.1277	0.1311	Ave		0.1263				12.9		15.0			
Dibromochloromethane	0.3221 0.5530	0.4432 0.5323	0.5076	0.5210	0.5239	Lin2	-0.109	0.5465							0.9990		0.9900
n-Butyl acetate	0.1635 0.3640	0.2537 0.3639	0.2957	0.3336	0.3406	Lin2	-0.099	0.3571							0.9990		0.9900
1,2-Dibromoethane	0.1662 0.3251	0.2619 0.3231	0.3105	0.3196	0.3118	Lin2	-0.079	0.3317							0.9990		0.9900
Tetrachloroethene	0.5748 0.6031	0.6099 0.5470	0.6589	0.6405	0.6200	Ave		0.6078				6.2		15.0			
1-Chlorohexane	0.5045 0.6092	0.5516 0.5514	0.6230	0.6493	0.6143	Ave		0.5862				8.7		15.0			
1,1,1,2-Tetrachloroethane	0.4968 0.6087	0.5882 0.5708	0.6485	0.6584	0.6535	Ave		0.6035				9.6		15.0			
Chlorobenzene	1.4234 1.5346	1.5804 1.3979	1.6197	1.5912	1.5279	Ave		1.5250			0.3000	5.6		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethylbenzene	0.7928 0.9134	0.9157 0.8168	0.9370	0.9652	0.9155	Ave		0.8938				7.1		15.0			
m-Xylene & p-Xylene	2.1080 2.3455	2.3303 2.0909	2.4875	2.5063	2.3698	Ave		2.3198				7.1		15.0			
Bromoform	0.1696 0.2857	0.2176 0.2958	0.2480	0.2556	0.2671	Lin2	-0.058	0.2805			0.1000				0.9980		0.9900
Styrene	1.1855 1.5415	1.4546 1.4121	1.4506	1.5275	1.5232	Ave		1.4421				8.5		15.0			
o-Xylene	0.9807 1.0431	1.0744 0.9258	1.1201	1.1321	1.0606	Ave		1.0481				7.0		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.3248	0.3254 0.3079	0.3460	0.3380	0.3235	Ave		0.3276			0.3000	4.0		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.0833	0.0095 0.0905	0.0486	0.0688	0.0796	Lin2	-0.079	0.0880							0.9990		0.9900
1,2,3-Trichloropropane	0.0569 0.1052	0.0967 0.1066	0.1028	0.1067	0.1059	Lin2	-0.024	0.1104							0.9960		0.9900
Isopropylbenzene	2.2695 2.5005	2.5888 2.2441	2.7438	2.8163	2.7038	Ave		2.5524				8.9		15.0			
Bromobenzene	0.5240 0.6085	0.6368 0.5880	0.6343	0.6638	0.6319	Ave		0.6125				7.5		15.0			
N-Propylbenzene	0.5976 0.6672	0.6669 0.6211	0.7227	0.7515	0.7143	Ave		0.6773				8.2		15.0			
2-Chlorotoluene	0.5498 0.5893	0.6163 0.5583	0.6641	0.6670	0.6332	Ave		0.6111				7.8		15.0			
4-Chlorotoluene	1.8261 1.9528	2.0915 1.8238	2.1799	2.1879	2.1091	Ave		2.0245				7.7		15.0			
1,3,5-Trimethylbenzene	2.0941 2.1580	2.4424 1.9951	2.4783	2.5065	2.3194	Ave		2.2848				8.9		15.0			
tert-Butylbenzene	1.7978 1.8020	2.0060 1.6530	2.0767	2.0916	1.9543	Ave		1.9116				8.6		15.0			
1,2,4-Trimethylbenzene	2.4479 2.2989	2.5874 2.1182	2.6711	2.6453	2.4630	Ave		2.4617				8.1		15.0			
sec-Butylbenzene	2.5812 2.5317	2.9074 2.3278	2.9668	3.0011	2.7537	Ave		2.7242				9.3		15.0			
Benzyl chloride	0.5318 0.7668	0.6064 0.7576	0.6640	0.7693	0.7934	Ave		0.6985				14.3		15.0			
1,3-Dichlorobenzene	1.1774 1.2377	1.3273 1.1607	1.4099	1.4014	1.3458	Ave		1.2943				7.9		15.0			
4-Isopropyltoluene	2.4061 2.1640	2.6021 1.9783	2.6716	2.6116	2.3961	Ave		2.4043				10.6		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dichlorobenzene	1.3049 1.2347	1.5101 1.1303	1.4783	1.4061	1.3255	Ave		1.3414				10.0		15.0			
1,2,3-Trimethylbenzene	2.4269 2.4074	2.7366 2.2208	2.8211	2.7553	2.6121	Ave		2.5686				8.6		15.0			
1,2-Dichlorobenzene	1.0942 1.1594	1.2696 1.0903	1.2974	1.2826	1.2330	Ave		1.2038				7.4		15.0			
n-Butylbenzene	2.0557 2.0767	2.2626 1.9240	2.3201	2.4113	2.2368	Ave		2.1839				7.8		15.0			
1,2-Dibromo-3-Chloropropane	0.0202 0.0723	0.0481 0.0760	0.0622	0.0659	0.0701	Lin2	-0.027	0.0740							0.9990		0.9900
1,3,5-Trichlorobenzene	0.9459 1.0406	1.0959 0.9353	1.1962	1.1594	1.1157	Ave		1.0698				9.4		15.0			
1,2,4-Trichlorobenzene	0.5549 0.6802	0.6562 0.6236	0.7133	0.7317	0.7071	Ave		0.6667				9.2		15.0			
Naphthalene	0.9688 0.8845	0.9517 0.7918	0.9522	0.9221	0.9083	Ave		0.9113				6.6		15.0			
Hexachlorobutadiene	0.1818 0.1856	0.2163 0.1663	0.2144	0.2205	0.1984	Ave		0.1976				10.4		15.0			
1,2,3-Trichlorobenzene	0.3421 0.4404	0.4662 0.3973	0.4937	0.4868	0.4549	Ave		0.4402				12.2		15.0			
Dibromofluoromethane	0.2709 0.2960	0.3151 0.2799	0.3346	0.3181	0.3160	Ave		0.3044				7.5		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2661 0.3119	0.3213 0.2872	0.3282	0.3253	0.3235	Ave		0.3091				7.6		15.0			
Toluene-d8 (Surr)	2.0250 2.0883	2.1425 1.8998	2.2007	2.2503	2.2034	Ave		2.1157				5.8		15.0			
4-Bromofluorobenzene	0.7816 0.7262	0.7743 0.6961	0.7957	0.7928	0.7713	Ave		0.7626				4.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-302094/2	C23901.D
Level 2	IC 600-302094/3	C23902.D
Level 3	IC 600-302094/4	C23903.D
Level 4	IC 600-302094/5	C23904.D
Level 5	ICIS 600-302094/6	C23905.D
Level 6	IC 600-302094/7	C23906.D
Level 7	IC 600-302094/8	C23907.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	3099 172445	7112 385018	15451	40565	83980	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloromethane	FB	Ave	1982 77527	3323 189520	6992	17682	36569	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Vinyl chloride	FB	Ave	2179 110738	4460 224794	9766	26304	53367	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Butadiene	FB	Ave	2381 105366	4482 225950	9953	26928	53588	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromomethane	FB	Lin2	1297 79675	2451 213103	5416	15337	35293	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloroethane	FB	Ave	1493 84919	3358 195687	7367	19730	40757	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dichlorofluoromethane	FB	Ave	5141 269676	10766 630942	24136	64492	129435	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acrolein	FB	Lin2	322 31484	1098 88146	2364	6620	15140	2.50 100	5.00 250	10.0	25.0	50.0
Trichlorofluoromethane	FB	Ave	7282 364888	15591 819887	34593	92876	187211	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acetonitrile	FB	Lin2	484 39013	1521 107127	3579	8794	18672	5.00 200	10.0 500	20.0	50.0	100
Isopropyl alcohol	FB	Lin2	253 24806	679 71359	1858	5450	11480	5.00 200	10.0 500	20.0	50.0	100
Acetone	FB	Ave	+++++ 26099	1571 73554	3001	6564	12613	+++++ 40.0	2.00 100	4.00	10.0	20.0
Ethyl ether	FB	Ave	1629 77779	3608 198351	7407	18046	38712	0.500 20.0	1.00 50.0	2.00	5.00	10.0
t-Butanol	FB	Ave	906 58024	2565 160513	5156	13643	29529	5.00 200	10.0 500	20.0	50.0	100
1,1-Dichloroethene	FB	Ave	2935 120193	5836 297346	12502	30716	61941	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Lin2	1565 111963	4363 290223	9313	24206	53254	5.00 200	10.0 500	20.0	50.0	100
Iodomethane	FB	Ave	3277 186310	6614 378287	14499	38275	86322	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methylene Chloride	FB	Lin2	15066 116684	16439 280892	22996	37709	63729	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl acetate	FB	Ave	1021 64520	2878 167010	6349	15274	32816	1.00 40.0	2.00 100	4.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	3630 140295	7397 347063	14808	36868	73401	0.500 20.0	1.00 50.0	2.00	5.00	10.0
3-Chloro-1-propene	FB	Ave	1667 75029	3382 174151	7132	18738	37865	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon disulfide	FB	Ave	10024 363303	18494 918612	35709	86427	168986	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	3274 128051	6602 331885	13570	32557	66358	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl tert-butyl ether	FB	Ave	6718 321102	15601 821554	31983	79199	164232	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1-Dichloroethane	FB	Ave	5955 249943	13142 626915	26850	65346	129986	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Propionitrile	FB	Ave	+++++ 51112	1607 134604	3638	11055	23624	+++++ 200	10.0 500	20.0	50.0	100
Vinyl acetate	FB	Ave	3858 228028	7632 574072	17715	54547	110687	1.00 40.0	2.00 100	4.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	5193 234119	11274 556823	24417	62223	123927	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexane	FB	Ave	4287 163178	8766 390675	18225	45393	89243	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropyl ether	FB	Ave	9066 352988	19905 820789	41411	97013	190535	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Lin2	+++++ 12370	168 33151	848	2635	5967	+++++ 40.0	2.00 100	4.00	10.0	20.0
Methacrylonitrile	FB	Lin2	786 65161	2556 169828	5732	14821	32101	5.00 200	10.0 500	20.0	50.0	100
cis-1,2-Dichloroethene	FB	Ave	2973 131580	6388 337464	13200	32196	66039	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acetate	FB	Lin2	1178 91468	3202 252816	7472	20212	43256	1.00 40.0	2.00 100	4.00	10.0	20.0
Chlorobromomethane	FB	Ave	1030 52217	2421 132373	5571	13607	26906	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-butyl ethyl ether	FB	Ave	9007 409173	19961 984861	42741	104780	209350	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Isobutyl alcohol	FB	Lin2	3507 88942	4970 225290	10191	24331	48754	12.5 500	25.0 1250	50.0	125	250
Chloroform	FB	Ave	7793 267867	14639 653310	29775	70424	141095	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2,2-Dichloropropane	FB	Ave	7430 326862	15719 787594	33250	84829	170793	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrahydrofuran	FB	Lin2	261 21749	948 60875	1805	5119	10947	1.00 40.0	2.00 100	4.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	3382 174365	7873 453934	16260	41874	86459	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	8066 324021	16554 803787	34547	85884	170373	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	4573 218610	10591 553116	21218	56488	112782	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Cyclohexane	FB	Ave	5245 199883	9990 498522	21160	53962	105320	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	7061 302429	15235 745166	31240	79302	157870	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzene	FB	Ave	12247 499788	24869 1213018	51226	130881	260557	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-amyl methyl ether	FB	Ave	6678 325621	15253 863047	32585	80502	165460	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isooctane	FB	Ave	8885 328538	17470 810647	34795	90182	174314	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acrylate	FB	Lin2	1259 98936	3760 263510	8195	22656	48632	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Heptane	FB	Ave	3441 150515	7226 366530	15384	40007	78073	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	976 51134	2236 133413	4720	12082	25013	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Ave	2378 103489	5131 254194	11078	27236	53556	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Nitropropane	FB	Lin2	612 43942	1439 110579	3597	9979	20503	1.00 40.0	2.00 100	4.00	10.0	20.0
Trichloroethene	FB	Ave	3554 148006	7549 373057	15673	37744	76290	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	3595 200035	8599 513501	18923	49500	101332	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl methacrylate	FB	Lin2	1425 113848	4285 295272	9584	27158	55913	1.00 40.0	2.00 100	4.00	10.0	20.0
1,4-Dioxane	FB	Lin2	+++++ 8763	121 26309	551	1572	3745	+++++ 400	20.0 1000	40.0	100	200

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Chloroethyl vinyl ether	CBNZ d5	Lin1	+++++ 25112	271 81542	1032	4078	10519	+++++ 40.0	2.00 100	4.00	10.0	20.0
Methylcyclohexane	FB	Ave	4987 216724	10362 542746	22504	57182	114705	0.500 20.0	1.00 50.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	3443 188087	7590 495234	16575	44462	92332	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	FB	Lin2	1206 94225	3455 254431	7331	20205	44647	1.00 40.0	2.00 100	4.00	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	2436 156628	5689 424856	12733	35466	76148	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	1187 68908	3211 183903	6478	16340	34323	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl methacrylate	CBNZ d5	Lin2	1277 90875	2848 243357	6899	19601	42905	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene	CBNZ d5	Ave	7293 319520	15351 791978	31831	80137	162004	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	2292 128746	5643 342719	11892	30609	63160	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Hexanone	CBNZ d5	Ave	+++++ 57842	1878 167527	4728	12628	27527	+++++ 40.0	2.00 100	4.00	10.0	20.0
Dibromochloromethane	CBNZ d5	Lin2	1599 116238	4308 311890	9847	25771	54986	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butyl acetate	CBNZ d5	Lin2	812 76511	2466 213244	5736	16499	35744	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Lin2	825 68325	2546 189317	6023	15806	32728	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	2854 126777	5928 320525	12784	31681	65064	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1-Chlorohexane	CBNZ d5	Ave	2505 128045	5362 323092	12086	32113	64473	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	DCBd 4	Ave	2733 144835	6341 372630	13883	35302	73265	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	7067 322566	15362 819093	31423	78702	160351	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	3936 191998	8901 478603	18178	47738	96079	0.500 20.0	1.00 50.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	10466 493013	22651 1225135	48260	123961	248708	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromoform	CBNZ d5	Lin2	842 60060	2115 173338	4812	12644	28037	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Styrene	CBNZ d5	Ave	5886 324025	14139 827411	28142	75549	159858	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
o-Xylene	CBNZ d5	Ave	4869 219253	10443 542487	21731	55996	111308	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 68271	3163 180387	6712	16717	33956	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin2	+++++ 19810	102 59056	1041	3690	8921	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Lin2	313 25023	1042 69587	2200	5719	11867	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	12486 594974	27908 1464989	58743	151002	303119	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromobenzene	DCBd 4	Ave	2883 144793	6865 383819	13580	35593	70845	0.500 20.0	1.00 50.0	2.00	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	3288 158746	7189 405444	15472	40293	80081	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	3025 140222	6644 364468	14217	35763	70985	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	10047 464666	22547 1190599	46670	117309	236448	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	11521 513489	26330 1302398	53060	134393	260026	0.500 20.0	1.00 50.0	2.00	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	9891 428782	21625 1079116	44461	112143	219099	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	13468 547021	27893 1382762	57186	141831	276133	0.500 20.0	1.00 50.0	2.00	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	14201 602409	31342 1519592	63517	160907	308713	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzyl chloride	DCBd 4	Ave	2926 182465	6537 494588	14216	41249	88945	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	6478 294495	14309 757699	30185	75141	150881	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	13238 514901	28051 1291478	57197	140026	268623	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	7179 293797	16279 737845	31649	75388	148603	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	13352 572822	29501 1449724	60399	147728	292841	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	6020 275868	13687 711764	27776	68769	138234	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	11310 494137	24391 1256008	49672	129287	250774	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin2	111 17194	519 49583	1332	3533	7860	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,3,5-Trichlorobenzene	DCBd 4	Ave	5204 247603	11814 610594	25609	62164	125078	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	3053 161860	7074 407089	15271	39229	79276	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Naphthalene	DCBd 4	Ave	5330 210460	10259 516918	20387	49441	101825	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	1000 44168	2332 108540	4590	11822	22244	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	1882 104795	5026 259328	10569	26099	51004	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromofluoromethane	FB	Ave	3151 142222	6810 363801	14588	35205	72927	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	3095 149864	6945 373213	14310	36005	74654	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene-d8 (Surr)	CBNZ d5	Ave	10054 438955	20825 1113150	42695	111303	231242	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Bromofluorobenzene	DCBd 4	Ave	4300 172788	8347 454445	17035	42506	86469	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: ICV 600-302094/1010 Calibration Date: 08/26/2020 14:49

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C23909-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3336	0.3107		9.31	10.0	-6.9	50.0
Chloromethane	Ave	0.1586	0.1608	0.1000	10.1	10.0	1.4	30.0
Vinyl chloride	Ave	0.2129	0.2122		9.97	10.0	-0.3	30.0
Butadiene	Ave	0.2156	0.2047		9.50	10.0	-5.0	50.0
Bromomethane	Lin2		0.1442		9.59	10.0	-4.2	30.0
Chloroethane	Ave	0.1621	0.1738		10.7	10.0	7.2	30.0
Dichlorofluoromethane	Ave	0.5263	0.5157		9.80	10.0	-2.0	30.0
Acrolein	Lin2		0.0113		44.1	50.0	-11.7	50.0
Trichlorofluoromethane	Ave	0.7402	0.7161		9.67	10.0	-3.3	30.0
Acetonitrile	Lin2		0.0082		98.5	100	-1.5	30.0
Isopropyl alcohol	Lin2		0.0049		97.9	100	-2.1	50.0
Acetone	Ave	0.0305	0.0274		18.0	20.0	-10.2	50.0
Ethyl ether	Ave	0.1603	0.1542		9.62	10.0	-3.8	50.0
t-Butanol	Ave	0.0116	0.0119		103	100	3.2	30.0
1,1-Dichloroethene	Ave	0.2620	0.2571		9.82	10.0	-1.9	30.0
Acrylonitrile	Lin2		0.0213		93.4	100	-6.6	50.0
Iodomethane	Ave	0.3313	0.2838		8.57	10.0	-14.3	30.0
Methylene Chloride	Lin2		0.2433		8.42	10.0	-15.8	50.0
Methyl acetate	Ave	0.0650	0.0673		20.7	20.0	3.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3149	0.2931		9.31	10.0	-6.9	30.0
3-Chloro-1-propene	Ave	0.1553	0.1556		10.0	10.0	0.2	30.0
Carbon disulfide	Ave	0.7875	0.7312		9.29	10.0	-7.1	30.0
trans-1,2-Dichloroethene	Ave	0.2860	0.2749		9.61	10.0	-3.9	30.0
Methyl tert-butyl ether	Ave	0.6801	0.6421		9.44	10.0	-5.6	30.0
Propionitrile	Ave	0.0095	0.0099		104	100	3.9	30.0
1,1-Dichloroethane	Ave	0.5560	0.5175	0.1000	9.31	10.0	-6.9	30.0
Vinyl acetate	Ave	0.2129	0.2346		22.0	20.0	10.2	50.0
2-Chloro-1,3-butadiene	Ave	0.5062	0.5303		10.5	10.0	4.8	30.0
Hexane	Ave	0.3756	0.3658		9.74	10.0	-2.6	30.0
Isopropyl ether	Ave	0.8170	0.7603		9.31	10.0	-6.9	30.0
2-Butanone (MEK)	Lin2		0.0129		20.4	20.0	1.7	50.0
Methacrylonitrile	Lin2		0.0140		102	100	1.7	30.0
cis-1,2-Dichloroethene	Ave	0.2806	0.2727		9.72	10.0	-2.8	30.0
Ethyl acetate	Lin2		0.0839		17.8	20.0	-10.8	30.0
Chlorobromomethane	Ave	0.1112	0.1081		9.72	10.0	-2.8	30.0
Tert-butyl ethyl ether	Ave	0.8774	0.8476		9.66	10.0	-3.4	30.0
Isobutyl alcohol	Lin2		0.0070		220	250	-11.9	50.0
Chloroform	Ave	0.6197	0.5490		8.86	10.0	-11.4	30.0
2,2-Dichloropropane	Ave	0.7031	0.6226		8.86	10.0	-11.4	30.0
Tetrahydrofuran	Lin2		0.0224		19.1	20.0	-4.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: ICV 600-302094/1010 Calibration Date: 08/26/2020 14:49

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C23909-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3562	0.3275		9.20	10.0	-8.1	30.0
1,1,1-Trichloroethane	Ave	0.7227	0.6709		9.28	10.0	-7.2	30.0
1,1-Dichloropropene	Ave	0.4642	0.4524		9.75	10.0	-2.5	30.0
Cyclohexane	Ave	0.4489	0.4372		9.74	10.0	-2.6	50.0
Carbon tetrachloride	Ave	0.6617	0.6250		9.45	10.0	-5.6	30.0
Benzene	Ave	1.095	1.038		9.48	10.0	-5.2	30.0
Tert-amyl methyl ether	Ave	0.6876	0.6608		9.61	10.0	-3.9	30.0
Isooctane	Ave	0.7497	0.7652		10.2	10.0	2.1	30.0
Ethyl acrylate	Lin2		0.1939		9.38	10.0	-6.2	30.0
n-Heptane	Ave	0.3254	0.3256		10.0	10.0	0.0	30.0
Dibromomethane	Ave	0.1032	0.1015		9.84	10.0	-1.6	30.0
1,2-Dichloropropane	Ave	0.2264	0.2197		9.70	10.0	-3.0	30.0
2-Nitropropane	Lin2		0.0426		19.3	20.0	-3.6	30.0
Trichloroethene	Ave	0.3259	0.3132		9.61	10.0	-3.9	30.0
Bromodichloromethane	Ave	0.4055	0.3958		9.76	10.0	-2.4	30.0
Methyl methacrylate	Lin2		0.1177		19.7	20.0	-1.6	50.0
1,4-Dioxane	Lin2		0.0007		162	200	-19.0	50.0
2-Chloroethyl vinyl ether	Lin1		0.0511		17.5	20.0	-12.5	30.0
Methylcyclohexane	Ave	0.4724	0.4758		10.1	10.0	0.7	30.0
cis-1,3-Dichloropropene	Ave	0.8353	0.8110		9.71	10.0	-2.9	30.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.0967		20.2	20.0	0.8	50.0
trans-1,3-Dichloropropene	Ave	0.6636	0.6576		9.91	10.0	-0.9	30.0
1,1,2-Trichloroethane	Ave	0.3146	0.2980		9.47	10.0	-5.3	30.0
Ethyl methacrylate	Lin2		0.3828		9.45	10.0	-5.5	50.0
Toluene	Ave	1.532	1.449		9.46	10.0	-5.4	30.0
1,3-Dichloropropane	Ave	0.5819	0.5672		9.75	10.0	-2.5	30.0
2-Hexanone	Ave	0.1263	0.1324		21.0	20.0	4.8	50.0
Dibromochloromethane	Lin2		0.4801		8.99	10.0	-10.2	30.0
n-Butyl acetate	Lin2		0.3366		9.71	10.0	-2.9	30.0
1,2-Dibromoethane	Lin2		0.2846		8.82	10.0	-11.8	30.0
Tetrachloroethene	Ave	0.6078	0.5721		9.41	10.0	-5.9	30.0
1-Chlorohexane	Ave	0.5862	0.6119		10.4	10.0	4.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.6035	0.5595		9.27	10.0	-7.3	30.0
Chlorobenzene	Ave	1.525	1.420	0.3000	9.31	10.0	-6.9	30.0
Ethylbenzene	Ave	0.8938	0.8550		9.57	10.0	-4.3	30.0
m-Xylene & p-Xylene	Ave	2.320	2.185		9.42	10.0	-5.8	30.0
Bromoform	Lin2		0.2450	0.1000	8.94	10.0	-10.6	30.0
Styrene	Ave	1.442	1.435		9.95	10.0	-0.5	30.0
o-Xylene	Ave	1.048	1.001		9.55	10.0	-4.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3276	0.3058	0.3000	9.34	10.0	-6.6	30.0
trans-1,4-Dichloro-2-butene	Lin2		0.0657		8.37	10.0	-16.3	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: ICV 600-302094/1010 Calibration Date: 08/26/2020 14:49

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C23909-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Lin2		0.0946		8.79	10.0	-12.2	30.0
Isopropylbenzene	Ave	2.552	2.410		9.44	10.0	-5.6	30.0
Bromobenzene	Ave	0.6125	0.5621		9.18	10.0	-8.2	30.0
N-Propylbenzene	Ave	0.6773	0.6458		9.54	10.0	-4.7	30.0
2-Chlorotoluene	Ave	0.6111	0.5678		9.29	10.0	-7.1	30.0
4-Chlorotoluene	Ave	2.024	1.836		9.07	10.0	-9.3	30.0
1,3,5-Trimethylbenzene	Ave	2.285	2.070		9.06	10.0	-9.4	30.0
tert-Butylbenzene	Ave	1.912	1.760		9.21	10.0	-7.9	30.0
1,2,4-Trimethylbenzene	Ave	2.462	2.202		8.95	10.0	-10.5	30.0
sec-Butylbenzene	Ave	2.724	2.517		9.24	10.0	-7.6	30.0
Benzyl chloride	Ave	0.6985	0.6984		10.00	10.0	-0.0	30.0
1,3-Dichlorobenzene	Ave	1.294	1.188		9.18	10.0	-8.2	30.0
4-Isopropyltoluene	Ave	2.404	2.172		9.03	10.0	-9.7	30.0
1,4-Dichlorobenzene	Ave	1.341	1.224		9.13	10.0	-8.7	30.0
1,2,3-Trimethylbenzene	Ave	2.569	2.442		9.51	10.0	-4.9	30.0
1,2-Dichlorobenzene	Ave	1.204	1.101		9.15	10.0	-8.5	30.0
n-Butylbenzene	Ave	2.184	2.048		9.38	10.0	-6.2	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0642		9.04	10.0	-9.6	30.0
1,3,5-Trichlorobenzene	Ave	1.070	1.085		10.1	10.0	1.4	30.0
1,2,4-Trichlorobenzene	Ave	0.6667	0.6692		10.0	10.0	0.4	30.0
Naphthalene	Ave	0.9113	0.8950		9.82	10.0	-1.8	30.0
Hexachlorobutadiene	Ave	0.1976	0.1871		9.47	10.0	-5.3	30.0
1,2,3-Trichlorobenzene	Ave	0.4402	0.4471		10.2	10.0	1.6	30.0
Dibromofluoromethane	Ave	0.3044	0.2950		12.1	12.5	-3.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3091	0.2773		11.2	12.5	-10.3	30.0
Toluene-d8 (Surr)	Ave	2.116	2.171		12.8	12.5	2.6	30.0
4-Bromofluorobenzene	Ave	0.7626	0.8453		13.9	12.5	10.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: ICV 600-302570/1011 Calibration Date: 09/01/2020 17:12

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C24410-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane	Ave	0.3044	0.2982		12.3	12.5	-2.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3091	0.2826		11.4	12.5	-8.6	30.0
Toluene-d8 (Surr)	Ave	2.116	2.085		12.3	12.5	-1.4	30.0
4-Bromofluorobenzene	Ave	0.7626	0.8584		14.1	12.5	12.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: ICV 600-302570/1011 Calibration Date: 09/01/2020 17:12

Instrument ID: CHVOAMS01 Calib Start Date: 09/01/2020 13:30

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 09/01/2020 15:48

Lab File ID: C24410-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Methyltetrahydrofuran	Ave	0.0399	0.0436		54.6	50.0	9.2	30.0
Tetrahydropyran	Ave	0.0308	0.0326		53.0	50.0	5.9	30.0
2-Methyltetrahydropyran	Ave	0.1888	0.2037		54.0	50.0	7.9	30.0
2-Ethyl-2-hexenal	Lin2		0.1812		17.3	20.0	-13.7	30.0
2-Ethyl-1-Hexanol	Ave	0.0329	0.0357		434	400	8.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCVIS 600-304980/2 Calibration Date: 10/07/2020 11:26

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C28101.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3336	0.2772		8.31	10.0	-16.9	35.0
Chloromethane	Ave	0.1586	0.1420	0.1000	8.95	10.0	-10.5	35.0
Vinyl chloride	Ave	0.2129	0.2371		11.1	10.0	11.4	20.0
Butadiene	Ave	0.2156	0.2556		11.9	10.0	18.6	35.0
Bromomethane	Lin2		0.1930		12.8	10.0	27.7	35.0
Chloroethane	Ave	0.1621	0.1802		11.1	10.0	11.2	35.0
Dichlorofluoromethane	Ave	0.5263	0.6935		13.2	10.0	31.8	35.0
Acrolein	Lin2		0.0083		32.8	50.0	-34.4	50.0
Trichlorofluoromethane	Ave	0.7402	0.997		13.5	10.0	34.7	35.0
Acetonitrile	Lin2		0.0067		81.6	100	-18.4	50.0
Isopropyl alcohol	Lin2		0.0036		72.8	100	-27.2	50.0
Acetone	Ave	0.0305	0.0308		20.2	20.0	1.0	50.0
Ethyl ether	Ave	0.1603	0.1430		8.92	10.0	-10.8	35.0
1,1-Dichloroethene	Ave	0.2620	0.2838		10.8	10.0	8.3	20.0
t-Butanol	Ave	0.0116	0.0105		91.0	100	-9.0	35.0
Acrylonitrile	Lin2		0.0189		82.9	100	-17.1	50.0
Iodomethane	Ave	0.3313	0.2543		7.68	10.0	-23.3	35.0
Methylene Chloride	Lin2		0.2787		10.00	10.0	-0.0	50.0
Methyl acetate	Ave	0.0650	0.0593		18.3	20.0	-8.7	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3149	0.3267		10.4	10.0	3.8	35.0
3-Chloro-1-propene	Ave	0.1553	0.1694		10.9	10.0	9.1	35.0
Carbon disulfide	Ave	0.7875	0.7736		9.82	10.0	-1.8	35.0
trans-1,2-Dichloroethene	Ave	0.2860	0.3020		10.6	10.0	5.6	35.0
Methyl tert-butyl ether	Ave	0.6801	0.6104		8.98	10.0	-10.3	35.0
1,1-Dichloroethane	Ave	0.5560	0.6402	0.1000	11.5	10.0	15.1	35.0
Propionitrile	Ave	0.0095	0.0076		79.9	100	-20.1	35.0
Vinyl acetate	Ave	0.2129	0.1987		18.7	20.0	-6.7	50.0
2-Chloro-1,3-butadiene	Ave	0.5062	0.6871		13.6	10.0	35.7*	35.0
Hexane	Ave	0.3756	0.4004		10.7	10.0	6.6	35.0
Isopropyl ether	Ave	0.8170	0.8131		9.95	10.0	-0.5	35.0
2-Butanone (MEK)	Lin2		0.0111		17.7	20.0	-11.4	50.0
Methacrylonitrile	Lin2		0.0107		78.2	100	-21.8	35.0
cis-1,2-Dichloroethene	Ave	0.2806	0.2967		10.6	10.0	5.7	35.0
Ethyl acetate	Lin2		0.0696		14.9	20.0	-25.6	35.0
Chlorobromomethane	Ave	0.1112	0.1110		9.98	10.0	-0.2	35.0
Tert-butyl ethyl ether	Ave	0.8774	0.8047		9.17	10.0	-8.3	35.0
Chloroform	Ave	0.6197	0.7406		12.0	10.0	19.5	20.0
Isobutyl alcohol	Lin2		0.0072		225	250	-9.9	50.0
2,2-Dichloropropane	Ave	0.7031	0.9356		13.3	10.0	33.1	35.0
Tetrahydrofuran	Lin2		0.0194		16.6	20.0	-16.9	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCVIS 600-304980/2 Calibration Date: 10/07/2020 11:26

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C28101.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3562	0.4473		12.6	10.0	25.6	35.0
1,1,1-Trichloroethane	Ave	0.7227	0.9339		12.9	10.0	29.2	35.0
1,1-Dichloropropene	Ave	0.4642	0.5598		12.1	10.0	20.6	35.0
Cyclohexane	Ave	0.4489	0.4573		10.2	10.0	1.9	35.0
Carbon tetrachloride	Ave	0.6617	0.8612		13.0	10.0	30.1	35.0
Benzene	Ave	1.095	1.255		11.5	10.0	14.6	35.0
Tert-amyl methyl ether	Ave	0.6876	0.5686		8.27	10.0	-17.3	35.0
Isooctane	Ave	0.7497	0.8022		10.7	10.0	7.0	35.0
Ethyl acrylate	Lin2		0.1794		8.69	10.0	-13.1	35.0
n-Heptane	Ave	0.3254	0.3653		11.2	10.0	12.2	35.0
1,2-Dichloropropane	Ave	0.2264	0.2312		10.2	10.0	2.1	20.0
Dibromomethane	Ave	0.1032	0.1140		11.1	10.0	10.5	35.0
2-Nitropropane	Lin2		0.0454		20.5	20.0	2.5	35.0
Trichloroethene	Ave	0.3259	0.3345		10.3	10.0	2.6	35.0
Bromodichloromethane	Ave	0.4055	0.4857		12.0	10.0	19.8	35.0
Methyl methacrylate	Lin2		0.1056		17.7	20.0	-11.5	50.0
1,4-Dioxane	Lin2		0.0005		116	200	-41.8	50.0
Methylcyclohexane	Ave	0.4724	0.4856		10.3	10.0	2.8	35.0
cis-1,3-Dichloropropene	Ave	0.8353	0.7735		9.26	10.0	-7.4	35.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.0773		16.2	20.0	-18.9	50.0
trans-1,3-Dichloropropene	Ave	0.6636	0.6330		9.54	10.0	-4.6	35.0
1,1,2-Trichloroethane	Ave	0.3146	0.2586		8.22	10.0	-17.8	35.0
Ethyl methacrylate	Lin2		0.2831		7.05	10.0	-29.5	50.0
Toluene	Ave	1.532	1.486		9.70	10.0	-3.0	20.0
1,3-Dichloropropane	Ave	0.5819	0.5222		8.97	10.0	-10.3	35.0
2-Hexanone	Ave	0.1263	0.1010		16.0	20.0	-20.0	50.0
Dibromochloromethane	Lin2		0.4572		8.57	10.0	-14.3	35.0
n-Butyl acetate	Lin2		0.2576		7.49	10.0	-25.1	35.0
1,2-Dibromoethane	Lin2		0.2578		8.01	10.0	-19.9	35.0
Tetrachloroethene	Ave	0.6078	0.5211		8.58	10.0	-14.3	35.0
1-Chlorohexane	Ave	0.5862	0.6601		11.3	10.0	12.6	35.0
1,1,1,2-Tetrachloroethane	Ave	0.6035	0.6286		10.4	10.0	4.2	35.0
Chlorobenzene	Ave	1.525	1.410	0.3000	9.24	10.0	-7.6	35.0
Ethylbenzene	Ave	0.8938	0.8621		9.65	10.0	-3.5	20.0
m-Xylene & p-Xylene	Ave	2.320	2.403		10.4	10.0	3.6	35.0
Bromoform	Lin2		0.2192	0.1000	8.02	10.0	-19.8	35.0
Styrene	Ave	1.442	1.379		9.56	10.0	-4.4	35.0
o-Xylene	Ave	1.048	1.012		9.65	10.0	-3.5	35.0
1,1,2,2-Tetrachloroethane	Ave	0.3276	0.3829	0.3000	11.7	10.0	16.9	35.0
trans-1,4-Dichloro-2-butene	Lin2		0.0620		7.94	10.0	-20.6	50.0
1,2,3-Trichloropropane	Lin2		0.1015		9.42	10.0	-5.8	35.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCVIS 600-304980/2 Calibration Date: 10/07/2020 11:26

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C28101.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	2.552	3.043		11.9	10.0	19.2	35.0
Bromobenzene	Ave	0.6125	0.6178		10.1	10.0	0.9	35.0
N-Propylbenzene	Ave	0.6773	0.7930		11.7	10.0	17.1	35.0
2-Chlorotoluene	Ave	0.6111	0.6855		11.2	10.0	12.2	35.0
4-Chlorotoluene	Ave	2.024	2.505		12.4	10.0	23.7	35.0
1,3,5-Trimethylbenzene	Ave	2.285	2.848		12.5	10.0	24.6	35.0
tert-Butylbenzene	Ave	1.912	2.325		12.2	10.0	21.6	35.0
1,2,4-Trimethylbenzene	Ave	2.462	2.963		12.0	10.0	20.3	35.0
sec-Butylbenzene	Ave	2.724	3.386		12.4	10.0	24.3	35.0
Benzyl chloride	Ave	0.6985	0.6408		9.17	10.0	-8.3	35.0
1,3-Dichlorobenzene	Ave	1.294	1.346		10.4	10.0	4.0	35.0
4-Isopropyltoluene	Ave	2.404	2.965		12.3	10.0	23.3	35.0
1,4-Dichlorobenzene	Ave	1.341	1.324		9.87	10.0	-1.3	35.0
1,2,3-Trimethylbenzene	Ave	2.569	2.987		11.6	10.0	16.3	35.0
1,2-Dichlorobenzene	Ave	1.204	1.127		9.36	10.0	-6.4	35.0
n-Butylbenzene	Ave	2.184	2.746		12.6	10.0	25.7	35.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0492		7.00	10.0	-30.0	35.0
1,3,5-Trichlorobenzene	Ave	1.070	0.9665		9.03	10.0	-9.7	35.0
1,2,4-Trichlorobenzene	Ave	0.6667	0.4705		7.06	10.0	-29.4	35.0
Naphthalene	Ave	0.9113	0.6544		7.18	10.0	-28.2	35.0
Hexachlorobutadiene	Ave	0.1976	0.2139		10.8	10.0	8.3	35.0
1,2,3-Trichlorobenzene	Ave	0.4402	0.3500		7.95	10.0	-20.5	35.0
2-Chloroethyl vinyl ether	Lin1				0.500	20.0	-100.0*	35.0
Dibromofluoromethane	Ave	0.3044	0.3430		11.3	10.0	12.7	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3091	0.3838		12.4	10.0	24.2	35.0
Toluene-d8 (Surr)	Ave	2.116	1.953		9.23	10.0	-7.7	35.0
4-Bromofluorobenzene	Ave	0.7626	0.8749		11.5	10.0	14.7	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCVIS 600-305068/2 Calibration Date: 10/08/2020 11:36

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C28201A.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3336	0.2787		8.35	10.0	-16.5	35.0
Chloromethane	Ave	0.1586	0.1629	0.1000	10.3	10.0	2.8	35.0
Vinyl chloride	Ave	0.2129	0.2540		11.9	10.0	19.3	20.0
Butadiene	Ave	0.2156	0.2703		12.5	10.0	25.4	35.0
Bromomethane	Lin2		0.1956		12.9	10.0	29.4	35.0
Chloroethane	Ave	0.1621	0.1765		10.9	10.0	8.9	35.0
Dichlorofluoromethane	Ave	0.5263	0.6686		12.7	10.0	27.0	35.0
Acrolein	Lin2		0.0102		40.0	50.0	-20.0	50.0
Trichlorofluoromethane	Ave	0.7402	0.9637		13.0	10.0	30.2	35.0
Acetonitrile	Lin2		0.0072		87.7	100	-12.3	50.0
Isopropyl alcohol	Lin2		0.0062		122	100	22.0	50.0
Acetone	Ave	0.0305	0.0399		26.1	20.0	30.6	50.0
Ethyl ether	Ave	0.1603	0.1471		9.18	10.0	-8.2	35.0
1,1-Dichloroethene	Ave	0.2620	0.2807		10.7	10.0	7.2	20.0
t-Butanol	Ave	0.0116	0.0117		101	100	1.4	35.0
Acrylonitrile	Lin2		0.0195		85.5	100	-14.5	50.0
Iodomethane	Ave	0.3313	0.2677		8.08	10.0	-19.2	35.0
Methylene Chloride	Lin2		0.2775		9.94	10.0	-0.6	50.0
Methyl acetate	Ave	0.0650	0.0626		19.3	20.0	-3.6	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3149	0.3282		10.4	10.0	4.2	35.0
3-Chloro-1-propene	Ave	0.1553	0.1626		10.5	10.0	4.7	35.0
Carbon disulfide	Ave	0.7875	0.7415		9.42	10.0	-5.8	35.0
trans-1,2-Dichloroethene	Ave	0.2860	0.2965		10.4	10.0	3.7	35.0
Methyl tert-butyl ether	Ave	0.6801	0.6289		9.25	10.0	-7.5	35.0
1,1-Dichloroethane	Ave	0.5560	0.6192	0.1000	11.1	10.0	11.4	35.0
Propionitrile	Ave	0.0095	0.0089		93.3	100	-6.7	35.0
Vinyl acetate	Ave	0.2129	0.2033		19.1	20.0	-4.5	50.0
2-Chloro-1,3-butadiene	Ave	0.5062	0.6573		13.0	10.0	29.9	35.0
Hexane	Ave	0.3756	0.3964		10.6	10.0	5.5	35.0
Isopropyl ether	Ave	0.8170	0.8051		9.86	10.0	-1.4	35.0
2-Butanone (MEK)	Lin2		0.0119		19.0	20.0	-5.2	50.0
Methacrylonitrile	Lin2		0.0115		84.3	100	-15.7	35.0
cis-1,2-Dichloroethene	Ave	0.2806	0.2927		10.4	10.0	4.3	35.0
Ethyl acetate	Lin2		0.0711		15.2	20.0	-24.1	35.0
Chlorobromomethane	Ave	0.1112	0.1086		9.77	10.0	-2.3	35.0
Isobutyl alcohol	Lin2		0.0082		259	250	3.7	50.0
Tert-butyl ethyl ether	Ave	0.8774	0.8041		9.17	10.0	-8.3	35.0
Chloroform	Ave	0.6197	0.7011		11.3	10.0	13.1	20.0
2,2-Dichloropropane	Ave	0.7031	0.8762		12.5	10.0	24.6	35.0
Tetrahydrofuran	Lin2		0.0156		13.4	20.0	-33.0	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCVIS 600-305068/2 Calibration Date: 10/08/2020 11:36

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C28201A.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3562	0.4266		12.0	10.0	19.8	35.0
1,1,1-Trichloroethane	Ave	0.7227	0.8761		12.1	10.0	21.2	35.0
1,1-Dichloropropene	Ave	0.4642	0.5191		11.2	10.0	11.8	35.0
Cyclohexane	Ave	0.4489	0.4529		10.1	10.0	0.9	35.0
Carbon tetrachloride	Ave	0.6617	0.8116		12.3	10.0	22.6	35.0
Benzene	Ave	1.095	1.077		9.84	10.0	-1.6	35.0
Tert-amyl methyl ether	Ave	0.6876	0.5724		8.32	10.0	-16.8	35.0
Isooctane	Ave	0.7497	0.7873		10.5	10.0	5.0	35.0
Ethyl acrylate	Lin2		0.1815		8.80	10.0	-12.0	35.0
n-Heptane	Ave	0.3254	0.3658		11.2	10.0	12.4	35.0
Dibromomethane	Ave	0.1032	0.1071		10.4	10.0	3.8	35.0
1,2-Dichloropropane	Ave	0.2264	0.2226		9.83	10.0	-1.7	20.0
2-Nitropropane	Lin2		0.0434		19.6	20.0	-1.9	35.0
Trichloroethene	Ave	0.3259	0.3237		9.93	10.0	-0.7	35.0
Bromodichloromethane	Ave	0.4055	0.4655		11.5	10.0	14.8	35.0
Methyl methacrylate	Lin2		0.1064		17.8	20.0	-10.8	50.0
1,4-Dioxane	Lin2		0.0006		138	200	-31.1	50.0
Methylcyclohexane	Ave	0.4724	0.4658		9.86	10.0	-1.4	35.0
cis-1,3-Dichloropropene	Ave	0.8353	0.7999		9.58	10.0	-4.2	35.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.0747		15.7	20.0	-21.6	50.0
trans-1,3-Dichloropropene	Ave	0.6636	0.6463		9.74	10.0	-2.6	35.0
1,1,2-Trichloroethane	Ave	0.3146	0.2707		8.61	10.0	-13.9	35.0
Ethyl methacrylate	Lin2		0.2994		7.44	10.0	-25.6	50.0
Toluene	Ave	1.532	1.400		9.14	10.0	-8.7	20.0
1,3-Dichloropropane	Ave	0.5819	0.5328		9.16	10.0	-8.4	35.0
2-Hexanone	Ave	0.1263	0.1096		17.4	20.0	-13.2	50.0
Dibromochloromethane	Lin2		0.4828		9.03	10.0	-9.7	35.0
n-Butyl acetate	Lin2		0.2715		7.88	10.0	-21.2	35.0
1,2-Dibromoethane	Lin2		0.2678		8.31	10.0	-16.9	35.0
Tetrachloroethene	Ave	0.6078	0.5395		8.88	10.0	-11.2	35.0
1-Chlorohexane	Ave	0.5862	0.6516		11.1	10.0	11.2	35.0
1,1,1,2-Tetrachloroethane	Ave	0.6035	0.6088		10.1	10.0	0.9	35.0
Chlorobenzene	Ave	1.525	1.425	0.3000	9.34	10.0	-6.6	35.0
Ethylbenzene	Ave	0.8938	0.8519		9.53	10.0	-4.7	20.0
m-Xylene & p-Xylene	Ave	2.320	2.322		10.0	10.0	0.0	35.0
Bromoform	Lin2		0.2332	0.1000	8.52	10.0	-14.8	35.0
Styrene	Ave	1.442	1.388		9.63	10.0	-3.7	35.0
o-Xylene	Ave	1.048	1.018		9.72	10.0	-2.8	35.0
1,1,2,2-Tetrachloroethane	Ave	0.3276	0.4063	0.3000	12.4	10.0	24.0	35.0
trans-1,4-Dichloro-2-butene	Lin2		0.0618		7.91	10.0	-20.9	50.0
1,2,3-Trichloropropane	Lin2		0.1032		9.57	10.0	-4.3	35.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCVIS 600-305068/2 Calibration Date: 10/08/2020 11:36

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C28201A.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	2.552	2.822		11.1	10.0	10.6	35.0
Bromobenzene	Ave	0.6125	0.5940		9.70	10.0	-3.0	35.0
N-Propylbenzene	Ave	0.6773	0.7400		10.9	10.0	9.3	35.0
2-Chlorotoluene	Ave	0.6111	0.6375		10.4	10.0	4.3	35.0
4-Chlorotoluene	Ave	2.024	2.334		11.5	10.0	15.3	35.0
1,3,5-Trimethylbenzene	Ave	2.285	2.654		11.6	10.0	16.1	35.0
tert-Butylbenzene	Ave	1.912	2.181		11.4	10.0	14.1	35.0
1,2,4-Trimethylbenzene	Ave	2.462	2.764		11.2	10.0	12.3	35.0
sec-Butylbenzene	Ave	2.724	3.140		11.5	10.0	15.3	35.0
Benzyl chloride	Ave	0.6985	0.6289		9.00	10.0	-10.0	35.0
1,3-Dichlorobenzene	Ave	1.294	1.298		10.0	10.0	0.3	35.0
4-Isopropyltoluene	Ave	2.404	2.770		11.5	10.0	15.2	35.0
1,4-Dichlorobenzene	Ave	1.341	1.282		9.56	10.0	-4.4	35.0
1,2,3-Trimethylbenzene	Ave	2.569	2.841		11.1	10.0	10.6	35.0
1,2-Dichlorobenzene	Ave	1.204	1.113		9.25	10.0	-7.5	35.0
n-Butylbenzene	Ave	2.184	2.569		11.8	10.0	17.6	35.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0540		7.67	10.0	-23.4	35.0
1,3,5-Trichlorobenzene	Ave	1.070	0.9739		9.10	10.0	-9.0	35.0
1,2,4-Trichlorobenzene	Ave	0.6667	0.5360		8.04	10.0	-19.6	35.0
Naphthalene	Ave	0.9113	0.7858		8.62	10.0	-13.8	35.0
Hexachlorobutadiene	Ave	0.1976	0.2219		11.2	10.0	12.3	35.0
1,2,3-Trichlorobenzene	Ave	0.4402	0.3692		8.39	10.0	-16.1	35.0
2-Chloroethyl vinyl ether	Lin1				0.500	20.0	-100.0*	35.0
Dibromofluoromethane	Ave	0.3044	0.3307		10.9	10.0	8.6	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3091	0.3628		11.7	10.0	17.4	35.0
Toluene-d8 (Surr)	Ave	2.116	1.975		9.34	10.0	-6.6	35.0
4-Bromofluorobenzene	Ave	0.7626	0.7989		10.5	10.0	4.8	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCVIS 600-305162/2 Calibration Date: 10/09/2020 11:50

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C28301.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3336	0.3044		9.12	10.0	-8.8	35.0
Chloromethane	Ave	0.1586	0.1667	0.1000	10.5	10.0	5.1	35.0
Vinyl chloride	Ave	0.2129	0.2652		12.5	10.0	24.6*	20.0
Butadiene	Ave	0.2156	0.2914		13.5	10.0	35.2*	35.0
Bromomethane	Lin2		0.1960		13.0	10.0	29.7	35.0
Chloroethane	Ave	0.1621	0.2023		12.5	10.0	24.8	35.0
Dichlorofluoromethane	Ave	0.5263	0.7580		14.4	10.0	44.0*	35.0
Acrolein	Lin2		0.0084		33.2	50.0	-33.6	50.0
Trichlorofluoromethane	Ave	0.7402	1.088		14.7	10.0	47.0*	35.0
Acetonitrile	Lin2		0.0068		82.4	100	-17.6	50.0
Isopropyl alcohol	Lin2		0.0034		69.0	100	-31.0	50.0
Acetone	Ave	0.0305	0.0340		22.3	20.0	11.2	50.0
Ethyl ether	Ave	0.1603	0.1382		8.62	10.0	-13.8	35.0
t-Butanol	Ave	0.0116	0.0103		88.9	100	-11.1	35.0
1,1-Dichloroethene	Ave	0.2620	0.2881		11.0	10.0	10.0	20.0
Acrylonitrile	Lin2		0.0182		79.8	100	-20.2	50.0
Iodomethane	Ave	0.3313	0.2566		7.74	10.0	-22.6	35.0
Methylene Chloride	Lin2		0.2743		9.80	10.0	-2.0	50.0
Methyl acetate	Ave	0.0650	0.0588		18.1	20.0	-9.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3149	0.3467		11.0	10.0	10.1	35.0
3-Chloro-1-propene	Ave	0.1553	0.1769		11.4	10.0	13.9	35.0
Carbon disulfide	Ave	0.7875	0.7894		10.0	10.0	0.2	35.0
trans-1,2-Dichloroethene	Ave	0.2860	0.3059		10.7	10.0	7.0	35.0
Methyl tert-butyl ether	Ave	0.6801	0.5972		8.78	10.0	-12.2	35.0
1,1-Dichloroethane	Ave	0.5560	0.6489	0.1000	11.7	10.0	16.7	35.0
Propionitrile	Ave	0.0095	0.0073		76.7	100	-23.3	35.0
Vinyl acetate	Ave	0.2129	0.1947		18.3	20.0	-8.5	50.0
2-Chloro-1,3-butadiene	Ave	0.5062	0.6838		13.5	10.0	35.1*	35.0
Hexane	Ave	0.3756	0.4173		11.1	10.0	11.1	35.0
Isopropyl ether	Ave	0.8170	0.8267		10.1	10.0	1.2	35.0
2-Butanone (MEK)	Lin2		0.0116		18.5	20.0	-7.4	50.0
Methacrylonitrile	Lin2		0.0097		71.2	100	-28.8	35.0
cis-1,2-Dichloroethene	Ave	0.2806	0.2961		10.6	10.0	5.5	35.0
Ethyl acetate	Lin2		0.0662		14.2	20.0	-29.2	35.0
Chlorobromomethane	Ave	0.1112	0.1038		9.33	10.0	-6.7	35.0
Isobutyl alcohol	Lin2		0.0074		233	250	-6.7	50.0
Tert-butyl ethyl ether	Ave	0.8774	0.8052		9.18	10.0	-8.2	35.0
Chloroform	Ave	0.6197	0.7554		12.2	10.0	21.9*	20.0
2,2-Dichloropropane	Ave	0.7031	0.9438		13.4	10.0	34.2	35.0
Tetrahydrofuran	Lin2		0.0226		19.3	20.0	-3.6	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCVIS 600-305162/2 Calibration Date: 10/09/2020 11:50

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C28301.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3562	0.4222		11.9	10.0	18.5	35.0
1,1,1-Trichloroethane	Ave	0.7227	0.9331		12.9	10.0	29.1	35.0
1,1-Dichloropropene	Ave	0.4642	0.5618		12.1	10.0	21.0	35.0
Cyclohexane	Ave	0.4489	0.4786		10.7	10.0	6.6	35.0
Carbon tetrachloride	Ave	0.6617	0.8608		13.0	10.0	30.1	35.0
Benzene	Ave	1.095	1.153		10.5	10.0	5.3	35.0
Tert-amyl methyl ether	Ave	0.6876	0.5628		8.19	10.0	-18.1	35.0
Isooctane	Ave	0.7497	0.8340		11.1	10.0	11.2	35.0
Ethyl acrylate	Lin2		0.1760		8.53	10.0	-14.7	35.0
n-Heptane	Ave	0.3254	0.3960		12.2	10.0	21.7	35.0
Dibromomethane	Ave	0.1032	0.1065		10.3	10.0	3.3	35.0
1,2-Dichloropropane	Ave	0.2264	0.2312		10.2	10.0	2.1	20.0
2-Nitropropane	Lin2		0.0410		18.6	20.0	-7.2	35.0
Trichloroethene	Ave	0.3259	0.3387		10.4	10.0	3.9	35.0
Bromodichloromethane	Ave	0.4055	0.4677		11.5	10.0	15.3	35.0
Methyl methacrylate	Lin2		0.0984		16.5	20.0	-17.3	50.0
1,4-Dioxane	Lin2		0.0003		75.2	200	-62.4*	50.0
Methylcyclohexane	Ave	0.4724	0.4951		10.5	10.0	4.8	35.0
cis-1,3-Dichloropropene	Ave	0.8353	0.7473		8.95	10.0	-10.5	35.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.0691		14.6	20.0	-27.3	50.0
trans-1,3-Dichloropropene	Ave	0.6636	0.5976		9.01	10.0	-9.9	35.0
1,1,2-Trichloroethane	Ave	0.3146	0.2468		7.84	10.0	-21.6	35.0
Ethyl methacrylate	Lin2		0.2674		6.67	10.0	-33.3	50.0
Toluene	Ave	1.532	1.418		9.25	10.0	-7.5	20.0
1,3-Dichloropropane	Ave	0.5819	0.4820		8.28	10.0	-17.2	35.0
2-Hexanone	Ave	0.1263	0.0972		15.4	20.0	-23.0	50.0
Dibromochloromethane	Lin2		0.4321		8.11	10.0	-18.9	35.0
n-Butyl acetate	Lin2		0.2361		6.89	10.0	-31.1	35.0
1,2-Dibromoethane	Lin2		0.2374		7.39	10.0	-26.1	35.0
Tetrachloroethene	Ave	0.6078	0.5258		8.65	10.0	-13.5	35.0
1-Chlorohexane	Ave	0.5862	0.6498		11.1	10.0	10.8	35.0
1,1,1,2-Tetrachloroethane	Ave	0.6035	0.6025		9.98	10.0	-0.2	35.0
Chlorobenzene	Ave	1.525	1.364	0.3000	8.95	10.0	-10.5	35.0
Ethylbenzene	Ave	0.8938	0.8414		9.41	10.0	-5.9	20.0
m-Xylene & p-Xylene	Ave	2.320	2.298		9.91	10.0	-0.9	35.0
Bromoform	Lin2		0.2059	0.1000	7.55	10.0	-24.5	35.0
Styrene	Ave	1.442	1.302		9.03	10.0	-9.7	35.0
o-Xylene	Ave	1.048	0.9814		9.36	10.0	-6.4	35.0
1,1,2,2-Tetrachloroethane	Ave	0.3276	0.3837	0.3000	11.7	10.0	17.1	35.0
trans-1,4-Dichloro-2-butene	Lin2		0.0550		7.15	10.0	-28.5	50.0
1,2,3-Trichloropropane	Lin2		0.1001		9.28	10.0	-7.2	35.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCVIS 600-305162/2 Calibration Date: 10/09/2020 11:50

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C28301.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	2.552	2.926		11.5	10.0	14.6	35.0
Bromobenzene	Ave	0.6125	0.5958		9.73	10.0	-2.7	35.0
N-Propylbenzene	Ave	0.6773	0.7762		11.5	10.0	14.6	35.0
2-Chlorotoluene	Ave	0.6111	0.6651		10.9	10.0	8.8	35.0
4-Chlorotoluene	Ave	2.024	2.337		11.6	10.0	15.5	35.0
1,3,5-Trimethylbenzene	Ave	2.285	2.748		12.0	10.0	20.3	35.0
tert-Butylbenzene	Ave	1.912	2.283		12.0	10.0	19.5	35.0
1,2,4-Trimethylbenzene	Ave	2.462	2.888		11.7	10.0	17.3	35.0
sec-Butylbenzene	Ave	2.724	3.323		12.2	10.0	22.0	35.0
Benzyl chloride	Ave	0.6985	0.5856		8.38	10.0	-16.2	35.0
1,3-Dichlorobenzene	Ave	1.294	1.297		10.0	10.0	0.2	35.0
4-Isopropyltoluene	Ave	2.404	2.890		12.0	10.0	20.2	35.0
1,4-Dichlorobenzene	Ave	1.341	1.307		9.74	10.0	-2.6	35.0
1,2,3-Trimethylbenzene	Ave	2.569	2.863		11.2	10.0	11.5	35.0
1,2-Dichlorobenzene	Ave	1.204	1.081		8.98	10.0	-10.2	35.0
n-Butylbenzene	Ave	2.184	2.664		12.2	10.0	22.0	35.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0429		6.15	10.0	-38.5*	35.0
1,3,5-Trichlorobenzene	Ave	1.070	0.9378		8.77	10.0	-12.3	35.0
1,2,4-Trichlorobenzene	Ave	0.6667	0.4578		6.87	10.0	-31.3	35.0
Naphthalene	Ave	0.9113	0.5684		6.24	10.0	-37.6*	35.0
Hexachlorobutadiene	Ave	0.1976	0.2123		10.7	10.0	7.4	35.0
1,2,3-Trichlorobenzene	Ave	0.4402	0.3174		7.21	10.0	-27.9	35.0
2-Chloroethyl vinyl ether	Lin1				0.500	20.0	-100.0*	35.0
Dibromofluoromethane	Ave	0.3044	0.3373		11.1	10.0	10.8	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3091	0.3604		11.7	10.0	16.6	35.0
Toluene-d8 (Surr)	Ave	2.116	1.967		9.30	10.0	-7.0	35.0
4-Bromofluorobenzene	Ave	0.7626	0.8060		10.6	10.0	5.7	35.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-304980/6

Matrix: Water Lab File ID: C28105.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 10/07/2020 13:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 304980 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.0009366	J	0.00100	0.000176
91-20-3	Naphthalene	0.0003330	J	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		50-134
460-00-4	4-Bromofluorobenzene	124		67-139
1868-53-7	Dibromofluoromethane	105		62-130
2037-26-5	Toluene-d8 (Surr)	89		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-305068/6

Matrix: Water Lab File ID: C28205.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 13:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
71-43-2	Benzene	0.000176	U	0.00100	0.000176
91-20-3	Naphthalene	0.0003493	J	0.00200	0.000129
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		50-134
460-00-4	4-Bromofluorobenzene	120		67-139
1868-53-7	Dibromofluoromethane	102		62-130
2037-26-5	Toluene-d8 (Surr)	90		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-305162/9

Matrix: Water Lab File ID: C28308.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 10/09/2020 15:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305162 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.000168	U	0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		50-134
460-00-4	4-Bromofluorobenzene	122		67-139
1868-53-7	Dibromofluoromethane	98		62-130
2037-26-5	Toluene-d8 (Surr)	90		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-304980/3

Matrix: Water Lab File ID: C28102.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 10/07/2020 12:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 304980 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01154		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01107		0.00100	0.000192
71-43-2	Benzene	0.01105		0.00100	0.000176
91-20-3	Naphthalene	0.006404		0.00200	0.000129
127-18-4	Tetrachloroethene	0.008668		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		50-134
460-00-4	4-Bromofluorobenzene	127		67-139
1868-53-7	Dibromofluoromethane	104		62-130
2037-26-5	Toluene-d8 (Surr)	91		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-305068/3

Matrix: Water Lab File ID: C28202.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 12:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01146		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01087		0.00100	0.000192
71-43-2	Benzene	0.01022		0.00100	0.000176
91-20-3	Naphthalene	0.007258		0.00200	0.000129
127-18-4	Tetrachloroethene	0.009246		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		50-134
460-00-4	4-Bromofluorobenzene	120		67-139
1868-53-7	Dibromofluoromethane	104		62-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-305162/4

Matrix: Water Lab File ID: C28303.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 10/09/2020 12:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305162 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01278		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01196		0.00100	0.000192
71-43-2	Benzene	0.01165		0.00100	0.000176
127-18-4	Tetrachloroethene	0.009478		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		50-134
460-00-4	4-Bromofluorobenzene	121		67-139
1868-53-7	Dibromofluoromethane	100		62-130
2037-26-5	Toluene-d8 (Surr)	89		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 600-304980/4

Matrix: Water Lab File ID: C28103.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 10/07/2020 12:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 304980 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01130		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01114		0.00100	0.000192
71-43-2	Benzene	0.01137		0.00100	0.000176
91-20-3	Naphthalene	0.006932		0.00200	0.000129
127-18-4	Tetrachloroethene	0.009006		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		50-134
460-00-4	4-Bromofluorobenzene	124		67-139
1868-53-7	Dibromofluoromethane	104		62-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 600-305068/4

Matrix: Water Lab File ID: C28203.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 12:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.008983		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.008439		0.00100	0.000192
71-43-2	Benzene	0.008169		0.00100	0.000176
91-20-3	Naphthalene	0.006540		0.00200	0.000129
127-18-4	Tetrachloroethene	0.007113		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		50-134
460-00-4	4-Bromofluorobenzene	120		67-139
1868-53-7	Dibromofluoromethane	107		62-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 600-305162/5

Matrix: Water Lab File ID: C28304.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 10/09/2020 13:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305162 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01272		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01197		0.00100	0.000192
71-43-2	Benzene	0.01155		0.00100	0.000176
127-18-4	Tetrachloroethene	0.009597		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		50-134
460-00-4	4-Bromofluorobenzene	123		67-139
1868-53-7	Dibromofluoromethane	104		62-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW22-100520 MS Lab Sample ID: 600-212257-7 MS

Matrix: Water Lab File ID: C28214.D

Analysis Method: 8260B Date Collected: 10/05/2020 15:15

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01403		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01166		0.00100	0.000192
71-43-2	Benzene	0.01122		0.00100	0.000176
91-20-3	Naphthalene	0.006540		0.00200	0.000129
127-18-4	Tetrachloroethene	0.009431		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	122		50-134
460-00-4	4-Bromofluorobenzene	123		67-139
1868-53-7	Dibromofluoromethane	112		62-130
2037-26-5	Toluene-d8 (Surr)	91		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW22-100520 MSD Lab Sample ID: 600-212257-7 MSD

Matrix: Water Lab File ID: C28215.D

Analysis Method: 8260B Date Collected: 10/05/2020 15:15

Sample wt/vol: 20(mL) Date Analyzed: 10/08/2020 17:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 305068 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	0.01316		0.00100	0.000168
75-35-4	1,1-Dichloroethene	0.01107		0.00100	0.000192
71-43-2	Benzene	0.01063		0.00100	0.000176
91-20-3	Naphthalene	0.006864		0.00200	0.000129
127-18-4	Tetrachloroethene	0.008761		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		50-134
460-00-4	4-Bromofluorobenzene	123		67-139
1868-53-7	Dibromofluoromethane	107		62-130
2037-26-5	Toluene-d8 (Surr)	91		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 08/26/2020 10:49

Analysis Batch Number: 302094 End Date: 08/26/2020 17:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-302094/1		08/26/2020 10:49	1	C23900.D	DB-VRX 60 0.25(mm)
IC 600-302094/2		08/26/2020 11:15	1	C23901.D	DB-VRX 60 0.25(mm)
IC 600-302094/3		08/26/2020 11:42	1	C23902.D	DB-VRX 60 0.25(mm)
IC 600-302094/4		08/26/2020 12:08	1	C23903.D	DB-VRX 60 0.25(mm)
IC 600-302094/5		08/26/2020 12:35	1	C23904.D	DB-VRX 60 0.25(mm)
ICIS 600-302094/6		08/26/2020 13:02	1	C23905.D	DB-VRX 60 0.25(mm)
IC 600-302094/7		08/26/2020 13:29	1	C23906.D	DB-VRX 60 0.25(mm)
IC 600-302094/8		08/26/2020 13:55	1	C23907.D	DB-VRX 60 0.25(mm)
ZZZZZ		08/26/2020 14:49	1		DB-VRX 60 0.25(mm)
ICV 600-302094/1010		08/26/2020 14:49	1	C23909-ICV.d	DB-VRX 60 0.25(mm)
ZZZZZ		08/26/2020 15:16	1		DB-VRX 60 0.25(mm)
ZZZZZ		08/26/2020 16:11	1		DB-VRX 60 0.25(mm)
ZZZZZ		08/26/2020 16:38	1		DB-VRX 60 0.25(mm)
ZZZZZ		08/26/2020 17:05	1		DB-VRX 60 0.25(mm)
ZZZZZ		08/26/2020 17:32	1		DB-VRX 60 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 09/01/2020 12:09

Analysis Batch Number: 302570 End Date: 09/02/2020 00:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-302570/1		09/01/2020 12:09	1	C24500.D	DB-VRX 60 0.25(mm)
CCVIS 600-302570/2		09/01/2020 12:35	1		DB-VRX 60 0.25(mm)
IC 600-302570/3		09/01/2020 13:30	1		DB-VRX 60 0.25(mm)
IC 600-302570/4		09/01/2020 13:58	1		DB-VRX 60 0.25(mm)
IC 600-302570/5		09/01/2020 14:25	1		DB-VRX 60 0.25(mm)
ICV 600-302570/1005		09/01/2020 14:25	1		DB-VRX 60 0.25(mm)
IC 600-302570/6		09/01/2020 14:53	1		DB-VRX 60 0.25(mm)
IC 600-302570/7		09/01/2020 15:21	1		DB-VRX 60 0.25(mm)
IC 600-302570/8		09/01/2020 15:48	1		DB-VRX 60 0.25(mm)
ZZZZZ		09/01/2020 16:16	1		DB-VRX 60 0.25(mm)
ZZZZZ		09/01/2020 16:44	1		DB-VRX 60 0.25(mm)
ZZZZZ		09/01/2020 17:12	1		DB-VRX 60 0.25(mm)
ICV 600-302570/1011		09/01/2020 17:12	1	C24410-ICV.d	DB-VRX 60 0.25(mm)
ZZZZZ		09/01/2020 17:40	1		DB-VRX 60 0.25(mm)
600-203578-A-1 MDLV		09/01/2020 19:03	1		DB-VRX 60 0.25(mm)
600-203578-A-2 MDLV		09/01/2020 19:31	1		DB-VRX 60 0.25(mm)
ZZZZZ		09/01/2020 19:58	1		DB-VRX 60 0.25(mm)
ZZZZZ		09/01/2020 21:20	1		DB-VRX 60 0.25(mm)
ZZZZZ		09/01/2020 21:47	1		DB-VRX 60 0.25(mm)
ZZZZZ		09/01/2020 22:14	1		DB-VRX 60 0.25(mm)
ZZZZZ		09/01/2020 22:41	1		DB-VRX 60 0.25(mm)
ZZZZZ		09/01/2020 23:08	1		DB-VRX 60 0.25(mm)
ZZZZZ		09/01/2020 23:35	20		DB-VRX 60 0.25(mm)
ZZZZZ		09/02/2020 00:02	1		DB-VRX 60 0.25(mm)
ZZZZZ		09/02/2020 00:29	500		DB-VRX 60 0.25(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 10/07/2020 10:59

Analysis Batch Number: 304980 End Date: 10/07/2020 22:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-304980/1		10/07/2020 10:59	1	C28100A.D	DB-VRX 60 0.25(mm)
CCVIS 600-304980/2		10/07/2020 11:26	1	C28101.D	DB-VRX 60 0.25(mm)
LCS 600-304980/3		10/07/2020 12:03	1	C28102.D	DB-VRX 60 0.25(mm)
LCSD 600-304980/4		10/07/2020 12:29	1	C28103.D	DB-VRX 60 0.25(mm)
MB 600-304980/6		10/07/2020 13:21	1	C28105.D	DB-VRX 60 0.25(mm)
ZZZZZ		10/07/2020 13:48	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/07/2020 14:40	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/07/2020 15:07	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/07/2020 15:33	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/07/2020 16:00	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/07/2020 16:26	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/07/2020 16:53	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/07/2020 17:19	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/07/2020 17:46	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/07/2020 18:12	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/07/2020 18:39	1		DB-VRX 60 0.25(mm)
600-212257-4	ARTESIA-OUTLET-100520	10/07/2020 19:05	1	C28117.D	DB-VRX 60 0.25(mm)
600-212257-5	ARTESIA-MW25-100520	10/07/2020 19:31	1	C28118.D	DB-VRX 60 0.25(mm)
600-212257-6	ARTESIA-MW31-100520	10/07/2020 19:57	1	C28119.D	DB-VRX 60 0.25(mm)
600-212257-8	ARTESIA-MW35-100520	10/07/2020 20:24	1	C28120.D	DB-VRX 60 0.25(mm)
600-212257-9	ARTESIA-MW29-100520	10/07/2020 20:50	1	C28121.D	DB-VRX 60 0.25(mm)
600-212257-10	ARTESIA-MW28-100520	10/07/2020 21:16	1	C28122.D	DB-VRX 60 0.25(mm)
600-212257-11	ARTESIA-MW32-100520	10/07/2020 21:42	1	C28123.D	DB-VRX 60 0.25(mm)
600-212257-12	ARTESIA-MW34-100520	10/07/2020 22:08	1	C28124.D	DB-VRX 60 0.25(mm)
600-212257-13	ARTESIA-MW37-100620	10/07/2020 22:34	1	C28125.D	DB-VRX 60 0.25(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 10/08/2020 10:25

Analysis Batch Number: 305068 End Date: 10/08/2020 22:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-305068/1		10/08/2020 10:25	1	C28200A.D	DB-VRX 60 0.25(mm)
CCVIS 600-305068/2		10/08/2020 11:36	1	C28201A.D	DB-VRX 60 0.25(mm)
LCS 600-305068/3		10/08/2020 12:14	1	C28202.D	DB-VRX 60 0.25(mm)
LCSD 600-305068/4		10/08/2020 12:41	1	C28203.D	DB-VRX 60 0.25(mm)
MB 600-305068/6		10/08/2020 13:33	1	C28205.D	DB-VRX 60 0.25(mm)
600-212257-1	ARTESIA-TB03-100520	10/08/2020 14:00	1	C28206.D	DB-VRX 60 0.25(mm)
600-212257-7	ARTESIA-MW22-100520	10/08/2020 14:26	1	C28207.D	DB-VRX 60 0.25(mm)
600-212257-2	ARTESIA-INLET-100520	10/08/2020 14:52	1	C28208.D	DB-VRX 60 0.25(mm)
600-212257-3	ARTESIA-MID-100520	10/08/2020 15:19	1	C28209.D	DB-VRX 60 0.25(mm)
ZZZZZ		10/08/2020 15:45	5		DB-VRX 60 0.25(mm)
ZZZZZ		10/08/2020 16:11	5		DB-VRX 60 0.25(mm)
ZZZZZ		10/08/2020 16:38	10		DB-VRX 60 0.25(mm)
ZZZZZ		10/08/2020 17:04	5		DB-VRX 60 0.25(mm)
600-212257-7 MS	ARTESIA-MW22-100520 MS	10/08/2020 17:30	1	C28214.D	DB-VRX 60 0.25(mm)
600-212257-7 MSD	ARTESIA-MW22-100520 MSD	10/08/2020 17:56	1	C28215.D	DB-VRX 60 0.25(mm)
600-212257-13 DL	ARTESIA-MW37-100620 DL	10/08/2020 18:23	5	C28216.D	DB-VRX 60 0.25(mm)
600-212257-14	ARTESIA-MW38-100620	10/08/2020 18:49	1	C28217.D	DB-VRX 60 0.25(mm)
600-212257-15	ARTESIA-MW17C-100620	10/08/2020 19:15	1	C28218.D	DB-VRX 60 0.25(mm)
600-212257-16	ARTESIA-MW36-100620	10/08/2020 19:41	1	C28219.D	DB-VRX 60 0.25(mm)
600-212257-17	ARTESIA-MW12-100620	10/08/2020 20:07	1	C28220.D	DB-VRX 60 0.25(mm)
600-212257-18	ARTESIA-MW11-100620	10/08/2020 20:33	1	C28221.D	DB-VRX 60 0.25(mm)
600-212257-19	ARTESIA-MD11-100620	10/08/2020 20:59	1	C28222.D	DB-VRX 60 0.25(mm)
600-212257-20	ARTESIA-MW30-100620	10/08/2020 21:25	1	C28223.D	DB-VRX 60 0.25(mm)
600-212257-21	ARTESIA-MD30-100620	10/08/2020 21:51	1	C28224.D	DB-VRX 60 0.25(mm)
ZZZZZ		10/08/2020 22:17	1		DB-VRX 60 0.25(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 10/09/2020 11:23

Analysis Batch Number: 305162 End Date: 10/09/2020 23:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-305162/1		10/09/2020 11:23	1	C28300.D	DB-VRX 60 0.25(mm)
CCVIS 600-305162/2		10/09/2020 11:50	1	C28301.D	DB-VRX 60 0.25(mm)
CCV 600-305162/3		10/09/2020 12:16	1	C28302.D	DB-VRX 60 0.25(mm)
LCS 600-305162/4		10/09/2020 12:52	1	C28303.D	DB-VRX 60 0.25(mm)
LCSD 600-305162/5		10/09/2020 13:19	1	C28304.D	DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 13:45	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 14:11	1		DB-VRX 60 0.25(mm)
MB 600-305162/9		10/09/2020 15:04	1	C28308.D	DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 15:30	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 15:56	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 16:22	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 16:49	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 17:15	1		DB-VRX 60 0.25(mm)
600-212257-14 DL	ARTESIA-MW38-100620 DL	10/09/2020 17:41	10	C28314.D	DB-VRX 60 0.25(mm)
600-212257-17 DL	ARTESIA-MW12-100620 DL	10/09/2020 18:07	5	C28315.D	DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 18:33	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 18:59	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 19:25	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 19:51	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 20:17	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 20:43	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 21:09	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 21:35	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 22:00	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 22:26	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 22:52	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 23:17	20		DB-VRX 60 0.25(mm)
ZZZZZ		10/09/2020 23:43	200		DB-VRX 60 0.25(mm)

8260B

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Batch Number: 302094 Batch Start Date: 08/26/20 10:49 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFB 00317	VOAIS50PPM 00285	VOALCSGASPT 00396	VOALCSPT2T 00094
BFB 600-302094/1		8260B		20 mL	20 mL	2 uL			
IC 600-302094/2		8260B		20 mL	20 mL		5 uL		
IC 600-302094/3		8260B		20 mL	20 mL		5 uL		
IC 600-302094/4		8260B		20 mL	20 mL		5 uL		
IC 600-302094/5		8260B		20 mL	20 mL		5 uL		
ICIS 600-302094/6		8260B		20 mL	20 mL		5 uL		
IC 600-302094/7		8260B		20 mL	20 mL		5 uL		
IC 600-302094/8		8260B		20 mL	20 mL		5 uL		
ICV 600-302094/1010		8260B		20 mL	20 mL		5 uL	4 uL	4 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOASS50PPM 00323	VOASTDGASPT 00396	VOASTDst 00143			
BFB 600-302094/1		8260B							
IC 600-302094/2		8260B			0.2 uL	0.2 uL			
IC 600-302094/3		8260B			0.4 uL	0.4 uL			
IC 600-302094/4		8260B			0.8 uL	0.8 uL			
IC 600-302094/5		8260B			2 uL	2 uL			
ICIS 600-302094/6		8260B			4 uL	4 uL			
IC 600-302094/7		8260B			8 uL	8 uL			
IC 600-302094/8		8260B			20 uL	20 uL			
ICV 600-302094/1010		8260B		5 uL					

Batch Notes	
pH Indicator ID	HC904495

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Batch Number: 302570 Batch Start Date: 09/01/20 12:09 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFB 00317	NR5LCS 00001	VOAIS50PPM 00285	VOASS50PPM 00323
BFB 600-302570/1		8260B		20 mL	20 mL	2 uL			
ICV 600-302570/1011		8260B		20 mL	20 mL		4 uL	5 uL	5 uL

Batch Notes	
pH Indicator ID	HC904495

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Batch Number: 304980 Batch Start Date: 10/07/20 10:59 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFB 00320	VOAIS50PPM 00289	VOALCSGASPT 00402
BFB 600-304980/1		8260B		20 mL	20 mL		2 uL		
CCVIS 600-304980/2		8260B		20 mL	20 mL			5 uL	
LCS 600-304980/3		8260B		20 mL	20 mL			5 uL	4 uL
LCSD 600-304980/4		8260B		20 mL	20 mL			5 uL	4 uL
MB 600-304980/6		8260B		20 mL	20 mL			5 uL	
600-212257-B-4	ARTESIA-OUTLET-100520	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-B-5	ARTESIA-MW25-100520	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-B-6	ARTESIA-MW31-100520	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-B-8	ARTESIA-MW35-100520	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-B-9	ARTESIA-MW29-100520	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-B-10	ARTESIA-MW28-100520	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-B-11	ARTESIA-MW32-100520	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-B-12	ARTESIA-MW34-100520	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-C-13	ARTESIA-MW37-100620	8260B	T	20 mL	20 mL	2 SU		5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00097	VOASS50PPM 00327	VOASTDGASPT 00402	VOASTDst 00146		
BFB 600-304980/1		8260B							
CCVIS 600-304980/2		8260B				4 uL	4 uL		
LCS 600-304980/3		8260B		4 uL	5 uL				
LCSD 600-304980/4		8260B		4 uL	5 uL				
MB 600-304980/6		8260B			5 uL				
600-212257-B-4	ARTESIA-OUTLET-100520	8260B	T		5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Batch Number: 304980 Batch Start Date: 10/07/20 10:59 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00097	VOASS50PPM 00327	VOASTDGASPT 00402	VOASTDst 00146		
600-212257-B-5	ARTESIA-MW25-100520	8260B	T		5 uL				
600-212257-B-6	ARTESIA-MW31-100520	8260B	T		5 uL				
600-212257-B-8	ARTESIA-MW35-100520	8260B	T		5 uL				
600-212257-B-9	ARTESIA-MW29-100520	8260B	T		5 uL				
600-212257-B-10	ARTESIA-MW28-100520	8260B	T		5 uL				
600-212257-B-11	ARTESIA-MW32-100520	8260B	T		5 uL				
600-212257-B-12	ARTESIA-MW34-100520	8260B	T		5 uL				
600-212257-C-13	ARTESIA-MW37-100620	8260B	T		5 uL				

Batch Notes	
pH Indicator ID	HC904495

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Batch Number: 305068 Batch Start Date: 10/08/20 10:25 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFB 00320	VOAIS50PPM 00289	VOALCSGASPT 00402
BFB 600-305068/1		8260B		20 mL	20 mL		2 uL		
CCVIS 600-305068/2		8260B		20 mL	20 mL			5 uL	
LCS 600-305068/3		8260B		20 mL	20 mL			5 uL	4 uL
LCSD 600-305068/4		8260B		20 mL	20 mL			5 uL	4 uL
MB 600-305068/6		8260B		20 mL	20 mL			5 uL	
600-212257-B-1	ARTESIA-TB03-100520	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-B-7	ARTESIA-MW22-100520	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-C-2	ARTESIA-INLET-100520	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-B-3	ARTESIA-MID-100520	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-B-7 MS	ARTESIA-MW22-100520	8260B	T	20 mL	20 mL	2 SU		5 uL	4 uL
600-212257-B-7 MSD	ARTESIA-MW22-100520	8260B	T	20 mL	20 mL	2 SU		5 uL	4 uL
600-212257-D-13	ARTESIA-MW37-100620	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-C-14	ARTESIA-MW38-100620	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-C-15	ARTESIA-MW17C-100620	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-C-16	ARTESIA-MW36-100620	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-C-17	ARTESIA-MW12-100620	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-C-18	ARTESIA-MW11-100620	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-C-19	ARTESIA-MD11-100620	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-B-20	ARTESIA-MW30-100620	8260B	T	20 mL	20 mL	2 SU		5 uL	
600-212257-B-21	ARTESIA-MD30-100620	8260B	T	20 mL	20 mL	2 SU		5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00097	VOASS50PPM 00327	VOASTDGASPT 00402	VOASTDst 00146		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Batch Number: 305068 Batch Start Date: 10/08/20 10:25 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00097	VOASS50PPM 00327	VOASTDGASPT 00402	VOASTDst 00146		
BFB 600-305068/1		8260B							
CCVIS 600-305068/2		8260B				4 uL	4 uL		
LCS 600-305068/3		8260B		4 uL	5 uL				
LCSD 600-305068/4		8260B		4 uL	5 uL				
MB 600-305068/6		8260B			5 uL				
600-212257-B-1	ARTESIA-TB03-100520	8260B	T		5 uL				
600-212257-B-7	ARTESIA-MW22-100520	8260B	T		5 uL				
600-212257-C-2	ARTESIA-INLET-100520	8260B	T		5 uL				
600-212257-B-3	ARTESIA-MID-100520	8260B	T		5 uL				
600-212257-B-7 MS	ARTESIA-MW22-100520	8260B	T	4 uL	5 uL				
600-212257-B-7 MSD	ARTESIA-MW22-100520	8260B	T	4 uL	5 uL				
600-212257-D-13	ARTESIA-MW37-100620	8260B	T		5 uL				
600-212257-C-14	ARTESIA-MW38-100620	8260B	T		5 uL				
600-212257-C-15	ARTESIA-MW17C-100620	8260B	T		5 uL				
600-212257-C-16	ARTESIA-MW36-100620	8260B	T		5 uL				
600-212257-C-17	ARTESIA-MW12-100620	8260B	T		5 uL				
600-212257-C-18	ARTESIA-MW11-100620	8260B	T		5 uL				
600-212257-C-19	ARTESIA-MD11-100620	8260B	T		5 uL				
600-212257-B-20	ARTESIA-MW30-100620	8260B	T		5 uL				
600-212257-B-21	ARTESIA-MD30-100620	8260B	T		5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Batch Number: 305068 Batch Start Date: 10/08/20 10:25 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Batch Notes	
pH Indicator ID	HC905612

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Batch Number: 305162 Batch Start Date: 10/09/20 11:23 Batch Analyst: Vela, Kenneth L

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFB 00320	NR9STD 00056	VOAIS50PPM 00289
BFB 600-305162/1		8260B		20 mL	20 mL		2 uL		
CCVIS 600-305162/2		8260B		20 mL	20 mL				5 uL
CCV 600-305162/3		8260B		20 mL	20 mL			4 uL	5 uL
LCS 600-305162/4		8260B		20 mL	20 mL				5 uL
LCSD 600-305162/5		8260B		20 mL	20 mL				5 uL
MB 600-305162/9		8260B		20 mL	20 mL				5 uL
600-212257-D-14	ARTESIA-MW38-100620	8260B	T	20 mL	20 mL	2 SU			5 uL
600-212257-D-17	ARTESIA-MW12-100620	8260B	T	20 mL	20 mL	2 SU			5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSGASPT 00402	VOALCSPT2T 00097	VOASS50PPM 00327	VOASTDGASPT 00402	VOASTDst 00146	
BFB 600-305162/1		8260B							
CCVIS 600-305162/2		8260B					4 uL	4 uL	
CCV 600-305162/3		8260B							
LCS 600-305162/4		8260B		4 uL	4 uL	5 uL			
LCSD 600-305162/5		8260B		4 uL	4 uL	5 uL			
MB 600-305162/9		8260B				5 uL			
600-212257-D-14	ARTESIA-MW38-100620	8260B	T			5 uL			
600-212257-D-17	ARTESIA-MW12-100620	8260B	T			5 uL			

Batch Notes	
pH Indicator ID	HC991818

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Batch Number: 305162 Batch Start Date: 10/09/20 11:23 Batch Analyst: Vela, Kenneth L

Batch Method: 8260B Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 300.0

Anions (IC) by Method 300.0

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 100820-600-0037706-007.d

Lab ID: LCS 600-305075/7 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Sulfate	20.0	20.58	103	90-110	

Column to be used to flag recovery and RPD values

FORM III 300.0

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab File ID: 100820-600-0037706-006.d Lab Sample ID: MB 600-305075/6

Matrix: Water Date Extracted:

Instrument ID: CHWC17(IC) Date Analyzed: 10/08/2020 11:46

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	CCB 600-305075/5	100820-600-0037706-005.d	10/08/2020 11:34
	LCS 600-305075/7	100820-600-0037706-007.d	10/08/2020 11:58
ARTESIA-MW37-100620	600-212257-13	100820-600-0037706-012.d	10/08/2020 13:46
ARTESIA-MW38-100620	600-212257-14	100820-600-0037706-013.d	10/08/2020 13:58
ARTESIA-MW17C-100620	600-212257-15	100820-600-0037706-014.d	10/08/2020 14:09
ARTESIA-MW36-100620	600-212257-16	100820-600-0037706-015.d	10/08/2020 14:21
	CCB 600-305075/17	100820-600-0037706-017.d	10/08/2020 14:45
ARTESIA-MW12-100620	600-212257-17	100820-600-0037706-018.d	10/08/2020 14:56
ARTESIA-MW11-100620	600-212257-18	100820-600-0037706-019.d	10/08/2020 15:08
ARTESIA-MD11-100620	600-212257-19	100820-600-0037706-020.d	10/08/2020 15:20
	CCB 600-305075/29	100820-600-0037706-029.d	10/08/2020 17:06

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW37-100620 Lab Sample ID: 600-212257-13

Matrix: Water Lab File ID: 100820-600-0037706-012.d

Analysis Method: 300.0 Date Collected: 10/06/2020 10:00

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 10/08/2020 13:46

Con. Extract Vol.: Dilution Factor: 100

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305075 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	1540		50.0	9.57

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW38-100620 Lab Sample ID: 600-212257-14

Matrix: Water Lab File ID: 100820-600-0037706-013.d

Analysis Method: 300.0 Date Collected: 10/06/2020 10:08

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 10/08/2020 13:58

Con. Extract Vol.: Dilution Factor: 100

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305075 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	1160		50.0	9.57

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW17C-100620 Lab Sample ID: 600-212257-15

Matrix: Water Lab File ID: 100820-600-0037706-014.d

Analysis Method: 300.0 Date Collected: 10/06/2020 11:30

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 10/08/2020 14:09

Con. Extract Vol.: Dilution Factor: 100

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305075 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	893		50.0	9.57

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW36-100620 Lab Sample ID: 600-212257-16

Matrix: Water Lab File ID: 100820-600-0037706-015.d

Analysis Method: 300.0 Date Collected: 10/06/2020 10:50

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 10/08/2020 14:21

Con. Extract Vol.: Dilution Factor: 100

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305075 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	849		50.0	9.57

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW12-100620 Lab Sample ID: 600-212257-17

Matrix: Water Lab File ID: 100820-600-0037706-018.d

Analysis Method: 300.0 Date Collected: 10/06/2020 12:05

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 10/08/2020 14:56

Con. Extract Vol.: Dilution Factor: 100

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305075 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	887		50.0	9.57

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MW11-100620 Lab Sample ID: 600-212257-18

Matrix: Water Lab File ID: 100820-600-0037706-019.d

Analysis Method: 300.0 Date Collected: 10/06/2020 11:40

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 10/08/2020 15:08

Con. Extract Vol.: Dilution Factor: 100

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305075 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	573		50.0	9.57

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: ARTESIA-MD11-100620 Lab Sample ID: 600-212257-19

Matrix: Water Lab File ID: 100820-600-0037706-020.d

Analysis Method: 300.0 Date Collected: 10/06/2020 11:50

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 10/08/2020 15:20

Con. Extract Vol.: Dilution Factor: 100

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305075 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	1360		50.0	9.57

FORM I 300.0

FORM VI

HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA

RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 304038

SDG No.:

Instrument ID: CHWC17(IC) GC Column: AS22 ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/23/2020 09:35 Calibration End Date: 09/23/2020 10:58 Calibration ID: 18728

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-304038/5	CAL092320-600-0037473-005.d
Level 2	IC 600-304038/6	CAL092320-600-0037473-006.d
Level 3	IC 600-304038/7	CAL092320-600-0037473-007.d
Level 4	IC 600-304038/8	CAL092320-600-0037473-008.d
Level 5	IC 600-304038/9	CAL092320-600-0037473-009.d
Level 6	IC 600-304038/10	CAL092320-600-0037473-010.d
Level 7	IC 600-304038/11	CAL092320-600-0037473-011.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Fluoride	2.364	2.291	2.351	2.301	2.381	2.354	2.381				2.217 - 2.517	2.346
Chloride	3.057	3.034	3.127	3.051	3.157	3.121	3.164				2.991 - 3.291	3.102
Bromide	4.297	4.264	4.391	4.274	4.414	4.347	4.377				4.231 - 4.531	4.338
Sulfate	6.881	6.801	6.997	6.841	7.097	7.004	7.111				6.877 - 7.177	6.962

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 304038

SDG No.:

Instrument ID: CHWC17(IC) GC Column: AS22 ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/23/2020 09:35 Calibration End Date: 09/23/2020 10:58 Calibration ID: 18728

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-304038/5	CAL092320-600-0037473-005.d
Level 2	IC 600-304038/6	CAL092320-600-0037473-006.d
Level 3	IC 600-304038/7	CAL092320-600-0037473-007.d
Level 4	IC 600-304038/8	CAL092320-600-0037473-008.d
Level 5	IC 600-304038/9	CAL092320-600-0037473-009.d
Level 6	IC 600-304038/10	CAL092320-600-0037473-010.d
Level 7	IC 600-304038/11	CAL092320-600-0037473-011.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Fluoride	8513000 34072753	34738728 33365940	32469678 35880372	38149718	Lin1	-3568640.7	35581435.2							0.9960		0.9900
Chloride	34568745 49231276	41418832 49434420	48546308 54223699	45871335	Lin1	-9779644.4	52297222.7							0.9970		0.9900
Bromide	13405310 23708293	21148154 22460331	23446610 24468755	26992309	Lin1	-1508080.4	24157421.0							0.9960		0.9900
Sulfate	27032350 34378719	26285320 32967708	29806465 35359080	30325954	Lin1	-5831019.7	34523758.0							0.9980		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI

HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA

RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1 Analy Batch No.: 304038

SDG No.:

Instrument ID: CHWC17(IC) GC Column: AS22 ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/23/2020 09:35 Calibration End Date: 09/23/2020 10:58 Calibration ID: 18728

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-304038/5	CAL092320-600-0037473-005.d
Level 2	IC 600-304038/6	CAL092320-600-0037473-006.d
Level 3	IC 600-304038/7	CAL092320-600-0037473-007.d
Level 4	IC 600-304038/8	CAL092320-600-0037473-008.d
Level 5	IC 600-304038/9	CAL092320-600-0037473-009.d
Level 6	IC 600-304038/10	CAL092320-600-0037473-010.d
Level 7	IC 600-304038/11	CAL092320-600-0037473-011.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Fluoride	Lin1	1702600 250244552	17369364 358803721	32469678	76299436	170363767	0.200 7.50	0.500 10.0	1.00	2.00	5.00
Chloride	Lin1	13827498 988688402	41418832 2168947973	97092616	229356674	492312756	0.400 20.0	1.00 40.0	2.00	5.00	10.0
Bromide	Lin1	2681062 168452480	10574077 244687554	23446610	53984618	118541466	0.200 7.50	0.500 10.0	1.00	2.00	5.00
Sulfate	Lin1	10812940 659354151	26285320 1414363188	59612929	151629770	343787193	0.400 20.0	1.00 40.0	2.00	5.00	10.0

Curve Type Legend:

Lin1 = Linear 1/conc

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCV 600-305075/4 Calibration Date: 10/08/2020 11:22

Instrument ID: CHWC17(IC) Calib Start Date: 09/23/2020 09:35

GC Column: AS22 ID: 2.00(mm) Calib End Date: 09/23/2020 10:58

Lab File ID: 100820-600-0037706-004.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		38093143		8.13	7.50	8.4	10.0
Chloride	Lin1		50754748		19.6	20.0	-2.0	10.0
Bromide	Lin1		23540329		7.37	7.50	-1.7	10.0
Sulfate	Lin1		35471976		20.7	20.0	3.6	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCV 600-305075/4 Calibration Date: 10/08/2020 11:22

Instrument ID: CHWC17(IC) Calib Start Date: 09/23/2020 09:35

GC Column: AS22 ID: 2.00(mm) Calib End Date: 09/23/2020 10:58

Lab File ID: 100820-600-0037706-004.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.31	2.18	2.48
Chloride	2.95	2.97	3.27
Bromide	3.92	4.22	4.52
Sulfate	6.51	6.79	7.09

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCV 600-305075/16 Calibration Date: 10/08/2020 14:33

Instrument ID: CHWC17(IC) Calib Start Date: 09/23/2020 09:35

GC Column: AS22 ID: 2.00(mm) Calib End Date: 09/23/2020 10:58

Lab File ID: 100820-600-0037706-016.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		45541889		9.70	7.50	29.3*	10.0
Chloride	Lin1		49993773		19.3	20.0	-3.5	10.0
Bromide	Lin1		23567985		7.38	7.50	-1.6	10.0
Sulfate	Lin1		34579984		20.2	20.0	1.0	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCV 600-305075/16 Calibration Date: 10/08/2020 14:33

Instrument ID: CHWC17(IC) Calib Start Date: 09/23/2020 09:35

GC Column: AS22 ID: 2.00(mm) Calib End Date: 09/23/2020 10:58

Lab File ID: 100820-600-0037706-016.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.29	2.18	2.48
Chloride	2.93	2.97	3.27
Bromide	3.89	4.22	4.52
Sulfate	6.49	6.79	7.09

Form VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCV 600-305075/28 Calibration Date: 10/08/2020 16:54

Instrument ID: CHWC17(IC) Calib Start Date: 09/23/2020 09:35

GC Column: AS22 ID: 2.00(mm) Calib End Date: 09/23/2020 10:58

Lab File ID: 100820-600-0037706-028.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		46603118		9.92	7.50	32.3*	10.0
Chloride	Lin1		48841302		18.9	20.0	-5.7	10.0
Bromide	Lin1		23126136		7.24	7.50	-3.4	10.0
Sulfate	Lin1		33550797		19.6	20.0	-2.0	10.0

FORM VII 300.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Lab Sample ID: CCV 600-305075/28 Calibration Date: 10/08/2020 16:54

Instrument ID: CHWC17(IC) Calib Start Date: 09/23/2020 09:35

GC Column: AS22 ID: 2.00(mm) Calib End Date: 09/23/2020 10:58

Lab File ID: 100820-600-0037706-028.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.32	2.18	2.48
Chloride	2.97	2.97	3.27
Bromide	3.94	4.22	4.52
Sulfate	6.56	6.79	7.09

Form VII 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-305075/6

Matrix: Water Lab File ID: 100820-600-0037706-006.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 10/08/2020 11:46

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305075 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-305075/5

Matrix: Water Lab File ID: 100820-600-0037706-005.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 10/08/2020 11:34

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305075 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-305075/17

Matrix: Water Lab File ID: 100820-600-0037706-017.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 10/08/2020 14:45

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305075 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 600-305075/29

Matrix: Water Lab File ID: 100820-600-0037706-029.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 10/08/2020 17:06

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305075 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.0957	U	0.500	0.0957

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-305075/7

Matrix: Water Lab File ID: 100820-600-0037706-007.d

Analysis Method: 300.0 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 5(mL) Date Analyzed: 10/08/2020 11:58

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: AS22 ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305075 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	20.58		0.500	0.0957

FORM I 300.0

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Instrument ID: CHWC17(IC) Start Date: 09/23/2020 09:35

Analysis Batch Number: 304038 End Date: 09/23/2020 10:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 600-304038/4		09/23/2020 09:35	1		AS22 2(mm)
IC 600-304038/5		09/23/2020 09:47	1	CAL092320-600-037473-005.d	AS22 2(mm)
IC 600-304038/6		09/23/2020 09:59	1	CAL092320-600-037473-006.d	AS22 2(mm)
IC 600-304038/7		09/23/2020 10:11	1	CAL092320-600-037473-007.d	AS22 2(mm)
IC 600-304038/8		09/23/2020 10:22	1	CAL092320-600-037473-008.d	AS22 2(mm)
IC 600-304038/9		09/23/2020 10:34	1	CAL092320-600-037473-009.d	AS22 2(mm)
IC 600-304038/10		09/23/2020 10:46	1	CAL092320-600-037473-010.d	AS22 2(mm)
IC 600-304038/11		09/23/2020 10:58	1	CAL092320-600-037473-011.d	AS22 2(mm)

300.0

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Instrument ID: CHWC17(IC) Start Date: 10/08/2020 11:22

Analysis Batch Number: 305075 End Date: 10/08/2020 18:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 600-305075/4		10/08/2020 11:22	1	100820-600-0037706-004.d	AS22 2(mm)
CCB 600-305075/5		10/08/2020 11:34	1	100820-600-0037706-005.d	AS22 2(mm)
MB 600-305075/6		10/08/2020 11:46	1	100820-600-0037706-006.d	AS22 2(mm)
LCS 600-305075/7		10/08/2020 11:58	1	100820-600-0037706-007.d	AS22 2(mm)
ZZZZZ		10/08/2020 12:59	100		AS22 2(mm)
ZZZZZ		10/08/2020 13:11	100		AS22 2(mm)
ZZZZZ		10/08/2020 13:22	100		AS22 2(mm)
ZZZZZ		10/08/2020 13:34	2		AS22 2(mm)
600-212257-13	ARTESIA-MW37-100620	10/08/2020 13:46	100	100820-600-0037706-012.d	AS22 2(mm)
600-212257-14	ARTESIA-MW38-100620	10/08/2020 13:58	100	100820-600-0037706-013.d	AS22 2(mm)
600-212257-15	ARTESIA-MW17C-100620	10/08/2020 14:09	100	100820-600-0037706-014.d	AS22 2(mm)
600-212257-16	ARTESIA-MW36-100620	10/08/2020 14:21	100	100820-600-0037706-015.d	AS22 2(mm)
CCV 600-305075/16		10/08/2020 14:33	1	100820-600-0037706-016.d	AS22 2(mm)
CCB 600-305075/17		10/08/2020 14:45	1	100820-600-0037706-017.d	AS22 2(mm)
600-212257-17	ARTESIA-MW12-100620	10/08/2020 14:56	100	100820-600-0037706-018.d	AS22 2(mm)
600-212257-18	ARTESIA-MW11-100620	10/08/2020 15:08	100	100820-600-0037706-019.d	AS22 2(mm)
600-212257-19	ARTESIA-MD11-100620	10/08/2020 15:20	100	100820-600-0037706-020.d	AS22 2(mm)
ZZZZZ		10/08/2020 15:32	100		AS22 2(mm)
ZZZZZ		10/08/2020 15:43	100		AS22 2(mm)
ZZZZZ		10/08/2020 15:55	100		AS22 2(mm)
ZZZZZ		10/08/2020 16:07	100		AS22 2(mm)
ZZZZZ		10/08/2020 16:19	100		AS22 2(mm)
ZZZZZ		10/08/2020 16:31	25		AS22 2(mm)
ZZZZZ		10/08/2020 16:43	25		AS22 2(mm)
CCV 600-305075/28		10/08/2020 16:54	1	100820-600-0037706-028.d	AS22 2(mm)
CCB 600-305075/29		10/08/2020 17:06	1	100820-600-0037706-029.d	AS22 2(mm)
ZZZZZ		10/08/2020 17:18	25		AS22 2(mm)
ZZZZZ		10/08/2020 17:30	10		AS22 2(mm)
ZZZZZ		10/08/2020 17:42	10		AS22 2(mm)
ZZZZZ		10/08/2020 17:53	10		AS22 2(mm)
ZZZZZ		10/08/2020 18:05	10		AS22 2(mm)
CCV 600-305075/37		10/08/2020 18:40	1		AS22 2(mm)
CCB 600-305075/38		10/08/2020 18:52	1		AS22 2(mm)

300.0

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-212257-1

SDG No.:

Batch Number: 305075 Batch Start Date: 10/08/20 11:22 Batch Analyst: Nampitak, Wanida 1

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	CCV 00128	ICV/LCS 00114			
CCV 600-305075/4		300.0		5 mL	5 mL				
CCB 600-305075/5		300.0		5 mL					
MB 600-305075/6		300.0		5 mL					
LCS 600-305075/7		300.0		5 mL		5 mL			
600-212257-A-13	ARTESIA-MW37-100620	300.0	T	5 mL					
600-212257-A-14	ARTESIA-MW38-100620	300.0	T	5 mL					
600-212257-A-15	ARTESIA-MW17C-100620	300.0	T	5 mL					
600-212257-A-16	ARTESIA-MW36-100620	300.0	T	5 mL					
CCV 600-305075/16		300.0		5 mL	5 mL				
CCB 600-305075/17		300.0		5 mL					
600-212257-A-17	ARTESIA-MW12-100620	300.0	T	5 mL					
600-212257-A-18	ARTESIA-MW11-100620	300.0	T	5 mL					
600-212257-A-19	ARTESIA-MD11-100620	300.0	T	5 mL					
CCV 600-305075/28		300.0		5 mL	5 mL				
CCB 600-305075/29		300.0		5 mL					

Batch Notes	
Eluent 1 ID	063965
Filter ID	16988990

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Released to Imaging: 6/9/2021 9:44:58 AM

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

Eurofins
6310 Rothway
Houston, TX
Phone (713) 6

600-212257 Chain of Custody

Chain of Custody Record

eurofins | Environment Testing America

Client Info	Sampler: A Forsberg 505 918 1800	Lab PM: McDaniel, Bethany A	Carrier Tracking No(s): Fed Ex 1685 4495 8525 1685 4495 8524
Client Contact: John Ynfante		E-Mail: Bethany.McDaniel@Eurofinset.com	COC No: 600-79217-21372.1
Company: Jacobs Engineering Group, Inc.			Page: Page 1 of 2
Address: 14701 St. Mary's Lane Suite 300	Due Date Requested:		Job #:
City: Houston	TAT Requested (days): STD- 10 days		
State, Zip: TX, 77079			
Phone:	PO #: 148018479		
Email: John.Ynfante@jacobs.com	WO #: D3151100.C.CS.TPE.AR.20-05-02		
Project Name: 2020 Semiannual GW October	Project #: 60004334		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL - 8260-11DCE and PCE	8260B_LL - Volatile Organic Compound Custom List(5)	300_ORGFM_28D - 300.0 - Anions, IC (Sulfate)	Total Number of containers	Special Instructions/Note:
Preservation Code:					N	N	A	A	N		
ARTESIA-TB03-100520	10/5/20	1030	G	Water	N	N		X		2	TRIP BLANK
ARTESIA-INLET-100520		1040		Water	N	N		X		2	Bubble in one vial
ARTESIA-MID-100520		1050		Water	N	N		X		3	
ARTESIA-OUTLET-100520		1100		Water	N	N		X		3	Bubble in one vial
ARTESIA-MW25-100520		1440		Water	N	N		X		3	
ARTESIA-MW31-100520		1500		Water	N	N		X		3	
ARTESIA-MW22-100520		1515		Water	N	Y		X		9	
ARTESIA-MW35-100520		1530		Water	N	N	X			3	
ARTESIA-MW29-100520		1610		Water	N	N		X		3	
ARTESIA-MW28-100520		1625		Water	N	N		X		3	
ARTESIA-MW32-100520		1810		Water	N	N		X		3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level 3

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 10/6/20 1420	Company: JACOBS	Received by:	Date/Time: 10/7/20 1038	Company: EJA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins | Environment Testing America

FedEx

Client Information	Sampler: AForsberg	Lab PM: McDaniel, Bethany A	Carrier Tracking No(s): 1685-4445-8535 / 1685-4445-8524	COC No: 600-79217-21372.1
Client Contact: John Ynfante	Phone: 505 918 1800	E-Mail: Bethany.McDaniel@Eurofinset.com		Page: Page 2 of 2
Company: Jacobs Engineering Group, Inc.				Job #:
Address: 14701 St. Mary's Lane Suite 300	Due Date Requested:			
City: Houston	TAT Requested (days): STD- 10 days			
State, Zip: TX, 77079				
Phone:	PO #: 148018479			
Email: John.Ynfante@jacobs.com	WO #: D3151100.C.CS.TPE.AR.20-05-02			
Project Name: 2020 Semiannual GW October	Project #: 60004334			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL - 8260-11DCE and PCE	8260B_LL - Volatile Organic Compound Custom List(5)	300_ORGFM_28D - 300.0 - Anions, IC (Sulfate)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N		
ARTESIA-MW34-100520	10/5/20	1825	G	Water	N	N		X		3	
ARTESIA-MW37-100620	10/6/20	1000	G	Water	N	N		X	X	4	
ARTESIA-MW38-100620	1	1008	G	Water	N	N		X	X	4	
ARTESIA-MW17C-100620	1	1130	G	Water	N	N		X	X	4	
ARTESIA-MW36-100620	10/6/20	1050	G	Water	N	N		X	X	4	
ARTESIA-MW12-100620	10/6/20	1205	G	Water	N	N		X	X	4	
ARTESIA-MW11-100620	1	1140	G	Water	N	N		X	X	4	
ARTESIA-MD11-100620	1	1150	G	Water	N	N		X	X	4	
ARTESIA-MW30-100620	10/6/20	1340	G	Water	N	N		X	X	3	No sulfate
ARTESIA-MD30-100620	10/6/20	1345	G	Water	N	N		X		3	
				Water							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level 3

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/6/20 1420	Jacobs		10/7/20 1038	ETA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Loc: 500
212257

eurofins | Environment Testing TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

'20 OCT 7 10:38

Date/Time Received: _____

JOB NUMBER: 212257 CLIENT: Jacobs

UNPACKED BY: ST CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
8535	~~Y~~ / N	~~Y~~ / N	1.7	680	+0.1	1.8
8524	~~Y~~ / N	Y / ~~N~~	1.9	680	+0.1	2.0
	Y / N	Y / N				
	~~Y~~ / N	Y / N				
	Y / N	~~Y~~ / N				
	Y / N	Y / N				

10/7/20 ST

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☑YES ☐NO ☐NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

10/7/20 ST

HS-SA-WI-013 Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: Jacobs Engineering Group, Inc. Job Number: 600-212257-1

Login Number: 212257 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Torres, Sandra

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8, 2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Released to Imaging: 6/9/2021 9:44:58 AM

eurofins | Environment Testing America

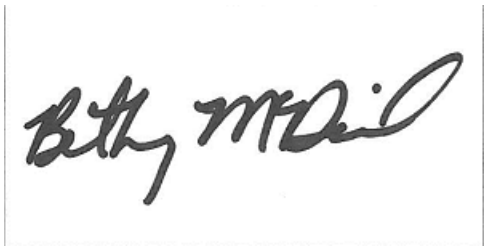
ANALYTICAL REPORT

Job Number: 600-213963-1

Job Description: Dowell - Artesia

For:
Jacobs Engineering Group, Inc.
3721 Rutledge Rd NE
Suite B-1
Albuquerque, NM 87109

Attention: Aleeca Forsberg



Approved for release.
Bethany A McDaniel
Senior Project Manager
11/27/2020 10:50 AM

Bethany A McDaniel, Senior Project Manager
6310 Rothway Street, Houston, TX, 77040
(713)358-2005
Bethany.McDaniel@Eurofinset.com
11/27/2020

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins TestAmerica, Houston
6310 Rothway Street, Houston, TX 77040
Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com

Table of Contents

Cover Title Page 1
Data Summaries 4
Definitions 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Default Detection Limits 9
Surrogate Summary 10
QC Sample Results 11
QC Association 13
Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Manual Integration Summary 18
Reagent Traceability 23
Organic Sample Data 30
GC/MS VOA 30
Method 8260B Low Level 30
Method 8260B Low Level QC Summary 31
Method 8260B Low Level Sample Data 41
Standards Data 47
Method 8260B Low Level ICAL Data 47
Method 8260B Low Level CCAL Data 59
Raw QC Data 65
Method 8260B Low Level Blank Data 65

Table of Contents

Method 8260B Low Level LCS/LCSD Data 66
Method 8260B Low Level MS/MSD Data 68
Method 8260B Low Level Run Logs 70
Method 8260B Low Level Prep Data 72
Shipping and Receiving Documents 75
Client Chain of Custody 76
Sample Receipt Checklist 78

Definitions/Glossary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-213963-1

Qualifiers

GC/MS VOA

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

Glossary

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

Job Narrative
600-213963-1

Comments
No additional comments.

Receipt
The samples were received on 11/20/2020 9:13 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-213963-1

Client Sample ID: ARTESIA-TB01-111820 — Lab Sample ID: 600-213963-1

No Detections.

Client Sample ID: ARTESIA-SB40-111820 — Lab Sample ID: 600-213963-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.0138		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00676		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-SB39-111920 — Lab Sample ID: 600-213963-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00276		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00233		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-MB39-111920 — Lab Sample ID: 600-213963-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00265		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00211		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-SB41-111920 — Lab Sample ID: 600-213963-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00182		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00154		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-SB42-111920 — Lab Sample ID: 600-213963-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00304		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00249		0.00100	0.000333	mg/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-213963-1

Client Sample ID: ARTESIA-TB01-111820
Lab Sample ID: 600-213963-1
Date Collected: 11/18/20 11:40
Matrix: Water
Date Received: 11/20/20 09:13

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			11/23/20 13:09	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			11/23/20 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*67*		*50 - 134*		*11/23/20 13:09*	*1*
4-Bromofluorobenzene	*104*		*67 - 139*		*11/23/20 13:09*	*1*
Dibromofluoromethane	*88*		*62 - 130*		*11/23/20 13:09*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/23/20 13:09*	*1*

Client Sample ID: ARTESIA-SB40-111820
Lab Sample ID: 600-213963-2
Date Collected: 11/18/20 16:10
Matrix: Water
Date Received: 11/20/20 09:13

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.0138**		0.00100	0.000192	mg/L			11/23/20 13:34	1
Tetrachloroethene	**0.00676**		0.00100	0.000333	mg/L			11/23/20 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*68*		*50 - 134*		*11/23/20 13:34*	*1*
4-Bromofluorobenzene	*104*		*67 - 139*		*11/23/20 13:34*	*1*
Dibromofluoromethane	*89*		*62 - 130*		*11/23/20 13:34*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/23/20 13:34*	*1*

Client Sample ID: ARTESIA-SB39-111920
Lab Sample ID: 600-213963-3
Date Collected: 11/19/20 09:00
Matrix: Water
Date Received: 11/20/20 09:13

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.00276**		0.00100	0.000192	mg/L			11/23/20 14:00	1
Tetrachloroethene	**0.00233**		0.00100	0.000333	mg/L			11/23/20 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*68*		*50 - 134*		*11/23/20 14:00*	*1*
4-Bromofluorobenzene	*104*		*67 - 139*		*11/23/20 14:00*	*1*
Dibromofluoromethane	*88*		*62 - 130*		*11/23/20 14:00*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/23/20 14:00*	*1*

Client Sample ID: ARTESIA-MB39-111920
Lab Sample ID: 600-213963-4
Date Collected: 11/19/20 09:10
Matrix: Water
Date Received: 11/20/20 09:13

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.00265**		0.00100	0.000192	mg/L			11/23/20 14:25	1
Tetrachloroethene	**0.00211**		0.00100	0.000333	mg/L			11/23/20 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*68*		*50 - 134*		*11/23/20 14:25*	*1*
4-Bromofluorobenzene	*104*		*67 - 139*		*11/23/20 14:25*	*1*
Dibromofluoromethane	*91*		*62 - 130*		*11/23/20 14:25*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-213963-1

Client Sample ID: ARTESIA-MB39-111920
Lab Sample ID: 600-213963-4
Date Collected: 11/19/20 09:10
Matrix: Water
Date Received: 11/20/20 09:13

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		11/23/20 14:25	1

Client Sample ID: ARTESIA-SB41-111920
Lab Sample ID: 600-213963-5
Date Collected: 11/19/20 11:45
Matrix: Water
Date Received: 11/20/20 09:13

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00182		0.00100	0.000192	mg/L			11/23/20 15:42	1
Tetrachloroethene	0.00154		0.00100	0.000333	mg/L			11/23/20 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	70		50 - 134		11/23/20 15:42	1
4-Bromofluorobenzene	104		67 - 139		11/23/20 15:42	1
Dibromofluoromethane	90		62 - 130		11/23/20 15:42	1
Toluene-d8 (Surr)	101		70 - 130		11/23/20 15:42	1

Client Sample ID: ARTESIA-SB42-111920
Lab Sample ID: 600-213963-6
Date Collected: 11/19/20 13:55
Matrix: Water
Date Received: 11/20/20 09:13

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00304		0.00100	0.000192	mg/L			11/23/20 16:07	1
Tetrachloroethene	0.00249		0.00100	0.000333	mg/L			11/23/20 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	66		50 - 134		11/23/20 16:07	1
4-Bromofluorobenzene	105		67 - 139		11/23/20 16:07	1
Dibromofluoromethane	88		62 - 130		11/23/20 16:07	1
Toluene-d8 (Surr)	98		70 - 130		11/23/20 16:07	1

Default Detection Limits

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-213963-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units
1,1-Dichloroethene	0.00100	0.000192	mg/L
Tetrachloroethene	0.00100	0.000333	mg/L

Surrogate Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-213963-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(50-134)	(67-139)	(62-130)	(70-130)
600-213963-1	ARTESIA-TB01-111820	67	104	88	99
600-213963-2	ARTESIA-SB40-111820	68	104	89	99
600-213963-2 MS	ARTESIA-SB40-111820	68	111	92	108
600-213963-2 MSD	ARTESIA-SB40-111820	69	113	93	107
600-213963-3	ARTESIA-SB39-111920	68	104	88	99
600-213963-4	ARTESIA-MB39-111920	68	104	91	99
600-213963-5	ARTESIA-SB41-111920	70	104	90	101
600-213963-6	ARTESIA-SB42-111920	66	105	88	98
LCS 600-307647/3	Lab Control Sample	68	104	91	106
LCSD 600-307647/4	Lab Control Sample Dup	69	109	92	109
MB 600-307647/6	Method Blank	66	105	87	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-213963-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-307647/6
Matrix: Water
Analysis Batch: 307647

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			11/23/20 12:43	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			11/23/20 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*66*		*50 - 134*		*11/23/20 12:43*	*1*
4-Bromofluorobenzene	*105*		*67 - 139*		*11/23/20 12:43*	*1*
Dibromofluoromethane	*87*		*62 - 130*		*11/23/20 12:43*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/23/20 12:43*	*1*

Lab Sample ID: LCS 600-307647/3
Matrix: Water
Analysis Batch: 307647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethene			0.0100	0.01058		mg/L		106	58 - 148		
Tetrachloroethene			0.0100	0.01089		mg/L		109	47 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*68*		*50 - 134*
4-Bromofluorobenzene	*104*		*67 - 139*
Dibromofluoromethane	*91*		*62 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 600-307647/4
Matrix: Water
Analysis Batch: 307647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene			0.0100	0.01073		mg/L		107	58 - 148	1	20
Tetrachloroethene			0.0100	0.01093		mg/L		109	47 - 150	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*69*		*50 - 134*
4-Bromofluorobenzene	*109*		*67 - 139*
Dibromofluoromethane	*92*		*62 - 130*
Toluene-d8 (Surr)	*109*		*70 - 130*

Lab Sample ID: 600-213963-2 MS
Matrix: Water
Analysis Batch: 307647

Client Sample ID: ARTESIA-SB40-111820
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethene	0.0138		0.0100	0.02354		mg/L		98	58 - 148		
Tetrachloroethene	0.00676		0.0100	0.01852		mg/L		118	47 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*68*		*50 - 134*

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-213963-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 600-213963-2 MS
Matrix: Water
Analysis Batch: 307647

Client Sample ID: ARTESIA-SB40-111820
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*111*		*67 - 139*
Dibromofluoromethane	*92*		*62 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

Lab Sample ID: 600-213963-2 MSD
Matrix: Water
Analysis Batch: 307647

Client Sample ID: ARTESIA-SB40-111820
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	0.0138		0.0100	0.02436		mg/L		106	58 - 148	3	30
Tetrachloroethene	0.00676		0.0100	0.01863		mg/L		119	47 - 150	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*69*		*50 - 134*
4-Bromofluorobenzene	*113*		*67 - 139*
Dibromofluoromethane	*93*		*62 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

QC Association Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-213963-1

GC/MS VOA

Analysis Batch: 307647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-213963-1	ARTESIA-TB01-111820	Total/NA	Water	8260B	
600-213963-2	ARTESIA-SB40-111820	Total/NA	Water	8260B	
600-213963-3	ARTESIA-SB39-111920	Total/NA	Water	8260B	
600-213963-4	ARTESIA-MB39-111920	Total/NA	Water	8260B	
600-213963-5	ARTESIA-SB41-111920	Total/NA	Water	8260B	
600-213963-6	ARTESIA-SB42-111920	Total/NA	Water	8260B	
MB 600-307647/6	Method Blank	Total/NA	Water	8260B	
LCS 600-307647/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-307647/4	Lab Control Sample Dup	Total/NA	Water	8260B	
600-213963-2 MS	ARTESIA-SB40-111820	Total/NA	Water	8260B	
600-213963-2 MSD	ARTESIA-SB40-111820	Total/NA	Water	8260B	

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-213963-1

Client Sample ID: ARTESIA-TB01-111820
Lab Sample ID: 600-213963-1
Date Collected: 11/18/20 11:40
Matrix: Water
Date Received: 11/20/20 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	307647	11/23/20 13:09	YX1	TAL HOU

Client Sample ID: ARTESIA-SB40-111820
Lab Sample ID: 600-213963-2
Date Collected: 11/18/20 16:10
Matrix: Water
Date Received: 11/20/20 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	307647	11/23/20 13:34	YX1	TAL HOU

Client Sample ID: ARTESIA-SB39-111920
Lab Sample ID: 600-213963-3
Date Collected: 11/19/20 09:00
Matrix: Water
Date Received: 11/20/20 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	307647	11/23/20 14:00	YX1	TAL HOU

Client Sample ID: ARTESIA-MB39-111920
Lab Sample ID: 600-213963-4
Date Collected: 11/19/20 09:10
Matrix: Water
Date Received: 11/20/20 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	307647	11/23/20 14:25	YX1	TAL HOU

Client Sample ID: ARTESIA-SB41-111920
Lab Sample ID: 600-213963-5
Date Collected: 11/19/20 11:45
Matrix: Water
Date Received: 11/20/20 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	307647	11/23/20 15:42	YX1	TAL HOU

Client Sample ID: ARTESIA-SB42-111920
Lab Sample ID: 600-213963-6
Date Collected: 11/19/20 13:55
Matrix: Water
Date Received: 11/20/20 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	307647	11/23/20 16:07	YX1	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: Jacobs Engineering Group, Inc.
Job ID: 600-213963-1
Project/Site: Dowell - Artesia

Laboratory: Eurofins TestAmerica, Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	20-052-0	08-04-21
Louisiana	NELAP	01967	06-30-21
Oklahoma	State	2020-033	08-31-21
Texas	NELAP	T104704223-20-28	11-01-21
USDA	US Federal Programs	P330-18-00130	04-30-21

Method Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-213963-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
5030B	Purge and Trap	SW846	TAL HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia

Job ID: 600-213963-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-213963-1	ARTESIA-TB01-111820	Water	11/18/20 11:40	11/20/20 09:13	
600-213963-2	ARTESIA-SB40-111820	Water	11/18/20 16:10	11/20/20 09:13	
600-213963-3	ARTESIA-SB39-111920	Water	11/19/20 09:00	11/20/20 09:13	
600-213963-4	ARTESIA-MB39-111920	Water	11/19/20 09:10	11/20/20 09:13	
600-213963-5	ARTESIA-SB41-111920	Water	11/19/20 11:45	11/20/20 09:13	
600-213963-6	ARTESIA-SB42-111920	Water	11/19/20 13:55	11/20/20 09:13	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-213963-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 302094

Lab Sample ID: IC 600-302094/2 Client Sample ID:

Date Analyzed: 08/26/20 11:15 Lab File ID: C23901.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.24	Peak assignment corrected	xiey	08/26/20 11:38
Chloroethane	5.02	Peak assignment corrected	xiey	08/26/20 11:38
Acetonitrile	5.58	Poor chromatography	xiey	08/26/20 11:38
Isopropyl alcohol	5.59	Poor chromatography	xiey	08/26/20 11:38
Acetone	5.66	Poor chromatography	xiey	08/26/20 11:38
t-Butanol	6.02	Poor chromatography	xiey	08/26/20 11:38
Iodomethane	6.07	Poor chromatography	xiey	08/26/20 11:39
Methyl acetate	6.15	Poor chromatography	xiey	08/26/20 11:39
trans-1,2-Dichloroethene	6.67	Poor chromatography	xiey	08/26/20 11:39
1,1-Dichloroethane	6.87	Poor chromatography	xiey	08/26/20 11:39
Vinyl acetate	6.93	Poor chromatography	xiey	08/26/20 11:39
Isopropyl ether	7.15	Poor chromatography	xiey	08/26/20 11:39
cis-1,2-Dichloroethene	7.31	Poor chromatography	xiey	08/26/20 11:39
Ethyl acetate	7.39	Poor chromatography	xiey	08/26/20 11:40
Isobutyl alcohol	7.45	Peak assignment corrected	xiey	08/26/20 13:19
Dibromofluoromethane	7.56	Poor chromatography	xiey	08/26/20 11:40
Tetrahydrofuran	7.71	Poor chromatography	xiey	08/26/20 11:40
1,2-Dichloroethane-d4 (Surr)	7.91	Poor chromatography	xiey	08/26/20 11:41
Dibromomethane	8.80	Poor chromatography	xiey	08/26/20 11:41
cis-1,3-Dichloropropene	9.37	Poor chromatography	xiey	08/26/20 11:42
4-Methyl-2-pentanone (MIBK)	9.44	Poor chromatography	xiey	08/26/20 11:41
trans-1,3-Dichloropropene	9.74	Poor chromatography	xiey	08/26/20 11:42
1,1,2-Trichloroethane	9.91	Poor chromatography	xiey	08/26/20 11:42
Bromoform	12.08	Poor chromatography	xiey	08/26/20 11:43
1,1,2,2-Tetrachloroethane	12.33	Poor chromatography	xiey	08/26/20 11:43
1,2,3-Trichloropropane	12.48	Poor chromatography	xiey	08/26/20 11:45
1,2-Dibromo-3-Chloropropane	14.94	Poor chromatography	xiey	08/26/20 11:45
1,2,3-Trichlorobenzene	16.92	Poor chromatography	xiey	08/26/20 11:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-213963-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 302094

Lab Sample ID: IC 600-302094/3 Client Sample ID:

Date Analyzed: 08/26/20 11:42 Lab File ID: C23902.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.24	Peak assignment corrected	xiey	08/26/20 12:02
Acetone	5.65	Poor chromatography	xiey	08/26/20 12:04
t-Butanol	6.03	Poor chromatography	xiey	08/26/20 12:04
Methyl acetate	6.15	Poor chromatography	xiey	08/26/20 12:04
trans-1,2-Dichloroethene	6.67	Poor chromatography	xiey	08/26/20 12:04
Propionitrile	6.88	Poor chromatography	xiey	08/26/20 12:07
2-Butanone (MEK)	7.18	Poor chromatography	xiey	08/26/20 12:07
cis-1,2-Dichloroethene	7.31	Poor chromatography	xiey	08/26/20 12:04
Isobutyl alcohol	7.46	Poor chromatography	xiey	08/26/20 12:07
Tetrahydrofuran	7.72	Poor chromatography	xiey	08/26/20 12:05
1,2-Dichloroethane-d4 (Surr)	7.90	Poor chromatography	xiey	08/26/20 12:05
Ethyl acrylate	8.68	Poor chromatography	xiey	08/26/20 12:05
Dibromomethane	8.80	Poor chromatography	xiey	08/26/20 12:05
1,4-Dioxane	8.95	Poor chromatography	xiey	08/26/20 12:25
2-Chloroethyl vinyl ether	9.15	Poor chromatography	xiey	08/26/20 12:08
1,1,2-Trichloroethane	9.90	Poor chromatography	xiey	08/26/20 12:05
2-Hexanone	10.22	Poor chromatography	xiey	08/26/20 12:08
1,2,3-Trichloropropane	12.49	Poor chromatography	xiey	08/26/20 12:06
trans-1,4-Dichloro-2-butene	12.51	Poor chromatography	xiey	08/26/20 12:08
1,2-Dibromo-3-Chloropropane	14.92	Poor chromatography	xiey	08/26/20 12:06
1,2,3-Trichlorobenzene	16.91	Poor chromatography	xiey	08/26/20 12:06

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-213963-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 302094

Lab Sample ID: IC 600-302094/4 Client Sample ID:

Date Analyzed: 08/26/20 12:08 Lab File ID: C23903.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.24	Poor chromatography	xiey	08/26/20 13:15
Isobutyl alcohol	7.46	Poor chromatography	xiey	08/26/20 13:15
1,2-Dichloroethane-d4 (Surr)	7.90	Poor chromatography	xiey	08/26/20 13:15
1,2-Dichloroethane	7.96	Split Peak	xiey	08/26/20 13:18
Ethyl acrylate	8.68	Poor chromatography	xiey	08/26/20 13:15
Dibromomethane	8.79	Poor chromatography	xiey	08/26/20 13:15
2-Chloroethyl vinyl ether	9.15	Poor chromatography	xiey	08/26/20 13:14
1,2,3-Trichloropropane	12.48	Poor chromatography	xiey	08/26/20 13:14

Lab Sample ID: IC 600-302094/5 Client Sample ID:

Date Analyzed: 08/26/20 12:35 Lab File ID: C23904.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	08/26/20 13:13
Dibromomethane	8.79	Peak assignment corrected	xiey	08/26/20 13:13

Lab Sample ID: ICIS 600-302094/6 Client Sample ID:

Date Analyzed: 08/26/20 13:02 Lab File ID: C23905.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.45	Peak assignment corrected	xiey	08/26/20 14:37
Dibromomethane	8.79	Peak assignment corrected	xiey	08/26/20 14:37

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-213963-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 302094

Lab Sample ID: IC 600-302094/7 Client Sample ID:

Date Analyzed: 08/26/20 13:29 Lab File ID: C23906.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	08/26/20 13:52

Lab Sample ID: IC 600-302094/8 Client Sample ID:

Date Analyzed: 08/26/20 13:55 Lab File ID: C23907.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Split Peak	xiey	08/26/20 14:22
Chlorobenzene-d5	11.47	Split Peak	xiey	08/26/20 14:22

Lab Sample ID: ICV 600-302094/1010 Client Sample ID:

Date Analyzed: 08/26/20 14:49 Lab File ID: C23909-ICV.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.46	Peak assignment corrected	xiey	08/26/20 15:21
Dibromomethane	8.79	Peak assignment corrected	xiey	08/26/20 15:21

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-213963-1

SDG No.:

Instrument ID: CHVOAMS01 Analysis Batch Number: 307647

Lab Sample ID: CCVIS 600-307647/2 Client Sample ID:

Date Analyzed: 11/23/20 10:49 Lab File ID: C32801.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.45	Peak assignment corrected	xiey	11/23/20 11:23
Dibromomethane	8.78	Peak assignment corrected	xiey	11/23/20 11:23

Lab Sample ID: 600-213963-2 MSD Client Sample ID: ARTESIA-SB40-111820 MSD

Date Analyzed: 11/23/20 15:16 Lab File ID: C32811.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	6.01	Peak assignment corrected	xiey	11/24/20 09:34

8260B

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
BFB_00317							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21		Restek, Lot A0120567		(Purchased Reagent)		BFB	2000 ug/mL
BFB_00323							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21		Restek, Lot A0120567		(Purchased Reagent)		BFB	2000 ug/mL
VOAIS50PPM_00285	09/07/20	08/24/20	Methanol, Lot V081320A	1 mL	VOA3IS_00031	20 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VOA3IS_00031	06/30/23		Restek, Lot A0138856		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VOAIS50PPM_00292	12/01/20	11/17/20	Methanol, Lot V081320A	1 mL	VOA3IS_00043	20 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VOA3IS_00043	04/30/25		Restek, Lot A0160049		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VOALCSPT2T_00094	09/07/20	08/24/20	Methanol, Lot V081320A	1 mL	VOALMegMi2017_00004	20 uL	1,1-Dichloroethene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00004	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1-Dichloroethene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOALCSPT2T_00100	12/01/20	11/17/20	Methanol, Lot V081320A	1 mL	VOALMegMi2017_00006	20 uL	1,1-Dichloroethene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00006	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1-Dichloroethene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOASS50PPM_00323	09/07/20	08/24/20	Methanol, Lot V081320A	1 mL	VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASS50PPM_00330	12/01/20	11/17/20	Methanol, Lot V081320A	1 mL	VOARSS_00025	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00025	01/31/25	Restek, Lot A0156891			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASTDGASPT_00396	09/01/20	08/25/20	Methanol, Lot V100919A	1 mL	VOARGAS_00021	20 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VOARGAS_00021	11/30/22	Restek, Lot A0154679			(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VOASTDst_00143	09/07/20	08/24/20	Methanol, Lot V081320A	1 mL	VOAMegMix2017_00006	20 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VOAR2CEVE_00014	40 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VOARAcroleinS_00007	12.5 uL	Acrolein	250 ug/mL
					VOARADD4COM_00011	20 uL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VOARADDCOM_00019	20 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
					VOARKETONDup_00003	8 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VOARPOLADD_00014	20 uL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					VOARSS_00012	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					VOARVASTD_00009	20 uL	Vinyl acetate	100 ug/mL
.VOAMegMix2017_00006	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.VOAR2CEVE_00014	12/31/20		Restek, Lot A0133302		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcroleinS_00007	04/30/21		Restek, Lot A0154578		(Purchased Reagent)		Acrolein	20000 ug/mL
.VOARADD4COM_00011	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VOARADDCOM_00019	05/31/21		Restek, Lot A0154734		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
.VOARKETONDup_00003	09/30/22		RESTEK, Lot A0152956		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARPOLADD_00014	01/31/21		Restek, Lot A0144915		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARSS_00012	12/31/20		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.VOARVASTD_00009	07/31/21		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VOASTDst_00149	12/01/20	11/17/20	Methanol, Lot V081320A	1 mL	VOAMegMix2017_00010	20 uL	1,1-Dichloroethene	50 ug/mL
							Tetrachloroethene	50 ug/mL
					VOARSS_00025	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOAMegMix2017_00010	10/31/22		Restek, Lot A0159680		(Purchased Reagent)		1,1-Dichloroethene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
.VOARSS_00025	01/31/25		Restek, Lot A0156891		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL

Method 8260B Low Level

Volatile Organic Compounds (GC/MS) by Method 8260B Low Level

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-VRX 60 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ARTESIA-TB01-111820	600-213963-1	88	67	99	104
ARTESIA-SB40-111820	600-213963-2	89	68	99	104
ARTESIA-SB39-111920	600-213963-3	88	68	99	104
ARTESIA-MB39-111920	600-213963-4	91	68	99	104
ARTESIA-SB41-111920	600-213963-5	90	70	101	104
ARTESIA-SB42-111920	600-213963-6	88	66	98	105
	MB 600-307647/6	87	66	101	105
	LCS 600-307647/3	91	68	106	104
	LCSD 600-307647/4	92	69	109	109
ARTESIA-SB40-111820 MS	600-213963-2 MS	92	68	108	111
ARTESIA-SB40-111820 MSD	600-213963-2 MSD	93	69	107	113

	QC LIMITS
DBFM = Dibromofluoromethane	62-130
DCA = 1,2-Dichloroethane-d4 (Surr)	50-134
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	67-139

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C32802.D

Lab ID: LCS 600-307647/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	0.0100	0.01058	106	58-148	
Tetrachloroethene	0.0100	0.01089	109	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C32803.D

Lab ID: LCSD 600-307647/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethene	0.0100	0.01073	107	1	20	58-148	
Tetrachloroethene	0.0100	0.01093	109	0	20	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C32810.D

Lab ID: 600-213963-2 MS Client ID: ARTESIA-SB40-111820 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
1,1-Dichloroethene	0.0100	0.0138	0.02354	98	58-148	
Tetrachloroethene	0.0100	0.00676	0.01852	118	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C32811.D

Lab ID: 600-213963-2 MSD Client ID: ARTESIA-SB40-111820 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethene	0.0100	0.02436	106	3	30	58-148	
Tetrachloroethene	0.0100	0.01863	119	1	30	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Lab File ID: C32805.D Lab Sample ID: MB 600-307647/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHVOAMS01 Date Analyzed: 11/23/2020 12:43

GC Column: DB-VRX 60 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-307647/3	C32802.D	11/23/2020 11:27
	LCSD 600-307647/4	C32803.D	11/23/2020 11:52
ARTESIA-TB01-111820	600-213963-1	C32806.D	11/23/2020 13:09
ARTESIA-SB40-111820	600-213963-2	C32807.D	11/23/2020 13:34
ARTESIA-SB39-111920	600-213963-3	C32808.D	11/23/2020 14:00
ARTESIA-MB39-111920	600-213963-4	C32809.D	11/23/2020 14:25
ARTESIA-SB40-111820 MS	600-213963-2 MS	C32810.D	11/23/2020 14:51
ARTESIA-SB40-111820 MSD	600-213963-2 MSD	C32811.D	11/23/2020 15:16
ARTESIA-SB41-111920	600-213963-5	C32812.D	11/23/2020 15:42
ARTESIA-SB42-111920	600-213963-6	C32813.D	11/23/2020 16:07

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Lab File ID: C23900.D BFB Injection Date: 08/26/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 10:49

Analysis Batch No.: 302094

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.7	
75	30.0 - 60.0 % of mass 95	54.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	84.6	
175	5.0 - 9.0 % of mass 174	7.0	(8.2) 1
176	95.0 - 101.0 % of mass 174	82.1	(97.1) 1
177	5.0 - 9.0 % of mass 176	6.8	(8.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 600-302094/2	C23901.D	08/26/2020	11:15
	IC 600-302094/3	C23902.D	08/26/2020	11:42
	IC 600-302094/4	C23903.D	08/26/2020	12:08
	IC 600-302094/5	C23904.D	08/26/2020	12:35
	ICIS 600-302094/6	C23905.D	08/26/2020	13:02
	IC 600-302094/7	C23906.D	08/26/2020	13:29
	IC 600-302094/8	C23907.D	08/26/2020	13:55
	ICV 600-302094/1010	C23909-ICV.d	08/26/2020	14:49

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Lab File ID: C32800A.D BFB Injection Date: 11/23/2020

Instrument ID: CHVOAMS01 BFB Injection Time: 10:23

Analysis Batch No.: 307647

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.1	
75	30.0 - 60.0 % of mass 95	48.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	91.5	
175	5.0 - 9.0 % of mass 174	7.1	(7.8) 1
176	95.0 - 101.0 % of mass 174	89.9	(98.3) 1
177	5.0 - 9.0 % of mass 176	6.6	(7.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 600-307647/2	C32801.D	11/23/2020	10:49
	LCS 600-307647/3	C32802.D	11/23/2020	11:27
	LCSD 600-307647/4	C32803.D	11/23/2020	11:52
	MB 600-307647/6	C32805.D	11/23/2020	12:43
ARTESIA-TB01-111820	600-213963-1	C32806.D	11/23/2020	13:09
ARTESIA-SB40-111820	600-213963-2	C32807.D	11/23/2020	13:34
ARTESIA-SB39-111920	600-213963-3	C32808.D	11/23/2020	14:00
ARTESIA-MB39-111920	600-213963-4	C32809.D	11/23/2020	14:25
ARTESIA-SB40-111820 MS	600-213963-2 MS	C32810.D	11/23/2020	14:51
ARTESIA-SB40-111820 MSD	600-213963-2 MSD	C32811.D	11/23/2020	15:16
ARTESIA-SB41-111920	600-213963-5	C32812.D	11/23/2020	15:42
ARTESIA-SB42-111920	600-213963-6	C32813.D	11/23/2020	16:07

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Sample No.: ICIS 600-302094/6 Date Analyzed: 08/26/2020 13:02

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C23905.D Heated Purge: (Y/N) N

Calibration ID: 18541

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		288438	8.48	131187	11.47	140138	14.06
UPPER LIMIT		576876	8.98	262374	11.97	280276	14.56
LOWER LIMIT		144219	7.98	65594	10.97	70069	13.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 600-302094/1010		322497	8.48	148110	11.47	167232	14.06
CCVIS 600-307647/2		364554	8.48	159401	11.46	194141	14.05

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Sample No.: CCVIS 600-307647/2 Date Analyzed: 11/23/2020 10:49

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): C32801.D Heated Purge: (Y/N) N

Calibration ID: 18556

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		364554	8.48	159401	11.46	194141	14.05
UPPER LIMIT		729108	8.98	318802	11.96	388282	14.55
LOWER LIMIT		182277	7.98	79701	10.96	97071	13.55
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 600-307647/3		352770	8.48	158905	11.46	203644	14.05
LCSD 600-307647/4		362399	8.48	162359	11.46	207409	14.05
MB 600-307647/6		359403	8.48	169371	11.46	211652	14.05
600-213963-1	ARTESIA-TB01-111820	346808	8.48	166237	11.46	206640	14.05
600-213963-2	ARTESIA-SB40-111820	343817	8.48	163398	11.46	206180	14.05
600-213963-3	ARTESIA-SB39-111920	335710	8.48	161442	11.46	202102	14.05
600-213963-4	ARTESIA-MB39-111920	335468	8.48	160322	11.47	200751	14.05
600-213963-2 MS	ARTESIA-SB40-111820 MS	330832	8.48	148631	11.46	191619	14.05
600-213963-2 MSD	ARTESIA-SB40-111820 MSD	310364	8.48	141789	11.46	181017	14.05
600-213963-5	ARTESIA-SB41-111920	312530	8.48	149679	11.46	190420	14.05
600-213963-6	ARTESIA-SB42-111920	306692	8.48	148682	11.46	183992	14.05

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Client Sample ID: ARTESIA-TB01-111820 Lab Sample ID: 600-213963-1

Matrix: Water Lab File ID: C32806.D

Analysis Method: 8260B Date Collected: 11/18/2020 11:40

Sample wt/vol: 20(mL) Date Analyzed: 11/23/2020 13:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307647 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	67		50-134
460-00-4	4-Bromofluorobenzene	104		67-139
1868-53-7	Dibromofluoromethane	88		62-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Client Sample ID: ARTESIA-SB40-111820 Lab Sample ID: 600-213963-2

Matrix: Water Lab File ID: C32807.D

Analysis Method: 8260B Date Collected: 11/18/2020 16:10

Sample wt/vol: 20(mL) Date Analyzed: 11/23/2020 13:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307647 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.0138		0.00100	0.000192
127-18-4	Tetrachloroethene	0.00676		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	68		50-134
460-00-4	4-Bromofluorobenzene	104		67-139
1868-53-7	Dibromofluoromethane	89		62-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Client Sample ID: ARTESIA-SB39-111920 Lab Sample ID: 600-213963-3

Matrix: Water Lab File ID: C32808.D

Analysis Method: 8260B Date Collected: 11/19/2020 09:00

Sample wt/vol: 20(mL) Date Analyzed: 11/23/2020 14:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307647 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00276		0.00100	0.000192
127-18-4	Tetrachloroethene	0.00233		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	68		50-134
460-00-4	4-Bromofluorobenzene	104		67-139
1868-53-7	Dibromofluoromethane	88		62-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Client Sample ID: ARTESIA-MB39-111920 Lab Sample ID: 600-213963-4

Matrix: Water Lab File ID: C32809.D

Analysis Method: 8260B Date Collected: 11/19/2020 09:10

Sample wt/vol: 20(mL) Date Analyzed: 11/23/2020 14:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307647 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00265		0.00100	0.000192
127-18-4	Tetrachloroethene	0.00211		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	68		50-134
460-00-4	4-Bromofluorobenzene	104		67-139
1868-53-7	Dibromofluoromethane	91		62-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Client Sample ID: ARTESIA-SB41-111920 Lab Sample ID: 600-213963-5

Matrix: Water Lab File ID: C32812.D

Analysis Method: 8260B Date Collected: 11/19/2020 11:45

Sample wt/vol: 20(mL) Date Analyzed: 11/23/2020 15:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307647 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00182		0.00100	0.000192
127-18-4	Tetrachloroethene	0.00154		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	70		50-134
460-00-4	4-Bromofluorobenzene	104		67-139
1868-53-7	Dibromofluoromethane	90		62-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Client Sample ID: ARTESIA-SB42-111920 Lab Sample ID: 600-213963-6

Matrix: Water Lab File ID: C32813.D

Analysis Method: 8260B Date Collected: 11/19/2020 13:55

Sample wt/vol: 20(mL) Date Analyzed: 11/23/2020 16:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307647 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00304		0.00100	0.000192
127-18-4	Tetrachloroethene	0.00249		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	66		50-134
460-00-4	4-Bromofluorobenzene	105		67-139
1868-53-7	Dibromofluoromethane	88		62-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-302094/2	C23901.D
Level 2	IC 600-302094/3	C23902.D
Level 3	IC 600-302094/4	C23903.D
Level 4	IC 600-302094/5	C23904.D
Level 5	ICIS 600-302094/6	C23905.D
Level 6	IC 600-302094/7	C23906.D
Level 7	IC 600-302094/8	C23907.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2664 0.3589	0.3291 0.2963	0.3544	0.3665	0.3639	Ave		0.3336				11.6		15.0			
Chloromethane	0.1704 0.1614	0.1538 0.1458	0.1604	0.1597	0.1585	Ave		0.1586			0.1000	4.7		15.0			
Vinyl chloride	0.1873 0.2305	0.2064 0.1730	0.2240	0.2376	0.2313	Ave		0.2129				11.6		15.0			
Butadiene	0.2047 0.2193	0.2074 0.1739	0.2283	0.2433	0.2322	Ave		0.2156				10.6		15.0			
Bromomethane	0.1115 0.1658	0.1134 0.1640	0.1242	0.1386	0.1529	Lin2	-0.026	0.1532							0.9900		0.9900
Chloroethane	0.1284 0.1767	0.1554 0.1506	0.1690	0.1782	0.1766	Ave		0.1621				11.4		15.0			
Dichlorofluoromethane	0.4420 0.5613	0.4981 0.4855	0.5536	0.5826	0.5609	Ave		0.5263				9.8		15.0			
Acrolein	0.0055 0.0131	0.0102 0.0136	0.0108	0.0120	0.0131	Lin2	-0.019	0.0133							0.9980		0.9900
Trichlorofluoromethane	0.6261 0.7594	0.7214 0.6309	0.7934	0.8391	0.8113	Ave		0.7402				11.5		15.0			
Acetonitrile	0.0042 0.0081	0.0070 0.0082	0.0082	0.0079	0.0081	Lin2	-0.020	0.0085							0.9960		0.9900
Isopropyl alcohol	0.0022 0.0052	0.0031 0.0055	0.0043	0.0049	0.0050	Lin2	-0.016	0.0052							0.9970		0.9900
Acetone	+++++ 0.0272	0.0363 0.0283	0.0344	0.0297	0.0273	Ave		0.0305				12.8		15.0			
Ethyl ether	0.1401 0.1619	0.1669 0.1526	0.1699	0.1630	0.1678	Ave		0.1603				6.6		15.0			
t-Butanol	0.0078 0.0121	0.0119 0.0124	0.0118	0.0123	0.0128	Ave		0.0116				14.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloroethene	0.2523 0.2502	0.2700 0.2288	0.2868	0.2775	0.2684	Ave		0.2620				7.5		15.0			
Acrylonitrile	0.0135 0.0233	0.0202 0.0223	0.0214	0.0219	0.0231	Lin2	-0.046	0.0233							0.9980		0.9900
Iodomethane	0.2817 0.3878	0.3060 0.2911	0.3326	0.3458	0.3741	Ave		0.3313				12.3		15.0			
Methylene Chloride	1.2953 0.2429	0.7606 0.2161	0.5274	0.3407	0.2762	Lin2	0.5387	0.2249							0.9920		0.9900
Methyl acetate	0.0439 0.0671	0.0666 0.0643	0.0728	0.0690	0.0711	Ave		0.0650				15.0		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3121 0.2920	0.3423 0.2671	0.3396	0.3331	0.3181	Ave		0.3149				8.7		15.0			
3-Chloro-1-propene	0.1433 0.1562	0.1565 0.1340	0.1636	0.1693	0.1641	Ave		0.1553				8.1		15.0			
Carbon disulfide	0.8618 0.7561	0.8557 0.7068	0.8190	0.7808	0.7323	Ave		0.7875				7.6		15.0			
trans-1,2-Dichloroethene	0.2815 0.2665	0.3055 0.2554	0.3112	0.2941	0.2876	Ave		0.2860				7.0		15.0			
Methyl tert-butyl ether	0.5776 0.6683	0.7218 0.6322	0.7336	0.7155	0.7117	Ave		0.6801				8.4		15.0			
1,1-Dichloroethane	0.5120 0.5202	0.6081 0.4824	0.6158	0.5904	0.5633	Ave		0.5560			0.1000	9.3		15.0			
Propionitrile	+++++ 0.0106	0.0074 0.0104	0.0083	0.0100	0.0102	Ave		0.0095				13.7		15.0			
Vinyl acetate	0.1658 0.2373	0.1766 0.2209	0.2032	0.2464	0.2398	Ave		0.2129				15.0		15.0			
2-Chloro-1,3-butadiene	0.4465 0.4873	0.5216 0.4285	0.5600	0.5621	0.5371	Ave		0.5062				10.6		15.0			
Hexane	0.3686 0.3396	0.4056 0.3006	0.4180	0.4101	0.3868	Ave		0.3756				11.4		15.0			
Isopropyl ether	0.7795 0.7347	0.9210 0.6316	0.9498	0.8765	0.8257	Ave		0.8170				13.7		15.0			
2-Butanone (MEK)	+++++ 0.0129	0.0039 0.0128	0.0097	0.0119	0.0129	Lin2	-0.018	0.0136							0.9980		0.9900
Methacrylonitrile	0.0068 0.0136	0.0118 0.0131	0.0131	0.0134	0.0139	Lin2	-0.033	0.0141							0.9960		0.9900
cis-1,2-Dichloroethene	0.2556 0.2739	0.2956 0.2597	0.3028	0.2909	0.2862	Ave		0.2806				6.4		15.0			
Ethyl acetate	0.0506 0.0952	0.0741 0.0973	0.0857	0.0913	0.0937	Lin2	-0.046	0.0967							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobromomethane	0.0886 0.1087	0.1120 0.1019	0.1278	0.1229	0.1166	Ave		0.1112				11.9		15.0			
Tert-butyl ethyl ether	0.7744 0.8516	0.9236 0.7578	0.9803	0.9466	0.9073	Ave		0.8774				9.8		15.0			
Isobutyl alcohol	0.0121 0.0074	0.0092 0.0069	0.0093	0.0088	0.0085	Lin2	0.0531	0.0077							0.9910		0.9900
Chloroform	0.6700 0.5575	0.6773 0.5027	0.6829	0.6362	0.6115	Ave		0.6197				11.0		15.0			
2,2-Dichloropropane	0.6388 0.6803	0.7273 0.6060	0.7626	0.7664	0.7402	Ave		0.7031				8.9		15.0			
Tetrahydrofuran	0.0112 0.0226	0.0219 0.0234	0.0207	0.0231	0.0237	Lin2	-0.011	0.0241							0.9930		0.9900
1,2-Dichloroethane	0.2908 0.3629	0.3643 0.3493	0.3729	0.3783	0.3747	Ave		0.3562				8.5		15.0			
1,1,1-Trichloroethane	0.6935 0.6744	0.7659 0.6185	0.7924	0.7759	0.7383	Ave		0.7227				8.7		15.0			
1,1-Dichloropropene	0.3932 0.4550	0.4900 0.4256	0.4867	0.5103	0.4888	Ave		0.4642				9.0		15.0			
Cyclohexane	0.4510 0.4160	0.4622 0.3836	0.4853	0.4875	0.4564	Ave		0.4489				8.3		15.0			
Carbon tetrachloride	0.6071 0.6294	0.7049 0.5734	0.7165	0.7164	0.6842	Ave		0.6617				8.8		15.0			
Benzene	1.0530 1.0402	1.1507 0.9334	1.1749	1.1824	1.1292	Ave		1.0948				8.3		15.0			
Tert-amyl methyl ether	0.5742 0.6777	0.7057 0.6641	0.7474	0.7273	0.7171	Ave		0.6876				8.4		15.0			
Isooctane	0.7639 0.6838	0.8083 0.6238	0.7981	0.8147	0.7554	Ave		0.7497				9.5		15.0			
Ethyl acrylate	0.1082 0.2059	0.1740 0.2028	0.1880	0.2047	0.2108	Lin2	-0.049	0.2119							0.9990		0.9900
n-Heptane	0.2958 0.3133	0.3343 0.2820	0.3529	0.3614	0.3383	Ave		0.3254				9.0		15.0			
Dibromomethane	0.0839 0.1064	0.1035 0.1027	0.1083	0.1092	0.1084	Ave		0.1032				8.6		15.0			
1,2-Dichloropropane	0.2045 0.2154	0.2374 0.1956	0.2541	0.2461	0.2321	Ave		0.2264				9.6		15.0			
2-Nitropropane	0.0263 0.0457	0.0333 0.0425	0.0413	0.0451	0.0444	Lin2	-0.020	0.0452							0.9980		0.9900
Trichloroethene	0.3056 0.3080	0.3493 0.2871	0.3595	0.3410	0.3306	Ave		0.3259				8.1		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Bromodichloromethane	0.3091 0.4163	0.3979 0.3951	0.4340	0.4472	0.4391	Ave		0.4055				11.6		15.0			
Methyl methacrylate	0.0613 0.1185	0.0991 0.1136	0.1099	0.1227	0.1212	Lin2	-0.058	0.1225							0.9970		0.9900
1,4-Dioxane	+++++ 0.0009	0.0003 0.0010	0.0006	0.0007	0.0008	Lin2	-0.013	0.0009							0.9930		0.9900
2-Chloroethyl vinyl ether	+++++ 0.0597	0.0139 0.0696	0.0266	0.0412	0.0501	Lin1	-0.151	0.0671							0.9900		0.9900
Methylcyclohexane	0.4288 0.4511	0.4794 0.4176	0.5162	0.5166	0.4971	Ave		0.4724				8.6		15.0			
cis-1,3-Dichloropropene	0.6935 0.8948	0.7809 0.8452	0.8544	0.8989	0.8798	Ave		0.8353				8.9		15.0			
4-Methyl-2-pentanone (MIBK)	0.0518 0.0981	0.0799 0.0979	0.0841	0.0913	0.0967	Lin2	-0.045	0.0981							0.9990		0.9900
trans-1,3-Dichloropropene	0.4906 0.7451	0.5853 0.7251	0.6563	0.7171	0.7256	Ave		0.6636				14.2		15.0			
1,1,2-Trichloroethane	0.2391 0.3278	0.3303 0.3139	0.3339	0.3304	0.3270	Ave		0.3146				10.8		15.0			
Ethyl methacrylate	0.2572 0.4323	0.2930 0.4153	0.3556	0.3963	0.4088	Lin2	-0.088	0.4143							0.9970		0.9900
Toluene	1.4689 1.5201	1.5793 1.3516	1.6407	1.6202	1.5436	Ave		1.5321				6.5		15.0			
1,3-Dichloropropane	0.4616 0.6125	0.5806 0.5849	0.6130	0.6189	0.6018	Ave		0.5819				9.4		15.0			
2-Hexanone	+++++ 0.1376	0.0966 0.1430	0.1219	0.1277	0.1311	Ave		0.1263				12.9		15.0			
Dibromochloromethane	0.3221 0.5530	0.4432 0.5323	0.5076	0.5210	0.5239	Lin2	-0.109	0.5465							0.9990		0.9900
n-Butyl acetate	0.1635 0.3640	0.2537 0.3639	0.2957	0.3336	0.3406	Lin2	-0.099	0.3571							0.9990		0.9900
1,2-Dibromoethane	0.1662 0.3251	0.2619 0.3231	0.3105	0.3196	0.3118	Lin2	-0.079	0.3317							0.9990		0.9900
Tetrachloroethene	0.5748 0.6031	0.6099 0.5470	0.6589	0.6405	0.6200	Ave		0.6078				6.2		15.0			
1-Chlorohexane	0.5045 0.6092	0.5516 0.5514	0.6230	0.6493	0.6143	Ave		0.5862				8.7		15.0			
1,1,1,2-Tetrachloroethane	0.4968 0.6087	0.5882 0.5708	0.6485	0.6584	0.6535	Ave		0.6035				9.6		15.0			
Chlorobenzene	1.4234 1.5346	1.5804 1.3979	1.6197	1.5912	1.5279	Ave		1.5250			0.3000	5.6		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethylbenzene	0.7928 0.9134	0.9157 0.8168	0.9370	0.9652	0.9155	Ave		0.8938				7.1		15.0			
m-Xylene & p-Xylene	2.1080 2.3455	2.3303 2.0909	2.4875	2.5063	2.3698	Ave		2.3198				7.1		15.0			
Bromoform	0.1696 0.2857	0.2176 0.2958	0.2480	0.2556	0.2671	Lin2	-0.058	0.2805			0.1000				0.9980		0.9900
Styrene	1.1855 1.5415	1.4546 1.4121	1.4506	1.5275	1.5232	Ave		1.4421				8.5		15.0			
o-Xylene	0.9807 1.0431	1.0744 0.9258	1.1201	1.1321	1.0606	Ave		1.0481				7.0		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.3248	0.3254 0.3079	0.3460	0.3380	0.3235	Ave		0.3276			0.3000	4.0		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.0833	0.0095 0.0905	0.0486	0.0688	0.0796	Lin2	-0.079	0.0880							0.9990		0.9900
1,2,3-Trichloropropane	0.0569 0.1052	0.0967 0.1066	0.1028	0.1067	0.1059	Lin2	-0.024	0.1104							0.9960		0.9900
Isopropylbenzene	2.2695 2.5005	2.5888 2.2441	2.7438	2.8163	2.7038	Ave		2.5524				8.9		15.0			
Bromobenzene	0.5240 0.6085	0.6368 0.5880	0.6343	0.6638	0.6319	Ave		0.6125				7.5		15.0			
N-Propylbenzene	0.5976 0.6672	0.6669 0.6211	0.7227	0.7515	0.7143	Ave		0.6773				8.2		15.0			
2-Chlorotoluene	0.5498 0.5893	0.6163 0.5583	0.6641	0.6670	0.6332	Ave		0.6111				7.8		15.0			
4-Chlorotoluene	1.8261 1.9528	2.0915 1.8238	2.1799	2.1879	2.1091	Ave		2.0245				7.7		15.0			
1,3,5-Trimethylbenzene	2.0941 2.1580	2.4424 1.9951	2.4783	2.5065	2.3194	Ave		2.2848				8.9		15.0			
tert-Butylbenzene	1.7978 1.8020	2.0060 1.6530	2.0767	2.0916	1.9543	Ave		1.9116				8.6		15.0			
1,2,4-Trimethylbenzene	2.4479 2.2989	2.5874 2.1182	2.6711	2.6453	2.4630	Ave		2.4617				8.1		15.0			
sec-Butylbenzene	2.5812 2.5317	2.9074 2.3278	2.9668	3.0011	2.7537	Ave		2.7242				9.3		15.0			
Benzyl chloride	0.5318 0.7668	0.6064 0.7576	0.6640	0.7693	0.7934	Ave		0.6985				14.3		15.0			
1,3-Dichlorobenzene	1.1774 1.2377	1.3273 1.1607	1.4099	1.4014	1.3458	Ave		1.2943				7.9		15.0			
4-Isopropyltoluene	2.4061 2.1640	2.6021 1.9783	2.6716	2.6116	2.3961	Ave		2.4043				10.6		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dichlorobenzene	1.3049 1.2347	1.5101 1.1303	1.4783	1.4061	1.3255	Ave		1.3414				10.0		15.0			
1,2,3-Trimethylbenzene	2.4269 2.4074	2.7366 2.2208	2.8211	2.7553	2.6121	Ave		2.5686				8.6		15.0			
1,2-Dichlorobenzene	1.0942 1.1594	1.2696 1.0903	1.2974	1.2826	1.2330	Ave		1.2038				7.4		15.0			
n-Butylbenzene	2.0557 2.0767	2.2626 1.9240	2.3201	2.4113	2.2368	Ave		2.1839				7.8		15.0			
1,2-Dibromo-3-Chloropropane	0.0202 0.0723	0.0481 0.0760	0.0622	0.0659	0.0701	Lin2	-0.027	0.0740							0.9990		0.9900
1,3,5-Trichlorobenzene	0.9459 1.0406	1.0959 0.9353	1.1962	1.1594	1.1157	Ave		1.0698				9.4		15.0			
1,2,4-Trichlorobenzene	0.5549 0.6802	0.6562 0.6236	0.7133	0.7317	0.7071	Ave		0.6667				9.2		15.0			
Naphthalene	0.9688 0.8845	0.9517 0.7918	0.9522	0.9221	0.9083	Ave		0.9113				6.6		15.0			
Hexachlorobutadiene	0.1818 0.1856	0.2163 0.1663	0.2144	0.2205	0.1984	Ave		0.1976				10.4		15.0			
1,2,3-Trichlorobenzene	0.3421 0.4404	0.4662 0.3973	0.4937	0.4868	0.4549	Ave		0.4402				12.2		15.0			
Dibromofluoromethane	0.2709 0.2960	0.3151 0.2799	0.3346	0.3181	0.3160	Ave		0.3044				7.5		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2661 0.3119	0.3213 0.2872	0.3282	0.3253	0.3235	Ave		0.3091				7.6		15.0			
Toluene-d8 (Surr)	2.0250 2.0883	2.1425 1.8998	2.2007	2.2503	2.2034	Ave		2.1157				5.8		15.0			
4-Bromofluorobenzene	0.7816 0.7262	0.7743 0.6961	0.7957	0.7928	0.7713	Ave		0.7626				4.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-302094/2	C23901.D
Level 2	IC 600-302094/3	C23902.D
Level 3	IC 600-302094/4	C23903.D
Level 4	IC 600-302094/5	C23904.D
Level 5	ICIS 600-302094/6	C23905.D
Level 6	IC 600-302094/7	C23906.D
Level 7	IC 600-302094/8	C23907.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	3099 172445	7112 385018	15451	40565	83980	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloromethane	FB	Ave	1982 77527	3323 189520	6992	17682	36569	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Vinyl chloride	FB	Ave	2179 110738	4460 224794	9766	26304	53367	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Butadiene	FB	Ave	2381 105366	4482 225950	9953	26928	53588	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromomethane	FB	Lin2	1297 79675	2451 213103	5416	15337	35293	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloroethane	FB	Ave	1493 84919	3358 195687	7367	19730	40757	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dichlorofluoromethane	FB	Ave	5141 269676	10766 630942	24136	64492	129435	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acrolein	FB	Lin2	322 31484	1098 88146	2364	6620	15140	2.50 100	5.00 250	10.0	25.0	50.0
Trichlorofluoromethane	FB	Ave	7282 364888	15591 819887	34593	92876	187211	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acetonitrile	FB	Lin2	484 39013	1521 107127	3579	8794	18672	5.00 200	10.0 500	20.0	50.0	100
Isopropyl alcohol	FB	Lin2	253 24806	679 71359	1858	5450	11480	5.00 200	10.0 500	20.0	50.0	100
Acetone	FB	Ave	+++++ 26099	1571 73554	3001	6564	12613	+++++ 40.0	2.00 100	4.00	10.0	20.0
Ethyl ether	FB	Ave	1629 77779	3608 198351	7407	18046	38712	0.500 20.0	1.00 50.0	2.00	5.00	10.0
t-Butanol	FB	Ave	906 58024	2565 160513	5156	13643	29529	5.00 200	10.0 500	20.0	50.0	100
1,1-Dichloroethene	FB	Ave	2935 120193	5836 297346	12502	30716	61941	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Lin2	1565 111963	4363 290223	9313	24206	53254	5.00 200	10.0 500	20.0	50.0	100
Iodomethane	FB	Ave	3277 186310	6614 378287	14499	38275	86322	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methylene Chloride	FB	Lin2	15066 116684	16439 280892	22996	37709	63729	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl acetate	FB	Ave	1021 64520	2878 167010	6349	15274	32816	1.00 40.0	2.00 100	4.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	3630 140295	7397 347063	14808	36868	73401	0.500 20.0	1.00 50.0	2.00	5.00	10.0
3-Chloro-1-propene	FB	Ave	1667 75029	3382 174151	7132	18738	37865	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon disulfide	FB	Ave	10024 363303	18494 918612	35709	86427	168986	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	3274 128051	6602 331885	13570	32557	66358	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl tert-butyl ether	FB	Ave	6718 321102	15601 821554	31983	79199	164232	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1-Dichloroethane	FB	Ave	5955 249943	13142 626915	26850	65346	129986	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Propionitrile	FB	Ave	+++++ 51112	1607 134604	3638	11055	23624	+++++ 200	10.0 500	20.0	50.0	100
Vinyl acetate	FB	Ave	3858 228028	7632 574072	17715	54547	110687	1.00 40.0	2.00 100	4.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	5193 234119	11274 556823	24417	62223	123927	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexane	FB	Ave	4287 163178	8766 390675	18225	45393	89243	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropyl ether	FB	Ave	9066 352988	19905 820789	41411	97013	190535	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Lin2	+++++ 12370	168 33151	848	2635	5967	+++++ 40.0	2.00 100	4.00	10.0	20.0
Methacrylonitrile	FB	Lin2	786 65161	2556 169828	5732	14821	32101	5.00 200	10.0 500	20.0	50.0	100
cis-1,2-Dichloroethene	FB	Ave	2973 131580	6388 337464	13200	32196	66039	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acetate	FB	Lin2	1178 91468	3202 252816	7472	20212	43256	1.00 40.0	2.00 100	4.00	10.0	20.0
Chlorobromomethane	FB	Ave	1030 52217	2421 132373	5571	13607	26906	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-butyl ethyl ether	FB	Ave	9007 409173	19961 984861	42741	104780	209350	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Isobutyl alcohol	FB	Lin2	3507 88942	4970 225290	10191	24331	48754	12.5 500	25.0 1250	50.0	125	250
Chloroform	FB	Ave	7793 267867	14639 653310	29775	70424	141095	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2,2-Dichloropropane	FB	Ave	7430 326862	15719 787594	33250	84829	170793	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrahydrofuran	FB	Lin2	261 21749	948 60875	1805	5119	10947	1.00 40.0	2.00 100	4.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	3382 174365	7873 453934	16260	41874	86459	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	8066 324021	16554 803787	34547	85884	170373	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	4573 218610	10591 553116	21218	56488	112782	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Cyclohexane	FB	Ave	5245 199883	9990 498522	21160	53962	105320	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	7061 302429	15235 745166	31240	79302	157870	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzene	FB	Ave	12247 499788	24869 1213018	51226	130881	260557	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-amyl methyl ether	FB	Ave	6678 325621	15253 863047	32585	80502	165460	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isooctane	FB	Ave	8885 328538	17470 810647	34795	90182	174314	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acrylate	FB	Lin2	1259 98936	3760 263510	8195	22656	48632	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Heptane	FB	Ave	3441 150515	7226 366530	15384	40007	78073	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	976 51134	2236 133413	4720	12082	25013	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Ave	2378 103489	5131 254194	11078	27236	53556	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Nitropropane	FB	Lin2	612 43942	1439 110579	3597	9979	20503	1.00 40.0	2.00 100	4.00	10.0	20.0
Trichloroethene	FB	Ave	3554 148006	7549 373057	15673	37744	76290	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	3595 200035	8599 513501	18923	49500	101332	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl methacrylate	FB	Lin2	1425 113848	4285 295272	9584	27158	55913	1.00 40.0	2.00 100	4.00	10.0	20.0
1,4-Dioxane	FB	Lin2	+++++ 8763	121 26309	551	1572	3745	+++++ 400	20.0 1000	40.0	100	200

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Chloroethyl vinyl ether	CBNZ d5	Lin1	+++++ 25112	271 81542	1032	4078	10519	+++++ 40.0	2.00 100	4.00	10.0	20.0
Methylcyclohexane	FB	Ave	4987 216724	10362 542746	22504	57182	114705	0.500 20.0	1.00 50.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	3443 188087	7590 495234	16575	44462	92332	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	FB	Lin2	1206 94225	3455 254431	7331	20205	44647	1.00 40.0	2.00 100	4.00	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	2436 156628	5689 424856	12733	35466	76148	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	1187 68908	3211 183903	6478	16340	34323	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl methacrylate	CBNZ d5	Lin2	1277 90875	2848 243357	6899	19601	42905	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene	CBNZ d5	Ave	7293 319520	15351 791978	31831	80137	162004	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	2292 128746	5643 342719	11892	30609	63160	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Hexanone	CBNZ d5	Ave	+++++ 57842	1878 167527	4728	12628	27527	+++++ 40.0	2.00 100	4.00	10.0	20.0
Dibromochloromethane	CBNZ d5	Lin2	1599 116238	4308 311890	9847	25771	54986	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butyl acetate	CBNZ d5	Lin2	812 76511	2466 213244	5736	16499	35744	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Lin2	825 68325	2546 189317	6023	15806	32728	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	2854 126777	5928 320525	12784	31681	65064	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1-Chlorohexane	CBNZ d5	Ave	2505 128045	5362 323092	12086	32113	64473	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	DCBd 4	Ave	2733 144835	6341 372630	13883	35302	73265	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	7067 322566	15362 819093	31423	78702	160351	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	3936 191998	8901 478603	18178	47738	96079	0.500 20.0	1.00 50.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	10466 493013	22651 1225135	48260	123961	248708	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromoform	CBNZ d5	Lin2	842 60060	2115 173338	4812	12644	28037	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Styrene	CBNZ d5	Ave	5886 324025	14139 827411	28142	75549	159858	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
o-Xylene	CBNZ d5	Ave	4869 219253	10443 542487	21731	55996	111308	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 68271	3163 180387	6712	16717	33956	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin2	+++++ 19810	102 59056	1041	3690	8921	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Lin2	313 25023	1042 69587	2200	5719	11867	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	12486 594974	27908 1464989	58743	151002	303119	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromobenzene	DCBd 4	Ave	2883 144793	6865 383819	13580	35593	70845	0.500 20.0	1.00 50.0	2.00	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	3288 158746	7189 405444	15472	40293	80081	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	3025 140222	6644 364468	14217	35763	70985	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	10047 464666	22547 1190599	46670	117309	236448	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	11521 513489	26330 1302398	53060	134393	260026	0.500 20.0	1.00 50.0	2.00	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	9891 428782	21625 1079116	44461	112143	219099	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	13468 547021	27893 1382762	57186	141831	276133	0.500 20.0	1.00 50.0	2.00	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	14201 602409	31342 1519592	63517	160907	308713	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzyl chloride	DCBd 4	Ave	2926 182465	6537 494588	14216	41249	88945	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	6478 294495	14309 757699	30185	75141	150881	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	13238 514901	28051 1291478	57197	140026	268623	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	7179 293797	16279 737845	31649	75388	148603	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	13352 572822	29501 1449724	60399	147728	292841	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	6020 275868	13687 711764	27776	68769	138234	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	11310 494137	24391 1256008	49672	129287	250774	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin2	111 17194	519 49583	1332	3533	7860	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1 Analy Batch No.: 302094

SDG No.:

Instrument ID: CHVOAMS01 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2020 11:15 Calibration End Date: 08/26/2020 13:55 Calibration ID: 18541

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,3,5-Trichlorobenzene	DCBd 4	Ave	5204 247603	11814 610594	25609	62164	125078	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	3053 161860	7074 407089	15271	39229	79276	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Naphthalene	DCBd 4	Ave	5330 210460	10259 516918	20387	49441	101825	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	1000 44168	2332 108540	4590	11822	22244	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	1882 104795	5026 259328	10569	26099	51004	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromofluoromethane	FB	Ave	3151 142222	6810 363801	14588	35205	72927	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	3095 149864	6945 373213	14310	36005	74654	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene-d8 (Surr)	CBNZ d5	Ave	10054 438955	20825 1113150	42695	111303	231242	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Bromofluorobenzene	DCBd 4	Ave	4300 172788	8347 454445	17035	42506	86469	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Lab Sample ID: ICV 600-302094/1010 Calibration Date: 08/26/2020 14:49

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C23909-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3336	0.3107		9.31	10.0	-6.9	50.0
Chloromethane	Ave	0.1586	0.1608	0.1000	10.1	10.0	1.4	30.0
Vinyl chloride	Ave	0.2129	0.2122		9.97	10.0	-0.3	30.0
Butadiene	Ave	0.2156	0.2047		9.50	10.0	-5.0	50.0
Bromomethane	Lin2		0.1442		9.59	10.0	-4.2	30.0
Chloroethane	Ave	0.1621	0.1738		10.7	10.0	7.2	30.0
Dichlorofluoromethane	Ave	0.5263	0.5157		9.80	10.0	-2.0	30.0
Acrolein	Lin2		0.0113		44.1	50.0	-11.7	50.0
Trichlorofluoromethane	Ave	0.7402	0.7161		9.67	10.0	-3.3	30.0
Acetonitrile	Lin2		0.0082		98.5	100	-1.5	30.0
Isopropyl alcohol	Lin2		0.0049		97.9	100	-2.1	50.0
Acetone	Ave	0.0305	0.0274		18.0	20.0	-10.2	50.0
Ethyl ether	Ave	0.1603	0.1542		9.62	10.0	-3.8	50.0
t-Butanol	Ave	0.0116	0.0119		103	100	3.2	30.0
1,1-Dichloroethene	Ave	0.2620	0.2571		9.82	10.0	-1.9	30.0
Acrylonitrile	Lin2		0.0213		93.4	100	-6.6	50.0
Iodomethane	Ave	0.3313	0.2838		8.57	10.0	-14.3	30.0
Methylene Chloride	Lin2		0.2433		8.42	10.0	-15.8	50.0
Methyl acetate	Ave	0.0650	0.0673		20.7	20.0	3.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3149	0.2931		9.31	10.0	-6.9	30.0
3-Chloro-1-propene	Ave	0.1553	0.1556		10.0	10.0	0.2	30.0
Carbon disulfide	Ave	0.7875	0.7312		9.29	10.0	-7.1	30.0
trans-1,2-Dichloroethene	Ave	0.2860	0.2749		9.61	10.0	-3.9	30.0
Methyl tert-butyl ether	Ave	0.6801	0.6421		9.44	10.0	-5.6	30.0
Propionitrile	Ave	0.0095	0.0099		104	100	3.9	30.0
1,1-Dichloroethane	Ave	0.5560	0.5175	0.1000	9.31	10.0	-6.9	30.0
Vinyl acetate	Ave	0.2129	0.2346		22.0	20.0	10.2	50.0
2-Chloro-1,3-butadiene	Ave	0.5062	0.5303		10.5	10.0	4.8	30.0
Hexane	Ave	0.3756	0.3658		9.74	10.0	-2.6	30.0
Isopropyl ether	Ave	0.8170	0.7603		9.31	10.0	-6.9	30.0
2-Butanone (MEK)	Lin2		0.0129		20.4	20.0	1.7	50.0
Methacrylonitrile	Lin2		0.0140		102	100	1.7	30.0
cis-1,2-Dichloroethene	Ave	0.2806	0.2727		9.72	10.0	-2.8	30.0
Ethyl acetate	Lin2		0.0839		17.8	20.0	-10.8	30.0
Chlorobromomethane	Ave	0.1112	0.1081		9.72	10.0	-2.8	30.0
Tert-butyl ethyl ether	Ave	0.8774	0.8476		9.66	10.0	-3.4	30.0
Isobutyl alcohol	Lin2		0.0070		220	250	-11.9	50.0
Chloroform	Ave	0.6197	0.5490		8.86	10.0	-11.4	30.0
2,2-Dichloropropane	Ave	0.7031	0.6226		8.86	10.0	-11.4	30.0
Tetrahydrofuran	Lin2		0.0224		19.1	20.0	-4.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Lab Sample ID: ICV 600-302094/1010 Calibration Date: 08/26/2020 14:49

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C23909-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3562	0.3275		9.20	10.0	-8.1	30.0
1,1,1-Trichloroethane	Ave	0.7227	0.6709		9.28	10.0	-7.2	30.0
1,1-Dichloropropene	Ave	0.4642	0.4524		9.75	10.0	-2.5	30.0
Cyclohexane	Ave	0.4489	0.4372		9.74	10.0	-2.6	50.0
Carbon tetrachloride	Ave	0.6617	0.6250		9.45	10.0	-5.6	30.0
Benzene	Ave	1.095	1.038		9.48	10.0	-5.2	30.0
Tert-amyl methyl ether	Ave	0.6876	0.6608		9.61	10.0	-3.9	30.0
Isooctane	Ave	0.7497	0.7652		10.2	10.0	2.1	30.0
Ethyl acrylate	Lin2		0.1939		9.38	10.0	-6.2	30.0
n-Heptane	Ave	0.3254	0.3256		10.0	10.0	0.0	30.0
Dibromomethane	Ave	0.1032	0.1015		9.84	10.0	-1.6	30.0
1,2-Dichloropropane	Ave	0.2264	0.2197		9.70	10.0	-3.0	30.0
2-Nitropropane	Lin2		0.0426		19.3	20.0	-3.6	30.0
Trichloroethene	Ave	0.3259	0.3132		9.61	10.0	-3.9	30.0
Bromodichloromethane	Ave	0.4055	0.3958		9.76	10.0	-2.4	30.0
Methyl methacrylate	Lin2		0.1177		19.7	20.0	-1.6	50.0
1,4-Dioxane	Lin2		0.0007		162	200	-19.0	50.0
2-Chloroethyl vinyl ether	Lin1		0.0511		17.5	20.0	-12.5	30.0
Methylcyclohexane	Ave	0.4724	0.4758		10.1	10.0	0.7	30.0
cis-1,3-Dichloropropene	Ave	0.8353	0.8110		9.71	10.0	-2.9	30.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.0967		20.2	20.0	0.8	50.0
trans-1,3-Dichloropropene	Ave	0.6636	0.6576		9.91	10.0	-0.9	30.0
1,1,2-Trichloroethane	Ave	0.3146	0.2980		9.47	10.0	-5.3	30.0
Ethyl methacrylate	Lin2		0.3828		9.45	10.0	-5.5	50.0
Toluene	Ave	1.532	1.449		9.46	10.0	-5.4	30.0
1,3-Dichloropropane	Ave	0.5819	0.5672		9.75	10.0	-2.5	30.0
2-Hexanone	Ave	0.1263	0.1324		21.0	20.0	4.8	50.0
Dibromochloromethane	Lin2		0.4801		8.99	10.0	-10.2	30.0
n-Butyl acetate	Lin2		0.3366		9.71	10.0	-2.9	30.0
1,2-Dibromoethane	Lin2		0.2846		8.82	10.0	-11.8	30.0
Tetrachloroethene	Ave	0.6078	0.5721		9.41	10.0	-5.9	30.0
1-Chlorohexane	Ave	0.5862	0.6119		10.4	10.0	4.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.6035	0.5595		9.27	10.0	-7.3	30.0
Chlorobenzene	Ave	1.525	1.420	0.3000	9.31	10.0	-6.9	30.0
Ethylbenzene	Ave	0.8938	0.8550		9.57	10.0	-4.3	30.0
m-Xylene & p-Xylene	Ave	2.320	2.185		9.42	10.0	-5.8	30.0
Bromoform	Lin2		0.2450	0.1000	8.94	10.0	-10.6	30.0
Styrene	Ave	1.442	1.435		9.95	10.0	-0.5	30.0
o-Xylene	Ave	1.048	1.001		9.55	10.0	-4.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3276	0.3058	0.3000	9.34	10.0	-6.6	30.0
trans-1,4-Dichloro-2-butene	Lin2		0.0657		8.37	10.0	-16.3	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Lab Sample ID: ICV 600-302094/1010 Calibration Date: 08/26/2020 14:49

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C23909-ICV.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Lin2		0.0946		8.79	10.0	-12.2	30.0
Isopropylbenzene	Ave	2.552	2.410		9.44	10.0	-5.6	30.0
Bromobenzene	Ave	0.6125	0.5621		9.18	10.0	-8.2	30.0
N-Propylbenzene	Ave	0.6773	0.6458		9.54	10.0	-4.7	30.0
2-Chlorotoluene	Ave	0.6111	0.5678		9.29	10.0	-7.1	30.0
4-Chlorotoluene	Ave	2.024	1.836		9.07	10.0	-9.3	30.0
1,3,5-Trimethylbenzene	Ave	2.285	2.070		9.06	10.0	-9.4	30.0
tert-Butylbenzene	Ave	1.912	1.760		9.21	10.0	-7.9	30.0
1,2,4-Trimethylbenzene	Ave	2.462	2.202		8.95	10.0	-10.5	30.0
sec-Butylbenzene	Ave	2.724	2.517		9.24	10.0	-7.6	30.0
Benzyl chloride	Ave	0.6985	0.6984		10.00	10.0	-0.0	30.0
1,3-Dichlorobenzene	Ave	1.294	1.188		9.18	10.0	-8.2	30.0
4-Isopropyltoluene	Ave	2.404	2.172		9.03	10.0	-9.7	30.0
1,4-Dichlorobenzene	Ave	1.341	1.224		9.13	10.0	-8.7	30.0
1,2,3-Trimethylbenzene	Ave	2.569	2.442		9.51	10.0	-4.9	30.0
1,2-Dichlorobenzene	Ave	1.204	1.101		9.15	10.0	-8.5	30.0
n-Butylbenzene	Ave	2.184	2.048		9.38	10.0	-6.2	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0642		9.04	10.0	-9.6	30.0
1,3,5-Trichlorobenzene	Ave	1.070	1.085		10.1	10.0	1.4	30.0
1,2,4-Trichlorobenzene	Ave	0.6667	0.6692		10.0	10.0	0.4	30.0
Naphthalene	Ave	0.9113	0.8950		9.82	10.0	-1.8	30.0
Hexachlorobutadiene	Ave	0.1976	0.1871		9.47	10.0	-5.3	30.0
1,2,3-Trichlorobenzene	Ave	0.4402	0.4471		10.2	10.0	1.6	30.0
Dibromofluoromethane	Ave	0.3044	0.2950		12.1	12.5	-3.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3091	0.2773		11.2	12.5	-10.3	30.0
Toluene-d8 (Surr)	Ave	2.116	2.171		12.8	12.5	2.6	30.0
4-Bromofluorobenzene	Ave	0.7626	0.8453		13.9	12.5	10.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Lab Sample ID: CCVIS 600-307647/2 Calibration Date: 11/23/2020 10:49

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C32801.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3336	0.1698		5.09	10.0	-49.1*	35.0
Chloromethane	Ave	0.1586	0.1217	0.1000	7.68	10.0	-23.2	35.0
Vinyl chloride	Ave	0.2129	0.2256		10.6	10.0	6.0	20.0
Butadiene	Ave	0.2156	0.2158		10.0	10.0	0.0	35.0
Bromomethane	Lin2		0.1058		7.08	10.0	-29.2	35.0
Chloroethane	Ave	0.1621	0.2103		13.0	10.0	29.7	35.0
Dichlorofluoromethane	Ave	0.5263	0.6725		12.8	10.0	27.8	35.0
Acrolein	Lin2		0.0091		35.8	50.0	-28.5	50.0
Trichlorofluoromethane	Ave	0.7402	0.7762		10.5	10.0	4.9	35.0
Acetonitrile	Lin2		0.0067		81.5	100	-18.5	50.0
Isopropyl alcohol	Lin2		0.0032		63.9	100	-36.1	50.0
Acetone	Ave	0.0305	0.0265		17.4	20.0	-13.1	50.0
Ethyl ether	Ave	0.1603	0.1357		8.47	10.0	-15.4	35.0
t-Butanol	Ave	0.0116	0.0084		72.2	100	-27.8	35.0
1,1-Dichloroethene	Ave	0.2620	0.2679		10.2	10.0	2.3	20.0
Acrylonitrile	Lin2		0.0182		80.0	100	-20.0	50.0
Iodomethane	Ave	0.3313	0.2163		6.53	10.0	-34.7	35.0
Methylene Chloride	Lin2		0.2660		9.43	10.0	-5.7	50.0
Methyl acetate	Ave	0.0650	0.0538		16.6	20.0	-17.1	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3149	0.3017		9.58	10.0	-4.2	35.0
3-Chloro-1-propene	Ave	0.1553	0.1792		11.5	10.0	15.4	35.0
Carbon disulfide	Ave	0.7875	0.6301		8.00	10.0	-20.0	35.0
trans-1,2-Dichloroethene	Ave	0.2860	0.3096		10.8	10.0	8.3	35.0
Methyl tert-butyl ether	Ave	0.6801	0.5315		7.82	10.0	-21.8	35.0
1,1-Dichloroethane	Ave	0.5560	0.5918	0.1000	10.6	10.0	6.4	35.0
Propionitrile	Ave	0.0095	0.0079		83.4	100	-16.6	35.0
Vinyl acetate	Ave	0.2129	0.2461		23.1	20.0	15.6	50.0
2-Chloro-1,3-butadiene	Ave	0.5062	0.4951		9.78	10.0	-2.2	35.0
Hexane	Ave	0.3756	0.3649		9.71	10.0	-2.9	35.0
Isopropyl ether	Ave	0.8170	0.7782		9.53	10.0	-4.7	35.0
2-Butanone (MEK)	Lin2		0.0097		15.7	20.0	-21.5	50.0
Methacrylonitrile	Lin2		0.0104		76.3	100	-23.7	35.0
cis-1,2-Dichloroethene	Ave	0.2806	0.2968		10.6	10.0	5.8	35.0
Ethyl acetate	Lin2		0.0584		12.6	20.0	-37.2*	35.0
Chlorobromomethane	Ave	0.1112	0.1113		10.0	10.0	0.1	35.0
Tert-butyl ethyl ether	Ave	0.8774	0.7374		8.41	10.0	-15.9	35.0
Chloroform	Ave	0.6197	0.5773		9.32	10.0	-6.8	20.0
Isobutyl alcohol	Lin2		0.0052		162	250	-35.2	50.0
2,2-Dichloropropane	Ave	0.7031	0.6970		9.91	10.0	-0.9	35.0
Tetrahydrofuran	Lin2		0.0164		14.1	20.0	-29.5	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Lab Sample ID: CCVIS 600-307647/2 Calibration Date: 11/23/2020 10:49

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C32801.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3562	0.2732		7.67	10.0	-23.3	35.0
1,1,1-Trichloroethane	Ave	0.7227	0.6874		9.51	10.0	-4.9	35.0
1,1-Dichloropropene	Ave	0.4642	0.4908		10.6	10.0	5.7	35.0
Cyclohexane	Ave	0.4489	0.4667		10.4	10.0	4.0	35.0
Carbon tetrachloride	Ave	0.6617	0.6111		9.24	10.0	-7.6	35.0
Benzene	Ave	1.095	1.155		10.6	10.0	5.5	35.0
Tert-amyl methyl ether	Ave	0.6876	0.5470		7.95	10.0	-20.5	35.0
Isooctane	Ave	0.7497	0.8148		10.9	10.0	8.7	35.0
Ethyl acrylate	Lin2		0.1606		7.81	10.0	-21.9	35.0
n-Heptane	Ave	0.3254	0.3453		10.6	10.0	6.1	35.0
Dibromomethane	Ave	0.1032	0.0861		8.35	10.0	-16.5	35.0
1,2-Dichloropropane	Ave	0.2264	0.2354		10.4	10.0	4.0	20.0
2-Nitropropane	Lin2		0.0305		13.9	20.0	-30.5	35.0
Trichloroethene	Ave	0.3259	0.3455		10.6	10.0	6.0	35.0
Bromodichloromethane	Ave	0.4055	0.3601		8.88	10.0	-11.2	35.0
Methyl methacrylate	Lin2		0.0853		14.4	20.0	-28.0	50.0
1,4-Dioxane	Lin2		0.0006		134	200	-33.0	50.0
Methylcyclohexane	Ave	0.4724	0.5211		11.0	10.0	10.3	35.0
cis-1,3-Dichloropropene	Ave	0.8353	0.8120		9.72	10.0	-2.8	35.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.0677		14.3	20.0	-28.7	50.0
trans-1,3-Dichloropropene	Ave	0.6636	0.5946		8.96	10.0	-10.4	35.0
1,1,2-Trichloroethane	Ave	0.3146	0.2912		9.26	10.0	-7.4	35.0
Ethyl methacrylate	Lin2		0.3159		7.84	10.0	-21.6	50.0
Toluene	Ave	1.532	1.652		10.8	10.0	7.8	20.0
1,3-Dichloropropane	Ave	0.5819	0.5343		9.18	10.0	-8.2	35.0
2-Hexanone	Ave	0.1263	0.0981		15.5	20.0	-22.3	50.0
Dibromochloromethane	Lin2		0.4333		8.13	10.0	-18.7	35.0
n-Butyl acetate	Lin2		0.2694		7.82	10.0	-21.8	35.0
1,2-Dibromoethane	Lin2		0.2627		8.16	10.0	-18.4	35.0
Tetrachloroethene	Ave	0.6078	0.6436		10.6	10.0	5.9	35.0
1-Chlorohexane	Ave	0.5862	0.6262		10.7	10.0	6.8	35.0
1,1,1,2-Tetrachloroethane	Ave	0.6035	0.5138		8.51	10.0	-14.9	35.0
Chlorobenzene	Ave	1.525	1.632	0.3000	10.7	10.0	7.0	35.0
Ethylbenzene	Ave	0.8938	0.997		11.2	10.0	11.6	20.0
m-Xylene & p-Xylene	Ave	2.320	2.470		10.7	10.0	6.5	35.0
Bromoform	Lin2		0.2157	0.1000	7.90	10.0	-21.0	35.0
Styrene	Ave	1.442	1.577		10.9	10.0	9.3	35.0
o-Xylene	Ave	1.048	1.161		11.1	10.0	10.7	35.0
1,1,2,2-Tetrachloroethane	Ave	0.3276	0.3673	0.3000	11.2	10.0	12.1	35.0
trans-1,4-Dichloro-2-butene	Lin2		0.0466		6.19	10.0	-38.1	50.0
1,2,3-Trichloropropane	Lin2		0.0751		7.02	10.0	-29.8	35.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Lab Sample ID: CCVIS 600-307647/2 Calibration Date: 11/23/2020 10:49

Instrument ID: CHVOAMS01 Calib Start Date: 08/26/2020 11:15

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 08/26/2020 13:55

Lab File ID: C32801.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	2.552	2.588		10.1	10.0	1.4	35.0
Bromobenzene	Ave	0.6125	0.5721		9.34	10.0	-6.6	35.0
N-Propylbenzene	Ave	0.6773	0.7541		11.1	10.0	11.3	35.0
2-Chlorotoluene	Ave	0.6111	0.6305		10.3	10.0	3.2	35.0
4-Chlorotoluene	Ave	2.024	1.964		9.70	10.0	-3.0	35.0
1,3,5-Trimethylbenzene	Ave	2.285	2.337		10.2	10.0	2.3	35.0
tert-Butylbenzene	Ave	1.912	1.985		10.4	10.0	3.8	35.0
1,2,4-Trimethylbenzene	Ave	2.462	2.506		10.2	10.0	1.8	35.0
sec-Butylbenzene	Ave	2.724	2.870		10.5	10.0	5.4	35.0
Benzyl chloride	Ave	0.6985	0.5064		7.25	10.0	-27.5	35.0
1,3-Dichlorobenzene	Ave	1.294	1.201		9.28	10.0	-7.2	35.0
4-Isopropyltoluene	Ave	2.404	2.526		10.5	10.0	5.1	35.0
1,4-Dichlorobenzene	Ave	1.341	1.150		8.57	10.0	-14.3	35.0
1,2,3-Trimethylbenzene	Ave	2.569	2.393		9.32	10.0	-6.8	35.0
1,2-Dichlorobenzene	Ave	1.204	1.017		8.45	10.0	-15.5	35.0
n-Butylbenzene	Ave	2.184	2.235		10.2	10.0	2.3	35.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0397		5.72	10.0	-42.8*	35.0
1,3,5-Trichlorobenzene	Ave	1.070	0.8381		7.83	10.0	-21.7	35.0
1,2,4-Trichlorobenzene	Ave	0.6667	0.4019		6.03	10.0	-39.7*	35.0
Naphthalene	Ave	0.9113	0.6058		6.65	10.0	-33.5	35.0
Hexachlorobutadiene	Ave	0.1976	0.1510		7.64	10.0	-23.6	35.0
1,2,3-Trichlorobenzene	Ave	0.4402	0.2772		6.30	10.0	-37.0*	35.0
2-Chloroethyl vinyl ether	Lin1				0.500	20.0	-100.0*	35.0
Dibromofluoromethane	Ave	0.3044	0.2921		9.60	10.0	-4.0	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3091	0.2407		7.79	10.0	-22.1	35.0
Toluene-d8 (Surr)	Ave	2.116	2.310		10.9	10.0	9.2	35.0
4-Bromofluorobenzene	Ave	0.7626	0.6584		8.63	10.0	-13.7	35.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-307647/6

Matrix: Water Lab File ID: C32805.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/23/2020 12:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307647 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	66		50-134
460-00-4	4-Bromofluorobenzene	105		67-139
1868-53-7	Dibromofluoromethane	87		62-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-307647/3

Matrix: Water Lab File ID: C32802.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/23/2020 11:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307647 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.01058		0.00100	0.000192
127-18-4	Tetrachloroethene	0.01089		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	68		50-134
460-00-4	4-Bromofluorobenzene	104		67-139
1868-53-7	Dibromofluoromethane	91		62-130
2037-26-5	Toluene-d8 (Surr)	106		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 600-307647/4

Matrix: Water Lab File ID: C32803.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/23/2020 11:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307647 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.01073		0.00100	0.000192
127-18-4	Tetrachloroethene	0.01093		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	69		50-134
460-00-4	4-Bromofluorobenzene	109		67-139
1868-53-7	Dibromofluoromethane	92		62-130
2037-26-5	Toluene-d8 (Surr)	109		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Client Sample ID: ARTESIA-SB40-111820 MS Lab Sample ID: 600-213963-2 MS

Matrix: Water Lab File ID: C32810.D

Analysis Method: 8260B Date Collected: 11/18/2020 16:10

Sample wt/vol: 20(mL) Date Analyzed: 11/23/2020 14:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307647 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.02354		0.00100	0.000192
127-18-4	Tetrachloroethene	0.01852		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	68		50-134
460-00-4	4-Bromofluorobenzene	111		67-139
1868-53-7	Dibromofluoromethane	92		62-130
2037-26-5	Toluene-d8 (Surr)	108		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Client Sample ID: ARTESIA-SB40-111820 MSD Lab Sample ID: 600-213963-2 MSD

Matrix: Water Lab File ID: C32811.D

Analysis Method: 8260B Date Collected: 11/18/2020 16:10

Sample wt/vol: 20(mL) Date Analyzed: 11/23/2020 15:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307647 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.02436		0.00100	0.000192
127-18-4	Tetrachloroethene	0.01863		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	69		50-134
460-00-4	4-Bromofluorobenzene	113		67-139
1868-53-7	Dibromofluoromethane	93		62-130
2037-26-5	Toluene-d8 (Surr)	107		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 08/26/2020 10:49

Analysis Batch Number: 302094 End Date: 08/26/2020 17:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-302094/1		08/26/2020 10:49	1	C23900.D	DB-VRX 60 0.25(mm)
IC 600-302094/2		08/26/2020 11:15	1	C23901.D	DB-VRX 60 0.25(mm)
IC 600-302094/3		08/26/2020 11:42	1	C23902.D	DB-VRX 60 0.25(mm)
IC 600-302094/4		08/26/2020 12:08	1	C23903.D	DB-VRX 60 0.25(mm)
IC 600-302094/5		08/26/2020 12:35	1	C23904.D	DB-VRX 60 0.25(mm)
ICIS 600-302094/6		08/26/2020 13:02	1	C23905.D	DB-VRX 60 0.25(mm)
IC 600-302094/7		08/26/2020 13:29	1	C23906.D	DB-VRX 60 0.25(mm)
IC 600-302094/8		08/26/2020 13:55	1	C23907.D	DB-VRX 60 0.25(mm)
ZZZZZ		08/26/2020 14:49	1		DB-VRX 60 0.25(mm)
ICV 600-302094/1010		08/26/2020 14:49	1	C23909-ICV.d	DB-VRX 60 0.25(mm)
ZZZZZ		08/26/2020 15:16	1		DB-VRX 60 0.25(mm)
ZZZZZ		08/26/2020 16:11	1		DB-VRX 60 0.25(mm)
ZZZZZ		08/26/2020 16:38	1		DB-VRX 60 0.25(mm)
ZZZZZ		08/26/2020 17:05	1		DB-VRX 60 0.25(mm)
ZZZZZ		08/26/2020 17:32	1		DB-VRX 60 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Instrument ID: CHVOAMS01 Start Date: 11/23/2020 10:23

Analysis Batch Number: 307647 End Date: 11/23/2020 22:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-307647/1		11/23/2020 10:23	1	C32800A.D	DB-VRX 60 0.25(mm)
CCVIS 600-307647/2		11/23/2020 10:49	1	C32801.D	DB-VRX 60 0.25(mm)
LCS 600-307647/3		11/23/2020 11:27	1	C32802.D	DB-VRX 60 0.25(mm)
LCSD 600-307647/4		11/23/2020 11:52	1	C32803.D	DB-VRX 60 0.25(mm)
MB 600-307647/6		11/23/2020 12:43	1	C32805.D	DB-VRX 60 0.25(mm)
600-213963-1	ARTESIA-TB01-111820	11/23/2020 13:09	1	C32806.D	DB-VRX 60 0.25(mm)
600-213963-2	ARTESIA-SB40-111820	11/23/2020 13:34	1	C32807.D	DB-VRX 60 0.25(mm)
600-213963-3	ARTESIA-SB39-111920	11/23/2020 14:00	1	C32808.D	DB-VRX 60 0.25(mm)
600-213963-4	ARTESIA-MB39-111920	11/23/2020 14:25	1	C32809.D	DB-VRX 60 0.25(mm)
600-213963-2 MS	ARTESIA-SB40-111820 MS	11/23/2020 14:51	1	C32810.D	DB-VRX 60 0.25(mm)
600-213963-2 MSD	ARTESIA-SB40-111820 MSD	11/23/2020 15:16	1	C32811.D	DB-VRX 60 0.25(mm)
600-213963-5	ARTESIA-SB41-111920	11/23/2020 15:42	1	C32812.D	DB-VRX 60 0.25(mm)
600-213963-6	ARTESIA-SB42-111920	11/23/2020 16:07	1	C32813.D	DB-VRX 60 0.25(mm)
ZZZZZ		11/23/2020 16:32	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/23/2020 16:58	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/23/2020 17:23	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/23/2020 17:49	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/23/2020 18:14	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/23/2020 18:39	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/23/2020 19:04	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/23/2020 19:30	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/23/2020 19:55	5		DB-VRX 60 0.25(mm)
ZZZZZ		11/23/2020 20:20	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/23/2020 20:46	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/23/2020 21:11	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/23/2020 21:36	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/23/2020 22:02	1		DB-VRX 60 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Batch Number: 302094 Batch Start Date: 08/26/20 10:49 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFB 00317	VOAIS50PPM 00285	VOALCSGASPT 00396	VOALCSPT2T 00094
BFB 600-302094/1		8260B		20 mL	20 mL	2 uL			
IC 600-302094/2		8260B		20 mL	20 mL		5 uL		
IC 600-302094/3		8260B		20 mL	20 mL		5 uL		
IC 600-302094/4		8260B		20 mL	20 mL		5 uL		
IC 600-302094/5		8260B		20 mL	20 mL		5 uL		
ICIS 600-302094/6		8260B		20 mL	20 mL		5 uL		
IC 600-302094/7		8260B		20 mL	20 mL		5 uL		
IC 600-302094/8		8260B		20 mL	20 mL		5 uL		
ICV 600-302094/1010		8260B		20 mL	20 mL		5 uL	4 uL	4 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOASS50PPM 00323	VOASTDGASPT 00396	VOASTDst 00143			
BFB 600-302094/1		8260B							
IC 600-302094/2		8260B			0.2 uL	0.2 uL			
IC 600-302094/3		8260B			0.4 uL	0.4 uL			
IC 600-302094/4		8260B			0.8 uL	0.8 uL			
IC 600-302094/5		8260B			2 uL	2 uL			
ICIS 600-302094/6		8260B			4 uL	4 uL			
IC 600-302094/7		8260B			8 uL	8 uL			
IC 600-302094/8		8260B			20 uL	20 uL			
ICV 600-302094/1010		8260B		5 uL					

Batch Notes	
pH Indicator ID	HC904495

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Batch Number: 307647 Batch Start Date: 11/23/20 10:23 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFB 00323	VOAIS50PPM 00292	VOALCSGASPT 00408
BFB 600-307647/1		8260B		20 mL	20 mL		2 uL		
CCVIS 600-307647/2		8260B		20 mL	20 mL			5 uL	
LCS 600-307647/3		8260B		20 mL	20 mL			5 uL	4 uL
LCSD 600-307647/4		8260B		20 mL	20 mL			5 uL	4 uL
MB 600-307647/6		8260B		20 mL	20 mL			5 uL	
600-213963-B-1	ARTESIA-TB01-111820	8260B	T	20 mL	20 mL	7 SU		5 uL	
600-213963-B-2	ARTESIA-SB40-111820	8260B	T	20 mL	20 mL	7 SU		5 uL	
600-213963-B-3	ARTESIA-SB39-111920	8260B	T	20 mL	20 mL	7 SU		5 uL	
600-213963-B-4	ARTESIA-MB39-111920	8260B	T	20 mL	20 mL	7 SU		5 uL	
600-213963-B-2 MS	ARTESIA-SB40-111820	8260B	T	20 mL	20 mL	7 SU		5 uL	4 uL
600-213963-B-2 MSD	ARTESIA-SB40-111820	8260B	T	20 mL	20 mL	7 SU		5 uL	4 uL
600-213963-B-5	ARTESIA-SB41-111920	8260B	T	20 mL	20 mL	7 SU		5 uL	
600-213963-B-6	ARTESIA-SB42-111920	8260B	T	20 mL	20 mL	7 SU		5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00100	VOASS50PPM 00330	VOASTDGASPT 00408	VOASTDst 00149		
BFB 600-307647/1		8260B							
CCVIS 600-307647/2		8260B				4 uL	4 uL		
LCS 600-307647/3		8260B		4 uL	5 uL				
LCSD 600-307647/4		8260B		4 uL	5 uL				
MB 600-307647/6		8260B			5 uL				
600-213963-B-1	ARTESIA-TB01-111820	8260B	T		5 uL				
600-213963-B-2	ARTESIA-SB40-111820	8260B	T		5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213963-1

SDG No.:

Batch Number: 307647 Batch Start Date: 11/23/20 10:23 Batch Analyst: Xie, Yali

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSPT2T 00100	VOASS50PPM 00330	VOASTDGASPT 00408	VOASTDst 00149		
600-213963-B-3	ARTESIA-SB39-111920	8260B	T		5 uL				
600-213963-B-4	ARTESIA-MB39-111920	8260B	T		5 uL				
600-213963-B-2 MS	ARTESIA-SB40-111820	8260B	T	4 uL	5 uL				
600-213963-B-2 MSD	ARTESIA-SB40-111820	8260B	T	4 uL	5 uL				
600-213963-B-5	ARTESIA-SB41-111920	8260B	T		5 uL				
600-213963-B-6	ARTESIA-SB42-111920	8260B	T		5 uL				

Batch Notes	
pH Indicator ID	HC905612

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Released to Imaging: 6/9/2021 9:44:58 AM

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: A Fursberg	Lab PM: McDaniel, Bethany A	Carrier Tracking No(s):	COC No: 600-79215-21371.2
Client Contact: John Ynfante	Phone: 505 918 1800	E-Mail: Bethany.McDaniel@Eurofinset.com		Page: Page __ of __
Company: Jacobs Engineering Group, Inc.				Job #:
Address: 14701 St. Mary's Lane Suite 300	Due Date Requested:			
City: Houston	TAT Requested (days): 5 day RUSH			
State, Zip: TX, 77079				
Phone:	PO #: 148018479			
Email: John.Ynfante@jacobs.com	WO #: D3151100.C.CS.TPE.AR.20-01-02			
Project Name: Dowell - Artesia DPT Downgradient GW Sam	Project #: 60004334			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL - 8260-11DCE and PCE	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
ARTESIA-TB01-111820	11/18/20	1140	G	Water	N	N	X	2	TRIP BLANK
ARTESIA-SB40-111820	11/18/20	1610	G	Water	N	Y	X	8	MS/MSD
ARTESIA-SB39-111920	11/19/20	0900	G	Water	N	N	X	3	
ARTESIA-MB39-111920	11/19/20	0910	G	Water	N	N	X	3	
ARTESIA-SB41-111920	11/19/20	1145	G	Water	N	N	X	2	
ARTESIA-SB42-111920	11/19/20	1355	G	Water	N	N	X	3	
ARTESIA-SB45-111920	11/19/20	1600	G	Water	N	N	X	3	HOLD FOR LATER ANALYSIS

600-213963 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level 3

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		Jacobs 11/19/20 1700			11/20/20 913	EA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

'20 NOV 20 9:13

Eurofins TestAmerica Houston

Loc: 600
213963

eurofins | Environment Testing TestAmerica

Sample Receipt Checklist

Date/Time Received: 11/20/20 9:13

JOB NUMBER: _____ CLIENT: Jacobs

UNPACKED BY: YR CARRIER/DRIVER: FedEx

Custody Seal Present: ☒YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
8579	Y / N	Y / N	5.7	681	+0.1	5.8
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N			YR	11/20/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☒YES ☐NO ☐NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☒YES	☐ NO

COMMENTS:

YR 11/20/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: Jacobs Engineering Group, Inc. Job Number: 600-213963-1

Login Number: 213963 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Released to Imaging: 6/9/2021 9:44:58 AM

eurofins | Environment Testing America

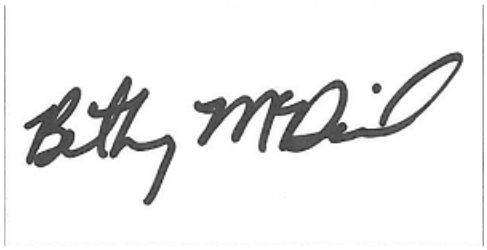
ANALYTICAL REPORT

Job Number: 600-213972-1

Job Description: Dowell - Artesia DPT Downgradient GW

For:
Jacobs Engineering Group, Inc.
3721 Rutledge Rd NE
Suite B-1
Albuquerque, NM 87109

Attention: Aleeca Forsberg



Approved for release.
Bethany A McDaniel
Senior Project Manager
11/27/2020 10:55 AM

Bethany A McDaniel, Senior Project Manager
6310 Rothway Street, Houston, TX, 77040
(713)358-2005
Bethany.McDaniel@Eurofinset.com
11/27/2020

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins TestAmerica, Houston
6310 Rothway Street, Houston, TX 77040
Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com

Table of Contents

Cover Title Page 1
Data Summaries 4
Definitions 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Default Detection Limits 9
Surrogate Summary 10
QC Sample Results 11
QC Association 12
Chronicle 13
Certification Summary 14
Method Summary 15
Sample Summary 16
Manual Integration Summary 17
Reagent Traceability 20
Organic Sample Data 27
GC/MS VOA 27
Method 8260B Low Level 27
Method 8260B Low Level QC Summary 28
Method 8260B Low Level Sample Data 36
Standards Data 40
Method 8260B Low Level ICAL Data 40
Method 8260B Low Level CCAL Data 52
Raw QC Data 58
Method 8260B Low Level Blank Data 58

Table of Contents

Method 8260B Low Level LCS/LCSD Data 59
Method 8260B Low Level Run Logs 61
Method 8260B Low Level Prep Data 63
Shipping and Receiving Documents 66
Client Chain of Custody 67
Sample Receipt Checklist 69

Definitions/Glossary

Client: Jacobs Engineering Group, Inc.
Job ID: 600-213972-1
Project/Site: Dowell - Artesia DPT Downgradient GW

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Job Narrative
600-213972-1

Comments
No additional comments.

Receipt
The samples were received on 11/21/2020 11:15 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Jacobs Engineering Group, Inc.
Job ID: 600-213972-1
Project/Site: Dowell - Artesia DPT Downgradient GW

Client Sample ID: ARTESIA-TB02-112020
Lab Sample ID: 600-213972-1

No Detections.

Client Sample ID: ARTESIA-SB38-112020
Lab Sample ID: 600-213972-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00251		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00134		0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-SB47-112020
Lab Sample ID: 600-213972-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00131		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.000676	J	0.00100	0.000333	mg/L	1		8260B	Total/NA

Client Sample ID: ARTESIA-SB46-112020
Lab Sample ID: 600-213972-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00510		0.00100	0.000192	mg/L	1		8260B	Total/NA
Tetrachloroethene	0.00455		0.00100	0.000333	mg/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Job ID: 600-213972-1
Project/Site: Dowell - Artesia DPT Downgradient GW

Client Sample ID: ARTESIA-TB02-112020
Lab Sample ID: 600-213972-1
Date Collected: 11/20/20 08:00
Matrix: Water
Date Received: 11/21/20 11:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			11/24/20 16:43	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			11/24/20 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*50 - 134*		*11/24/20 16:43*	*1*
4-Bromofluorobenzene	*91*		*67 - 139*		*11/24/20 16:43*	*1*
Dibromofluoromethane	*95*		*62 - 130*		*11/24/20 16:43*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*11/24/20 16:43*	*1*

Client Sample ID: ARTESIA-SB38-112020
Lab Sample ID: 600-213972-2
Date Collected: 11/20/20 08:05
Matrix: Water
Date Received: 11/21/20 11:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.00251**		0.00100	0.000192	mg/L			11/24/20 22:58	1
Tetrachloroethene	**0.00134**		0.00100	0.000333	mg/L			11/24/20 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*50 - 134*		*11/24/20 22:58*	*1*
4-Bromofluorobenzene	*89*		*67 - 139*		*11/24/20 22:58*	*1*
Dibromofluoromethane	*94*		*62 - 130*		*11/24/20 22:58*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*11/24/20 22:58*	*1*

Client Sample ID: ARTESIA-SB47-112020
Lab Sample ID: 600-213972-3
Date Collected: 11/20/20 10:00
Matrix: Water
Date Received: 11/21/20 11:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.00131**		0.00100	0.000192	mg/L			11/24/20 23:21	1
Tetrachloroethene	**0.000676**	**J**	0.00100	0.000333	mg/L			11/24/20 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*50 - 134*		*11/24/20 23:21*	*1*
4-Bromofluorobenzene	*89*		*67 - 139*		*11/24/20 23:21*	*1*
Dibromofluoromethane	*93*		*62 - 130*		*11/24/20 23:21*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*11/24/20 23:21*	*1*

Client Sample ID: ARTESIA-SB46-112020
Lab Sample ID: 600-213972-4
Date Collected: 11/20/20 13:15
Matrix: Water
Date Received: 11/21/20 11:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.00510**		0.00100	0.000192	mg/L			11/24/20 23:44	1
Tetrachloroethene	**0.00455**		0.00100	0.000333	mg/L			11/24/20 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*50 - 134*		*11/24/20 23:44*	*1*
4-Bromofluorobenzene	*94*		*67 - 139*		*11/24/20 23:44*	*1*
Dibromofluoromethane	*94*		*62 - 130*		*11/24/20 23:44*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Job ID: 600-213972-1
Project/Site: Dowell - Artesia DPT Downgradient GW

Client Sample ID: ARTESIA-SB46-112020
Lab Sample ID: 600-213972-4
Date Collected: 11/20/20 13:15
Matrix: Water
Date Received: 11/21/20 11:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		11/24/20 23:44	1

Default Detection Limits

Client: Jacobs Engineering Group, Inc.

Job ID: 600-213972-1

Project/Site: Dowell - Artesia DPT Downgradient GW

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units
1,1-Dichloroethene	0.00100	0.000192	mg/L
Tetrachloroethene	0.00100	0.000333	mg/L

Surrogate Summary

Client: Jacobs Engineering Group, Inc.
Job ID: 600-213972-1
Project/Site: Dowell - Artesia DPT Downgradient GW

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(50-134)	(67-139)	(62-130)	(70-130)
600-213972-1	ARTESIA-TB02-112020	83	91	95	90
600-213972-2	ARTESIA-SB38-112020	83	89	94	92
600-213972-3	ARTESIA-SB47-112020	84	89	93	90
600-213972-4	ARTESIA-SB46-112020	81	94	94	92
LCS 600-307714/3	Lab Control Sample	78	85	95	95
LCSD 600-307714/4	Lab Control Sample Dup	80	87	96	96
MB 600-307714/6	Method Blank	80	90	94	89

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Job ID: 600-213972-1
Project/Site: Dowell - Artesia DPT Downgradient GW

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-307714/6
Matrix: Water
Analysis Batch: 307714

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.000192	U	0.00100	0.000192	mg/L			11/24/20 15:09	1
Tetrachloroethene	0.000333	U	0.00100	0.000333	mg/L			11/24/20 15:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*50 - 134*		*11/24/20 15:09*	*1*
4-Bromofluorobenzene	*90*		*67 - 139*		*11/24/20 15:09*	*1*
Dibromofluoromethane	*94*		*62 - 130*		*11/24/20 15:09*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*11/24/20 15:09*	*1*

Lab Sample ID: LCS 600-307714/3
Matrix: Water
Analysis Batch: 307714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethene			0.0100	0.01018		mg/L		102	58 - 148		
Tetrachloroethene			0.0100	0.009883		mg/L		99	47 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*78*		*50 - 134*
4-Bromofluorobenzene	*85*		*67 - 139*
Dibromofluoromethane	*95*		*62 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 600-307714/4
Matrix: Water
Analysis Batch: 307714

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene			0.0100	0.009431		mg/L		94	58 - 148	8	20
Tetrachloroethene			0.0100	0.009430		mg/L		94	47 - 150	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*50 - 134*
4-Bromofluorobenzene	*87*		*67 - 139*
Dibromofluoromethane	*96*		*62 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

QC Association Summary

Client: Jacobs Engineering Group, Inc.

Job ID: 600-213972-1

Project/Site: Dowell - Artesia DPT Downgradient GW

GC/MS VOA

Analysis Batch: 307714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-213972-1	ARTESIA-TB02-112020	Total/NA	Water	8260B	
600-213972-2	ARTESIA-SB38-112020	Total/NA	Water	8260B	
600-213972-3	ARTESIA-SB47-112020	Total/NA	Water	8260B	
600-213972-4	ARTESIA-SB46-112020	Total/NA	Water	8260B	
MB 600-307714/6	Method Blank	Total/NA	Water	8260B	
LCS 600-307714/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-307714/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Job ID: 600-213972-1
Project/Site: Dowell - Artesia DPT Downgradient GW

Client Sample ID: ARTESIA-TB02-112020
Lab Sample ID: 600-213972-1
Date Collected: 11/20/20 08:00
Matrix: Water
Date Received: 11/21/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	307714	11/24/20 16:43	KLV	TAL HOU

Client Sample ID: ARTESIA-SB38-112020
Lab Sample ID: 600-213972-2
Date Collected: 11/20/20 08:05
Matrix: Water
Date Received: 11/21/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	307714	11/24/20 22:58	KLV	TAL HOU

Client Sample ID: ARTESIA-SB47-112020
Lab Sample ID: 600-213972-3
Date Collected: 11/20/20 10:00
Matrix: Water
Date Received: 11/21/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	307714	11/24/20 23:21	KLV	TAL HOU

Client Sample ID: ARTESIA-SB46-112020
Lab Sample ID: 600-213972-4
Date Collected: 11/20/20 13:15
Matrix: Water
Date Received: 11/21/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	307714	11/24/20 23:44	KLV	TAL HOU

Laboratory References:
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: Jacobs Engineering Group, Inc.
Job ID: 600-213972-1
Project/Site: Dowell - Artesia DPT Downgradient GW

Laboratory: Eurofins TestAmerica, Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	20-052-0	08-04-21
Louisiana	NELAP	01967	06-30-21
Oklahoma	State	2020-033	08-31-21
Texas	NELAP	T104704223-20-28	11-01-21
USDA	US Federal Programs	P330-18-00130	04-30-21

Method Summary

Client: Jacobs Engineering Group, Inc.

Job ID: 600-213972-1

Project/Site: Dowell - Artesia DPT Downgradient GW

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
5030B	Purge and Trap	SW846	TAL HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Jacobs Engineering Group, Inc.

Job ID: 600-213972-1

Project/Site: Dowell - Artesia DPT Downgradient GW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-213972-1	ARTESIA-TB02-112020	Water	11/20/20 08:00	11/21/20 11:15	
600-213972-2	ARTESIA-SB38-112020	Water	11/20/20 08:05	11/21/20 11:15	
600-213972-3	ARTESIA-SB47-112020	Water	11/20/20 10:00	11/21/20 11:15	
600-213972-4	ARTESIA-SB46-112020	Water	11/20/20 13:15	11/21/20 11:15	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-213972-1

SDG No.:

Instrument ID: CHVOAMS07 Analysis Batch Number: 304732

Lab Sample ID: IC 600-304732/2 Client Sample ID:

Date Analyzed: 10/03/20 07:04 Lab File ID: a27701.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	5.80	Baseline	shenw	10/03/20 09:53
t-Butanol	6.17	Baseline	shenw	10/03/20 07:28
Propionitrile	7.07	Baseline	shenw	10/03/20 07:28
Vinyl acetate	7.13	Baseline	shenw	10/03/20 07:28
Tetrahydrofuran	7.92	Baseline	shenw	10/03/20 07:28
2-Nitropropane	9.05	Baseline	shenw	10/03/20 07:29
1,4-Dioxane	9.20	Baseline	shenw	10/03/20 07:29
2-Chloroethyl vinyl ether	9.38	Baseline	shenw	10/03/20 07:31
trans-1,4-Dichloro-2-butene	12.72	Baseline	shenw	10/03/20 07:30
1,2-Dibromo-3-Chloropropane	15.18	Baseline	shenw	10/03/20 07:30
1,2,3-Trichlorobenzene	17.22	Baseline	shenw	10/03/20 07:30

Lab Sample ID: IC 600-304732/3 Client Sample ID:

Date Analyzed: 10/03/20 07:27 Lab File ID: a27702.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	5.80	Baseline	shenw	10/03/20 09:53
Vinyl acetate	7.14	Peak assignment corrected	shenw	10/03/20 07:52
1,4-Dioxane	9.19	Baseline	shenw	10/03/20 07:53
2-Chloroethyl vinyl ether	9.38	Baseline	shenw	10/03/20 07:53
2-Hexanone	10.46	Baseline	shenw	10/03/20 07:53
trans-1,4-Dichloro-2-butene	12.74	Baseline	shenw	10/03/20 07:53

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-213972-1

SDG No.:

Instrument ID: CHVOAMS07 Analysis Batch Number: 304732

Lab Sample ID: IC 600-304732/4 Client Sample ID:

Date Analyzed: 10/03/20 07:52 Lab File ID: a27703.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Heptane	8.90	Peak assignment corrected	shenw	10/03/20 08:20
2-Chloroethyl vinyl ether	9.38	Baseline	shenw	10/03/20 08:20
trans-1,4-Dichloro-2-butene	12.74	Baseline	shenw	10/03/20 08:20

Lab Sample ID: IC 600-304732/5 Client Sample ID:

Date Analyzed: 10/03/20 08:16 Lab File ID: a27704.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Heptane	8.90	Peak assignment corrected	shenw	10/03/20 09:01

Lab Sample ID: IC 600-304732/7 Client Sample ID:

Date Analyzed: 10/03/20 09:02 Lab File ID: a27706.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.69	Baseline	shenw	10/03/20 09:51
Chlorobenzene-d5	11.73	Peak assignment corrected	shenw	10/03/20 09:24

Lab Sample ID: IC 600-304732/8 Client Sample ID:

Date Analyzed: 10/03/20 09:25 Lab File ID: a27707.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	7.69	Baseline	shenw	10/03/20 09:52
Chlorobenzene-d5	11.73	Peak assignment corrected	shenw	10/03/20 09:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Housto Job No.: 600-213972-1

SDG No.:

Instrument ID: CHVOAMS07 Analysis Batch Number: 304732

Lab Sample ID: ICV 600-304732/11 Client Sample ID:

Date Analyzed: 10/03/20 11:02 Lab File ID: a27711.d GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	5.80	Baseline	shenw	10/03/20 11:33
Vinyl acetate	7.12	Baseline	shenw	10/03/20 11:33
2-Nitropropane	9.04	Baseline	shenw	10/03/20 11:34

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
BFB_00319							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21		Restek, Lot A0120567		(Purchased Reagent)		BFB	2000 ug/mL
BFB_00323							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							2,3-dichlorobutane	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					VOASBFB_00014	50 uL	BFB	25 ug/mL
.VOASBFB_00014	07/31/21		Restek, Lot A0120567		(Purchased Reagent)		BFB	2000 ug/mL
EOxideStd_00188	10/06/20	09/22/20	Methanol, Lot V081320A	1 mL	MVETYLOIDE_00012	10 uL	Ethylene oxide	500 ug/mL
.MVETYLOIDE_00012	10/31/21		Sigma-Aldrich, Lot LRAC0312		(Purchased Reagent)		Ethylene oxide	50000 ug/mL
VOAIS50PPM_00288	10/06/20	09/22/20	Methanol, Lot V081320A	1 mL	VOA3IS_00043	20 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VOA3IS_00043	04/30/25		Restek, Lot A0160049		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VOAIS50PPM_00292	12/01/20	11/17/20	Methanol, Lot V081320A	1 mL	VOA3IS_00043	20 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VOA3IS_00043	04/30/25		Restek, Lot A0160049		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VOALCSPT2_00176	10/06/20	09/22/20	Methanol, Lot V081320A	1 mL	VOALMegMi2017_00006	20 uL	1,1-Dichloroethene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00006	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1-Dichloroethene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOALCSPT2_00180	12/01/20	11/17/20	Methanol, Lot V081320A	1 mL	VOALMegMi2017_00006	20 uL	1,1-Dichloroethene	50 ug/mL
							Tetrachloroethene	50 ug/mL
.VOALMegMi2017_00006	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1-Dichloroethene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
VOASS50PPM_00326	10/06/20	09/22/20	Methanol, Lot V081320A	1 mL	VOARSS_00025	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00025	01/31/25		Restek, Lot A0156891		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASS50PPM_00330	12/01/20	11/17/20	Methanol, Lot V081320A	1 mL	VOARSS_00025	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00025	01/31/25		Restek, Lot A0156891		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASTDGASPT_00401	10/06/20	09/29/20	Methanol, Lot V081320A	1 mL	VOARGAS_00022	20 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VOARGAS_00022	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VOASTDPT2_00176	10/06/20	09/22/20	Methanol, Lot V081320A	1 mL	VOAMegMix2017_00010	20 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VOAR2CEVE_00020	40 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VOARAcroleinS_00009	12.5 uL	Acrolein	250 ug/mL
					VOARADD4COM_00011	20 uL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VOARADDCOM_00021	20 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
					VOARCYCHONE_00037	100 uL	Cyclohexanone	2500 ug/mL
					VOARKETON_00009	8 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VOARPOLADD_00018	20 uL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					VOARSS_00025	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					VOARVASTD_00009	20 uL	Vinyl acetate	100 ug/mL
.VOAMegMix2017_00010	10/31/22		Restek, Lot A0159680		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.VOAR2CEVE_00020	03/31/23		Restek, Lot A0158872		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcroleinS_00009	07/31/21		Restek, Lot A0156859		(Purchased Reagent)		Acrolein	20000 ug/mL
.VOARADD4COM_00011	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VOARADDCOM_00021	05/31/21		Restek, Lot A0154734		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
.VOARCYCHONE_00037	02/28/23		Restek, Lot A0158129		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.VOARKETON_00009	12/31/22		RESTEK, Lot A0156095		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARPOLADD_00018	03/31/22		Restek, Lot A0158947		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARSS_00025	01/31/25		Restek, Lot A0156891		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.VOARVASTD_00009	07/31/21		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VOASTDPT2_00180	12/01/20	11/17/20	Methanol, Lot V081320A	1 mL	VOAMegMix2017_00010	20 uL	1,1-Dichloroethene	50 ug/mL
							Tetrachloroethene	50 ug/mL
					VOARSS_00025	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene-d8 (Surr)	50 ug/mL
.VOAMegMix2017_00010	10/31/22		Restek, Lot A0159680		(Purchased Reagent)		1,1-Dichloroethene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
.VOARSS_00025	01/31/25		Restek, Lot A0156891		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL

Method 8260B Low Level

Volatile Organic Compounds (GC/MS) by Method 8260B Low Level

Released to Imaging: 6/9/2021 9:44:58 AM

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-VRX 60 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ARTESIA-TB02-112020	600-213972-1	95	83	90	91
ARTESIA-SB38-112020	600-213972-2	94	83	92	89
ARTESIA-SB47-112020	600-213972-3	93	84	90	89
ARTESIA-SB46-112020	600-213972-4	94	81	92	94
	MB 600-307714/6	94	80	89	90
	LCS 600-307714/3	95	78	95	85
	LCSD 600-307714/4	96	80	96	87

	QC LIMITS
DBFM = Dibromofluoromethane	62-130
DCA = 1,2-Dichloroethane-d4 (Surr)	50-134
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	67-139

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Matrix: Water Level: Low Lab File ID: a32902.d

Lab ID: LCS 600-307714/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	0.0100	0.01018	102	58-148	
Tetrachloroethene	0.0100	0.009883	99	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Matrix: Water Level: Low Lab File ID: a32903.d

Lab ID: LCSD 600-307714/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethene	0.0100	0.009431	94	8	20	58-148	
Tetrachloroethene	0.0100	0.009430	94	5	20	47-150	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Lab File ID: a32905.d Lab Sample ID: MB 600-307714/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHVOAMS07 Date Analyzed: 11/24/2020 15:09

GC Column: DB-VRX 60 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-307714/3	a32902.d	11/24/2020 13:58
	LCSD 600-307714/4	a32903.d	11/24/2020 14:22
ARTESIA-TB02-112020	600-213972-1	a32909.d	11/24/2020 16:43
ARTESIA-SB38-112020	600-213972-2	a32925.d	11/24/2020 22:58
ARTESIA-SB47-112020	600-213972-3	a32926.d	11/24/2020 23:21
ARTESIA-SB46-112020	600-213972-4	a32927.d	11/24/2020 23:44

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Lab File ID: a27700.d BFB Injection Date: 10/03/2020

Instrument ID: CHVOAMS07 BFB Injection Time: 06:35

Analysis Batch No.: 304732

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.7	
75	30.0 - 60.0 % of mass 95	51.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	93.3	
175	5.0 - 9.0 % of mass 174	7.1	(7.6) 1
176	95.0 - 101.0 % of mass 174	91.2	(97.7) 1
177	5.0 - 9.0 % of mass 176	6.0	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 600-304732/2	a27701.d	10/03/2020	7:04
	IC 600-304732/3	a27702.d	10/03/2020	7:27
	IC 600-304732/4	a27703.d	10/03/2020	7:52
	IC 600-304732/5	a27704.d	10/03/2020	8:16
	ICIS 600-304732/6	a27705.d	10/03/2020	8:39
	IC 600-304732/7	a27706.d	10/03/2020	9:02
	IC 600-304732/8	a27707.d	10/03/2020	9:25
	ICV 600-304732/11	a27711.d	10/03/2020	11:02

Released to Imaging: 6/9/2021 9:44:58 AM

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Lab File ID: a32900.d BFB Injection Date: 11/24/2020

Instrument ID: CHVOAMS07 BFB Injection Time: 12:05

Analysis Batch No.: 307714

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.6	
75	30.0 - 60.0 % of mass 95	46.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.2	(0.2) 1
174	Greater than 50% of mass 95	89.2	
175	5.0 - 9.0 % of mass 174	6.8	(7.6) 1
176	95.0 - 101.0 % of mass 174	86.4	(96.9) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 600-307714/2	a32901A.d	11/24/2020	13:35
	LCS 600-307714/3	a32902.d	11/24/2020	13:58
	LCSD 600-307714/4	a32903.d	11/24/2020	14:22
	MB 600-307714/6	a32905.d	11/24/2020	15:09
ARTESIA-TB02-112020	600-213972-1	a32909.d	11/24/2020	16:43
ARTESIA-SB38-112020	600-213972-2	a32925.d	11/24/2020	22:58
ARTESIA-SB47-112020	600-213972-3	a32926.d	11/24/2020	23:21
ARTESIA-SB46-112020	600-213972-4	a32927.d	11/24/2020	23:44

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Sample No.: ICIS 600-304732/6 Date Analyzed: 10/03/2020 08:39

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): a27705.d Heated Purge: (Y/N) N

Calibration ID: 18766

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		414607	8.70	151582	11.73	146245	14.31
UPPER LIMIT		829214	9.20	303164	12.23	292490	14.81
LOWER LIMIT		207304	8.20	75791	11.23	73123	13.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 600-304732/11		435310	8.70	161952	11.73	154073	14.31
CCVIS 600-307714/2		358024	8.70	127297	11.73	132554	14.31

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Sample No.: CCVIS 600-307714/2 Date Analyzed: 11/24/2020 13:35

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): a32901A.d Heated Purge: (Y/N) N

Calibration ID: 18766

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		358024	8.70	127297	11.73	132554	14.31
UPPER LIMIT		716048	9.20	254594	12.23	265108	14.81
LOWER LIMIT		179012	8.20	63649	11.23	66277	13.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 600-307714/3		331333	8.70	131701	11.73	139616	14.31
LCSD 600-307714/4		337139	8.70	135271	11.73	143731	14.31
MB 600-307714/6		315441	8.70	135611	11.73	134639	14.31
600-213972-1	ARTESIA-TB02-112020	300814	8.71	130799	11.73	129950	14.31
600-213972-2	ARTESIA-SB38-112020	305660	8.70	132560	11.73	131518	14.31
600-213972-3	ARTESIA-SB47-112020	308943	8.70	133503	11.73	133127	14.31
600-213972-4	ARTESIA-SB46-112020	300078	8.70	130616	11.73	124768	14.31

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Client Sample ID: ARTESIA-TB02-112020 Lab Sample ID: 600-213972-1

Matrix: Water Lab File ID: a32909.d

Analysis Method: 8260B Date Collected: 11/20/2020 08:00

Sample wt/vol: 20(mL) Date Analyzed: 11/24/2020 16:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307714 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		50-134
460-00-4	4-Bromofluorobenzene	91		67-139
1868-53-7	Dibromofluoromethane	95		62-130
2037-26-5	Toluene-d8 (Surr)	90		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Client Sample ID: ARTESIA-SB38-112020 Lab Sample ID: 600-213972-2

Matrix: Water Lab File ID: a32925.d

Analysis Method: 8260B Date Collected: 11/20/2020 08:05

Sample wt/vol: 20(mL) Date Analyzed: 11/24/2020 22:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307714 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00251		0.00100	0.000192
127-18-4	Tetrachloroethene	0.00134		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		50-134
460-00-4	4-Bromofluorobenzene	89		67-139
1868-53-7	Dibromofluoromethane	94		62-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Client Sample ID: ARTESIA-SB47-112020 Lab Sample ID: 600-213972-3

Matrix: Water Lab File ID: a32926.d

Analysis Method: 8260B Date Collected: 11/20/2020 10:00

Sample wt/vol: 20(mL) Date Analyzed: 11/24/2020 23:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307714 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00131		0.00100	0.000192
127-18-4	Tetrachloroethene	0.000676	J	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		50-134
460-00-4	4-Bromofluorobenzene	89		67-139
1868-53-7	Dibromofluoromethane	93		62-130
2037-26-5	Toluene-d8 (Surr)	90		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Client Sample ID: ARTESIA-SB46-112020 Lab Sample ID: 600-213972-4

Matrix: Water Lab File ID: a32927.d

Analysis Method: 8260B Date Collected: 11/20/2020 13:15

Sample wt/vol: 20(mL) Date Analyzed: 11/24/2020 23:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307714 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.00510		0.00100	0.000192
127-18-4	Tetrachloroethene	0.00455		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		50-134
460-00-4	4-Bromofluorobenzene	94		67-139
1868-53-7	Dibromofluoromethane	94		62-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1 Analy Batch No.: 304732

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2020 07:04 Calibration End Date: 10/03/2020 09:25 Calibration ID: 18766

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-304732/2	a27701.d
Level 2	IC 600-304732/3	a27702.d
Level 3	IC 600-304732/4	a27703.d
Level 4	IC 600-304732/5	a27704.d
Level 5	ICIS 600-304732/6	a27705.d
Level 6	IC 600-304732/7	a27706.d
Level 7	IC 600-304732/8	a27707.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.1391 0.1541	0.1606 0.1584	0.1788	0.1744	0.1578	Ave		0.1604				8.2		15.0			
Chloromethane	0.3599 0.2591	0.2945 0.2707	0.2712	0.2851	0.2720	Ave		0.2875			0.1000	11.8		15.0			
Ethylene oxide	0.0384 0.0113	0.0217 0.0107	0.0196	0.0129	0.0129	Lin1	0.1374	0.0106							0.9970		0.9900
Vinyl chloride	0.2591 0.2744	0.2808 0.2819	0.2852	0.2966	0.2738	Ave		0.2788				4.1		15.0			
Butadiene	0.3902 0.3847	0.4001 0.3547	0.4387	0.4409	0.4077	Ave		0.4024				7.6		15.0			
Bromomethane	0.0745 0.0809	0.0662 0.0977	0.0715	0.0667	0.0707	Ave		0.0755				14.6		15.0			
Chloroethane	0.1766 0.1466	0.1593 0.1523	0.1676	0.1603	0.1526	Ave		0.1593				6.4		15.0			
Dichlorofluoromethane	0.3579 0.3858	0.3979 0.3990	0.4091	0.4190	0.3852	Ave		0.3934				5.0		15.0			
Acrolein	0.0119 0.0081	0.0086 0.0096	0.0080	0.0074	0.0085	Lin1	-0.001	0.0090							0.9910		0.9900
Trichlorofluoromethane	0.3800 0.4163	0.4277 0.3825	0.4611	0.4526	0.4277	Ave		0.4211				7.4		15.0			
Acetonitrile	0.0133 0.0106	0.0112 0.0112	0.0100	0.0108	0.0106	Ave		0.0111				9.6		15.0			
Isopropyl alcohol	0.0069 0.0046	0.0059 0.0054	0.0042	0.0043	0.0045	Lin1	0.0015	0.0050							0.9900		0.9900
Acetone	0.1285 0.0294	0.0756 0.0310	0.0475	0.0359	0.0320	Lin1	0.0922	0.0288							0.9960		0.9900
Ethyl ether	0.1650 0.1376	0.1521 0.1530	0.1338	0.1422	0.1435	Ave		0.1467				7.3		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1 Analy Batch No.: 304732

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2020 07:04 Calibration End Date: 10/03/2020 09:25 Calibration ID: 18766

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
t-Butanol	0.0088 0.0075	0.0069 0.0090	0.0075	0.0080	0.0078	Ave		0.0079				9.5		15.0			
1,1-Dichloroethene	0.2400 0.2123	0.2400 0.2092	0.2303	0.2428	0.2266	Ave		0.2287				5.9		15.0			
Acrylonitrile	0.0210 0.0238	0.0249 0.0268	0.0233	0.0237	0.0242	Ave		0.0239				7.3		15.0			
Iodomethane	0.1643 0.2107	0.1509 0.2349	0.1517	0.1862	0.2032	Lin1	-0.072	0.2255							0.9950		0.9900
Methylene Chloride	0.3729 0.2064	0.3130 0.2220	0.2464	0.2337	0.2198	Lin1	0.0798	0.2150							0.9990		0.9900
Methyl acetate	0.0878 0.0784	0.0671 0.0932	0.0586	0.0730	0.0743	Lin	-0.197	0.0932							0.9960		0.9900
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2813 0.2167	0.2636 0.2164	0.2433	0.2433	0.2309	Ave		0.2422				9.9		15.0			
3-Chloro-1-propene	0.1686 0.1477	0.1446 0.1507	0.1500	0.1572	0.1533	Ave		0.1531				5.2		15.0			
Carbon disulfide	0.9200 0.5721	0.7382 0.5916	0.6847	0.6622	0.6269	Lin2	0.1596	0.5969							0.9980		0.9900
trans-1,2-Dichloroethene	0.3151 0.2506	0.2916 0.2651	0.2796	0.2727	0.2666	Ave		0.2773				7.6		15.0			
Methyl tert-butyl ether	0.5162 0.4655	0.4798 0.5061	0.4739	0.4781	0.4767	Ave		0.4852				3.8		15.0			
1,1-Dichloroethane	0.6405 0.5136	0.5805 0.5318	0.5428	0.5493	0.5388	Ave		0.5567			0.1000	7.6		15.0			
Propionitrile	0.0126 0.0103	0.0080 0.0117	0.0092	0.0101	0.0099	Ave		0.0103				14.8		15.0			
Vinyl acetate	0.0674 0.0942	0.0777 0.1315	0.0624	0.0724	0.0849	Qua	-0.011	0.0706	0.0006097						1.0000		0.9900
2-Chloro-1,3-butadiene	0.4316 0.4259	0.4045 0.4822	0.4119	0.4194	0.4299	Ave		0.4293				5.9		15.0			
Hexane	0.4495 0.4213	0.4160 0.4681	0.4411	0.4440	0.4295	Ave		0.4385				4.1		15.0			
Isopropyl ether	1.1530 1.0327	1.0466 1.1505	0.9816	1.0408	1.0475	Ave		1.0647				6.0		15.0			
2-Butanone (MEK)	0.0047 0.0104	0.0043 0.0131	0.0114	0.0109	0.0099	Lin	-0.031	0.0131							0.9930		0.9900
Methacrylonitrile	0.0123 0.0120	0.0102 0.0140	0.0109	0.0116	0.0122	Ave		0.0119				10.2		15.0			
cis-1,2-Dichloroethene	0.3298 0.2672	0.3082 0.2904	0.2915	0.2806	0.2826	Ave		0.2929				7.0		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1 Analy Batch No.: 304732

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2020 07:04 Calibration End Date: 10/03/2020 09:25 Calibration ID: 18766

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	0.0786 0.0833	0.0707 0.1005	0.0619	0.0753	0.0782	Lin	-0.236	0.1007							0.9950		0.9900
Chlorobromomethane	0.1120 0.0941	0.1074 0.1032	0.0968	0.0993	0.0994	Ave		0.1017				6.1		15.0			
Tert-butyl ethyl ether	0.7191 0.7499	0.7531 0.8352	0.7184	0.7537	0.7620	Ave		0.7559				5.2		15.0			
Chloroform	0.6069 0.4748	0.5358 0.5132	0.4895	0.4895	0.4874	Ave		0.5139				8.9		15.0			
Isobutyl alcohol	0.0020 0.0036	0.0040 0.0039	0.0036	0.0042	0.0037	Lin1	-0.013	0.0038							0.9970		0.9900
2,2-Dichloropropane	0.5836 0.4879	0.5252 0.5010	0.5198	0.5180	0.5071	Ave		0.5204				5.9		15.0			
Tetrahydrofuran	0.0287 0.0249	0.0246 0.0295	0.0230	0.0239	0.0288	Ave		0.0262				10.4		15.0			
1,2-Dichloroethane	0.2526 0.2353	0.2515 0.2557	0.2299	0.2389	0.2404	Ave		0.2435				4.0		15.0			
1,1,1-Trichloroethane	0.5612 0.4713	0.5221 0.4843	0.4864	0.5030	0.4885	Ave		0.5024				6.1		15.0			
1,1-Dichloropropene	0.4421 0.3856	0.4238 0.4040	0.3932	0.4106	0.3994	Ave		0.4084				4.7		15.0			
Cyclohexane	0.4739 0.4049	0.4432 0.4170	0.4495	0.4438	0.4263	Ave		0.4369				5.2		15.0			
Carbon tetrachloride	0.4605 0.3998	0.4602 0.4215	0.4310	0.4306	0.4247	Ave		0.4326				5.0		15.0			
Benzene	1.2634 1.0252	1.1434 1.0741	1.0754	1.0935	1.0663	Ave		1.1059				7.0		15.0			
Tert-amyl methyl ether	0.4725 0.5032	0.4922 0.5546	0.4651	0.5047	0.5045	Ave		0.4995				5.8		15.0			
Isooctane	0.8903 0.7959	0.8327 0.8423	0.8561	0.8447	0.8470	Ave		0.8441				3.3		15.0			
Ethyl acrylate	0.1390 0.1676	0.1499 0.2014	0.1541	0.1501	0.1609	Ave		0.1604				12.6		15.0			
n-Heptane	0.4217 0.4400	0.3930 0.4857	0.4082	0.4371	0.4450	Ave		0.4329				6.9		15.0			
Dibromomethane	0.1553 0.0828	0.0995 0.0948	0.0898	0.0903	0.0895	Lin1	0.0185	0.0901							0.9950		0.9900
1,2-Dichloropropane	0.2810 0.2512	0.2778 0.2723	0.2430	0.2626	0.2512	Ave		0.2627				5.6		15.0			
2-Nitropropane	0.0095 0.0145	0.0109 0.0222	0.0103	0.0113	0.0134	Qua	0.0031	0.0098	0.0001229						1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1 Analy Batch No.: 304732

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2020 07:04 Calibration End Date: 10/03/2020 09:25 Calibration ID: 18766

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Trichloroethene	0.3474 0.2885	0.3136 0.3093	0.2947	0.3062	0.2946	Ave		0.3078				6.4		15.0			
Bromodichloromethane	0.3271 0.2856	0.3140 0.3082	0.2899	0.2958	0.2920	Ave		0.3018				5.0		15.0			
Methyl methacrylate	0.0789 0.1008	0.0863 0.1172	0.0830	0.0928	0.0982	Ave		0.0939				13.8		15.0			
1,4-Dioxane	0.0009 0.0005	0.0009 0.0006	0.0006	0.0005	0.0005	Lin1	0.0038	0.0005							0.9910		0.9900
2-Chloroethyl vinyl ether	0.0061 0.0215	0.0069 0.0360	0.0064	0.0134	0.0179	Qua	-0.013	0.0127	0.0002342						1.0000		0.9900
Methylcyclohexane	0.5030 0.4535	0.4834 0.4813	0.4776	0.4836	0.4675	Ave		0.4785				3.2		15.0			
cis-1,3-Dichloropropene	0.8545 0.8340	0.7567 0.9197	0.7794	0.8394	0.8691	Ave		0.8361				6.5		15.0			
4-Methyl-2-pentanone (MIBK)	0.0830 0.0884	0.0962 0.1009	0.0779	0.0861	0.0889	Ave		0.0888				8.7		15.0			
trans-1,3-Dichloropropene	0.5654 0.5994	0.5625 0.6839	0.5713	0.5905	0.6260	Ave		0.5999				7.2		15.0			
1,1,2-Trichloroethane	0.3365 0.3086	0.3439 0.3307	0.3352	0.3355	0.3285	Ave		0.3313				3.4		15.0			
Ethyl methacrylate	0.2871 0.3261	0.2946 0.4031	0.2884	0.3138	0.3327	Ave		0.3208				12.6		15.0			
Toluene	1.9819 1.7119	1.7582 1.8508	1.7621	1.7794	1.7899	Ave		1.8049				4.9		15.0			
1,3-Dichloropropane	0.6110 0.5832	0.6112 0.6408	0.5666	0.6155	0.6349	Ave		0.6090				4.3		15.0			
2-Hexanone	0.1163 0.1407	0.1378 0.1666	0.1246	0.1373	0.1442	Ave		0.1382				11.5		15.0			
Dibromochloromethane	0.5103 0.4212	0.4432 0.4671	0.4187	0.4355	0.4462	Ave		0.4489				7.0		15.0			
n-Butyl acetate	0.3642 0.2893	0.2985 0.3625	0.2362	0.2877	0.2987	Ave		0.3053				14.8		15.0			
1,2-Dibromoethane	0.3228 0.2839	0.3283 0.3077	0.2811	0.2956	0.3058	Ave		0.3036				6.0		15.0			
Tetrachloroethene	0.6717 0.6005	0.6701 0.6430	0.6507	0.6582	0.6588	Ave		0.6504				3.7		15.0			
1-Chlorohexane	0.8759 0.7518	0.7579 0.8269	0.7825	0.7966	0.7912	Ave		0.7976				5.3		15.0			
1,1,1,2-Tetrachloroethane	0.6852 0.5978	0.6494 0.6484	0.6212	0.6246	0.6406	Ave		0.6382				4.3		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1 Analy Batch No.: 304732

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2020 07:04 Calibration End Date: 10/03/2020 09:25 Calibration ID: 18766

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobenzene	2.1783 1.7685	1.9407 1.8684	1.9131	1.9488	1.9107	Ave		1.9326			0.3000	6.4		15.0			
Ethylbenzene	1.2441 0.9933	1.0669 1.0847	1.0473	1.0674	1.0498	Ave		1.0791				7.3		15.0			
m-Xylene & p-Xylene	3.1076 2.5162	2.7442 2.7177	2.6622	2.7249	2.6847	Ave		2.7368				6.6		15.0			
Bromoform	0.2419 0.2395	0.2604 0.2462	0.2523	0.2551	0.2575	Ave		0.2504			0.1000	3.2		15.0			
Styrene	1.7229 1.7382	1.6424 1.9452	1.5850	1.7385	1.8000	Ave		1.7389				6.6		15.0			
Cyclohexanone	0.0045 0.0050	0.0039 0.0066	0.0037	0.0045	0.0051	Lin	-0.468	0.0066							0.9910		0.9900
o-Xylene	1.3962 1.2179	1.3146 1.3615	1.2353	1.2826	1.2647	Ave		1.2961				5.0		15.0			
1,1,2,2-Tetrachloroethane	0.4233 0.3564	0.4091 0.3825	0.3552	0.3712	0.3706	Ave		0.3812			0.3000	6.8		15.0			
trans-1,4-Dichloro-2-butene	0.0136 0.0534	0.0192 0.0708	0.0382	0.0378	0.0488	Lin	-0.132	0.0713							0.9900		0.9900
1,2,3-Trichloropropane	0.1165 0.0955	0.1348 0.0967	0.1068	0.1056	0.1001	Ave		0.1080				12.8		15.0			
Isopropylbenzene	4.5473 3.2593	3.8121 3.2035	3.7500	3.6848	3.5326	Ave		3.6842				12.1		15.0			
Bromobenzene	1.0088 0.7336	0.8237 0.7416	0.8329	0.8192	0.8008	Ave		0.8229				11.1		15.0			
N-Propylbenzene	1.3490 0.9965	1.1187 1.0059	1.1120	1.0898	1.0613	Ave		1.1048				10.7		15.0			
2-Chlorotoluene	1.1193 0.8228	0.9895 0.8378	0.9445	0.8944	0.8807	Ave		0.9270				11.1		15.0			
4-Chlorotoluene	3.0621 2.4475	2.7722 2.4556	2.6841	2.6482	2.6185	Ave		2.6697				7.8		15.0			
1,3,5-Trimethylbenzene	4.1998 2.8920	3.4080 2.9119	3.1505	3.1408	3.1119	Ave		3.2593				13.8		15.0			
tert-Butylbenzene	3.3397 2.4627	2.8960 2.4977	2.7490	2.7357	2.6385	Ave		2.7599				10.7		15.0			
1,2,4-Trimethylbenzene	3.6251 2.9172	3.1915 2.9582	3.1312	3.1182	3.0755	Ave		3.1453				7.4		15.0			
sec-Butylbenzene	4.5224 3.5698	3.8806 3.5375	3.8250	3.8511	3.7848	Ave		3.8530				8.4		15.0			
Benzyl chloride	0.1438 0.3852	0.1327 0.6083	0.1576	0.2156	0.3024	Qua	-0.159	0.2432	0.0073674						1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1 Analy Batch No.: 304732

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2020 07:04 Calibration End Date: 10/03/2020 09:25 Calibration ID: 18766

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	1.8828 1.5615	1.7419 1.6051	1.6248	1.6489	1.6374	Ave		1.6718				6.5		15.0			
4-Isopropyltoluene	3.9304 3.2953	3.5793 3.3777	3.4568	3.4322	3.4528	Ave		3.5035				5.9		15.0			
1,4-Dichlorobenzene	2.0539 1.5577	1.7202 1.6306	1.6333	1.6684	1.6358	Ave		1.7000				9.6		15.0			
1,2,3-Trimethylbenzene	4.1188 3.3523	3.6594 3.3792	3.4566	3.4947	3.4916	Ave		3.5646				7.4		15.0			
1,2-Dichlorobenzene	1.5247 1.2043	1.3510 1.2397	1.2776	1.3188	1.2667	Ave		1.3118				8.0		15.0			
n-Butylbenzene	3.2723 2.7012	2.7638 2.7394	2.7506	2.8045	2.8155	Ave		2.8353				6.9		15.0			
1,2-Dibromo-3-Chloropropane	0.0592 0.0415	0.0552 0.0453	0.0397	0.0410	0.0470	Lin1	0.0053	0.0440							0.9970		0.9900
1,3,5-Trichlorobenzene	1.4746 1.2444	1.3935 1.2814	1.3132	1.3256	1.2843	Ave		1.3310				5.9		15.0			
1,2,4-Trichlorobenzene	0.5031 0.4620	0.4815 0.4966	0.4414	0.4523	0.4478	Ave		0.4692				5.2		15.0			
Naphthalene	0.4547 0.3118	0.3225 0.3761	0.2662	0.2691	0.2898	Lin	-0.413	0.3758							0.9940		0.9900
Hexachlorobutadiene	0.2497 0.1794	0.2085 0.1791	0.2063	0.2014	0.1935	Ave		0.2026				11.8		15.0			
1,2,3-Trichlorobenzene	0.1942 0.1802	0.1720 0.2060	0.1711	0.1929	0.1858	Ave		0.1860				6.8		15.0			
Dibromofluoromethane	0.2466 0.2243	0.2435 0.2421	0.2295	0.2364	0.2285	Ave		0.2358				3.6		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2527 0.1849	0.1919 0.2038	0.2023	0.2055	0.1887	Ave		0.2043				11.2		15.0			
Toluene-d8 (Surr)	2.6586 2.2380	2.4124 2.3774	2.2672	2.3571	2.3721	Ave		2.3832				5.7		15.0			
4-Bromofluorobenzene	1.1925 0.8011	0.9118 0.8360	0.9251	0.8783	0.8698	Ave		0.9164				14.1		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1 Analy Batch No.: 304732

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2020 07:04 Calibration End Date: 10/03/2020 09:25 Calibration ID: 18766

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-304732/2	a27701.d
Level 2	IC 600-304732/3	a27702.d
Level 3	IC 600-304732/4	a27703.d
Level 4	IC 600-304732/5	a27704.d
Level 5	ICIS 600-304732/6	a27705.d
Level 6	IC 600-304732/7	a27706.d
Level 7	IC 600-304732/8	a27707.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	2192 106970	4733 288584	11178	27518	52327	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloromethane	FB	Ave	5671 179914	8678 493321	16961	44984	90227	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethylene oxide	FB	Lin1	6057 78676	6393 195652	12232	20388	42722	5.00 200	10.0 500	20.0	50.0	100
Vinyl chloride	FB	Ave	4083 190526	8273 513674	17833	46801	90830	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Butadiene	FB	Ave	6148 267082	11789 646381	27430	69563	135212	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromomethane	FB	Ave	1174 56171	1951 178111	4469	10521	23445	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloroethane	FB	Ave	2782 101794	4692 277491	10478	25287	50619	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dichlorofluoromethane	FB	Ave	5639 267811	11722 727046	25581	66114	127764	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acrolein	FB	Lin1	934 28268	1265 87556	2488	5838	14160	2.50 100	5.00 250	10.0	25.0	50.0
Trichlorofluoromethane	FB	Ave	5988 289027	12601 696986	28831	71407	141861	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acetonitrile	FB	Ave	2100 73323	3308 203912	6248	17115	35094	5.00 200	10.0 500	20.0	50.0	100
Isopropyl alcohol	FB	Lin1	1087 31785	1730 98329	2650	6708	14949	5.00 200	10.0 500	20.0	50.0	100
Acetone	FB	Lin1	4050 40833	4456 112817	5941	11341	21200	1.00 40.0	2.00 100	4.00	10.0	20.0
Ethyl ether	FB	Ave	2599 95514	4480 278821	8367	22442	47612	0.500 20.0	1.00 50.0	2.00	5.00	10.0
t-Butanol	FB	Ave	1391 51876	2034 163751	4673	12691	25824	5.00 200	10.0 500	20.0	50.0	100

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1 Analy Batch No.: 304732

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2020 07:04 Calibration End Date: 10/03/2020 09:25 Calibration ID: 18766

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1-Dichloroethene	FB	Ave	3781 147395	7072 381178	14401	38312	75154	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Acrylonitrile	FB	Ave	3305 165042	7327 488246	14551	37454	80247	5.00 200	10.0 500	20.0	50.0	100
Iodomethane	FB	Lin1	2588 146281	4445 427996	9484	29385	67389	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methylene Chloride	FB	Lin1	5875 143313	9221 404611	15408	36871	72909	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl acetate	FB	Lin	2767 108843	3952 339474	7326	23039	49318	1.00 40.0	2.00 100	4.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	4432 150474	7765 394405	15214	38388	76575	0.500 20.0	1.00 50.0	2.00	5.00	10.0
3-Chloro-1-propene	FB	Ave	2656 102517	4259 274624	9379	24803	50859	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon disulfide	FB	Lin2	14496 397189	21749 1078022	42818	104479	207929	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	4965 173949	8592 483140	17486	43029	88420	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl tert-butyl ether	FB	Ave	8133 323144	14135 922150	29634	75432	158099	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1-Dichloroethane	FB	Ave	10091 356571	17104 968939	33943	86661	178702	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Propionitrile	FB	Ave	1983 71470	2358 213612	5777	15992	32843	5.00 200	10.0 500	20.0	50.0	100
Vinyl acetate	FB	Qua	2125 130805	4581 479156	7798	22839	56333	1.00 40.0	2.00 100	4.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	6801 295702	11918 878573	25754	66166	142599	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexane	FB	Ave	7082 292478	12258 853012	27582	70046	142470	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropyl ether	FB	Ave	18166 716959	30837 2096473	61380	164212	347429	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Lin	147 14476	254 47635	1425	3450	6575	1.00 40.0	2.00 100	4.00	10.0	20.0
Methacrylonitrile	FB	Ave	1939 83650	3011 255301	6785	18334	40585	5.00 200	10.0 500	20.0	50.0	100
cis-1,2-Dichloroethene	FB	Ave	5196 185537	9079 529239	18228	44278	93748	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acetate	FB	Lin	2476 115627	4168 366345	7745	23752	51883	1.00 40.0	2.00 100	4.00	10.0	20.0
Chlorobromomethane	FB	Ave	1765 65322	3163 188055	6051	15667	32985	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Released to Imaging: 6/9/2021 9:44:58 AM

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1 Analy Batch No.: 304732

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2020 07:04 Calibration End Date: 10/03/2020 09:25 Calibration ID: 18766

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tert-butyl ethyl ether	FB	Ave	11330 520612	22188 1521930	44922	118913	252756	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chloroform	FB	Ave	9563 329601	15785 935091	30611	77226	161653	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Lin1	803 62023	2928 178025	5680	16391	30379	12.5 500	25.0 1250	50.0	125	250
2,2-Dichloropropane	FB	Ave	9195 338716	15475 912867	32505	81731	168193	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrahydrofuran	FB	Ave	904 34517	1451 107581	2872	7532	19135	1.00 40.0	2.00 100	4.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	3980 163389	7411 465943	14374	37688	79724	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	8842 327213	15382 882565	30417	79360	162016	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	6966 267686	12487 736231	24585	64790	132468	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Cyclohexane	FB	Ave	7467 281096	13059 759839	28106	70021	141387	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	7256 277541	13559 767984	26954	67937	140870	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzene	FB	Ave	19906 711765	33687 1957260	67248	172533	353673	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tert-amyl methyl ether	FB	Ave	7444 349326	14501 1010550	29085	79629	167323	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isooctane	FB	Ave	14028 552532	24535 1534805	53536	133267	280922	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acrylate	FB	Ave	2190 116352	4417 366894	9636	23683	53378	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Heptane	FB	Ave	6644 305437	11579 884977	25526	68971	147586	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromomethane	FB	Lin1	2447 57501	2931 172765	5615	14240	29684	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Ave	4428 174423	8185 496145	15195	41428	83331	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Nitropropane	FB	Qua	300 20154	643 80758	1292	3565	8916	1.00 40.0	2.00 100	4.00	10.0	20.0
Trichloroethene	FB	Ave	5474 200323	9239 563584	18426	48309	97722	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	5153 198310	9251 561672	18131	46663	96846	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Methyl methacrylate	FB	Ave	2487 139893	5087 427031	10382	29276	65144	1.00 40.0	2.00 100	4.00	10.0	20.0

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1 Analy Batch No.: 304732

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2020 07:04 Calibration End Date: 10/03/2020 09:25 Calibration ID: 18766

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	FB	Lin1	286 7050	530 20974	728	1722	3174	10.0 400	20.0 1000	40.0	100	200
2-Chloroethyl vinyl ether	CBNZ d5	Qua	73 11039	161 49385	303	1585	4335	1.00 40.0	2.00 100	4.00	10.0	20.0
Methylcyclohexane	FB	Ave	7926 314846	14241 876963	29863	76297	155048	0.500 20.0	1.00 50.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	5117 214520	8803 630586	18564	49563	105393	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	2616 122737	5669 367826	9747	27158	58980	1.00 40.0	2.00 100	4.00	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	3386 154173	6544 468937	13607	34863	75911	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	2015 79392	4001 226783	7983	19809	39836	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	1719 83879	3427 276367	6870	18527	40347	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene	CBNZ d5	Ave	11868 440362	20453 1269044	41969	105062	217049	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	3659 150007	7110 439347	13495	36340	76994	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Hexanone	CBNZ d5	Ave	1393 72389	3205 228431	5936	16216	34965	1.00 40.0	2.00 100	4.00	10.0	20.0
Dibromochloromethane	CBNZ d5	Ave	3056 108347	5156 320285	9973	25714	54113	0.500 20.0	1.00 50.0	2.00	5.00	10.0
n-Butyl acetate	CBNZ d5	Ave	2181 74404	3473 248522	5625	16986	36225	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	1933 73033	3819 210985	6694	17452	37087	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	4022 154463	7795 440911	15498	38861	79885	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1-Chlorohexane	CBNZ d5	Ave	5245 193396	8817 566957	18637	47035	95948	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4103 153766	7555 444563	14794	36879	77679	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	13044 454906	22576 1281062	45565	115065	231703	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	7450 255499	12411 743708	24944	63021	127300	0.500 20.0	1.00 50.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	18609 647247	31923 1863408	63406	160887	325562	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromoform	DCBd 4	Ave	1206 60707	2635 183296	5284	13966	30125	0.500 20.0	1.00 50.0	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1 Analy Batch No.: 304732

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2020 07:04 Calibration End Date: 10/03/2020 09:25 Calibration ID: 18766

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Styrene	CBNZ d5	Ave	10317 447120	19106 1333752	37751	102645	218273	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Cyclohexanone	CBNZ d5	Lin	1357 64274	2297 225266	4454	13236	30920	25.0 1000	50.0 2500	100	250	500
o-Xylene	CBNZ d5	Ave	8361 313276	15293 933565	29422	75726	153363	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	2110 90308	4140 284773	7438	20322	43364	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin	68 13522	194 52695	799	2070	5715	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	581 24207	1364 71999	2236	5779	11714	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	22669 825973	38581 2384728	78528	201723	413300	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Bromobenzene	DCBd 4	Ave	5029 185908	8336 552047	17441	44844	93696	0.500 20.0	1.00 50.0	2.00	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	6725 252540	11322 748825	23287	59658	124173	0.500 20.0	1.00 50.0	2.00	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	5580 208504	10014 623650	19778	48964	103034	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	15265 620240	28056 1828020	56208	144974	306357	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	20937 732907	34491 2167643	65974	171943	364085	0.500 20.0	1.00 50.0	2.00	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	16649 624100	29309 1859362	57567	149766	308691	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	18072 739283	32300 2202125	65570	170706	359818	0.500 20.0	1.00 50.0	2.00	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	22545 904664	39274 2633379	80099	210826	442809	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Benzyl chloride	DCBd 4	Qua	717 97625	1343 452827	3300	11804	35377	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	9386 395728	17629 1194893	34024	90270	191572	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	19594 835115	36225 2514438	72389	187896	403964	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	10239 394752	17410 1213833	34202	91333	191383	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	20533 849541	37035 2515549	72384	191317	408505	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	7601 305186	13673 922823	26754	72197	148199	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Received by OCD: 4/1/2021 10:42:57 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1 Analy Batch No.: 304732

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2020 07:04 Calibration End Date: 10/03/2020 09:25 Calibration ID: 18766

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butylbenzene	DCBd 4	Ave	16313 684537	27971 2039286	57601	153528	329407	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin1	295 10518	559 33708	831	2242	5496	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	7351 315363	14103 953894	27499	72569	150261	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	2508 117070	4873 369674	9244	24760	52394	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Naphthalene	DCBd 4	Lin	2267 79009	3264 280002	5575	14730	33900	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	1245 45472	2110 133298	4321	11027	22633	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	968 45677	1741 153382	3583	10559	21742	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Dibromofluoromethane	FB	Ave	3885 155716	7175 441057	14349	37299	75786	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	3982 128391	5654 371270	12653	32431	62600	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene-d8 (Surr)	CBNZ d5	Ave	15920 575667	28064 1630069	53999	139171	287651	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Bromofluorobenzene	DCBd 4	Ave	5945 203013	9228 622358	19373	48081	101760	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

Released to Imaging: 6/9/2021 9:44:58 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Lab Sample ID: ICV 600-304732/11 Calibration Date: 10/03/2020 11:02

Instrument ID: CHVOAMS07 Calib Start Date: 10/03/2020 07:04

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 10/03/2020 09:25

Lab File ID: a27711.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1604	0.1595		9.94	10.0	-0.6	50.0
Chloromethane	Ave	0.2875	0.2728	0.1000	9.49	10.0	-5.1	30.0
Ethylene oxide	Lin1		0.0115		95.5	100	-4.5	50.0
Vinyl chloride	Ave	0.2788	0.2766		9.92	10.0	-0.8	30.0
Butadiene	Ave	0.4024	0.3898		9.69	10.0	-3.1	50.0
Bromomethane	Ave	0.0755	0.0800		10.6	10.0	6.0	30.0
Chloroethane	Ave	0.1593	0.1487		9.33	10.0	-6.7	30.0
Dichlorofluoromethane	Ave	0.3934	0.3895		9.90	10.0	-1.0	30.0
Acrolein	Lin1		0.0084		46.9	50.0	-6.3	50.0
Trichlorofluoromethane	Ave	0.4211	0.4208		9.99	10.0	-0.0	30.0
Acetonitrile	Ave	0.0111	0.0108		97.5	100	-2.5	30.0
Isopropyl alcohol	Lin1		0.0053		105	100	5.1	50.0
Acetone	Lin1		0.0387		23.7	20.0	18.3	50.0
Ethyl ether	Ave	0.1467	0.1493		10.2	10.0	1.7	50.0
t-Butanol	Ave	0.0079	0.0086		109	100	9.1	30.0
1,1-Dichloroethene	Ave	0.2287	0.2454		10.7	10.0	7.3	30.0
Acrylonitrile	Ave	0.0239	0.0251		105	100	4.8	50.0
Iodomethane	Lin1		0.2031		9.32	10.0	-6.8	30.0
Methylene Chloride	Lin1		0.2316		10.4	10.0	4.0	50.0
Methyl acetate	Lin		0.0867		20.7	20.0	3.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2422	0.2505		10.3	10.0	3.4	30.0
3-Chloro-1-propene	Ave	0.1531	0.1657		10.8	10.0	8.2	30.0
Carbon disulfide	Lin2		0.7200		11.8	10.0	17.9	30.0
trans-1,2-Dichloroethene	Ave	0.2773	0.2676		9.65	10.0	-3.5	30.0
Methyl tert-butyl ether	Ave	0.4852	0.5049		10.4	10.0	4.1	30.0
1,1-Dichloroethane	Ave	0.5567	0.5569	0.1000	10.0	10.0	0.0	30.0
Propionitrile	Ave	0.0103	0.0109		106	100	6.1	30.0
Vinyl acetate	Qua		0.1037		24.4	20.0	22.0	50.0
2-Chloro-1,3-butadiene	Ave	0.4293	0.4824		11.2	10.0	12.4	30.0
Hexane	Ave	0.4385	0.4954		11.3	10.0	13.0	30.0
Isopropyl ether	Ave	1.065	1.085		10.2	10.0	1.9	30.0
2-Butanone (MEK)	Lin		0.0119		20.6	20.0	3.0	50.0
Methacrylonitrile	Ave	0.0119	0.0125		105	100	4.9	30.0
cis-1,2-Dichloroethene	Ave	0.2929	0.2772		9.46	10.0	-5.4	30.0
Ethyl acetate	Lin		0.0869		19.6	20.0	-1.9	30.0
Chlorobromomethane	Ave	0.1017	0.1028		10.1	10.0	1.0	30.0
Tert-butyl ethyl ether	Ave	0.7559	0.7901		10.5	10.0	4.5	30.0
Chloroform	Ave	0.5139	0.4929		9.59	10.0	-4.1	30.0
Isobutyl alcohol	Lin1		0.0038		253	250	1.1	50.0
2,2-Dichloropropane	Ave	0.5204	0.5161		9.92	10.0	-0.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Lab Sample ID: ICV 600-304732/11 Calibration Date: 10/03/2020 11:02

Instrument ID: CHVOAMS07 Calib Start Date: 10/03/2020 07:04

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 10/03/2020 09:25

Lab File ID: a27711.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrahydrofuran	Ave	0.0262	0.0268		20.5	20.0	2.3	30.0
1,2-Dichloroethane	Ave	0.2435	0.2479		10.2	10.0	1.8	30.0
1,1,1-Trichloroethane	Ave	0.5024	0.4999		9.95	10.0	-0.5	30.0
1,1-Dichloropropene	Ave	0.4084	0.4118		10.1	10.0	0.8	30.0
Cyclohexane	Ave	0.4369	0.4592		10.5	10.0	5.1	50.0
Carbon tetrachloride	Ave	0.4326	0.4275		9.88	10.0	-1.2	30.0
Benzene	Ave	1.106	1.123		10.2	10.0	1.5	30.0
Tert-amyl methyl ether	Ave	0.4995	0.5297		10.6	10.0	6.0	30.0
Isooctane	Ave	0.8441	0.9394		11.1	10.0	11.3	30.0
Ethyl acrylate	Ave	0.1604	0.1758		11.0	10.0	9.6	30.0
n-Heptane	Ave	0.4329	0.4684		10.8	10.0	8.2	30.0
Dibromomethane	Lin1		0.0921		10.0	10.0	0.2	30.0
1,2-Dichloropropane	Ave	0.2627	0.2602		9.90	10.0	-1.0	30.0
2-Nitropropane	Qua		0.0142		22.3	20.0	11.4	30.0
Trichloroethene	Ave	0.3078	0.2980		9.68	10.0	-3.2	30.0
Bromodichloromethane	Ave	0.3018	0.2961		9.81	10.0	-1.9	30.0
Methyl methacrylate	Ave	0.0939	0.1100		23.4	20.0	17.1	50.0
1,4-Dioxane	Lin1		0.0006		217	200	8.3	50.0
2-Chloroethyl vinyl ether	Qua		0.0214		24.0	20.0	20.1	30.0
Methylcyclohexane	Ave	0.4785	0.4968		10.4	10.0	3.8	30.0
cis-1,3-Dichloropropene	Ave	0.8361	0.8776		10.5	10.0	5.0	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0888	0.0928		20.9	20.0	4.5	50.0
trans-1,3-Dichloropropene	Ave	0.5999	0.6284		10.5	10.0	4.8	30.0
1,1,2-Trichloroethane	Ave	0.3313	0.3199		9.66	10.0	-3.4	30.0
Ethyl methacrylate	Ave	0.3208	0.3470		10.8	10.0	8.2	50.0
Toluene	Ave	1.805	1.766		9.79	10.0	-2.1	30.0
1,3-Dichloropropane	Ave	0.6090	0.6202		10.2	10.0	1.8	30.0
2-Hexanone	Ave	0.1382	0.1493		21.6	20.0	8.0	50.0
Dibromochloromethane	Ave	0.4489	0.4312		9.61	10.0	-3.9	30.0
n-Butyl acetate	Ave	0.3053	0.3189		10.5	10.0	4.5	30.0
1,2-Dibromoethane	Ave	0.3036	0.3112		10.3	10.0	2.5	30.0
Tetrachloroethene	Ave	0.6504	0.6404		9.85	10.0	-1.5	30.0
1-Chlorohexane	Ave	0.7976	0.7706		9.66	10.0	-3.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.6382	0.6223		9.75	10.0	-2.5	30.0
Chlorobenzene	Ave	1.933	1.876	0.3000	9.71	10.0	-2.9	30.0
Ethylbenzene	Ave	1.079	1.035		9.59	10.0	-4.1	30.0
m-Xylene & p-Xylene	Ave	2.737	2.636		9.63	10.0	-3.7	30.0
Bromoform	Ave	0.2504	0.2425	0.1000	9.68	10.0	-3.2	30.0
Styrene	Ave	1.739	1.766		10.2	10.0	1.5	30.0
Cyclohexanone	Lin		0.0051		458	500	-8.5	30.0
o-Xylene	Ave	1.296	1.243		9.59	10.0	-4.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Lab Sample ID: ICV 600-304732/11 Calibration Date: 10/03/2020 11:02

Instrument ID: CHVOAMS07 Calib Start Date: 10/03/2020 07:04

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 10/03/2020 09:25

Lab File ID: a27711.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2,2-Tetrachloroethane	Ave	0.3812	0.3729	0.3000	9.78	10.0	-2.2	30.0
trans-1,4-Dichloro-2-butene	Lin		0.0593		10.2	10.0	1.7	50.0
1,2,3-Trichloropropane	Ave	0.1080	0.1055		9.77	10.0	-2.3	30.0
Isopropylbenzene	Ave	3.684	3.507		9.52	10.0	-4.8	30.0
Bromobenzene	Ave	0.8229	0.7828		9.51	10.0	-4.9	30.0
N-Propylbenzene	Ave	1.105	1.033		9.35	10.0	-6.5	30.0
2-Chlorotoluene	Ave	0.9270	0.8667		9.35	10.0	-6.5	30.0
4-Chlorotoluene	Ave	2.670	2.601		9.74	10.0	-2.6	30.0
1,3,5-Trimethylbenzene	Ave	3.259	3.023		9.28	10.0	-7.2	30.0
tert-Butylbenzene	Ave	2.760	2.603		9.43	10.0	-5.7	30.0
1,2,4-Trimethylbenzene	Ave	3.145	3.004		9.55	10.0	-4.5	30.0
sec-Butylbenzene	Ave	3.853	3.728		9.68	10.0	-3.2	30.0
Benzyl chloride	Qua		0.3889		12.2	10.0	21.6	30.0
1,3-Dichlorobenzene	Ave	1.672	1.599		9.56	10.0	-4.4	30.0
4-Isopropyltoluene	Ave	3.504	3.338		9.53	10.0	-4.7	30.0
1,4-Dichlorobenzene	Ave	1.700	1.582		9.31	10.0	-6.9	30.0
1,2,3-Trimethylbenzene	Ave	3.565	3.319		9.31	10.0	-6.9	30.0
1,2-Dichlorobenzene	Ave	1.312	1.255		9.57	10.0	-4.3	30.0
n-Butylbenzene	Ave	2.835	2.742		9.67	10.0	-3.3	30.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0451		10.1	10.0	1.3	30.0
1,3,5-Trichlorobenzene	Ave	1.331	1.233		9.27	10.0	-7.3	30.0
1,2,4-Trichlorobenzene	Ave	0.4692	0.4890		10.4	10.0	4.2	30.0
Naphthalene	Lin		0.3355		10.0	10.0	0.3	30.0
Hexachlorobutadiene	Ave	0.2026	0.1848		9.12	10.0	-8.8	30.0
1,2,3-Trichlorobenzene	Ave	0.1860	0.2026		10.9	10.0	8.9	30.0
Dibromofluoromethane	Ave	0.2358	0.2502		13.3	12.5	6.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2043	0.2382		14.6	12.5	16.6	30.0
Toluene-d8 (Surr)	Ave	2.383	2.339		12.3	12.5	-1.8	30.0
4-Bromofluorobenzene	Ave	0.9164	0.8443		11.5	12.5	-7.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Lab Sample ID: CCVIS 600-307714/2 Calibration Date: 11/24/2020 13:35

Instrument ID: CHVOAMS07 Calib Start Date: 10/03/2020 07:04

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 10/03/2020 09:25

Lab File ID: a32901A.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1604	0.1436		8.95	10.0	-10.5	35.0
Chloromethane	Ave	0.2875	0.2797	0.1000	9.73	10.0	-2.7	35.0
Ethylene oxide	Lin1		0.0086		67.6	100	-32.4	35.0
Vinyl chloride	Ave	0.2788	0.2442		8.76	10.0	-12.4	20.0
Butadiene	Ave	0.4024	0.4149		10.3	10.0	3.1	35.0
Bromomethane	Ave	0.0755	0.0664		8.80	10.0	-12.0	35.0
Chloroethane	Ave	0.1593	0.1690		10.6	10.0	6.1	35.0
Dichlorofluoromethane	Ave	0.3934	0.3840		9.76	10.0	-2.4	35.0
Acrolein	Lin1		0.0088		48.9	50.0	-2.3	50.0
Trichlorofluoromethane	Ave	0.4211	0.4351		10.3	10.0	3.3	35.0
Acetonitrile	Ave	0.0111	0.0131		118	100	17.7	50.0
Isopropyl alcohol	Lin1		0.0050		98.6	100	-1.4	50.0
Acetone	Lin1		0.0300		17.7	20.0	-11.8	50.0
Ethyl ether	Ave	0.1467	0.1450		9.88	10.0	-1.2	35.0
t-Butanol	Ave	0.0079	0.0078		97.9	100	-2.1	35.0
1,1-Dichloroethene	Ave	0.2287	0.2634		11.5	10.0	15.1	20.0
Acrylonitrile	Ave	0.0239	0.0265		111	100	10.8	50.0
Iodomethane	Lin1		0.2049		9.40	10.0	-6.0	35.0
Methylene Chloride	Lin1		0.2513		11.3	10.0	13.2	50.0
Methyl acetate	Lin		0.0803		19.3	20.0	-3.3	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2422	0.2623		10.8	10.0	8.3	35.0
3-Chloro-1-propene	Ave	0.1531	0.1601		10.5	10.0	4.5	35.0
Carbon disulfide	Lin2		0.7280		11.9	10.0	19.3	35.0
trans-1,2-Dichloroethene	Ave	0.2773	0.2829		10.2	10.0	2.0	35.0
Methyl tert-butyl ether	Ave	0.4852	0.4014		8.27	10.0	-17.3	35.0
1,1-Dichloroethane	Ave	0.5567	0.5905	0.1000	10.6	10.0	6.1	35.0
Propionitrile	Ave	0.0103	0.0111		109	100	8.5	35.0
Vinyl acetate	Qua		0.2803		54.2	20.0	171.0*	50.0
2-Chloro-1,3-butadiene	Ave	0.4293	0.6160		14.4	10.0	43.5*	35.0
Hexane	Ave	0.4385	0.5785		13.2	10.0	31.9	35.0
Isopropyl ether	Ave	1.065	1.232		11.6	10.0	15.7	35.0
2-Butanone (MEK)	Lin		0.0099		17.6	20.0	-12.0	50.0
Methacrylonitrile	Ave	0.0119	0.0119		99.6	100	-0.4	35.0
cis-1,2-Dichloroethene	Ave	0.2929	0.2719		9.28	10.0	-7.2	35.0
Ethyl acetate	Lin		0.0900		20.2	20.0	1.2	35.0
Chlorobromomethane	Ave	0.1017	0.0975		9.59	10.0	-4.1	35.0
Tert-butyl ethyl ether	Ave	0.7559	0.7091		9.38	10.0	-6.2	35.0
Chloroform	Ave	0.5139	0.4571		8.90	10.0	-11.0	20.0
Isobutyl alcohol	Lin1		0.0045		295	250	17.8	50.0
2,2-Dichloropropane	Ave	0.5204	0.5000		9.61	10.0	-3.9	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Lab Sample ID: CCVIS 600-307714/2 Calibration Date: 11/24/2020 13:35

Instrument ID: CHVOAMS07 Calib Start Date: 10/03/2020 07:04

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 10/03/2020 09:25

Lab File ID: a32901A.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrahydrofuran	Ave	0.0262	0.0287		21.9	20.0	9.5	35.0
1,2-Dichloroethane	Ave	0.2435	0.2000		8.22	10.0	-17.8	35.0
1,1,1-Trichloroethane	Ave	0.5024	0.4940		9.83	10.0	-1.7	35.0
1,1-Dichloropropene	Ave	0.4084	0.4005		9.81	10.0	-1.9	35.0
Cyclohexane	Ave	0.4369	0.4842		11.1	10.0	10.8	35.0
Carbon tetrachloride	Ave	0.4326	0.4293		9.92	10.0	-0.8	35.0
Benzene	Ave	1.106	1.104		9.99	10.0	-0.1	35.0
Tert-amyl methyl ether	Ave	0.4995	0.4286		8.58	10.0	-14.2	35.0
Isooctane	Ave	0.8441	1.251		14.8	10.0	48.2*	35.0
Ethyl acrylate	Ave	0.1604	0.1874		11.7	10.0	16.8	35.0
n-Heptane	Ave	0.4329	0.6348		14.7	10.0	46.6*	35.0
Dibromomethane	Lin1		0.0765		8.29	10.0	-17.1	35.0
1,2-Dichloropropane	Ave	0.2627	0.2705		10.3	10.0	3.0	20.0
2-Nitropropane	Qua		0.0295		39.8	20.0	99.2*	35.0
Trichloroethene	Ave	0.3078	0.3141		10.2	10.0	2.1	35.0
Bromodichloromethane	Ave	0.3018	0.2604		8.63	10.0	-13.7	35.0
Methyl methacrylate	Ave	0.0939	0.1110		23.6	20.0	18.2	50.0
1,4-Dioxane	Lin1		0.0006		219	200	9.3	50.0
Methylcyclohexane	Ave	0.4785	0.5289		11.1	10.0	10.5	35.0
cis-1,3-Dichloropropene	Ave	0.8361	0.8364		10.0	10.0	0.0	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0888	0.0970		21.9	20.0	9.2	50.0
trans-1,3-Dichloropropene	Ave	0.5999	0.5660		9.44	10.0	-5.6	35.0
1,1,2-Trichloroethane	Ave	0.3313	0.3008		9.08	10.0	-9.2	35.0
Ethyl methacrylate	Ave	0.3208	0.3385		10.6	10.0	5.5	50.0
Toluene	Ave	1.805	1.820		10.1	10.0	0.9	20.0
1,3-Dichloropropane	Ave	0.6090	0.5420		8.90	10.0	-11.0	35.0
2-Hexanone	Ave	0.1382	0.1780		25.8	20.0	28.8	50.0
Dibromochloromethane	Ave	0.4489	0.4033		8.98	10.0	-10.2	35.0
n-Butyl acetate	Ave	0.3053	0.4895		16.0	10.0	60.3*	35.0
1,2-Dibromoethane	Ave	0.3036	0.2684		8.84	10.0	-11.6	35.0
Tetrachloroethene	Ave	0.6504	0.6596		10.1	10.0	1.4	35.0
1-Chlorohexane	Ave	0.7976	0.9060		11.4	10.0	13.6	35.0
1,1,1,2-Tetrachloroethane	Ave	0.6382	0.6260		9.81	10.0	-1.9	35.0
Chlorobenzene	Ave	1.933	1.854	0.3000	9.59	10.0	-4.1	35.0
Ethylbenzene	Ave	1.079	1.085		10.1	10.0	0.6	20.0
m-Xylene & p-Xylene	Ave	2.737	2.537		9.27	10.0	-7.3	35.0
Bromoform	Ave	0.2504	0.2073	0.1000	8.28	10.0	-17.2	35.0
Styrene	Ave	1.739	1.825		10.5	10.0	5.0	35.0
Cyclohexanone	Lin		0.0081		689	500	37.8*	35.0
1,1,2,2-Tetrachloroethane	Ave	0.3812	0.4448	0.3000	11.7	10.0	16.7	35.0
o-Xylene	Ave	1.296	1.287		9.93	10.0	-0.7	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Lab Sample ID: CCVIS 600-307714/2 Calibration Date: 11/24/2020 13:35

Instrument ID: CHVOAMS07 Calib Start Date: 10/03/2020 07:04

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 10/03/2020 09:25

Lab File ID: a32901A.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,4-Dichloro-2-butene	Lin		0.0751		12.4	10.0	23.8	50.0
1,2,3-Trichloropropane	Ave	0.1080	0.0869		8.05	10.0	-19.5	35.0
Isopropylbenzene	Ave	3.684	3.362		9.13	10.0	-8.7	35.0
Bromobenzene	Ave	0.8229	0.7234		8.79	10.0	-12.1	35.0
N-Propylbenzene	Ave	1.105	1.008		9.13	10.0	-8.7	35.0
2-Chlorotoluene	Ave	0.9270	0.8569		9.24	10.0	-7.6	35.0
4-Chlorotoluene	Ave	2.670	2.271		8.51	10.0	-15.0	35.0
1,3,5-Trimethylbenzene	Ave	3.259	2.790		8.56	10.0	-14.4	35.0
tert-Butylbenzene	Ave	2.760	2.524		9.15	10.0	-8.5	35.0
1,2,4-Trimethylbenzene	Ave	3.145	2.826		8.98	10.0	-10.2	35.0
sec-Butylbenzene	Ave	3.853	3.692		9.58	10.0	-4.2	35.0
Benzyl chloride	Qua		0.4972		14.6	10.0	46.2*	35.0
1,3-Dichlorobenzene	Ave	1.672	1.542		9.23	10.0	-7.7	35.0
4-Isopropyltoluene	Ave	3.504	3.314		9.46	10.0	-5.4	35.0
1,4-Dichlorobenzene	Ave	1.700	1.538		9.05	10.0	-9.5	35.0
1,2,3-Trimethylbenzene	Ave	3.565	2.799		7.85	10.0	-21.5	35.0
1,2-Dichlorobenzene	Ave	1.312	1.153		8.79	10.0	-12.1	35.0
n-Butylbenzene	Ave	2.835	2.693		9.50	10.0	-5.0	35.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0450		10.1	10.0	1.0	35.0
1,3,5-Trichlorobenzene	Ave	1.331	1.038		7.80	10.0	-22.0	35.0
1,2,4-Trichlorobenzene	Ave	0.4692	0.4679		9.97	10.0	-0.3	35.0
Naphthalene	Lin		0.3773		11.1	10.0	11.4	35.0
Hexachlorobutadiene	Ave	0.2026	0.1930		9.53	10.0	-4.7	35.0
1,2,3-Trichlorobenzene	Ave	0.1860	0.1869		10.1	10.0	0.5	35.0
2-Chloroethyl vinyl ether	Qua				0.500	20.0	-100.0*	35.0
Dibromofluoromethane	Ave	0.2358	0.2106		8.93	10.0	-10.7	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2043	0.1517		7.43	10.0	-25.7	35.0
Toluene-d8 (Surr)	Ave	2.383	2.324		9.75	10.0	-2.5	35.0
4-Bromofluorobenzene	Ave	0.9164	0.7195		7.85	10.0	-21.5	35.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-307714/6

Matrix: Water Lab File ID: a32905.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/24/2020 15:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307714 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.000192	U	0.00100	0.000192
127-18-4	Tetrachloroethene	0.000333	U	0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	80		50-134
460-00-4	4-Bromofluorobenzene	90		67-139
1868-53-7	Dibromofluoromethane	94		62-130
2037-26-5	Toluene-d8 (Surr)	89		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-307714/3

Matrix: Water Lab File ID: a32902.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/24/2020 13:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307714 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.01018		0.00100	0.000192
127-18-4	Tetrachloroethene	0.009883		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78		50-134
460-00-4	4-Bromofluorobenzene	85		67-139
1868-53-7	Dibromofluoromethane	95		62-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 600-307714/4

Matrix: Water Lab File ID: a32903.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/24/2020 14:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 307714 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.009431		0.00100	0.000192
127-18-4	Tetrachloroethene	0.009430		0.00100	0.000333

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	80		50-134
460-00-4	4-Bromofluorobenzene	87		67-139
1868-53-7	Dibromofluoromethane	96		62-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Instrument ID: CHVOAMS07 Start Date: 10/03/2020 06:35

Analysis Batch Number: 304732 End Date: 10/03/2020 18:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-304732/1		10/03/2020 06:35	1	a27700.d	DB-VRX 60 0.25(mm)
IC 600-304732/2		10/03/2020 07:04	1	a27701.d	DB-VRX 60 0.25(mm)
IC 600-304732/3		10/03/2020 07:27	1	a27702.d	DB-VRX 60 0.25(mm)
IC 600-304732/4		10/03/2020 07:52	1	a27703.d	DB-VRX 60 0.25(mm)
IC 600-304732/5		10/03/2020 08:16	1	a27704.d	DB-VRX 60 0.25(mm)
ICIS 600-304732/6		10/03/2020 08:39	1	a27705.d	DB-VRX 60 0.25(mm)
IC 600-304732/7		10/03/2020 09:02	1	a27706.d	DB-VRX 60 0.25(mm)
IC 600-304732/8		10/03/2020 09:25	1	a27707.d	DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 10:15	1		DB-VRX 60 0.25(mm)
ICV 600-304732/11		10/03/2020 11:02	1	a27711.d	DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 11:02	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 11:48	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 12:11	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 12:34	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 12:57	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 13:20	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 13:43	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 14:07	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 14:30	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 14:53	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 15:16	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 15:39	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 16:03	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 16:26	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 16:49	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 17:12	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 17:35	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 17:59	1		DB-VRX 60 0.25(mm)
ZZZZZ		10/03/2020 18:22	1		DB-VRX 60 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Instrument ID: CHVOAMS07 Start Date: 11/24/2020 12:05

Analysis Batch Number: 307714 End Date: 11/24/2020 23:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-307714/1		11/24/2020 12:05	1	a32900.d	DB-VRX 60 0.25(mm)
CCVIS 600-307714/2		11/24/2020 13:35	1	a32901A.d	DB-VRX 60 0.25(mm)
LCS 600-307714/3		11/24/2020 13:58	1	a32902.d	DB-VRX 60 0.25(mm)
LCSD 600-307714/4		11/24/2020 14:22	1	a32903.d	DB-VRX 60 0.25(mm)
MB 600-307714/6		11/24/2020 15:09	1	a32905.d	DB-VRX 60 0.25(mm)
600-213972-1	ARTESIA-TB02-112020	11/24/2020 16:43	1	a32909.d	DB-VRX 60 0.25(mm)
ZZZZZ		11/24/2020 17:07	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/24/2020 17:31	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/24/2020 17:54	1		DB-VRX 60 0.25(mm)
ZZZZZ		11/24/2020 18:18	10		DB-VRX 60 0.25(mm)
ZZZZZ		11/24/2020 18:42	10		DB-VRX 60 0.25(mm)
ZZZZZ		11/24/2020 19:05	10		DB-VRX 60 0.25(mm)
ZZZZZ		11/24/2020 19:29	10		DB-VRX 60 0.25(mm)
ZZZZZ		11/24/2020 19:52	10		DB-VRX 60 0.25(mm)
600-213972-2	ARTESIA-SB38-112020	11/24/2020 22:58	1	a32925.d	DB-VRX 60 0.25(mm)
600-213972-3	ARTESIA-SB47-112020	11/24/2020 23:21	1	a32926.d	DB-VRX 60 0.25(mm)
600-213972-4	ARTESIA-SB46-112020	11/24/2020 23:44	1	a32927.d	DB-VRX 60 0.25(mm)

8260B

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Batch Number: 304732 Batch Start Date: 10/03/20 06:35 Batch Analyst: Shen, Wei

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFB 00319	EOxideLcs 00188	EOxideStd 00188	VOAIS50PPM 00288
BFB 600-304732/1		8260B		20 mL	20 mL	2 uL			
IC 600-304732/2		8260B		20 mL	20 mL			0.2 uL	5 uL
IC 600-304732/3		8260B		20 mL	20 mL			0.4 uL	5 uL
IC 600-304732/4		8260B		20 mL	20 mL			0.8 uL	5 uL
IC 600-304732/5		8260B		20 mL	20 mL			2 uL	5 uL
ICIS 600-304732/6		8260B		20 mL	20 mL			4 uL	5 uL
IC 600-304732/7		8260B		20 mL	20 mL			8 uL	5 uL
IC 600-304732/8		8260B		20 mL	20 mL			20 uL	5 uL
ICV 600-304732/11		8260B		20 mL	20 mL		4 uL		5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOALCSGASPT 00401	VOALCSPT2 00176	VOASS50PPM 00326	VOASTDGASPT 00401	VOASTDPT2 00176	
BFB 600-304732/1		8260B							
IC 600-304732/2		8260B					0.2 uL	0.2 uL	
IC 600-304732/3		8260B					0.4 uL	0.4 uL	
IC 600-304732/4		8260B					0.8 uL	0.8 uL	
IC 600-304732/5		8260B					2 uL	2 uL	
ICIS 600-304732/6		8260B					4 uL	4 uL	
IC 600-304732/7		8260B					8 uL	8 uL	
IC 600-304732/8		8260B					20 uL	20 uL	
ICV 600-304732/11		8260B		4 uL	4 uL	5 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Batch Number: 307714 Batch Start Date: 11/24/20 12:05 Batch Analyst: Vela, Kenneth L

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFB 00323	EOxideLcs 00192	EOxideStd 00192
BFB 600-307714/1		8260B		20 mL	20 mL		2 uL		
CCVIS 600-307714/2		8260B		20 mL	20 mL				4 uL
LCS 600-307714/3		8260B		20 mL	20 mL			4 uL	
LCSD 600-307714/4		8260B		20 mL	20 mL			4 uL	
MB 600-307714/6		8260B		20 mL	20 mL				
600-213972-B-1	ARTESIA-TB02-112020	8260B	T	20 mL	20 mL	2 SU			
600-213972-B-2	ARTESIA-SB38-112020	8260B	T	20 mL	20 mL	2 SU			
600-213972-B-3	ARTESIA-SB47-112020	8260B	T	20 mL	20 mL	2 SU			
600-213972-B-4	ARTESIA-SB46-112020	8260B	T	20 mL	20 mL	2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOAIS50PPM 00292	VOALCSGASPT 00409	VOALCSPT2 00180	VOASS50PPM 00330	VOASTDGASPT 00409	VOASTDPT2 00180
BFB 600-307714/1		8260B							
CCVIS 600-307714/2		8260B		5 uL				4 uL	4 uL
LCS 600-307714/3		8260B		5 uL	4 uL	4 uL	5 uL		
LCSD 600-307714/4		8260B		5 uL	4 uL	4 uL	5 uL		
MB 600-307714/6		8260B		5 uL			5 uL		
600-213972-B-1	ARTESIA-TB02-112020	8260B	T	5 uL			5 uL		
600-213972-B-2	ARTESIA-SB38-112020	8260B	T	5 uL			5 uL		
600-213972-B-3	ARTESIA-SB47-112020	8260B	T	5 uL			5 uL		
600-213972-B-4	ARTESIA-SB46-112020	8260B	T	5 uL			5 uL		

Batch Notes	
pH Indicator ID	HC991818

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Houston Job No.: 600-213972-1

SDG No.:

Batch Number: 307714 Batch Start Date: 11/24/20 12:05 Batch Analyst: Vela, Kenneth L

Batch Method: 8260B Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Released to Imaging: 6/9/2021 9:44:58 AM

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: A Forsberg	Lab PM: McDaniel, Bethany A	Carrier Tracking No(s): Fed Ex 162544456560	COC No: 600-79215-21371.2
Client Contact: John Ynfante	Phone: 5059181800	E-Mail: Bethany.McDaniel@Eurofinset.com		Page: Page 1 of __
Company: Jacobs Engineering Group, Inc.				Job #:
Address: 14701 St. Mary's Lane Suite 300	Due Date Requested:			
City: Houston	TAT Requested (days): 5 day RUSH			
State, Zip: TX, 77079				
Phone:	PO #: 148018479			
Email: John.Ynfante@jacobs.com	WO #: D3151100.C.CS.TPE.AR.20-01-02			
Project Name: Dowell - Artesia DPT Downgradient GW Sam	Project #: 60004334			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL - 8260-11DCE and PCE	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
ARTESIA-TB02-112020	11/20/20	0800	G	Water	N	N	X	2	TRIP BLANK
ARTESIA-SB38-112020		0805	G	Water	N	N	X	2	Bubbles.
ARTESIA-SB47-112020		1000	G	Water	N	N	X	3	Hold for later analysis
ARTESIA-SB46-112020		1315	G	Water	N	N	Y	3	Hold for later analysis
				Water					
				Water					
				Water					

600-213972 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level 3

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		11/20/20 1700	Jacobs	YGR	11/21/20 1115	EA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Loc: 600
213972

eurofins | Environment Testing TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

'20 NOV 21 11:15

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Jacobs

UNPACKED BY: YR CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
8568	Y / N	Y / N	1.7	680	+0.1	1.8
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				YR 11/21/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☐NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☑YES ☐NO ☐NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

YR 11/21/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: Jacobs Engineering Group, Inc. Job Number: 600-213972-1

Login Number: 213972 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Released to Imaging: 6/9/2021 9:44:58 AM

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-213973-1
Client Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

For:
Jacobs Engineering Group, Inc.
3721 Rutledge Rd NE
Suite B-1
Albuquerque, New Mexico 87109

Attn: Aleeca Forsberg

Bethany McDaniel

Authorized for release by:
12/1/2020 9:41:43 PM

Bethany McDaniel, Senior Project Manager
(713)358-2005
Bethany.McDaniel@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Jacobs Engineering Group, Inc.
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Laboratory Job ID: 600-213973-1

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Method Summary 4
Sample Summary 5
Client Sample Results 6
Definitions/Glossary 8
Surrogate Summary 9
QC Sample Results 11
QC Association Summary 16
Lab Chronicle 18
Certification Summary 19
Chain of Custody 20
Receipt Checklists 22

Case Narrative

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Job ID: 600-213973-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-213973-1

Comments
No additional comments.

Receipt
The sample was received on 11/21/2020 11:15 AM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0º C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 600-307874 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-307874/3).

Method 8260B: The following sample was diluted due to the nature of the sample matrix: ARTESIA-SOILIDW-112020 (600-213973-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 6010B: The method blank for batch 600-307800 contained Silver above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The leachate blank for batch 600-307748 contained Silver and Barium above the method detection limit. These target analytes concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Released to Imaging: 6/9/2021 9:44:58 AM

Method Summary

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
7470A	Mercury (CVAA)	SW846	TAL HOU
1311	TCLP Extraction	SW846	TAL HOU
3010A	Preparation, Total Metals	SW846	TAL HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL HOU
5030B	Purge and Trap	SW846	TAL HOU
7470A	Preparation, Mercury	SW846	TAL HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Jacobs Engineering Group, Inc.
Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-213973-1	ARTESIA-SOILIDW-112020	Solid	11/20/20 15:00	11/21/20 11:15	

Client Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Client Sample ID: ARTESIA-SOILIDW-112020 **Lab Sample ID: 600-213973-1**
Date Collected: 11/20/20 15:00 **Matrix: Solid**
Date Received: 11/21/20 11:15

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.0152	U	0.100	0.0152	mg/L			11/30/20 19:20	20
1,2-Dichloroethane	0.0202	U	0.100	0.0202	mg/L			11/30/20 19:20	20
1,4-Dichlorobenzene	0.0182	U	0.100	0.0182	mg/L			11/30/20 19:20	20
2-Butanone (MEK)	0.0314	U	0.200	0.0314	mg/L			11/30/20 19:20	20
Benzene	0.0112	U	0.100	0.0112	mg/L			11/30/20 19:20	20
Carbon tetrachloride	0.0184	U	0.100	0.0184	mg/L			11/30/20 19:20	20
Chlorobenzene	0.0164	U	0.100	0.0164	mg/L			11/30/20 19:20	20
Chloroform	0.0164	U	0.200	0.0164	mg/L			11/30/20 19:20	20
Tetrachloroethene	0.0248	U	0.100	0.0248	mg/L			11/30/20 19:20	20
Trichloroethene	0.0316	U	0.100	0.0316	mg/L			11/30/20 19:20	20
Vinyl chloride	0.0170	U	0.100	0.0170	mg/L			11/30/20 19:20	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*50 - 134*		*11/30/20 19:20*	*20*
4-Bromofluorobenzene	*101*		*67 - 139*		*11/30/20 19:20*	*20*
Dibromofluoromethane	*106*		*62 - 130*		*11/30/20 19:20*	*20*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/30/20 19:20*	*20*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00890	U	0.0500	0.00890	mg/L		11/27/20 08:49	11/27/20 19:41	1
2,4,5-Trichlorophenol	0.0136	U	0.0500	0.0136	mg/L		11/27/20 08:49	11/27/20 19:41	1
2,4,6-Trichlorophenol	0.0129	U	0.0500	0.0129	mg/L		11/27/20 08:49	11/27/20 19:41	1
2,4-Dinitrotoluene	0.0132	U	0.0500	0.0132	mg/L		11/27/20 08:49	11/27/20 19:41	1
2-Methylphenol	0.00905	U	0.0500	0.00905	mg/L		11/27/20 08:49	11/27/20 19:41	1
3 & 4 Methylphenol	0.00940	U	0.100	0.00940	mg/L		11/27/20 08:49	11/27/20 19:41	1
Hexachlorobenzene	0.0130	U	0.0500	0.0130	mg/L		11/27/20 08:49	11/27/20 19:41	1
Hexachlorobutadiene	0.0106	U	0.0500	0.0106	mg/L		11/27/20 08:49	11/27/20 19:41	1
Hexachloroethane	0.0110	U	0.0500	0.0110	mg/L		11/27/20 08:49	11/27/20 19:41	1
Nitrobenzene	0.0124	U	0.0500	0.0124	mg/L		11/27/20 08:49	11/27/20 19:41	1
Pentachlorophenol	0.0231	U	0.250	0.0231	mg/L		11/27/20 08:49	11/27/20 19:41	1
Pyridine	0.0108	U	0.0500	0.0108	mg/L		11/27/20 08:49	11/27/20 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*65*		*12 - 138*	*11/27/20 08:49*	*11/27/20 19:41*	*1*
2-Fluorobiphenyl	*69*		*41 - 130*	*11/27/20 08:49*	*11/27/20 19:41*	*1*
2-Fluorophenol	*57*		*10 - 130*	*11/27/20 08:49*	*11/27/20 19:41*	*1*
Nitrobenzene-d5	*63*		*35 - 130*	*11/27/20 08:49*	*11/27/20 19:41*	*1*
Phenol-d5 (Surr)	*60*		*10 - 130*	*11/27/20 08:49*	*11/27/20 19:41*	*1*
Terphenyl-d14	*96*		*43 - 130*	*11/27/20 08:49*	*11/27/20 19:41*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**0.0180**	**J B**	0.100	0.0129	mg/L		11/27/20 06:00	11/27/20 13:39	1
Arsenic	0.0466	U	0.100	0.0466	mg/L		11/27/20 06:00	11/27/20 13:39	1
Barium	**0.193**	**J B**	0.200	0.0162	mg/L		11/27/20 06:00	11/27/20 13:39	1
Cadmium	0.0111	U	0.0500	0.0111	mg/L		11/27/20 06:00	11/27/20 13:39	1
Chromium	0.0159	U	0.100	0.0159	mg/L		11/27/20 06:00	11/27/20 13:39	1
Lead	0.0219	U	0.100	0.0219	mg/L		11/27/20 06:00	11/27/20 13:39	1
Selenium	0.0589	U	0.400	0.0589	mg/L		11/27/20 06:00	11/27/20 13:39	1

Client Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Client Sample ID: ARTESIA-SOILIDW-112020 **Lab Sample ID: 600-213973-1**
Date Collected: 11/20/20 15:00 **Matrix: Solid**
Date Received: 11/21/20 11:15

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000103	U	0.000250	0.000103	mg/L		11/27/20 07:56	11/30/20 12:31	1

Definitions/Glossary

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Surrogate Summary

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(50-134)	(67-139)	(62-130)	(70-130)
LCS 600-307874/4	Lab Control Sample	108	92	112	102
LCSD 600-307874/5	Lab Control Sample Dup	104	106	103	94
MB 600-307874/7	Method Blank	100	97	102	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(50-134)	(67-139)	(62-130)	(70-130)
600-213973-1	ARTESIA-SOILIDW-112020	108	101	106	100
LB 600-307873/1-A	Method Blank	106	91	105	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(12-138)	(41-130)	(10-130)	(35-130)	(10-130)	(43-130)
LCS 600-307811/2-A	Lab Control Sample	88	72	59	66	69	98
MB 600-307811/1-A	Method Blank	71	82	68	72	70	108

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(12-138)	(41-130)	(10-130)	(35-130)	(10-130)	(43-130)
600-213973-1	ARTESIA-SOILIDW-112020	65	69	57	63	60	96
LB 600-307748/1-D	Method Blank	70	74	63	67	64	107

Surrogate Legend

TBP = 2,4,6-Tribromophenol

Surrogate Summary

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1

Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14

QC Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-307874/7 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 307874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.000760	U	0.00500	0.000760	mg/L			11/30/20 15:42	1
1,2-Dichloroethane	0.00101	U	0.00500	0.00101	mg/L			11/30/20 15:42	1
1,4-Dichlorobenzene	0.000910	U	0.00500	0.000910	mg/L			11/30/20 15:42	1
2-Butanone (MEK)	0.00157	U	0.0100	0.00157	mg/L			11/30/20 15:42	1
Benzene	0.000560	U	0.00500	0.000560	mg/L			11/30/20 15:42	1
Carbon tetrachloride	0.000920	U	0.00500	0.000920	mg/L			11/30/20 15:42	1
Chlorobenzene	0.000820	U	0.00500	0.000820	mg/L			11/30/20 15:42	1
Chloroform	0.000820	U	0.0100	0.000820	mg/L			11/30/20 15:42	1
Tetrachloroethene	0.00124	U	0.00500	0.00124	mg/L			11/30/20 15:42	1
Trichloroethene	0.00158	U	0.00500	0.00158	mg/L			11/30/20 15:42	1
Vinyl chloride	0.000850	U	0.00500	0.000850	mg/L			11/30/20 15:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*50 - 134*		*11/30/20 15:42*	*1*
4-Bromofluorobenzene	*97*		*67 - 139*		*11/30/20 15:42*	*1*
Dibromofluoromethane	*102*		*62 - 130*		*11/30/20 15:42*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*11/30/20 15:42*	*1*

Lab Sample ID: LCS 600-307874/4 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 307874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0500	0.05103		mg/L		102	67 - 134
1,2-Dichloroethane	0.0500	0.05510		mg/L		110	62 - 144
1,4-Dichlorobenzene	0.0500	0.04345		mg/L		87	70 - 130
2-Butanone (MEK)	0.100	0.08523		mg/L		85	34 - 140
Benzene	0.0500	0.04494		mg/L		90	70 - 131
Carbon tetrachloride	0.0500	0.06652		mg/L		133	68 - 140
Chlorobenzene	0.0500	0.04688		mg/L		94	70 - 130
Chloroform	0.0500	0.05396		mg/L		108	70 - 131
Tetrachloroethene	0.0500	0.05226		mg/L		105	57 - 130
Trichloroethene	0.0500	0.05115		mg/L		102	70 - 130
Vinyl chloride	0.0500	0.05776		mg/L		116	55 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*50 - 134*
4-Bromofluorobenzene	*92*		*67 - 139*
Dibromofluoromethane	*112*		*62 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 600-307874/5 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 307874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	0.0500	0.04347		mg/L		87	67 - 134	16	20
1,2-Dichloroethane	0.0500	0.05196		mg/L		104	62 - 144	6	20

QC Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 600-307874/5 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 307874

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			0.0500	0.04391		mg/L		88	70 - 130	1	20
2-Butanone (MEK)			0.100	0.09147		mg/L		91	34 - 140	7	20
Benzene			0.0500	0.04205		mg/L		84	70 - 131	7	20
Carbon tetrachloride			0.0500	0.05937		mg/L		119	68 - 140	11	20
Chlorobenzene			0.0500	0.04417		mg/L		88	70 - 130	6	20
Chloroform			0.0500	0.04795		mg/L		96	70 - 131	12	20
Tetrachloroethene			0.0500	0.04705		mg/L		94	57 - 130	10	20
Trichloroethene			0.0500	0.04748		mg/L		95	70 - 130	7	20
Vinyl chloride			0.0500	0.05400		mg/L		108	55 - 150	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*50 - 134*
4-Bromofluorobenzene	*106*		*67 - 139*
Dibromofluoromethane	*103*		*62 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LB 600-307873/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: TCLP**
Analysis Batch: 307874

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.000760	U	0.00500	0.000760	mg/L			11/30/20 16:07	1
1,2-Dichloroethane	0.00101	U	0.00500	0.00101	mg/L			11/30/20 16:07	1
1,4-Dichlorobenzene	0.000910	U	0.00500	0.000910	mg/L			11/30/20 16:07	1
2-Butanone (MEK)	0.00157	U	0.0100	0.00157	mg/L			11/30/20 16:07	1
Benzene	0.000560	U	0.00500	0.000560	mg/L			11/30/20 16:07	1
Carbon tetrachloride	0.000920	U	0.00500	0.000920	mg/L			11/30/20 16:07	1
Chlorobenzene	0.000820	U	0.00500	0.000820	mg/L			11/30/20 16:07	1
Chloroform	0.000820	U	0.0100	0.000820	mg/L			11/30/20 16:07	1
Tetrachloroethene	0.00124	U	0.00500	0.00124	mg/L			11/30/20 16:07	1
Trichloroethene	0.00158	U	0.00500	0.00158	mg/L			11/30/20 16:07	1
Vinyl chloride	0.000850	U	0.00500	0.000850	mg/L			11/30/20 16:07	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*50 - 134*		*11/30/20 16:07*	*1*
4-Bromofluorobenzene	*91*		*67 - 139*		*11/30/20 16:07*	*1*
Dibromofluoromethane	*105*		*62 - 130*		*11/30/20 16:07*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*11/30/20 16:07*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-307811/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 307826 **Prep Batch: 307811**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00178	U	0.0100	0.00178	mg/L		11/27/20 08:48	11/27/20 15:18	1
2,4,5-Trichlorophenol	0.00271	U	0.0100	0.00271	mg/L		11/27/20 08:48	11/27/20 15:18	1

QC Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-307811/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 307826 **Prep Batch: 307811**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	0.00259	U	0.0100	0.00259	mg/L		11/27/20 08:48	11/27/20 15:18	1
2,4-Dinitrotoluene	0.00263	U	0.0100	0.00263	mg/L		11/27/20 08:48	11/27/20 15:18	1
2-Methylphenol	0.00181	U	0.0100	0.00181	mg/L		11/27/20 08:48	11/27/20 15:18	1
3 & 4 Methylphenol	0.00188	U	0.0200	0.00188	mg/L		11/27/20 08:48	11/27/20 15:18	1
Hexachlorobenzene	0.00259	U	0.0100	0.00259	mg/L		11/27/20 08:48	11/27/20 15:18	1
Hexachlorobutadiene	0.00212	U	0.0100	0.00212	mg/L		11/27/20 08:48	11/27/20 15:18	1
Hexachloroethane	0.00220	U	0.0100	0.00220	mg/L		11/27/20 08:48	11/27/20 15:18	1
Nitrobenzene	0.00248	U	0.0100	0.00248	mg/L		11/27/20 08:48	11/27/20 15:18	1
Pentachlorophenol	0.00462	U	0.0500	0.00462	mg/L		11/27/20 08:48	11/27/20 15:18	1
Pyridine	0.00216	U	0.0100	0.00216	mg/L		11/27/20 08:48	11/27/20 15:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*12 - 138*	*11/27/20 08:48*	*11/27/20 15:18*	*1*
2-Fluorobiphenyl	*82*		*41 - 130*	*11/27/20 08:48*	*11/27/20 15:18*	*1*
2-Fluorophenol	*68*		*10 - 130*	*11/27/20 08:48*	*11/27/20 15:18*	*1*
Nitrobenzene-d5	*72*		*35 - 130*	*11/27/20 08:48*	*11/27/20 15:18*	*1*
Phenol-d5 (Surr)	*70*		*10 - 130*	*11/27/20 08:48*	*11/27/20 15:18*	*1*
Terphenyl-d14	*108*		*43 - 130*	*11/27/20 08:48*	*11/27/20 15:18*	*1*

Lab Sample ID: LCS 600-307811/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 307826 **Prep Batch: 307811**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.03295		mg/L		66	37 - 130
2,4,5-Trichlorophenol	0.0500	0.03764		mg/L		75	51 - 130
2,4,6-Trichlorophenol	0.0500	0.04094		mg/L		82	49 - 130
2,4-Dinitrotoluene	0.0500	0.04378		mg/L		88	60 - 130
2-Methylphenol	0.0500	0.03480		mg/L		70	33 - 130
3 & 4 Methylphenol	0.0500	0.03571		mg/L		71	29 - 130
Hexachlorobenzene	0.0500	0.04145		mg/L		83	61 - 130
Hexachlorobutadiene	0.0500	0.03663		mg/L		73	52 - 130
Hexachloroethane	0.0500	0.03413		mg/L		68	52 - 130
Nitrobenzene	0.0500	0.03287		mg/L		66	55 - 130
Pentachlorophenol	0.100	0.09419		mg/L		94	36 - 130
Pyridine	0.100	0.02568		mg/L		26	10 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*88*		*12 - 138*
2-Fluorobiphenyl	*72*		*41 - 130*
2-Fluorophenol	*59*		*10 - 130*
Nitrobenzene-d5	*66*		*35 - 130*
Phenol-d5 (Surr)	*69*		*10 - 130*
Terphenyl-d14	*98*		*43 - 130*

QC Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 600-307748/1-D **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: TCLP**
Analysis Batch: 307826 **Prep Batch: 307811**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00890	U	0.0500	0.00890	mg/L		11/27/20 08:49	11/27/20 19:17	1
2,4,5-Trichlorophenol	0.0136	U	0.0500	0.0136	mg/L		11/27/20 08:49	11/27/20 19:17	1
2,4,6-Trichlorophenol	0.0129	U	0.0500	0.0129	mg/L		11/27/20 08:49	11/27/20 19:17	1
2,4-Dinitrotoluene	0.0132	U	0.0500	0.0132	mg/L		11/27/20 08:49	11/27/20 19:17	1
2-Methylphenol	0.00905	U	0.0500	0.00905	mg/L		11/27/20 08:49	11/27/20 19:17	1
3 & 4 Methylphenol	0.00940	U	0.100	0.00940	mg/L		11/27/20 08:49	11/27/20 19:17	1
Hexachlorobenzene	0.0130	U	0.0500	0.0130	mg/L		11/27/20 08:49	11/27/20 19:17	1
Hexachlorobutadiene	0.0106	U	0.0500	0.0106	mg/L		11/27/20 08:49	11/27/20 19:17	1
Hexachloroethane	0.0110	U	0.0500	0.0110	mg/L		11/27/20 08:49	11/27/20 19:17	1
Nitrobenzene	0.0124	U	0.0500	0.0124	mg/L		11/27/20 08:49	11/27/20 19:17	1
Pentachlorophenol	0.0231	U	0.250	0.0231	mg/L		11/27/20 08:49	11/27/20 19:17	1
Pyridine	0.0108	U	0.0500	0.0108	mg/L		11/27/20 08:49	11/27/20 19:17	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*12 - 138*	*11/27/20 08:49*	*11/27/20 19:17*	*1*
2-Fluorobiphenyl	*74*		*41 - 130*	*11/27/20 08:49*	*11/27/20 19:17*	*1*
2-Fluorophenol	*63*		*10 - 130*	*11/27/20 08:49*	*11/27/20 19:17*	*1*
Nitrobenzene-d5	*67*		*35 - 130*	*11/27/20 08:49*	*11/27/20 19:17*	*1*
Phenol-d5 (Surr)	*64*		*10 - 130*	*11/27/20 08:49*	*11/27/20 19:17*	*1*
Terphenyl-d14	*107*		*43 - 130*	*11/27/20 08:49*	*11/27/20 19:17*	*1*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-307800/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 307831 **Prep Batch: 307800**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.002000	J	0.0100	0.00129	mg/L		11/27/20 06:00	11/27/20 12:41	1
Arsenic	0.00466	U	0.0100	0.00466	mg/L		11/27/20 06:00	11/27/20 12:41	1
Barium	0.00162	U	0.0200	0.00162	mg/L		11/27/20 06:00	11/27/20 12:41	1
Cadmium	0.00111	U	0.00500	0.00111	mg/L		11/27/20 06:00	11/27/20 12:41	1
Chromium	0.00159	U	0.0100	0.00159	mg/L		11/27/20 06:00	11/27/20 12:41	1
Lead	0.00219	U	0.0100	0.00219	mg/L		11/27/20 06:00	11/27/20 12:41	1
Selenium	0.00589	U	0.0400	0.00589	mg/L		11/27/20 06:00	11/27/20 12:41	1

Lab Sample ID: LCS 600-307800/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 307831 **Prep Batch: 307800**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.250	0.2578		mg/L		103	80 - 120
Arsenic	1.00	0.9989		mg/L		100	80 - 120
Barium	1.00	1.092		mg/L		109	80 - 120
Cadmium	1.00	1.017		mg/L		102	80 - 120
Chromium	1.00	1.020		mg/L		102	80 - 120
Lead	1.00	0.9770		mg/L		98	80 - 120
Selenium	1.00	1.027		mg/L		103	80 - 120

QC Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 600-307748/1-B **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: TCLP**
Analysis Batch: 307831 **Prep Batch: 307800**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.01600	J	0.100	0.0129	mg/L		11/27/20 06:00	11/27/20 12:45	1
Arsenic	0.0466	U	0.100	0.0466	mg/L		11/27/20 06:00	11/27/20 12:45	1
Barium	0.01900	J	0.200	0.0162	mg/L		11/27/20 06:00	11/27/20 12:45	1
Cadmium	0.0111	U	0.0500	0.0111	mg/L		11/27/20 06:00	11/27/20 12:45	1
Chromium	0.0159	U	0.100	0.0159	mg/L		11/27/20 06:00	11/27/20 12:45	1
Lead	0.0219	U	0.100	0.0219	mg/L		11/27/20 06:00	11/27/20 12:45	1
Selenium	0.0589	U	0.400	0.0589	mg/L		11/27/20 06:00	11/27/20 12:45	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 600-307805/7-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 307884 **Prep Batch: 307805**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000103	U	0.000250	0.000103	mg/L		11/27/20 07:56	11/30/20 12:14	1

Lab Sample ID: LCS 600-307805/8-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 307884 **Prep Batch: 307805**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00375	0.003682		mg/L		98	70 - 130

Lab Sample ID: LB 600-307748/1-C **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: TCLP**
Analysis Batch: 307884 **Prep Batch: 307805**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000103	U	0.000250	0.000103	mg/L		11/27/20 07:56	11/30/20 12:18	1

QC Association Summary

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

GC/MS VOA

Leach Batch: 307873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-213973-1	ARTESIA-SOILIDW-112020	TCLP	Solid	1311	
LB 600-307873/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 307874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-213973-1	ARTESIA-SOILIDW-112020	TCLP	Solid	8260B	307873
LB 600-307873/1-A	Method Blank	TCLP	Solid	8260B	307873
MB 600-307874/7	Method Blank	Total/NA	Solid	8260B	
LCS 600-307874/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-307874/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 307748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-213973-1	ARTESIA-SOILIDW-112020	TCLP	Solid	1311	
LB 600-307748/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 307811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-213973-1	ARTESIA-SOILIDW-112020	TCLP	Solid	3510C	307748
LB 600-307748/1-D	Method Blank	TCLP	Solid	3510C	307748
MB 600-307811/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 600-307811/2-A	Lab Control Sample	Total/NA	Solid	3510C	

Analysis Batch: 307826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-213973-1	ARTESIA-SOILIDW-112020	TCLP	Solid	8270C	307811
LB 600-307748/1-D	Method Blank	TCLP	Solid	8270C	307811
MB 600-307811/1-A	Method Blank	Total/NA	Solid	8270C	307811
LCS 600-307811/2-A	Lab Control Sample	Total/NA	Solid	8270C	307811

Metals

Leach Batch: 307748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-213973-1	ARTESIA-SOILIDW-112020	TCLP	Solid	1311	
LB 600-307748/1-B	Method Blank	TCLP	Solid	1311	
LB 600-307748/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 307800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-213973-1	ARTESIA-SOILIDW-112020	TCLP	Solid	3010A	307748
LB 600-307748/1-B	Method Blank	TCLP	Solid	3010A	307748
MB 600-307800/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 600-307800/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 307805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-213973-1	ARTESIA-SOILIDW-112020	TCLP	Solid	7470A	307748
LB 600-307748/1-C	Method Blank	TCLP	Solid	7470A	307748
MB 600-307805/7-A	Method Blank	Total/NA	Solid	7470A	

QC Association Summary

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Metals (Continued)

Prep Batch: 307805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-307805/8-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 307831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-213973-1	ARTESIA-SOILIDW-112020	TCLP	Solid	6010B	307800
LB 600-307748/1-B	Method Blank	TCLP	Solid	6010B	307800
MB 600-307800/1-A	Method Blank	Total/NA	Solid	6010B	307800
LCS 600-307800/2-A	Lab Control Sample	Total/NA	Solid	6010B	307800

Analysis Batch: 307884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-213973-1	ARTESIA-SOILIDW-112020	TCLP	Solid	7470A	307805
LB 600-307748/1-C	Method Blank	TCLP	Solid	7470A	307805
MB 600-307805/7-A	Method Blank	Total/NA	Solid	7470A	307805
LCS 600-307805/8-A	Lab Control Sample	Total/NA	Solid	7470A	307805

Lab Chronicle

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Client Sample ID: ARTESIA-SOILIDW-112020 Lab Sample ID: 600-213973-1

Date Collected: 11/20/20 15:00 **Matrix: Solid**
Date Received: 11/21/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.0 g	500 mL	307873	11/27/20 15:30	B1K	TAL HOU
TCLP	Analysis	8260B		20	5 mL	5 mL	307874	11/30/20 19:20	KLV	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	307748	11/24/20 17:00	B1K	TAL HOU
TCLP	Prep	3510C			200 mL	1.0 mL	307811	11/27/20 08:49	LER	TAL HOU
TCLP	Analysis	8270C		1			307826	11/27/20 19:41	PXS	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	307748	11/24/20 17:00	B1K	TAL HOU
TCLP	Prep	3010A			5 mL	50 mL	307800	11/27/20 06:00	KP1	TAL HOU
TCLP	Analysis	6010B		1			307831	11/27/20 13:39	KP1	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	307748	11/24/20 17:00	B1K	TAL HOU
TCLP	Prep	7470A			40 mL	50 mL	307805	11/27/20 07:56	SOT	TAL HOU
TCLP	Analysis	7470A		1			307884	11/30/20 12:31	SOT	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: Jacobs Engineering Group, Inc. Job ID: 600-213973-1
Project/Site: Dowell - Artesia Downgradient Soil WC 11-20-20

Laboratory: Eurofins TestAmerica, Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	20-052-0	08-04-21
Louisiana	NELAP	01967	06-30-21
Oklahoma	State	2020-033	08-31-21
Texas	NELAP	T104704223-20-28	11-01-21
USDA	US Federal Programs	P330-18-00130	04-30-21

Released to Imaging: 6/9/2021 9:44:58 AM
Received by OCD: 4/1/2021 10:42:57 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: AForsberg	Lab PM: McDaniel, Bethany A	Carrier Tracking No(s):	COC No: 600-79985-21587.1
Client Contact: Aleeca Forsberg	Phone: 5059181800	E-Mail: Bethany.McDaniel@Eurofinset.com		Page: Page 1 of 1
Company: CH2M Hill, Inc.				Job #:
Address: 3721 Rutledge Rd. NE Suite B-1	Due Date Requested:			
City: Albuquerque	TAT Requested (days): Std			
State, Zip: NM, 87109				
Phone:	PO #: 684703.17.04.02			
Email: aleeca.forsberg@jacobs.com	WO #: PN D3151100.C.CS.TPE.AR.20-01-02			
Project Name: DPT Downgradient Soil Waste characteriza	Project #: 60004334			
Site:	SSOW#:			

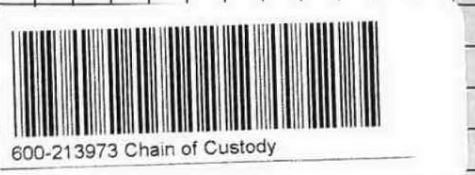
Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B, 7470A, 8260B, 8270C- TCLP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
Artesia-SOILDW-112020	11/20/20	1500	G	Solid	N	N	X		



Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/20/20 1700	JAI		11/21/20 1115	ETA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica Houston

Loc: 600
213973

eurofins | Environment Testing TestAmerica

Sample Receipt Checklist

'20 NOV 21 11:15

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: CH2M Hill

UNPACKED BY: JP CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
9322	Y / N	Y / N	0.9	680	+0.1	1.0
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				JR 11/21/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot # HC849161 VOA headspace acceptable (5-6mm): ☐YES ☐NO ☑NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

JR 11/21/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: Jacobs Engineering Group, Inc. Job Number: 600-213973-1

Login Number: 213973 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Data Usability Review: Data Package

Client Name:	**Dowell Artesia**	Project Number:	**D3151100.A.CS.EV.AR.20-04-02**
Project / Affected Property:	**1H2020 Groundwater**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-199031-1**
Reviewer:	**John Ynfante/HOU**	Date Reviewed:	
Level of Review / Validation:	**Level 3**		

ITEM	YES	NO	N/A	COMMENTS
Laboratory Data Package Signature Page included?	☑	☐	☐	
Date of sample collection included?	☑	☐	☐	
Sample receipt temperature ≤ 6° C?	☑	☐	☐	0.8 deg C
Signed COCs included?	☑	☐	☐	
Field ID included?	☑	☐	☐	
Laboratory ID included?	☑	☐	☐	
Date of analysis included?	☑	☐	☐	
Date of sample preparation included?	☑	☐	☐	
Detection levels included?	☑	☐	☐	
Method reference included?	☑	☐	☐	
Sample matrix included?	☑	☐	☐	
Sample results included?	☑	☐	☐	
Case narrative included, where required?	☑	☐	☐	

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative Percent Difference; RRT - Relative Retention Time; RSD - Relative Standard Deviation.

COMMENTS
VOCs: U (TB)
Sulfate: J+ (MS)

Data Usability Review: VOCs (GC/MS), SW-846 8260B

Client Name:	**Dowell Artesia**	Project Number:	**D3151100.A.CS.EV.AR.20-04-02**
Project / Affected Property:	**1H2020 Groundwater**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-199031-1**
Reviewer:	**John Ynfante/HOU**		
Level of Review / Validation:	**Level 3**		

ITEM	YES	NO	N/A	COMMENTS
Preparatory/analytical holding time met?	☑	☐	☐	
Surrogate data included in lab package?	☑	☐	☐	
%R criteria met? (use limits listed below or specify lab limits). Reject %R <10%.	☑	☐	☐	
R5 Method blank data included in Lab Package?	☑	☐	☐	
Criteria met?	☑	☐	☐	
QC check samples/LCS data included in lab package?	☑	☐	☐	
%R criteria met? (specified limits)	☑	☐	☐	
Matrix spike data included in lab package?	☑	☐	☐	
%R criteria met? (laboratory specified limits)	☑	☐	☐	
RPD criteria met? (< 20% water, <50% soil)	☑	☐	☐	
Initial calibration documentation included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%RSD criteria met for CCC? (<30% RSD for CCC, >15% RSD must have fit)	☑	☐	☐	
Calibration verification data included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%D criteria met for CCC? (20% Max, Qualify >25%D)	☑	☐	☐	
Instrument Tune documentation included in lab package?	☑	☐	☐	
Instrument Tune Criteria met?	☑	☐	☐	
Internal standard data included in lab package?	☑	☐	☐	
Area within limits? (within -50% to +100% of last calibration check?	☑	☐	☐	
RRT within limits? (<30 sec. Difference from last calibration check?	☑	☐	☐	

Surrogates	Control Limits	Lab Limits?
1,2-Dichloroethane-d4	water 80-120%, soil 80-120%	
Dibromofluoromethane	water 86-118%, soil 80-120%	
Toluene-d8	water 88-110%, soil 81-117%	
4-Bromofluorobenzene	water 86-115%, soil 74-121%	

Notes:

* SPCC: chloromethane (0.1); 1,1-dichloroethane (0.1); bromoform (0.1); chlorobenzene (0.3); and 1,1,2,2-tetrachloroethane (0.3).

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P

COMMENTS

DL: The following samples were diluted to bring the concentration of target analytes within the calibration range: ARTESIA-MW12-01142020 (600-199031-4) and ARTESIA-MW38-01142020 (600-199031-5). Elevated reporting limits (RLs) are provided.

MB: Naphthalene was detected in the method blank for analytical batch 600-285834 at 0.0003796 J mg/L (< RL) and in the trip blank ARTESIA-TB01-01142020 at 0.000487 J mg/L. Naphthalene detections associated with this method blank were > 5x the MB concentration, but the detection in ARTESIA-MW11-01142020 was < 5x the trip blank and so was flagged U (TB).

Data Usability Review: Sulfate EPA 300

Client Name:	**Dowell Artesia**	Project Number:	**D3151100.A.CS.EV.AR.20-04-02**
Project / Affected Property:	**1H2020 Groundwater**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-199031-1**
Reviewer:	**John Ynfante/HOU**		
Level of Review / Validation:	**Level 3**		

	ITEM	YES	NO	N/A	COMMENTS
	Preparatory/analytical holding time met?	☑	☐	☐	
	Method blank data included in Lab Package?	☑	☐	☐	
	Criteria met? (<MQL)	☑	☐	☐	
	QC check samples/LCS data included in lab package?	☑	☐	☐	
	%R criteria met?	☑	☐	☐	
	Matrix spike data included in lab package?	☑	☐	☐	600-199031-7MS
	%R criteria met? (AA/ICP 75-125%, Hg 85-115%)	☐	☑	☐	
	Sample duplicate data included in lab package?	☑	☐	☐	600-199031-7MSD
	RPD criteria met? (RPD < 20%)	☑	☐	☐	
	Initial calibration documentation included in lab package?	☑	☐	☐	
	Calibration verification data included in lab package?	☑	☐	☐	
	%R criteria met? (Initial 90-110%)	☑	☐	☐	

Notes:

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P

COMMENTS

MS: Sulfate was recovered high in 600-199031-7MS/MSD at 123%/138% (80-120). Associated LCS was within acceptance criteria. Sulfate result in the parent sample was qualified J+ (MS).

CB: The case narrative states that chloride was detected in a calibration blank for analytical batch 600-285676 at > MDL < RL, but chloride is not a target analyte for these samples so no results were affected.

Data Usability Review: Data Package

Client Name:	**Dowell Artesia**	Project Number:	**D3151100.A.CS.EV.AR.20-05-03**
Project / Affected Property:	**1H2020 Groundwater**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-204441-1**
Reviewer:	**John Ynfante/HOU**	Date Reviewed:	
Level of Review / Validation:	**Level 3**		

ITEM	YES	NO	N/A	COMMENTS
Laboratory Data Package Signature Page included?	☑	☐	☐	
Date of sample collection included?	☑	☐	☐	
Sample receipt temperature ≤ 6° C?	☑	☐	☐	2.1 deg C
Signed COCs included?	☑	☐	☐	
Field ID included?	☑	☐	☐	
Laboratory ID included?	☑	☐	☐	
Date of analysis included?	☑	☐	☐	
Date of sample preparation included?	☑	☐	☐	
Detection levels included?	☑	☐	☐	
Method reference included?	☑	☐	☐	
Sample matrix included?	☑	☐	☐	
Sample results included?	☑	☐	☐	
Case narrative included, where required?	☑	☐	☐	

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative Percent Difference; RRT - Relative Retention Time; RSD - Relative Standard Deviation.

COMMENTS
VOCs: J (FD)
Sulfate: No DV flags applied

Data Usability Review: VOCs (GC/MS), SW-846 8260B

Client Name:	**Dowell Artesia**	Project Number:	**D3151100.A.CS.EV.AR.20-05-03**
Project / Affected Property:	**1H2020 Groundwater**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-204441-1**
Reviewer:	**John Ynfante/HOU**		
Level of Review / Validation:	**Level 3**		

ITEM	YES	NO	N/A	COMMENTS
Preparatory/analytical holding time met?	☑	☐	☐	
Surrogate data included in lab package?	☑	☐	☐	
%R criteria met? (use limits listed below or specify lab limits). Reject %R <10%.	☑	☐	☐	
R5 Method blank data included in Lab Package?	☑	☐	☐	
Criteria met?	☑	☐	☐	See comment
QC check samples/LCS data included in lab package?	☑	☐	☐	
%R criteria met? (specified limits)	☑	☐	☐	
Matrix spike data included in lab package?	☑	☐	☐	
%R criteria met? (laboratory specified limits)	☑	☐	☐	
RPD criteria met? (< 20% water, <50% soil)	☑	☐	☐	
Initial calibration documentation included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%RSD criteria met for CCC? (<30% RSD for CCC, >15% RSD must have fit)	☑	☐	☐	
Calibration verification data included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%D criteria met for CCC? (20% Max, Qualify >25%D)	☑	☐	☐	
Instrument Tune documentation included in lab package?	☑	☐	☐	
Instrument Tune Criteria met?	☑	☐	☐	
Internal standard data included in lab package?	☑	☐	☐	
Area within limits? (within -50% to +100% of last calibration check?	☑	☐	☐	
RRT within limits? (<30 sec. Difference from last calibration check?	☑	☐	☐	

Surrogates	Control Limits	Lab Limits?
1,2-Dichloroethane-d4	water 80-120%, soil 80-120%	
Dibromofluoromethane	water 86-118%, soil 80-120%	
Toluene-d8	water 88-110%, soil 81-117%	
4-Bromofluorobenzene	water 86-115%, soil 74-121%	

Notes:

* SPCC: chloromethane (0.1); 1,1-dichloroethane (0.1); bromoform (0.1); chlorobenzene (0.3); and 1,1,2,2-tetrachloroethane (0.3).

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P

COMMENTS

MB: Naphthalene was detected in the method blank for analytical batch 600-293693 at > MDL, but < RL. Associated detections were > 5x MB so no flags applied.

DL: Sample Artesia-MW38-04272020 (600-204441-1) was diluted to bring the concentration of target analytes within the calibration range: Elevated reporting limits (RLs) are provided.

TB: No target analytes detected in trip blank Artesia-TB0-04272020.

Data Usability Review: Sulfate, EPA 300

Client Name:	**Dowell Artesia**	Project Number:	**D3151100.A.CS.EV.AR.20-05-03**
Project / Affected Property:	**1H2020 Groundwater**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-204441-1**
Reviewer:	**John Ynfante/HOU**		
Level of Review / Validation:	**Level 3**		

	ITEM	YES	NO	N/A	COMMENTS
	Preparatory/analytical holding time met?	☑	☐	☐	
	Method blank data included in Lab Package?	☑	☐	☐	
	Criteria met? (<MQL)	☑	☐	☐	
	QC check samples/LCS data included in lab package?	☑	☐	☐	
	%R criteria met?	☑	☐	☐	
	Matrix spike data included in lab package?	☐	☑	☐	
	%R criteria met? (AA/ICP 75-125%, Hg 85-115%)	☐	☐	☑	
	Sample duplicate data included in lab package?	☐	☑	☐	
	RPD criteria met? (RPD < 20%)	☐	☐	☑	
	Initial calibration documentation included in lab package?	☑	☐	☐	
	Calibration verification data included in lab package?	☑	☐	☐	
	%R criteria met? (Initial 90-110%)	☑	☐	☐	

Notes:

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P

COMMENTS

No DV flags applied

Data Usability Review: Data Package

Client Name:	**Dowell Artesia**	Project Number:	**D3151100.A.CS.EV.AR.20-05-03**
Project / Affected Property:	**1H2020 Groundwater**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-204539-1**
Reviewer:	**John Ynfante/HOU**	Date Reviewed:	
Level of Review / Validation:	**Level 3**		

ITEM	YES	NO	N/A	COMMENTS
Laboratory Data Package Signature Page included?	☑	☐	☐	
Date of sample collection included?	☑	☐	☐	
Sample receipt temperature ≤ 6° C?	☑	☐	☐	1.6 deg C
Signed COCs included?	☑	☐	☐	
Field ID included?	☑	☐	☐	
Laboratory ID included?	☑	☐	☐	
Date of analysis included?	☑	☐	☐	
Date of sample preparation included?	☑	☐	☐	
Detection levels included?	☑	☐	☐	
Method reference included?	☑	☐	☐	
Sample matrix included?	☑	☐	☐	
Sample results included?	☑	☐	☐	
Case narrative included, where required?	☑	☐	☐	

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative Percent Difference; RRT - Relative Retention Time; RSD - Relative Standard Deviation.

COMMENTS
VOCs: No DV flags applied
Sulfate: J- (MS)

Data Usability Review: VOCs (GC/MS), SW-846 8260B

Client Name:	**Dowell Artesia**	Project Number:	**D3151100.A.CS.EV.AR.20-05-03**
Project / Affected Property:	**1H2020 Groundwater**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-204539-1**
Reviewer:	**John Ynfante/HOU**		
Level of Review / Validation:	**Level 3**		

ITEM	YES	NO	N/A	COMMENTS
Preparatory/analytical holding time met?	☑	☐	☐	
Surrogate data included in lab package?	☑	☐	☐	
%R criteria met? (use limits listed below or specify lab limits). Reject %R <10%.	☑	☐	☐	
R5 Method blank data included in Lab Package?	☑	☐	☐	
Criteria met?	☑	☐	☐	
QC check samples/LCS data included in lab package?	☑	☐	☐	
%R criteria met? (specified limits)	☑	☐	☐	
Matrix spike data included in lab package?	☑	☐	☐	
%R criteria met? (laboratory specified limits)	☑	☐	☐	
RPD criteria met? (< 20% water, <50% soil)	☑	☐	☐	
Initial calibration documentation included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%RSD criteria met for CCC? (<30% RSD for CCC, >15% RSD must have fit)	☑	☐	☐	
Calibration verification data included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%D criteria met for CCC? (20% Max, Qualify >25%D)	☑	☐	☐	
Instrument Tune documentation included in lab package?	☑	☐	☐	
Instrument Tune Criteria met?	☑	☐	☐	
Internal standard data included in lab package?	☑	☐	☐	
Area within limits? (within -50% to +100% of last calibration check?	☑	☐	☐	
RRT within limits? (<30 sec. Difference from last calibration check?	☑	☐	☐	

Surrogates	Control Limits	Lab Limits?
1,2-Dichloroethane-d4	water 80-120%, soil 80-120%	
Dibromofluoromethane	water 86-118%, soil 80-120%	
Toluene-d8	water 88-110%, soil 81-117%	
4-Bromofluorobenzene	water 86-115%, soil 74-121%	

Notes:

* SPCC: chloromethane (0.1); 1,1-dichloroethane (0.1); bromoform (0.1); chlorobenzene (0.3); and 1,1,2,2-tetrachloroethane (0.3).

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P

COMMENTS

TB: No target analytes detected in trip blank Artesia-TB02-04292020.

Data Usability Review: Sulfate, EPA 300

Client Name:	**Dowell Artesia**	Project Number:	**D3151100.A.CS.EV.AR.20-05-03**
Project / Affected Property:	**1H2020 Groundwater**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-204539-1**
Reviewer:	**John Ynfante/HOU**		
Level of Review / Validation:	**Level 3**		

	ITEM	YES	NO	N/A	COMMENTS
	Preparatory/analytical holding time met?	☑	☐	☐	
	Method blank data included in Lab Package?	☑	☐	☐	
	Criteria met? (<MQL)	☑	☐	☐	
	QC check samples/LCS data included in lab package?	☑	☐	☐	
	%R criteria met?	☑	☐	☐	
	Matrix spike data included in lab package?	☑	☐	☐	
	%R criteria met? (AA/ICP 75-125%, Hg 85-115%)	☐	☑	☐	
	Sample duplicate data included in lab package?	☑	☐	☐	
	RPD criteria met? (RPD < 20%)	☑	☐	☐	
	Initial calibration documentation included in lab package?	☑	☐	☐	
	Calibration verification data included in lab package?	☑	☐	☐	
	%R criteria met? (Initial 90-110%)	☑	☐	☐	

Notes:

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P

COMMENTS

MS: Sulfate was recovered low in 600-204539-2MS/MSD for analytical batch 600-294680. Associated LCS and RPD for the MS/MSD were within acceptance criteria. Sulfate result in sample 600-204539-2 flagged J- (MS).

Data Usability Review: Data Package					
Client Name:	**Dowell Artesia**	Project Number:			**D3151100.A.CS.EV.AR.20-04-02**
Project / Affected Property:	**2020 Performance Monitoring Groundwater**	Project Manager:			**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:			**600-208199-1**
Reviewer:	**John Ynfante/HOU**				
Level of Review / Validation:	**Level 3**				
ITEM		**YES**	**NO**	**N/A**	**COMMENTS**
Laboratory Data Package Signature Page included?		☑	☐	☐	
Date of sample collection included?		☑	☐	☐	
Sample receipt temperature ≤ 6° C?		☑	☐	☐	1.8 deg C
Signed COCs included?		☑	☐	☐	
Field ID included?		☑	☐	☐	
Laboratory ID included?		☑	☐	☐	
Date of analysis included?		☑	☐	☐	
Date of sample preparation included?		☑	☐	☐	
Detection levels included?		☑	☐	☐	
Method reference included?		☑	☐	☐	
Sample matrix included?		☑	☐	☐	
Sample results included?		☑	☐	☐	
Case narrative included, where required?		☑	☐	☐	
Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative Percent Difference; RRT - Relative Retention Time; RSD - Relative Standard Deviation.					
COMMENTS					
VOCs: No DV flags applied					
Sulfate: No DV flags applied					

Data Usability Review: VOCs (GC/MS), SW-846 8260B

Client Name:	**Dowell Artesia**	Project Number:	**D3151100.A.CS.EV.AR.20-04-02**
Project / Affected Property:	**2020 Performance Monitoring Gro**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-208199-1**
Reviewer:	**John Ynfante/HOU**		
Level of Review / Validation:	**Level 3**		

ITEM	YES	NO	N/A	COMMENTS
Preparatory/analytical holding time met?	☑	☐	☐	
Surrogate data included in lab package?	☑	☐	☐	
%R criteria met? (use limits listed below or specify lab limits). Reject %R <10%.	☑	☐	☐	
R5 Method blank data included in Lab Package?	☑	☐	☐	
Criteria met?	☑	☐	☐	See comment
QC check samples/LCS data included in lab package?	☑	☐	☐	LCS/LCSD
%R criteria met? (specified limits)	☐	☑	☐	
Matrix spike data included in lab package?	☐	☑	☐	
%R criteria met? (laboratory specified limits)	☐	☐	☑	
RPD criteria met? (< 20% water, <50% soil)	☑	☐	☐	LCS/LCSD
Initial calibration documentation included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%RSD criteria met for CCC? (<30% RSD for CCC, >15% RSD must have fit)	☑	☐	☐	
Calibration verification data included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%D criteria met for CCC? (20% Max, Qualify >25%D)	☑	☐	☐	
Instrument Tune documentation included in lab package?	☑	☐	☐	
Instrument Tune Criteria met?	☑	☐	☐	
Internal standard data included in lab package?	☑	☐	☐	
Area within limits? (within -50% to +100% of last calibration check?	☑	☐	☐	
RRT within limits? (<30 sec. Difference from last calibration check?	☑	☐	☐	

Surrogates	Control Limits	Lab Limits?
1,2-Dichloroethane-d4	water 80-120%, soil 80-120%	
Dibromofluoromethane	water 86-118%, soil 80-120%	
Toluene-d8	water 88-110%, soil 81-117%	
4-Bromofluorobenzene	water 86-115%, soil 74-121%	

Notes:

* SPCC: chloromethane (0.1); 1,1-dichloroethane (0.1); bromoform (0.1); chlorobenzene (0.3); and 1,1,2,2-tetrachloroethane

Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P

COMMENTS

DL: The following samples were diluted to bring the concentration of target analytes within the calibration range: Artesia-MW37-071420 (600-208199-4) and Artesia-MW38-071420 (600-208199-6). Elevated reporting limits (RLs) are provided.

BS: Naphthalene was recovered high in the LCS and/or LCSD for analytical batch 600-299066 but it was not detected in associated samples so no data were qualified.

TB: No target analytes were detected in trip blank Artesia-TB01-071420.

Data Usability Review: Sulfate, EPA 300

Client Name:	**Dowell Artesia**	Project Number:	**D3151100.A.CS.EV.AR.20-04-02**
Project / Affected Property:	**2020 Performance Monitoring C**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-208199-1**
Reviewer:	**John Ynfante/HOU**		
Level of Review / Validation:	**Level 3**		

	ITEM	YES	NO	N/A	COMMENTS
	Preparatory/analytical holding time met?	☑	☐	☐	
	Method blank data included in Lab Package?	☑	☐	☐	
	Criteria met? (<MQL)	☑	☐	☐	
	QC check samples/LCS data included in lab package?	☑	☐	☐	
	%R criteria met?	☑	☐	☐	
	Matrix spike data included in lab package?	☐	☑	☐	
	%R criteria met? (AA/ICP 75-125%, Hg 85-115%)	☐	☐	☑	
	Sample duplicate data included in lab package?	☐	☑	☐	
	RPD criteria met? (RPD < 20%)	☐	☐	☑	
	Initial calibration documentation included in lab package?	☑	☐	☐	
	Calibration verification data included in lab package?	☑	☐	☐	
	%R criteria met? (Initial 90-110%)	☑	☐	☐	

Notes:

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P

COMMENTS

No DV flags applied

Data Usability Review: Data Package

Client Name:	**Dowell Artesia**	Project Number:	**D3151100.A.CS.EV.AR.20-05-03**
Project / Affected Property:	**2H2020 Groundwater**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-212257-1**
Reviewer:	**John Ynfante/HOU**	Date Reviewed:	
Level of Review / Validation:	**Level 3**		

ITEM	YES	NO	N/A	COMMENTS
Laboratory Data Package Signature Page included?	☑	☐	☐	
Date of sample collection included?	☑	☐	☐	
Sample receipt temperature ≤ 6° C?	☑	☐	☐	1.8 and 2.0 deg C
Signed COCs included?	☑	☐	☐	
Field ID included?	☑	☐	☐	
Laboratory ID included?	☑	☐	☐	
Date of analysis included?	☑	☐	☐	
Date of sample preparation included?	☑	☐	☐	
Detection levels included?	☑	☐	☐	
Method reference included?	☑	☐	☐	
Sample matrix included?	☑	☐	☐	
Sample results included?	☑	☐	☐	
Case narrative included, where required?	☑	☐	☐	

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative Percent Difference; RRT - Relative Retention Time; RSD - Relative Standard Deviation.

COMMENTS
VOCs: U (MB), U (TB), UJ (BD), J (BD)
Sulfate: J (FD)

Data Usability Review: VOCs (GC/MS), SW-846 8260B

Client Name:	**Dowell Artesia**	Project Number:	**D3151100.A.CS.EV.AR.20-05-03**
Project / Affected Property:	**2H2020 Groundwater**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-212257-1**
Reviewer:	**John Ynfante/HOU**		
Level of Review / Validation:	**Level 3**		

ITEM	YES	NO	N/A	COMMENTS
Preparatory/analytical holding time met?	☑	☐	☐	
Surrogate data included in lab package?	☑	☐	☐	
%R criteria met? (use limits listed below or specify lab limits). Reject %R <10%.	☑	☐	☐	
R5 Method blank data included in Lab Package?	☑	☐	☐	
Criteria met?	☐	☑	☐	
QC check samples/LCS data included in lab package?	☑	☐	☐	
%R criteria met? (specified limits)	☑	☐	☐	
Matrix spike data included in lab package?	☑	☐	☐	
%R criteria met? (laboratory specified limits)	☑	☐	☐	
RPD criteria met? (< 20% water, <50% soil)	☑	☐	☐	
Initial calibration documentation included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%RSD criteria met for CCC? (<30% RSD for CCC, >15% RSD must have fit)	☑	☐	☐	
Calibration verification data included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%D criteria met for CCC? (20% Max, Qualify >25%D)	☑	☐	☐	
Instrument Tune documentation included in lab package?	☑	☐	☐	
Instrument Tune Criteria met?	☑	☐	☐	
Internal standard data included in lab package?	☑	☐	☐	
Area within limits? (within -50% to +100% of last calibration check?	☑	☐	☐	
RRT within limits? (<30 sec. Difference from last calibration check?	☑	☐	☐	

Surrogates	Control Limits	Lab Limits?
1,2-Dichloroethane-d4	water 80-120%, soil 80-120%	
Dibromofluoromethane	water 86-118%, soil 80-120%	
Toluene-d8	water 88-110%, soil 81-117%	
4-Bromofluorobenzene	water 86-115%, soil 74-121%	

Notes:

* SPCC: chloromethane (0.1); 1,1-dichloroethane (0.1); bromoform (0.1); chlorobenzene (0.3); and 1,1,2,2-tetrachloroethane (0.3).

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P

COMMENTS

MB: Benzene and naphthalene were detected in method blanks. Associated detections of naphthalene < 5x MB were flagged U.

TB: Naphthalene was detected in the trip blank ARTESIA-TB03-100520 at 0.000145 mg/L. Associated detections < 5x TB flagged U.

BD: The RPDs for 1,1,-DCA; 1,1,-DCE; benzene; and tetrachloroethene in the LCS/LCSD were outside acceptance criteria. Associated detections were flagged J and non-detects were flagged UJ.

Data Usability Review: Sulfate, EPA 300

Client Name:	**Dowell Artesia**	Project Number:	**D3151100.A.CS.EV.AR.20-05-03**
Project / Affected Property:	**2H2020 Groundwater**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-212257-1**
Reviewer:	**John Ynfante/HOU**		
Level of Review / Validation:	**Level 3**		

ITEM	YES	NO	N/A	COMMENTS
Preparatory/analytical holding time met?	☑	☐	☐	
Method blank data included in Lab Package?	☑	☐	☐	
Criteria met? (<MQL)	☑	☐	☐	
QC check samples/LCS data included in lab package?	☑	☐	☐	
%R criteria met?	☑	☐	☐	
Matrix spike data included in lab package?	☑	☐	☐	
%R criteria met? (AA/ICP 75-125%, Hg 85-115%)	☑	☐	☐	
Sample duplicate data included in lab package?	☑	☐	☐	
RPD criteria met? (RPD < 20%)	☑	☐	☐	
Initial calibration documentation included in lab package?	☑	☐	☐	
Calibration verification data included in lab package?	☑	☐	☐	
%R criteria met? (Initial 90-110%)	☑	☐	☐	

Notes:

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P

COMMENTS

FD: The RPD for sulfate in sample ARTESIA-MW11-100620 and its associated field duplicate ARTESIA-MD11-100620 was outside criteria. Results in the two samples were qualified J.

Data Usability Review: Data Package					
Client Name:	**Dowell Artesia**	Project Number:			**D3351100 A.CS.EV.AR.20-01-03**
Project / Affected Property:	**Downgradient Delineation GW 2020**	Project Manager:			**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:			**600-213963-1**
Reviewer:	**John Ynfante/HOU**	Date Reviewed:			
Level of Review / Validation:	**Level 3**				
ITEM		**YES**	**NO**	**N/A**	**COMMENTS**
Laboratory Data Package Signature Page included?		☑	☐	☐	
Date of sample collection included?		☑	☐	☐	
Sample receipt temperature ≤ 6° C?		☑	☐	☐	5.8 deg C
Signed COCs included?		☑	☐	☐	
Field ID included?		☑	☐	☐	
Laboratory ID included?		☑	☐	☐	
Date of analysis included?		☑	☐	☐	
Date of sample preparation included?		☑	☐	☐	
Detection levels included?		☑	☐	☐	
Method reference included?		☑	☐	☐	
Sample matrix included?		☑	☐	☐	
Sample results included?		☑	☐	☐	
Case narrative included, where required?		☑	☐	☐	
Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative Percent Difference; RRT - Relative Retention Time; RSD - Relative Standard Deviation.					
COMMENTS					
VOCs: No DV flags applied					

Data Usability Review: VOCs (GC/MS), SW-846 8260B

Client Name:	**Dowell Artesia**	Project Number:	**D3351100 A.CS.EV.AR.20-01-03**
Project / Affected Property:	**Downgradient Delineation GW 2020**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-213963-1**
Reviewer:	**John Ynfante/HOU**		
Level of Review / Validation:	**Level 3**		

ITEM	YES	NO	N/A	COMMENTS
Preparatory/analytical holding time met?	☑	☐	☐	
Surrogate data included in lab package?	☑	☐	☐	
%R criteria met? (use limits listed below or specify lab limits). Reject %R <10%.	☑	☐	☐	
R5 Method blank data included in Lab Package?	☑	☐	☐	
Criteria met?	☑	☐	☐	
QC check samples/LCS data included in lab package?	☑	☐	☐	
%R criteria met? (specified limits)	☑	☐	☐	
Matrix spike data included in lab package?	☑	☐	☐	600-213963-2MS/MSD
%R criteria met? (laboratory specified limits)	☑	☐	☐	
RPD criteria met? (< 20% water, <50% soil)	☑	☐	☐	
Initial calibration documentation included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%RSD criteria met for CCC? (<30% RSD for CCC, >15% RSD must have fit)	☑	☐	☐	
Calibration verification data included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%D criteria met for CCC? (20% Max, Qualify >25%D)	☑	☐	☐	
Instrument Tune documentation included in lab package?	☑	☐	☐	
Instrument Tune Criteria met?	☑	☐	☐	
Internal standard data included in lab package?	☑	☐	☐	
Area within limits? (within -50% to +100% of last calibration check?	☑	☐	☐	
RRT within limits? (<30 sec. Difference from last calibration check?	☑	☐	☐	

Surrogates	Control Limits	Lab Limits?
1,2-Dichloroethane-d4	water 80-120%, soil 80-120%	
Dibromofluoromethane	water 86-118%, soil 80-120%	
Toluene-d8	water 88-110%, soil 81-117%	
4-Bromofluorobenzene	water 86-115%, soil 74-121%	

Notes:

* SPCC: chloromethane (0.1); 1,1-dichloroethane (0.1); bromoform (0.1); chlorobenzene (0.3); and 1,1,2,2-tetrachloroethane (0.3).

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P

COMMENTS

TB: No target analytes were detected in the trip blank ARTESIA-TB01-111820.

FD: The precision between sample ARTESIA-SB39-111920 and its field duplicate ARTESIA-MB39-111920 were within acceptance criteria.

Data Usability Review: Data Package					
Client Name:	**Dowell Artesia**	Project Number:			**D3151100 A.CS.EV.AR.20-01-03**
Project / Affected Property:	**Downgradient Delineation GW 2020**	Project Manager:			**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:			**600-213972-1**
Reviewer:	**John Ynfante/HOU**	Date Reviewed:			
Level of Review / Validation:	**Level 3**				
ITEM		**YES**	**NO**	**N/A**	**COMMENTS**
Laboratory Data Package Signature Page included?		☑	☐	☐	
Date of sample collection included?		☑	☐	☐	
Sample receipt temperature ≤ 6° C?		☑	☐	☐	1.8 deg C
Signed COCs included?		☑	☐	☐	
Field ID included?		☑	☐	☐	
Laboratory ID included?		☑	☐	☐	
Date of analysis included?		☑	☐	☐	
Date of sample preparation included?		☑	☐	☐	
Detection levels included?		☑	☐	☐	
Method reference included?		☑	☐	☐	
Sample matrix included?		☑	☐	☐	
Sample results included?		☑	☐	☐	
Case narrative included, where required?		☑	☐	☐	
Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative Percent Difference; RRT - Relative Retention Time; RSD - Relative Standard Deviation.					
COMMENTS					
VOCs: No DV flags applied					

Data Usability Review: VOCs (GC/MS), SW-846 8260B

Client Name:	**Dowell Artesia**	Project Number:	**D3151100 A.CS.EV.AR.20-01-03**
Project / Affected Property:	**Downgradient Delineation GW 2020**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-213972-1**
Reviewer:	**John Ynfante/HOU**		
Level of Review / Validation:	**Level 3**		

ITEM	YES	NO	N/A	COMMENTS
Preparatory/analytical holding time met?	☑	☐	☐	
Surrogate data included in lab package?	☑	☐	☐	
%R criteria met? (use limits listed below or specify lab limits). Reject %R <10%.	☑	☐	☐	
R5 Method blank data included in Lab Package?	☑	☐	☐	
Criteria met?	☑	☐	☐	
QC check samples/LCS data included in lab package?	☑	☐	☐	LCS/LCSD
%R criteria met? (specified limits)	☑	☐	☐	
Matrix spike data included in lab package?	☐	☑	☐	
%R criteria met? (laboratory specified limits)	☐	☐	☑	
RPD criteria met? (< 20% water, <50% soil)	☑	☐	☐	from LCS/LCSD
Initial calibration documentation included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%RSD criteria met for CCC? (<30% RSD for CCC, >15% RSD must have fit)	☑	☐	☐	
Calibration verification data included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%D criteria met for CCC? (20% Max, Qualify >25%D)	☑	☐	☐	
Instrument Tune documentation included in lab package?	☑	☐	☐	
Instrument Tune Criteria met?	☑	☐	☐	
Internal standard data included in lab package?	☑	☐	☐	
Area within limits? (within -50% to +100% of last calibration check?	☑	☐	☐	
RRT within limits? (<30 sec. Difference from last calibration check?	☑	☐	☐	

Surrogates	Control Limits	Lab Limits?
1,2-Dichloroethane-d4	water 80-120%, soil 80-120%	
Dibromofluoromethane	water 86-118%, soil 80-120%	
Toluene-d8	water 88-110%, soil 81-117%	
4-Bromofluorobenzene	water 86-115%, soil 74-121%	

Notes:

* SPCC: chloromethane (0.1); 1,1-dichloroethane (0.1); bromoform (0.1); chlorobenzene (0.3); and 1,1,2,2-tetrachloroethane (0.3).

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P

COMMENTS

TB: No target analytes were detected in the trip blank ARTESIA-TB02-112020

Data Usability Review: Data Package					
Client Name:	**Dowell Artesia**		Project Number:		**D3151100 A.CS.EV.AR.20-01-03**
Project / Affected Property:	**Downgradient Delineation GW 2020 - WC**		Project Manager:		**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**		Lab SDG # / Job #:		**600-213973-1**
Reviewer:	**John Ynfante/HOU**		Date Reviewed:		
Level of Review / Validation:	**Level 3**				
ITEM		**YES**	**NO**	**N/A**	**COMMENTS**
Laboratory Data Package Signature Page included?		☑	☐	☐	
Date of sample collection included?		☑	☐	☐	
Sample receipt temperature ≤ 6° C?		☑	☐	☐	1.0 deg C
Signed COCs included?		☑	☐	☐	
Field ID included?		☑	☐	☐	
Laboratory ID included?		☑	☐	☐	
Date of analysis included?		☑	☐	☐	
Date of sample preparation included?		☑	☐	☐	
Detection levels included?		☑	☐	☐	
Method reference included?		☑	☐	☐	
Sample matrix included?		☑	☐	☐	
Sample results included?		☑	☐	☐	
Case narrative included, where required?		☑	☐	☐	
Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative Percent Difference; RRT - Relative Retention Time; RSD - Relative Standard Deviation.					
COMMENTS					
VOCs: No DV flags applied					
SVOCs: No DV flags applied					
Metals: U (MB)					

Data Usability Review: VOCs (GC/MS), SW-846 8260B

Client Name:	**Dowell Artesia**	Project Number:	**D3151100 A.CS.EV.AR.20-01-03**
Project / Affected Property:	**Downgradient Delineation GW 2020 - WC**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-213973-1**
Reviewer:	**John Ynfante/HOU**		
Level of Review / Validation:	**Level 3**		

ITEM	YES	NO	N/A	COMMENTS
Preparatory/analytical holding time met?	☑	☐	☐	
Surrogate data included in lab package?	☑	☐	☐	
%R criteria met? (use limits listed below or specify lab limits). Reject %R <10%.	☑	☐	☐	
R5 Method blank data included in Lab Package?	☑	☐	☐	
Criteria met?	☑	☐	☐	
QC check samples/LCS data included in lab package?	☑	☐	☐	LCS/LCSD
%R criteria met? (specified limits)	☑	☐	☐	
Matrix spike data included in lab package?	☐	☑	☐	
%R criteria met? (laboratory specified limits)	☐	☐	☑	
RPD criteria met? (< 20% water, <50% soil)	☑	☐	☐	from LCS/LCSD
Initial calibration documentation included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%RSD criteria met for CCC? (<30% RSD for CCC, >15% RSD must have fit)	☑	☐	☐	
Calibration verification data included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☑	☐	☐	
%D criteria met for CCC? (20% Max, Qualify >25%D)	☑	☐	☐	
Instrument Tune documentation included in lab package?	☑	☐	☐	
Instrument Tune Criteria met?	☑	☐	☐	
Internal standard data included in lab package?	☑	☐	☐	
Area within limits? (within -50% to +100% of last calibration check?	☑	☐	☐	
RRT within limits? (<30 sec. Difference from last calibration check?	☑	☐	☐	

Surrogates	Control Limits	Lab Limits?
1,2-Dichloroethane-d4	water 80-120%, soil 80-120%	
Dibromofluoromethane	water 86-118%, soil 80-120%	
Toluene-d8	water 88-110%, soil 81-117%	
4-Bromofluorobenzene	water 86-115%, soil 74-121%	

Notes:

* SPCC: chloromethane (0.1); 1,1-dichloroethane (0.1); bromoform (0.1); chlorobenzene (0.3); and 1,1,2,2-tetrachloroethane (0.3).

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P

COMMENTS

No DV flags applied

CC: Method 8260B: The CCV associated with batch 600-307874 recovered above the upper control limit for carbon tetrachloride but the analyte was not detected in the associated samples so data were qualified.

DL: Method 8260B: The following sample was diluted due to the nature of the sample matrix: ARTESIA-SOILIDW-112020 (600-213973-1). Elevated reporting limits (RLs) are provided.

Data Usability Review: SVOCs (GC/MS), SW-846 8270C

Client Name:	**Dowell Artesia**	Project Number:	**D3151100 A.CS.EV.AR.20-01-03**
Project / Affected Property:	**Downgradient Delineation GW 2020 - WC**	Project Manager:	**Aleeca Forsberg/ABQ**
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-213973-1**
Reviewer:	**John Ynfante/HOU**		
Level of Review / Validation:	**Level 3**		

ITEM	YES	NO	N/A	COMMENTS
Preparatory/analytical holding time met?	☑	☐	☐	
Surrogate data included in lab package?	☑	☐	☐	
%R criteria met? (use limits listed below or specify lab limits). Reject <10%	☑	☐	☐	
R5 Method blank data included in Lab Package?	☑	☐	☐	
Criteria met?	☑	☐	☐	
QC check samples/LCS data included in lab package?	☑	☐	☐	
%R criteria met? (specified limits)	☑	☐	☐	
Matrix spike data included in lab package?	☐	☑	☐	
%R criteria met? (laboratory specified limits)	☐	☐	☑	
RPD criteria met? (< 20% water, <50% soil)	☐	☐	☑	
Initial calibration documentation included in lab package?	☑	☐	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☐	☐	☑	level 2 report for waste characterization
%RSD criteria met for CCC? (<30% RSD for CCC, >15% RSD must have fit)	☐	☐	☑	level 2 report for waste characterization
Calibration verification data included in lab package?	☐	☑	☐	
RF criteria met for SPCC? RRF <0.05 rejected.	☐	☐	☑	level 2 report for waste characterization
%D criteria met for CCC? (20% Max, Qualify >25%D)	☐	☐	☑	level 2 report for waste characterization
Instrument Tune documentation included in lab package?	☐	☑	☐	
Instrument Tune criteria met?	☐	☐	☑	level 2 report for waste characterization
Internal standard documentation included in lab package?	☐	☑	☐	
Area within limits? (within -50% to +100% of last calibration check?	☐	☐	☑	level 2 report for waste characterization
RRT within limits? (<30 sec. Difference from last calibration check?	☐	☐	☑	level 2 report for waste characterization

Surrogates	Control Limits	Lab Limits?
Nitrobezene-d5	water 35-114%, soil 23-120%	
2-Fluorobiphenyl	water 43-116%, soil 30-115%	
Terphenyl-d14	water 33-141%, soil 18-137%	
Phenol-d5	water 10-94%, soil 24-113%	
2-Fluorophenol	water 21-100%, soil 25-121%	
2,4,6-Tribromophenol	water 10-123%, soil 19-122%	
2-Chlorophenol-d4	water 33-110%, soil 20-130%	
1,2-Dichlorobenzene-d4	water 16-110%, soil 20-130%	

Notes:

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P

COMMENTS

No DV flags applied

Data Usability Review: Metals, SW-846 6010, 7470/7471, 7000 Series					
Client Name:	**Dowell Artesia**	Project Number:	**D3151100 A.CS.EV.AR.20-01-03**		
Project / Affected Property:	**Downgradient Delineation GW 2020 - WC**	Project Manager:	**Aleeca Forsberg/ABQ**		
Laboratory:	**TestAmerica-Houston**	Lab SDG # / Job #:	**600-213973-1**		
Reviewer:	**John Ynfante/HOU**				
Level of Review / Validation:	**Level 3**				
ITEM		**YES**	**NO**	**N/A**	**COMMENTS**
Preparatory/analytical holding time met?		☑	☐	☐	
Method blank data included in Lab Package?		☑	☐	☐	
Criteria met? (< MDL)		☐	☑	☐	
LCS / QC check sample data included in lab package?		☑	☐	☐	
%R criteria met? (90-110%)		☑	☐	☐	
Matrix spike data included in lab package?		☐	☑	☐	
%R criteria met? (AA/ICP 75-125%, Hg 85-115%)		☐	☐	☑	
MSD or sample duplicate data included in lab package?		☐	☑	☐	
RPD criteria met? (water RPD < 20%; soil RPD < 30%)		☐	☐	☑	
Initial calibration documentation included in lab package?		☐	☑	☐	level 2 report for waste characterization
Proper number of standards used in calibration curve? (ICP blank+1 std; AA blank+3 stds; Hg blank+5 stds)		☐	☐	☑	
Calibration verification data included in lab package?		☐	☑	☐	level 2 report for waste characterization
%R criteria met? (90-110%)		☐	☐	☑	
Interference check sample data included? (ICP only)		☐	☑	☐	level 2 report for waste characterization
%R criteria met? (80-120%)		☐	☐	☑	
Dilution test (1:5) data included?		☐	☑	☐	level 2 report for waste characterization
Results within 10% original?		☐	☐	☑	
Post digestion spike included?		☐	☑	☐	level 2 report for waste characterization
%R criteria met? (75-125% ICP), (85-115% Hg/AA)		☐	☐	☑	
Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; MQL - Method Quantitation Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative P					
COMMENTS					
MB: The 6010 method blank for batch 600-307800 and the leachate blank for batch 600-307748 contained silver above the method detection limit. The associated detection of silver was < 5x MB so was flagged U.					
MB: The 6010 leachate blank for batch 600-307748 contained barium above the method detection limit. The associated detection of barium was > 5x MB so no flags applied.					

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 22510

CONDITIONS

Operator: Schlumberger Technology Corporation 121 Industrial Blvd Sugar Land, TX 77478	OGRID: 330624
	Action Number: 22510
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Report was reviewed and and section 5.2 recommendations are approved by Bradford Billings and Chad Hensley. Please, include understudy chad.hensley@state.nm.us on all future communications concerning this project.	6/9/2021